

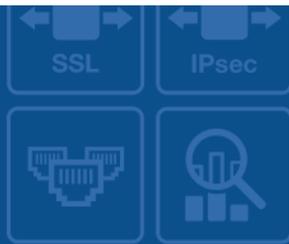


**FORTINET**  
High Performance Network Security



# FortiAnalyzer - Dataset Reference

VERSION 5.4.0



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February 17, 2016

FortiAnalyzer 5.4.0 Dataset Reference

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## Change Log

Date	Change Description
2016-02-17	Updated for version 5.4.0

# Introduction

This document provides information about the various types of FortiAnalyzer datasets.

## Understanding Datasets and Macros

FortiAnalyzer datasets are collections of log messages from monitored devices.

Charts in FortiAnalyzer are generated based on the datasets. To create a chart, you can use the predefined datasets, or you can create your own custom datasets by querying the log messages in the SQL database on the FortiAnalyzer unit. Both predefined and custom datasets can be cloned, but only custom datasets can be deleted. You can also view the SQL query for a dataset, and test the query against specific devices or log arrays.

You can create custom reports that contain macros that are created based on predefined and custom datasets. Macros are used to dynamically display the device log data as text in a report. They can be embedded within a text field of a paragraph in a report layout in XML format. Macros display a single value, such as a user name, highest session count, or highest bandwidth, and so on.

For more information about how to create datasets, charts, and macros, see the FortiAnalyzer *Administration Guide*.

## Dataset Reference List

The following table lists the available predefined data sets reported by FortiAnalyzer. For documentation and technical support reference purposes, this table contains the dataset names, SQL query syntax for each dataset, and the log category of the dataset.

Dataset Name	Description	Log Category
Traffic-Bandwidth-Summary-Day-Of-Month	Traffic bandwidth timeline	traffic

```

select
  $flex_timescale as hodex,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out,
  sum(
    coalesce(rcvbyte, 0)
  ) as traffic_in
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  hodex
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
  )> 0
order by
  hodex

```

Dataset Name	Description	Log Category
Session-Summary-Day-Of-Month	Number of session timeline	traffic

```

select
  $flex_timescale as hodex,
  count(*) as sessions
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  hodex
order by
  hodex

```

Dataset Name	Description	Log Category
Top-Users-By-Bandwidth	Bandwidth application top users by bandwidth usage	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvdbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out,
  count(*) as sessions
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  user_src
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
Top-App-By-Bandwidth	Top applications by bandwidth usage	traffic

```

select
  app_group_name(app) as app_group,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvdbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out,
  count(*) as sessions
from
  $log
where
  $filter

```

```

    and logid_to_int(logid) not in (4, 7, 14)
    and nullifna(app) is not null
group by
    app_group
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
Top-User-Source-By-Sessions	Top user source by session count	traffic

```

select
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    count(*) as sessions
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    user_src
order by
    sessions desc

```

Dataset Name	Description	Log Category
Top-App-By-Sessions	Top applications by session count	traffic

```

select
    app_group_name(app) as app_group,
    count(*) as sessions
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and nullifna(app) is not null
group by
    app_group
order by
    sessions desc

```

Dataset Name	Description	Log Category
Top-Destination-Addresses-By-Sessions	Top destinations by session count	traffic

```

select
  coalesce(
    nullifna(
      root_domain(hostname)
    ),
    ipstr(dstip)
  ) as domain,
  count(*) as sessions
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  domain
order by
  sessions desc

```

Dataset Name	Description	Log Category
Top-Destination-Addresses-By-Bandwidth	Top destinations by bandwidth usage	traffic

```

select
  coalesce(
    nullifna(
      root_domain(hostname)
    ),
    ipstr(dstip)
  ) as domain,
  sum(
    coalesce(sentbyte, 0) + coalesce(rcvdbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvdbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and coalesce(
    nullifna(
      root_domain(hostname)
    ),
    ipstr(`dstip`)
  )

```

```

) is not null
group by
  domain
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
DHCP-Summary-By-Port	Event top dhcp summary	event

```

drop
  table if exists pre_clt_list;
drop
  table if exists cur_clt_list;
drop
  table if exists allocated_ip; create temporary table pre_clt_list as ###(select concat
    (interface, '.', devid) as intf, mac from $log where $last3day_period $filter and
    logid_to_int(logid) = 26001 and dhcp_msg = 'Ack' group by interface, devid, mac)
    ###; create temporary table cur_clt_list as ###(select concat(interface, '.',
    devid) as intf, mac from $log where $filter and logid_to_int(logid) = 26001 and
    dhcp_msg = 'Ack' group by interface, devid, mac)###; create temporary table
    allocated_ip as select distinct on (1) intf, cast(used*100.0/total as decimal
    (18,2)) as percent_of_allocated_ip from ###(select distinct on (1) concat
    (interface, '.', devid) as intf, used, total, itime from $log where $filter and
    logid_to_int(logid)=26003 and total>0 order by 1, itime desc)### t order by 1,
    itime desc; select t1.intf as interface, percent_of_allocated_ip, new_cli_count
    from allocated_ip t1 inner join (select intf, count(mac) as new_cli_count from cur_
    clt_list where not exists (select 1 from pre_clt_list where cur_clt_list.mac=pre_
    clt_list.mac) group by intf) t2 on t1.intf=t2.intf order by interface, percent_of_
    allocated_ip desc

```

Dataset Name	Description	Log Category
Top-Wifi-Client-By-Bandwidth	Traffic top WiFi client by bandwidth usage	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  srcssid,
  devtype,
  coalesce(
    nullifna(`srcname`),
    `srcmac`
  ) as hostname_mac,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log

```

```

where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and (
    srcssid is not null
    or dstssid is not null
  )
group by
  user_src,
  srcssid,
  devtype,
  hostname_mac
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
Traffic-History-By-Active-User	Traffic history by active user	traffic

```

select
  hodex,
  count(
    distinct(user_src)
  ) as total_user
from
  ###(select $flex_timescale as hodex, coalesce(nullifna(`user`), nullifna(`unauthuser`)),
  ipstr(`srcip`)) as user_src from $log where $filter and logid_to_int(logid) not in
  (4, 7, 14) group by hodex, user_src order by hodex)### t group by hodex order by
  hodex

```

Dataset Name	Description	Log Category
Top-Allowed-Websites-By-Requests	UTM top allowed web sites by request	traffic

```

select
  hostname,
  catdesc,
  count(*) as requests
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and utmevent in (
    'webfilter', 'banned-word', 'web-content',
    'command-block', 'script-filter'
  )
  and hostname is not null
  and (
    utmaction not in ('block', 'blocked')
    or action != 'deny'
  )

```

```
)
group by
  hostname,
  catdesc
order by
  requests desc
```

Dataset Name	Description	Log Category
Top-50-Websites-By-Bandwidth	Webfilter top allowed web sites by bandwidth usage	webfilter

```
select
  domain,
  string_agg(distinct catdesc, ', ' ) as agg_catdesc,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  ###(select coalesce(nullifna(hostname), ipstr(`dstip`)) as domain, catdesc, sum
    (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth, sum(coalesce(rcvdbyte,
    0)) as traffic_in, sum(coalesce(sentbyte, 0)) as traffic_out from $log-traffic
  where $filter and logid_to_int(logid) not in (4, 7, 14) and utmaction!='blocked'
  and ((logver>=52 and countweb>0) or ((logver is null) and utmevent in ('webfilter',
  'banned-word', 'web-content', 'command-block', 'script-filter'))) group by domain,
  catdesc having sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))>0 order by
  bandwidth desc)### t group by domain, catdesc order by bandwidth desc
```

Dataset Name	Description	Log Category
Top-Blocked-Websites	UTM top blocked web sites by request	traffic

```
select
  hostname,
  count(*) as requests
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and utmevent in (
    'webfilter', 'banned-word', 'web-content',
    'command-block', 'script-filter'
  )
  and hostname is not null
  and (
    utmaction in ('block', 'blocked')
    or action = 'deny'
  )
group by
  hostname
order by
  requests desc
```

Dataset Name	Description	Log Category
Top-Web-Users-By-Request	UTM top web users by request	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  devtype,
  srcname,
  count(*) as requests
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and utmevent in (
    'webfilter', 'banned-word', 'web-content',
    'command-block', 'script-filter'
  )
group by
  user_src,
  devtype,
  srcname
order by
  requests desc

```

Dataset Name	Description	Log Category
Top-Allowed-WebSites-By-Bandwidth	UTM top allowed websites by bandwidth usage	traffic

```

select
  appid,
  hostname,
  catdesc,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and utmevent in (
    'webfilter', 'banned-word', 'web-content',

```

```

        'command-block', 'script-filter'
    )
    and hostname is not null
group by
    appid,
    hostname,
    catdesc
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc
    
```

Dataset Name	Description	Log Category
Top-Blocked-Web-Users	UTM top blocked web users	traffic

```

select
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    devtype,
    srcname,
    count(*) as requests
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and utmevent in (
        'webfilter', 'banned-word', 'web-content',
        'command-block', 'script-filter'
    )
    and (
        utmaction in ('block', 'blocked')
        or action = 'deny'
    )
group by
    user_src,
    devtype,
    srcname
order by
    requests desc
    
```

Dataset Name	Description	Log Category
Top-20-Web-Users-By-Bandwidth	Webfilter top web users by bandwidth usage	webfilter

```

select
    user_src,
    sum(bandwidth) as bandwidth,
    sum(traffic_in) as traffic_in,
    
```

```

sum(traffic_out) as traffic_out
from
###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
src, sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0)) as bandwidth, sum(coalesce
(rcvbyte, 0)) as traffic_in, sum(coalesce(sentbyte, 0)) as traffic_out from $log-
traffic where $filter and logid_to_int(logid) not in (4, 7, 14) and ((logver>=52
and countweb>0) or ((logver is null) and utmevent in ('webfilter', 'banned-word',
'web-content', 'command-block', 'script-filter'))) group by user_src having sum
(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0))>0 order by bandwidth desc)### t group
by user_src order by bandwidth desc

```

Dataset Name	Description	Log Category
Top-Web-Users-By-Bandwidth	UTM top web users by bandwidth usage	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  devtype,
  srcname,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and utmevent in (
    'webfilter', 'banned-word', 'web-content',
    'command-block', 'script-filter'
  )
group by
  user_src,
  devtype,
  srcname
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
Top-Video-Streaming-Websites-By-Bandwidth	UTM top video streaming websites by bandwidth usage	traffic

```

select
  appid,
  hostname,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvdbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and catdesc in ('Streaming Media and Download')
group by
  appid,
  hostname
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc
    
```

Dataset Name	Description	Log Category
Top-Email-Senders-By-Count	Default top email senders by count	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  count(*) as requests
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and service in (
    'smtp', 'SMTP', '25/tcp', '587/tcp',
    'smtps', 'SMTPS', '465/tcp'
  )
group by
    
```

```

user_src
order by
requests desc

```

Dataset Name	Description	Log Category
Top-Email-Receivers-By-Count	Default email top receivers by count	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  count(*) as requests
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and service in (
    'pop3', 'POP3', '110/tcp', 'imap',
    'IMAP', '143/tcp', 'imaps', 'IMAPS',
    '993/tcp', 'pop3s', 'POP3S', '995/tcp'
  )
group by
  user_src
order by
  requests desc

```

Dataset Name	Description	Log Category
Top-Email-Senders-By-Bandwidth	Default email top senders by bandwidth usage	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and service in (
    'smtp', 'SMTP', '25/tcp', '587/tcp',
    'smtps', 'SMTPS', '465/tcp'
  )
group by
  user_src
having

```

```
sum(
  coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
)> 0
order by
  bandwidth desc
```

Dataset Name	Description	Log Category
Top-Email-Receivers-By-Bandwidth	Default email top receivers by bandwidth usage	traffic

```
select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and service in (
    'pop3', 'POP3', '110/tcp', 'imap',
    'IMAP', '143/tcp', 'imaps', 'IMAPS',
    '993/tcp', 'pop3s', 'POP3S', '995/tcp'
  )
group by
  user_src
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc
```

Dataset Name	Description	Log Category
Top-Malware-By-Name	UTM top virus	traffic

```
select
  virus,
  (
    case when virus like 'Riskware%' then 'Spyware' when virus like 'Adware%' then
      'Adware' else 'Virus' end
  ) as malware_type,
  sum(totalnum) as totalnum
from
  (
    ###(select virus, count(*) as totalnum from $log-traffic where $filter and logid_to_
      int(logid) not in (4, 7, 14) and utmevent is not null and virus is not null
      group by virus order by totalnum desc)### union all ###(select virus, count(*)
      as totalnum from $log-virus where $filter and (eventtype is null or logver>=52)
```

```
and nullifna(virus) is not null group by virus order by totalnum desc)###) t
group by virus, malware_type order by totalnum desc
```

Dataset Name	Description	Log Category
Top-Virus-By-Name	UTM top virus	traffic

```
select
  virus,
  (
    case when virus like 'Riskware%' then 'Spyware' when virus like 'Adware%' then
      'Adware' else 'Virus' end
  ) as malware_type,
  sum(totalnum) as totalnum
from
  (
    ###(select virus, count(*) as totalnum from $log-traffic where $filter and logid_to_
      int(logid) not in (4, 7, 14) and utmevent is not null and virus is not null
      group by virus order by totalnum desc)### union all ###(select virus, count(*)
      as totalnum from $log-virus where $filter and (eventtype is null or logver>=52)
      and nullifna(virus) is not null group by virus order by totalnum desc)###) t
    group by virus, malware_type order by totalnum desc
```

Dataset Name	Description	Log Category
Top-Virus-Victim	UTM top virus user	traffic

```
select
  user_src,
  sum(totalnum) as totalnum
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
      user_src, count(*) as totalnum from $log-traffic where $filter and logid_to_int
      (logid) not in (4, 7, 14) and utmevent is not null and virus is not null group
      by user_src order by totalnum desc)### union all ###(select coalesce(nullifna
      (`user`), ipstr(`srcip`)) as user_src, count(*) as totalnum from $log-virus
      where $filter and (eventtype is null or logver>=52) and nullifna(virus) is not
      null group by user_src order by totalnum desc)###) t group by user_src order by
      totalnum desc
```

Dataset Name	Description	Log Category
Top-Attack-Source	UTM top attack source	attack

```
select
  coalesce(
    nullifna(`user`),
    ipstr(`srcip`)
  ) as user_src,
  count(*) as totalnum
from
  $log
where
```

```

$filter
group by
  user_src
order by
  totalnum desc
    
```

Dataset Name	Description	Log Category
Top-Attack-Victim	UTM top attack dest	attack

```

select
  dstip,
  count(*) as totalnum
from
  $log
where
  $filter
  and dstip is not null
group by
  dstip
order by
  totalnum desc
    
```

Dataset Name	Description	Log Category
Top-Static-IPSEC-Tunnels-By-Bandwidth	Top static IPsec tunnels by bandwidth usage	event

```

select
  vpn_name,
  sum(traffic_in + traffic_out) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  (
    select
      devid,
      vd,
      remip,
      tunnelid,
      vpn_name,
      max(traffic_in) as traffic_in,
      max(traffic_out) as traffic_out
    from
      ###(select devid, vd, remip, vpn_trim(vpntunnel) as vpn_name, tunnelid, max
      (coalesce(sentbyte, 0)) as traffic_out, max(coalesce(rcvdbyte, 0)) as
      traffic_in from $log where $filter and subtype='vpn' and tunneltype like
      'ipsec%' and (tunnelip is null or (tunnelip='0.0.0.0' and logver is null))
      and action in ('tunnel-stats', 'tunnel-down') and tunnelid is not null group
      by devid, vd, remip, vpn_name, tunnelid)### t group by devid, vd, remip, vpn_
      name, tunnelid) tt group by vpn_name having sum(traffic_in+traffic_out)>0
      order by bandwidth desc
    )
    
```

Dataset Name	Description	Log Category
Top-SSL-VPN-Tunnel-Users-By-Bandwidth	Top SSL VPN tunnel users by bandwidth usage	event

```

select
  user_src,
  remip as remote_ip,
  from_dtime(
    min(s_time)
  ) as start_time,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  (
    select
      devid,
      vd,
      remip,
      user_src,
      tunnelid,
      min(s_time) as s_time,
      max(e_time) as e_time,
      (
        case when min(s_time)= max(e_time) then max(max_traffic_in)+ max(max_traffic_out)
        else max(max_traffic_in)- min(min_traffic_in)+ max(max_traffic_out)- min(min_traffic_out) end
      ) as bandwidth,
      (
        case when min(s_time)= max(e_time) then max(max_traffic_in) else max(max_traffic_in)- min(min_traffic_in) end
      ) as traffic_in,
      (
        case when min(s_time)= max(e_time) then max(max_traffic_out) else max(max_traffic_out)- min(min_traffic_out) end
      ) as traffic_out
    from
      ###(select devid, vd, remip, coalesce(nullifna(`user`), ipstr(`remip`)) as user_src, tunnelid, min(coalesce(dtime, 0)) as s_time, max(coalesce(dtime, 0)) as e_time, min(coalesce(sentbyte, 0)) as min_traffic_out, min(coalesce(rcvbyte, 0)) as min_traffic_in, max(coalesce(sentbyte, 0)) as max_traffic_out, max(coalesce(rcvbyte, 0)) as max_traffic_in from $log where $filter and subtype='vpn' and tunneltype='ssl-tunnel' and action in ('tunnel-stats', 'tunnel-down', 'tunnel-up') and coalesce(nullifna(`user`), ipstr(`remip`)) is not null and tunnelid is not null group by devid, vd, user_src, remip, tunnelid)### t group by devid, vd, user_src, remip, tunnelid) tt group by user_src, remote_ip having sum(bandwidth)>0 order by bandwidth desc
  )

```

Dataset Name	Description	Log Category
Top-Dial-Up-IPSEC-Tunnels-By-Bandwidth	Top dial up IPsec tunnels by bandwidth usage	event

```

select
  vpn_name,
  sum(traffic_out + traffic_in) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  (
    select
      devid,
      vd,
      tunnelid,
      remip,
      vpn_name,
      max(traffic_in) as traffic_in,
      max(traffic_out) as traffic_out
    from
      ###(select devid, vd, remip, vpn_trim(vpntunnel) as vpn_name, tunnelid, max
        (coalesce(sentbyte, 0)) as traffic_out, max(coalesce(rcvbyte, 0)) as
        traffic_in from $log where $filter and nullifna(vpntunnel) is not null and
        subtype='vpn' and tunneltype like 'ipsec%' and not (tunnelip is null or
        (tunnelip='0.0.0.0' and logver is null)) and action in ('tunnel-stats',
        'tunnel-down') and tunnelid is not null group by devid, vd, remip, vpn_name,
        tunnelid)### t group by devid, vd, remip, vpn_name, tunnelid) tt group by
        vpn_name having sum(traffic_out+traffic_in)>0 order by bandwidth desc
  )

```

Dataset Name	Description	Log Category
Top-Dial-Up-IPSEC-Users-By-Bandwidth	Top dial up IPsec users by bandwidth usage	event

```

select
  coalesce(
    xauthuser_agg,
    user_agg,
    ipstr(`remip`)
  ) as user_src,
  remip,
  from_dtime(
    min(s_time)
  ) as start_time,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  (
    select
      devid,
      vd,
      string_agg(distinct xauthuser_agg, ' ') as xauthuser_agg,
      string_agg(distinct user_agg, ' ') as user_agg,
      remip,
      tunnelid,
      min(s_time) as s_time,
      max(e_time) as e_time,
      (

```

```

        case when min(s_time)= max(e_time) then max(max_traffic_in)+ max(max_traffic_
            out) else max(max_traffic_in)- min(min_traffic_in)+ max(max_traffic_out)-
            min(min_traffic_out) end
    ) as bandwidth,
    (
        case when min(s_time)= max(e_time) then max(max_traffic_in) else max(max_
            traffic_in)- min(min_traffic_in) end
    ) as traffic_in,
    (
        case when min(s_time)= max(e_time) then max(max_traffic_out) else max(max_
            traffic_out)- min(min_traffic_out) end
    ) as traffic_out
from
###(select devid, vd, nullifna(`xauthuser`) as xauthuser_agg, nullifna(`user`) as
    user_agg, remip, tunnelid, min(coalesce(dtime, 0)) as s_time, max(coalesce
        (dtime, 0)) as e_time, min(coalesce(sentbyte, 0)) as min_traffic_out, min
        (coalesce(rcvdbyte, 0)) as min_traffic_in, max(coalesce(sentbyte, 0)) as max_
        traffic_out, max(coalesce(rcvdbyte, 0)) as max_traffic_in from $log where
        $filter and subtype='vpn' and tunneltype like 'ipsec%' and not (tunnelip is
        null or (tunnelip='0.0.0.0' and logver is null)) and action in ('tunnel-
        stats', 'tunnel-down', 'tunnel-up') and tunnelid is not null group by devid,
        vd, xauthuser_agg, user_agg, remip, tunnelid)### t group by devid, vd, remip,
        tunnelid) tt group by user_src, remip having sum(bandwidth)>0 order by
        bandwidth desc

```

Dataset Name	Description	Log Category
Top-Dial-Up-IPSEC-Users-By-Duration	Top dial up IPsec users by duration	event

```

select
    coalesce(
        xauthuser_agg,
        user_agg,
        ipstr(`remip`)
    ) as user_src,
from_dtime(
    min(s_time)
) as start_time,
sum(duration) as duration,
sum(bandwidth) as bandwidth,
sum(traffic_in) as traffic_in,
sum(traffic_out) as traffic_out
from
(
    select
        devid,
        vd,
        remip,
        string_agg(distinct xauthuser_agg, ' ') as xauthuser_agg,
        string_agg(distinct user_agg, ' ') as user_agg,
        tunnelid,
        min(s_time) as s_time,
        max(e_time) as e_time,
        (
            case when min(s_time)= max(e_time) then max(max_duration) else max(max_
                duration)- min(min_duration) end
        )

```

```

) as duration,
(
  case when min(s_time)= max(e_time) then max(max_traffic_in)+ max(max_traffic_out) else max(max_traffic_in)- min(min_traffic_in)+ max(max_traffic_out)- min(min_traffic_out) end
) as bandwidth,
(
  case when min(s_time)= max(e_time) then max(max_traffic_in) else max(max_traffic_in)- min(min_traffic_in) end
) as traffic_in,
(
  case when min(s_time)= max(e_time) then max(max_traffic_out) else max(max_traffic_out)- min(min_traffic_out) end
) as traffic_out
from
###(select devid, vd, remip, nullifna(`xauthuser`) as xauthuser_agg, nullifna(`user`) as user_agg, tunnelid, min(coalesce(dtime, 0)) as s_time, max(coalesce(dtime, 0)) as e_time, max(coalesce(duration,0)) as max_duration, min(coalesce(duration,0)) as min_duration, min(coalesce(sentbyte, 0)) as min_traffic_out, min(coalesce(rcvdbyte, 0)) as min_traffic_in, max(coalesce(sentbyte, 0)) as max_traffic_out, max(coalesce(rcvdbyte, 0)) as max_traffic_in from $log where $filter and subtype='vpn' and tunneltype like 'ipsec%' and not (tunnelip is null or (tunnelip='0.0.0.0' and logver is null)) and action in ('tunnel-stats', 'tunnel-down', 'tunnel-up') and tunnelid is not null group by devid, vd, remip, xauthuser_agg, user_agg, tunnelid order by tunnelid)### t group by devid, vd, remip, tunnelid) tt group by user_src having sum(bandwidth)>0 order by duration desc

```

Dataset Name	Description	Log Category
Top-SSL-VPN-Web-Mode-Users-By-Bandwidth	Top SSL VPN web mode users by bandwidth usage	event

```

select
  user_src,
  remip as remote_ip,
  from_dtime(
    min(s_time)
  ) as start_time,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
(
  select
    devid,
    vd,
    user_src,
    remip,
    tunnelid,
    min(s_time) as s_time,
    max(e_time) as e_time,
    (
      case when min(s_time)= max(e_time) then max(max_traffic_in)+ max(max_traffic_out) else max(max_traffic_in)- min(min_traffic_in)+ max(max_traffic_out)- min(min_traffic_out) end
    ) as bandwidth,

```

```

(
  case when min(s_time)= max(e_time) then max(max_traffic_in) else max(max_
    traffic_in)- min(min_traffic_in) end
) as traffic_in,
(
  case when min(s_time)= max(e_time) then max(max_traffic_out) else max(max_
    traffic_out)- min(min_traffic_out) end
) as traffic_out
from
###(select devid, vd, coalesce(nullifna(`user`), ipstr(`remip`)) as user_src,
  remip, tunnelid, min(coalesce(dtime, 0)) as s_time, max(coalesce(dtime, 0))
  as e_time, min(coalesce(sentbyte, 0)) as min_traffic_out, min(coalesce
  (rcvdbyte, 0)) as min_traffic_in, max(coalesce(sentbyte, 0)) as max_traffic_
  out, max(coalesce(rcvdbyte, 0)) as max_traffic_in from $log where $filter and
  subtype='vpn' and tunneltype='ssl-web' and action in ('tunnel-stats',
  'tunnel-down', 'tunnel-up') and coalesce(nullifna(`user`), ipstr(`remip`)) is
  not null and tunnelid is not null group by devid, vd, user_src, remip,
  tunnelid)### t group by devid, vd, user_src, remip, tunnelid) tt group by
  user_src, remote_ip having sum(bandwidth)>0 order by bandwidth desc

```

Dataset Name	Description	Log Category
Top-SSL-VPN-Users-By-Duration	Top SSL VPN users by duration	event

```

select
  user_src,
  tunneltype,
  sum(duration) as duration,
  sum(traffic_out + traffic_in) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
(
  select
    devid,
    vd,
    remip,
    user_src,
    tunneltype,
    tunnelid,
    max(duration) as duration,
    max(traffic_in) as traffic_in,
    max(traffic_out) as traffic_out
  from
    ###(select devid, vd, remip, coalesce(nullifna(`user`), ipstr(`remip`)) as user_
      src, tunnelid, tunneltype, max(coalesce(duration, 0)) as duration, max
      (coalesce(sentbyte, 0)) as traffic_out, max(coalesce(rcvdbyte, 0)) as
      traffic_in from $log where $filter and subtype='vpn' and tunneltype like
      'ssl%' and action in ('tunnel-stats', 'tunnel-down') and coalesce(nullifna
      (`user`), ipstr(`remip`)) is not null and tunnelid is not null group by
      devid, vd, remip, user_src, tunnelid, tunneltype)### t group by devid, vd,
      remip, user_src, tunnelid, tunneltype) tt group by user_src, tunneltype
      having sum(traffic_out+traffic_in)>0 order by duration desc

```

Dataset Name	Description	Log Category
vpn-Top-Dial-Up-VPN-Users-By-Duration	Top dial up VPN users by duration	event

```

select
  coalesce(
    xauthuser_agg,
    user_agg,
    ipstr(`remip`)
  ) as user_src,
  t_type as tunneltype,
  from_dtime(
    min(s_time)
  ) as start_time,
  sum(duration) as duration,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  (
    select
      devid,
      vd,
      remip,
      string_agg(distinct xauthuser_agg, ' ') as xauthuser_agg,
      string_agg(distinct user_agg, ' ') as user_agg,
      t_type,
      tunnelid,
      min(s_time) as s_time,
      max(e_time) as e_time,
      (
        case when min(s_time)= max(e_time) then max(max_duration) else max(max_
          duration)- min(min_duration) end
      ) as duration,
      (
        case when min(s_time)= max(e_time) then max(max_traffic_in)+ max(max_traffic_
          out) else max(max_traffic_in)- min(min_traffic_in)+ max(max_traffic_out)-
          min(min_traffic_out) end
      ) as bandwidth,
      (
        case when min(s_time)= max(e_time) then max(max_traffic_in) else max(max_
          traffic_in)- min(min_traffic_in) end
      ) as traffic_in,
      (
        case when min(s_time)= max(e_time) then max(max_traffic_out) else max(max_
          traffic_out)- min(min_traffic_out) end
      ) as traffic_out
    from
      ###(select devid, vd, remip, nullifna(`xauthuser`) as xauthuser_agg, nullifna
        (`user`) as user_agg, (case when tunneltype like 'ipsec%' then 'ipsec' else
          tunneltype end) as t_type, tunnelid, min(coalesce(dtime, 0)) as s_time, max
          (coalesce(dtime, 0)) as e_time, max(coalesce(duration,0)) as max_duration,
          min(coalesce(duration,0)) as min_duration, min(coalesce(sentbyte, 0)) as min_
          traffic_out, min(coalesce(rcvdbyte, 0)) as min_traffic_in, max(coalesce
          (sentbyte, 0)) as max_traffic_out, max(coalesce(rcvdbyte, 0)) as max_traffic_

```

```

in from $log where $filter and subtype='vpn' and (tunneltype like 'ssl%' or
(tunneltype like 'ipsec%' and not (tunnelip is null or (tunnelip='0.0.0.0'
and logver is null)))) and action in ('tunnel-stats', 'tunnel-down', 'tunnel-
up') and tunnelid is not null group by devid, vd, remip, xauthuser_agg, user_
agg, t_type, tunnelid)### t group by devid, vd, remip, t_type, tunnelid) tt
group by user_src, tunneltype having sum(bandwidth)>0 order by duration desc

```

Dataset Name	Description	Log Category
vpn-User-Login-history	VPN user login history	event

```

select
  hodex,
  sum(total_num) as total_num
from
  (
    select
      hodex,
      devid,
      vd,
      remip,
      tunnelid,
      sum(tunnelup) as total_num,
      max(traffic_in) as traffic_in,
      max(traffic_out) as traffic_out
    from
      ###(select $flex_timescale as hodex, devid, vd, remip, tunnelid, (case when
      action='tunnel-up' then 1 else 0 end) as tunnelup, max(coalesce(sentbyte, 0))
      as traffic_out, max(coalesce(rcvbyte, 0)) as traffic_in from $log where
      $filter and subtype='vpn' and (tunneltype like 'ipsec%' or tunneltype like
      'ssl%') and action in ('tunnel-up', 'tunnel-stats', 'tunnel-down') and
      tunnelid is not null group by hodex, action, devid, vd, remip, tunnelid)### t
      group by hodex, devid, vd, remip, tunnelid having max(tunnelup) > 0 and max
      (traffic_in)+max(traffic_out)>0 )tt group by hodex order by total_num desc

```

Dataset Name	Description	Log Category
vpn-Failed-Login-Attempts	VPN failed logins	event

```

select
  f_user,
  tunneltype,
  sum(total_num) as total_num
from
  ###(select coalesce(nullifna(`xauthuser`), `user`) as f_user, tunneltype, count(*) as
  total_num from $log where $filter and subtype='vpn' and (tunneltype='ipsec' or left
  (tunneltype, 3)='ssl') and action in ('ssl-login-fail', 'ipsec-login-fail') and
  coalesce(nullifna(`xauthuser`), nullifna(`user`)) is not null group by f_user,
  tunneltype)### t group by f_user, tunneltype order by total_num desc

```

Dataset Name	Description	Log Category
vpn-Authenticated-Logins	VPN authenticated logins	event

```

select

```

```

coalesce(
  xauthuser_agg,
  user_agg,
  ipstr(`remip`)
) as f_user,
t_type as tunneltype,
from_dtime(
  min(s_time)
) as start_time,
sum(total_num) as total_num,
sum(duration) as duration
from
(
  select
    string_agg(distinct xauthuser_agg, ' ') as xauthuser_agg,
    string_agg(distinct user_agg, ' ') as user_agg,
    t_type,
    devid,
    vd,
    remip,
    tunnelid,
    min(s_time) as s_time,
    max(e_time) as e_time,
    (
      case when min(s_time)= max(e_time) then max(max_duration) else max(max_
        duration)- min(min_duration) end
    ) as duration,
    (
      case when min(s_time)= max(e_time) then max(max_traffic_in)+ max(max_traffic_
        out) else max(max_traffic_in)- min(min_traffic_in)+ max(max_traffic_out)-
        min(min_traffic_out) end
    ) as bandwidth,
    (
      case when min(s_time)= max(e_time) then max(max_traffic_in) else max(max_
        traffic_in)- min(min_traffic_in) end
    ) as traffic_in,
    (
      case when min(s_time)= max(e_time) then max(max_traffic_out) else max(max_
        traffic_out)- min(min_traffic_out) end
    ) as traffic_out,
    sum(tunnelup) as total_num
  from
    ###(select nullifna(`xauthuser`) as xauthuser_agg, nullifna(`user`) as user_agg,
    devid, vd, remip, (case when tunneltype like 'ipsec%' then 'ipsec' else
    tunneltype end) as t_type, tunnelid, sum((case when action='tunnel-up' then 1
    else 0 end)) as tunnelup, min(coalesce(dtime, 0)) as s_time, max(coalesce
    (dtime, 0)) as e_time, max(coalesce(duration,0)) as max_duration, min
    (coalesce(duration,0)) as min_duration, min(coalesce(sentbyte, 0)) as min_
    traffic_out, min(coalesce(rcvdbyte, 0)) as min_traffic_in, max(coalesce
    (sentbyte, 0)) as max_traffic_out, max(coalesce(rcvdbyte, 0)) as max_traffic_
    in from $log where $filter and subtype='vpn' and (tunneltype like 'ipsec%' or
    tunneltype like 'ssl%') and action in ('tunnel-up', 'tunnel-stats', 'tunnel-
    down') and tunnelid is not null group by xauthuser_agg, user_agg, devid, vd,
    remip, t_type, tunnelid)### t group by t_type, devid, vd, remip, tunnelid
    having max(tunnelup) > 0) tt group by f_user, tunneltype having sum
    (bandwidth) > 0 order by total_num desc

```

Dataset Name	Description	Log Category
vpn-Traffic-Usage-Trend-VPN-Summary	VPN traffic usage trend	event

```

select
  hodex,
  sum(ssl_traffic_out + ssl_traffic_in) as ssl_bandwidth,
  sum(
    ipsec_traffic_out + ipsec_traffic_in
  ) as ipsec_bandwidth
from
  (
    select
      hodex,
      devid,
      vd,
      remip,
      tunnelid,
      (
        case when t_type like 'ssl%' then max(traffic_in) else 0 end
      ) as ssl_traffic_in,
      (
        case when t_type like 'ssl%' then max(traffic_out) else 0 end
      ) as ssl_traffic_out,
      (
        case when t_type like 'ipsec%' then max(traffic_in) else 0 end
      ) as ipsec_traffic_in,
      (
        case when t_type like 'ipsec%' then max(traffic_out) else 0 end
      ) as ipsec_traffic_out
    from
      ###(select $flex_timescale as hodex, devid, vd, remip, tunnelid, (case when
        tunneltype like 'ipsec%' then 'ipsec' else tunneltype end) as t_type, max
        (coalesce(sentbyte, 0)) as traffic_out, max(coalesce(rcvbyte, 0)) as
        traffic_in from $log where $filter and subtype='vpn' and (tunneltype like
        'ipsec%' or tunneltype like 'ssl%') and action in ('tunnel-stats', 'tunnel-
        down') and tunnelid is not null group by hodex, devid, vd, remip, t_type,
        tunnelid)### t group by hodex, devid, t_type, vd, remip, tunnelid ) tt group
        by hodex order by hodex
  )

```

Dataset Name	Description	Log Category
Top-S2S-IPSEC-Tunnels-By-Bandwidth-and-Availability	Top S2S IPsec tunnels by bandwidth usage and avail	event

```

select
  vpntunnel,
  tunneltype,
  sum(traffic_out) as traffic_out,
  sum(traffic_in) as traffic_in,
  sum(bandwidth) as bandwidth,
  sum(uptime) as uptime
from

```

```
(
  select
    vpntunnel,
    tunneltype,
    tunnelid,
    devid,
    vd,
    sum(sent_end - sent_beg) as traffic_out,
    sum(rcvd_end - rcvd_beg) as traffic_in,
    sum(
      sent_end - sent_beg + rcvd_end - rcvd_beg
    ) as bandwidth,
    sum(duration_end - duration_beg) as uptime
  from
    ###(select tunnelid, tunneltype, vpntunnel, devid, vd, min(coalesce(sentbyte, 0))
      as sent_beg, max(coalesce(sentbyte, 0)) as sent_end, min(coalesce(rcvdbyte,
      0)) as rcvd_beg, max(coalesce(rcvdbyte, 0)) as rcvd_end, min(coalesce
      (duration, 0)) as duration_beg, max(coalesce(duration, 0)) as duration_end
    from $log where $filter and subtype='vpn' and action='tunnel-stats' and
    tunneltype like 'ipsec%' and (tunnelip is null or (tunnelip='0.0.0.0' and
    logver is null)) and nullifna(`user`) is null and tunnelid is not null group
    by tunnelid, tunneltype, vpntunnel, devid, vd order by tunnelid)### t group
    by vpntunnel, tunneltype, tunnelid, devid, vd order by bandwidth desc) t
  group by vpntunnel, tunneltype order by bandwidth desc
```

Dataset Name	Description	Log Category
Top-Dialup-IPSEC-By-Bandwidth-and-Availability	Top dialup IPsec users by bandwidth usage and avail	event

```
select
  user_src,
  remip,
  sum(traffic_out) as traffic_out,
  sum(traffic_in) as traffic_in,
  sum(bandwidth) as bandwidth,
  sum(uptime) as uptime
from
  (
    select
      user_src,
      remip,
      tunnelid,
      devid,
      vd,
      sum(sent_end - sent_beg) as traffic_out,
      sum(rcvd_end - rcvd_beg) as traffic_in,
      sum(
        sent_end - sent_beg + rcvd_end - rcvd_beg
      ) as bandwidth,
      sum(duration_end - duration_beg) as uptime
    from
      ###(select tunnelid, coalesce(nullifna(`xauthuser`), nullifna(`user`)), ipstr
        (`remip`)) as user_src, remip, devid, vd, min(coalesce(sentbyte, 0)) as sent_
        beg, max(coalesce(sentbyte, 0)) as sent_end, min(coalesce(rcvdbyte, 0)) as
        rcvd_beg, max(coalesce(rcvdbyte, 0)) as rcvd_end, min(coalesce(duration, 0))
        as duration_beg, max(coalesce(duration, 0)) as duration_end from $log where
```

```
$filter and subtype='vpn' and action='tunnel-stats' and tunneltype like
'ipsec%' and not (tunnelip is null or (tunnelip='0.0.0.0' and logver is
null)) and tunnelid is not null group by tunnelid, user_src, remip, devid, vd
order by tunnelid)### t group by user_src, remip, tunnelid, devid, vd order
by bandwidth desc) t group by user_src, remip order by bandwidth desc
```

Dataset Name	Description	Log Category
Top-SSL-Tunnel-Mode-By-Bandwidth-and-Availability	Top SSL tunnel users by bandwidth usage and avail	event

```
select
  user_src,
  remote_ip,
  sum(traffic_out) as traffic_out,
  sum(traffic_in) as traffic_in,
  sum(bandwidth) as bandwidth,
  sum(uptime) as uptime
from
  (
    select
      user_src,
      remip as remote_ip,
      tunnelid,
      devid,
      vd,
      sum(sent_end - sent_beg) as traffic_out,
      sum(rcvd_end - rcvd_beg) as traffic_in,
      sum(
        sent_end - sent_beg + rcvd_end - rcvd_beg
      ) as bandwidth,
      sum(duration_end - duration_beg) as uptime
    from
      ###(select tunnelid, coalesce(nullifna(`user`), ipstr(`remip`)) as user_src,
      remip, devid, vd, min(coalesce(sentbyte, 0)) as sent_beg, max(coalesce
      (sentbyte, 0)) as sent_end, min(coalesce(rcvdbyte, 0)) as rcvd_beg, max
      (coalesce(rcvdbyte, 0)) as rcvd_end, min(coalesce(duration, 0)) as duration_
      beg, max(coalesce(duration, 0)) as duration_end from $log where $filter and
      subtype='vpn' and action='tunnel-stats' and tunneltype in ('ssl-tunnel',
      'ssl') and coalesce(nullifna(`user`), ipstr(`remip`)) is not null and
      tunnelid is not null group by tunnelid, user_src, remip, devid, vd order by
      tunnelid)### t group by user_src, remote_ip, tunnelid, devid, vd order by
      bandwidth desc) t group by user_src, remote_ip order by bandwidth desc
```

Dataset Name	Description	Log Category
Top-SSL-Web-Mode-By-Bandwidth-and-Availability	Top SSL web users by bandwidth usage and avail	event

```
select
  user_src,
  remote_ip,
  sum(traffic_out) as traffic_out,
  sum(traffic_in) as traffic_in,
  sum(bandwidth) as bandwidth,
```

```

sum(uptime) as uptime
from
(
select
user_src,
remip as remote_ip,
tunnelid,
devid,
vd,
sum(sent_end - sent_beg) as traffic_out,
sum(rcvd_end - rcvd_beg) as traffic_in,
sum(
sent_end - sent_beg + rcvd_end - rcvd_beg
) as bandwidth,
sum(duration_end - duration_beg) as uptime
from
###(select tunnelid, coalesce(nullifna(`user`), ipstr(`remip`)) as user_src,
remip, devid, vd, min(coalesce(sentbyte, 0)) as sent_beg, max(coalesce
(sentbyte, 0)) as sent_end, min(coalesce(rcvdbyte, 0)) as rcvd_beg, max
(coalesce(rcvdbyte, 0)) as rcvd_end, min(coalesce(duration, 0)) as duration_
beg, max(coalesce(duration, 0)) as duration_end from $log where $filter and
subtype='vpn' and action='tunnel-stats' and tunneltype='ssl-web' and coalesce
(nullifna(`user`), ipstr(`remip`)) is not null and tunnelid is not null group
by tunnelid, user_src, remip, devid, vd order by tunnelid)### t group by
user_src, remote_ip, tunnelid, devid, vd having sum(sent_end-sent_beg+rcvd_
end-rcvd_beg)>0 order by bandwidth desc) t group by user_src, remote_ip order
by bandwidth desc

```

Dataset Name	Description	Log Category
Admin-Login-Summary	Event admin login summary	event

```

select
f_user,
ui,
sum(login) as total_num,
sum(login_duration) as total_duration,
sum(config_change) as total_change
from
(
select
`user` as f_user,
ui,
(
case when logid_to_int(logid)= 32001 then 1 else 0 end
) as login,
(
case when logid_to_int(logid)= 32003 then duration else 0 end
) as login_duration,
(
case when logid_to_int(logid)= 32003
and state is not null then 1 else 0 end
) as config_change
from
$log
where
$filter

```

```

        and nullifna(`user`) is not null
        and logid_to_int(logid) in (32001, 32003)
    ) t
group by
    f_user,
    ui
having
    sum(login)+ sum(config_change)> 0
order by
    total_num desc
    
```

Dataset Name	Description	Log Category
Admin-Login-Summary-By-Date	Event admin login summary by date	event

```

select
    dom,
    sum(login) as total_num,
    sum(config_change) as total_change
from
    (
        select
            $flex_timescale as dom,
            (
                case when logid_to_int(logid)= 32001 then 1 else 0 end
            ) as login,
            (
                case when logid_to_int(logid)= 32003
                    and state is not null then 1 else 0 end
            ) as config_change
        from
            $log
        where
            $filter
            and logid_to_int(logid) in (32001, 32003)
    ) t
group by
    dom
having
    sum(login)+ sum(config_change)> 0
order by
    dom
    
```

Dataset Name	Description	Log Category
Admin-Failed-Login-Summary	Event admin failed login summary	event

```

select
    `user` as f_user,
    ui,
    count(status) as total_failed
from
    $log
where
    $filter
    
```

```

    and nullifna(`user`) is not null
    and logid_to_int(logid) = 32002
group by
    ui,
    f_user
order by
    total_failed desc

```

Dataset Name	Description	Log Category
System-Summary-By-Severity	Event system summary by severity	event

```

select
  (
    case when level in ('critical', 'alert', 'emergency') then 'Critical' when level =
      'error' then 'High' when level = 'warning' then 'Medium' when level = 'notice'
      then 'Low' else 'Info' end
  ) as severity,
  count(*) as total_num
from
  $log
where
  $filter
  and subtype = 'system'
group by
  severity
order by
  total_num desc

```

Dataset Name	Description	Log Category
System-Summary-By-Date	Event system summary by date	event

```

select
  $flex_timescale as dom,
  sum(
    case when level in ('critical', 'alert', 'emergency') then 1 else 0 end
  ) as critical,
  sum(
    case when level = 'error' then 1 else 0 end
  ) as high,
  sum(
    case when level = 'warning' then 1 else 0 end
  ) as medium
from
  $log
where
  $filter
  and subtype = 'system'
group by
  dom
order by
  dom

```

Dataset Name	Description	Log Category
Important-System-Summary-By-Date	Event system summary by date	event

```

select
  $flex_timescale as dom,
  sum(
    case when level in ('critical', 'alert', 'emergency') then 1 else 0 end
  ) as critical,
  sum(
    case when level = 'error' then 1 else 0 end
  ) as high,
  sum(
    case when level = 'warning' then 1 else 0 end
  ) as medium
from
  $log
where
  $filter
  and subtype = 'system'
group by
  dom
order by
  dom

```

Dataset Name	Description	Log Category
System-Critical-Severity-Events	Event system critical severity events	event

```

select
  msg_desc as msg,
  severity,
  sum(count) as counts
from
  ###(select coalesce(nullifna(logdesc), msg) as msg_desc, (case when level in
    ('critical', 'alert', 'emergency') then 'Critical' when level='error' then 'High'
    when level='warning' then 'Medium' when level='notice' then 'Low' else 'Info' end)
  as severity, count(*) as count from $log where $filter and subtype='system' group
  by msg_desc, severity order by count desc)### t where severity='Critical' group by
  msg, severity order by counts desc

```

Dataset Name	Description	Log Category
System-High-Severity-Events	Event system high severity events	event

```

select
  msg_desc as msg,
  severity,
  sum(count) as counts
from
  ###(select coalesce(nullifna(logdesc), msg) as msg_desc, (case when level in
    ('critical', 'alert', 'emergency') then 'Critical' when level='error' then 'High'

```

```
when level='warning' then 'Medium' when level='notice' then 'Low' else 'Info' end)
as severity, count(*) as count from $log where $filter and subtype='system' group
by msg_desc, severity order by count desc)### t where severity='High' group by msg,
severity order by counts desc
```

Dataset Name	Description	Log Category
System-Medium-Severity-Events	Event system medium severity events	event

```
select
  msg_desc as msg,
  severity,
  sum(count) as counts
from
  ###(select coalesce(nullifna(logdesc), msg) as msg_desc, (case when level in
    ('critical', 'alert', 'emergency') then 'Critical' when level='error' then 'High'
    when level='warning' then 'Medium' when level='notice' then 'Low' else 'Info' end)
    as severity, count(*) as count from $log where $filter and subtype='system' group
    by msg_desc, severity order by count desc)### t where severity='Medium' group by
    msg, severity order by counts desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-Traffic-Summary	UTM drilldown traffic summary	traffic

```
select
  srcip,
  srcname
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
    src, srcip, srcname from $log where $filter-exclude-var and logid_to_int(logid) not
    in (4, 7, 14) group by user_src, srcip, srcname)### t where $filter-var-only group
    by srcip, srcname
```

Dataset Name	Description	Log Category
utm-drilldown-Top-User-Destination	UTM drilldown top user destination	traffic

```
select
  appid,
  app,
  dstip,
  sum(sessions) as sessions,
  sum(bandwidth) as bandwidth
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
    src, appid, app, dstip, count(*) as sessions, sum(coalesce(sentbyte, 0)+coalesce
    (rcvbyte, 0)) as bandwidth from $log where $filter-exclude-var and logid_to_int
    (logid) not in (4, 7, 14) and dstip is not null and nullifna(app) is not null group
    by user_src, appid, app, dstip having sum(coalesce(sentbyte, 0)+coalesce(rcvbyte,
    0))>0 order by bandwidth desc)### t where $filter-var-only group by appid, app,
    dstip order by bandwidth desc
```

Dataset Name	Description	Log Category
utm-drilldown-Email-Senders-Summary	UTM drilldown email senders summary	traffic

```
select
  sum(requests) as requests,
  sum(bandwidth) as bandwidth
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
  src, sender, count(*) as requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))
  as bandwidth from $log where $filter-exclude-var and logid_to_int(logid) not in (4,
  7, 14) and service in ('smtp', 'SMTP', '25/tcp', '587/tcp', 'smtps', 'SMTPS',
  '465/tcp') group by user_src, sender order by requests desc)### t where $filter-
  var-only
```

Dataset Name	Description	Log Category
utm-drilldown-Email-Receivers-Summary	UTM drilldown email receivers summary	traffic

```
select
  sum(requests) as requests,
  sum(bandwidth) as bandwidth
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
  src, recipient, count(*) as requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte,
  0)) as bandwidth from $log where $filter-exclude-var and logid_to_int(logid) not in
  (4, 7, 14) and recipient is not null and service in ('pop3', 'POP3', '110/tcp',
  'imap', 'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S',
  '995/tcp') group by user_src, recipient order by requests desc)### t where $filter-
  var-only
```

Dataset Name	Description	Log Category
utm-drilldown-Top-Email-Recipients-By-Bandwidth	UTM drilldown top email recipients	traffic

```
select
  recipient,
  sum(bandwidth) as bandwidth
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
  src, recipient, count(*) as requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte,
  0)) as bandwidth from $log where $filter-exclude-var and logid_to_int(logid) not in
  (4, 7, 14) and service in ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP', '143/tcp',
  'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S', '995/tcp') group by user_src,
  recipient order by requests desc)### t where $filter-var-only and recipient is not
  null group by recipient having sum(bandwidth)>0 order by bandwidth desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-Email-Senders-By-Bandwidth	UTM drilldown top email senders	traffic

```
select
  sender,
  sum(bandwidth) as bandwidth
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
  src, sender, count(*) as requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))
  as bandwidth from $log where $filter-exclude-var and logid_to_int(logid) not in (4,
  7, 14) and service in ('smtp', 'SMTP', '25/tcp', '587/tcp', 'smtps', 'SMTPS',
  '465/tcp') group by user_src, sender order by requests desc)### t where $filter-
  var-only and sender is not null group by sender having sum(bandwidth)>0 order by
  bandwidth desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-Allowed-Web-sites-By-Bandwidth	UTM drilldown top allowed web sites by bandwidth	traffic

```
select
  appid,
  hostname,
  sum(bandwidth) as bandwidth
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
  src, appid, hostname, (case when utmaction='blocked' then 1 else 0 end) as blocked,
  sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic
  where $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) and
  ((logver>=52 and countweb>0) or ((logver is null) and utmevent in ('webfilter',
  'banned-word', 'web-content', 'command-block', 'script-filter'))) and hostname is
  not null group by user_src, appid, hostname, blocked order by bandwidth desc)### t
  where $filter-var-only and blocked=0 group by appid, hostname order by bandwidth
  desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-Blocked-Web-sites-By-Request	UTM drilldown top blocked web sites by request	traffic

```
select
  appid,
  hostname,
  sum(requests) as requests
from
  (
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
  user_src, appid, hostname, (case when utmaction='blocked' then 1 else 0 end) as
  blocked, count(*) as requests from $log-traffic where $filter-exclude-var and
  logid_to_int(logid) not in (4, 7, 14) and utmevent in ('webfilter', 'banned-
  word', 'web-content', 'command-block', 'script-filter') and hostname is not null
```

```
group by user_src, appid, hostname, blocked order by requests desc)### union all
###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, 0 as appid,
hostname, (case when action='blocked' then 1 else 0 end) as blocked, count(*) as
requests from $log-webfilter where $filter-exclude-var and (eventtype is null or
logver>=52) and hostname is not null group by user_src, appid, hostname, blocked
order by requests desc)###) t where $filter-var-only and blocked=1 group by
appid, hostname order by requests desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-Virus-By-Name	UTM drilldown top virus	traffic

```
select
  virus,
  sum(totalnum) as totalnum
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
user_src, virus, count(*) as totalnum from $log-traffic where $filter-exclude-
var and logid_to_int(logid) not in (4, 7, 14) and utmevent is not null and virus
is not null group by user_src, virus order by totalnum desc)### union all ###
(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, virus, count(*)
as totalnum from $log-virus where $filter-exclude-var and (eventtype is null or
logver>=52) and nullifna(virus) is not null group by user_src, virus order by
totalnum desc)###) t where $filter-var-only group by virus order by totalnum
desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-Attacks	UTM drilldown top attacks by name	attack

```
select
  attack,
  sum(attack_count) as attack_count
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, attack, count(*) as
attack_count from $log where $filter-exclude-var and nullifna(attack) is not null
group by user_src, attack order by attack_count desc)### t where $filter-var-only
group by attack order by attack_count desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-Vulnerability	UTM drilldown top vulnerability by name	netscan

```
select
  vuln,
  sum(totalnum) as totalnum
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, vuln, count(*) as
totalnum from $log where $filter-exclude-var and action='vuln-detection' and vuln
is not null group by user_src, vuln order by totalnum desc)### t where $filter-var-
only group by vuln order by totalnum desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-App-By-Bandwidth	UTM drilldown top applications by bandwidth usage	traffic

```
select
  appid,
  app,
  sum(bandwidth) as bandwidth
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_src, appid, app, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth, count(*) as sessions from $log where $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) and nullifna(app) is not null group by user_src, appid, app order by sessions desc)### t where $filter-var-only group by appid, app having sum (bandwidth)>0 order by bandwidth desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-App-By-Sessions	UTM drilldown top applications by session count	traffic

```
select
  appid,
  app,
  sum(sessions) as sessions
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_src, appid, app, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth, count(*) as sessions from $log where $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) and nullifna(app) is not null group by user_src, appid, app order by sessions desc)### t where $filter-var-only group by appid, app order by sessions desc
```

Dataset Name	Description	Log Category
Top5-Users-By-Bandwidth	UTM drilldown top users by bandwidth usage	traffic

```
select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as dldn_user,
  count(*) as session,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out,
  sum(
    coalesce(rcvdbyte, 0)
  ) as traffic_in
```

```

from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  dldn_user
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
bandwidth-app-Top-App-By-Bandwidth-Sessions	Top applications by bandwidth usage	traffic

```

select
  app_group_name(app) as app_group,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvdbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out,
  count(*) as sessions
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(app) is not null
group by
  app_group
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
bandwidth-app-Category-By-Bandwidth	Application risk application usage by category	traffic

```

select
  appcat,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )

```

```

    ) as bandwidth
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and nullifna(appcat) is not null
group by
    appcat
order by
    bandwidth desc
    
```

Dataset Name	Description	Log Category
bandwidth-app-Top-Users-By-Bandwidth-Sessions	Bandwidth application top users by bandwidth usage	traffic

```

select
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
    ) as bandwidth,
    sum(
        coalesce(rcvbyte, 0)
    ) as traffic_in,
    sum(
        coalesce(sentbyte, 0)
    ) as traffic_out,
    count(*) as sessions
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    user_src
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
    )> 0
order by
    bandwidth desc
    
```

Dataset Name	Description	Log Category
bandwidth-app-Traffic-By-Active-User-Number	Bandwidth application traffic by active user number	traffic

```

select
    hodex,
    count(
    
```

```

        distinct(user_src)
    ) as total_user
from
    ###(select $flex_timescale as hodex, coalesce(nullifna(`user`), nullifna(`unauthuser`)),
        ipstr(`srcip`)) as user_src from $log where $filter and logid_to_int(logid) not in
        (4, 7, 14) group by hodex, user_src order by hodex)### t group by hodex order by
        hodex

```

Dataset Name	Description	Log Category
bandwidth-app-Top-Dest-By-Bandwidth-Sessions	Bandwidth application top dest by bandwidth usage sessions	traffic

```

select
    coalesce(
        nullifna(
            root_domain(hostname)
        ),
        ipstr(`dstip`)
    ) as domain,
    sum(
        coalesce(sentbyte, 0) + coalesce(rcvbyte, 0)
    ) as bandwidth,
    sum(
        coalesce(rcvbyte, 0)
    ) as traffic_in,
    sum(
        coalesce(sentbyte, 0)
    ) as traffic_out,
    count(*) as sessions
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    domain
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
bandwidth-app-Top-Policies-By-Bandwidth-Sessions	Top policies by bandwidth and sessions	traffic

```

select
    coalesce(
        cast(poluid as text),
        cast(policyid as text)
    ) as polid,
    sum(
        coalesce(rcvbyte, 0) + coalesce(sentbyte, 0)
    ) as bandwidth,
    sum(
        coalesce(rcvbyte, 0)
    )

```

```

    ) as traffic_in,
    sum(
        coalesce(sentbyte, 0)
    ) as traffic_out,
    count(*) as sessions
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    polid
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
bandwidth-app-Traffic-Statistics	Bandwidth application traffic statistics	traffic

```

drop
    table if exists stats_temp; create temporary table stats_temp(
        total_sessions varchar(255),
        total_bandwidth varchar(255),
        ave_session varchar(255),
        ave_bandwidth varchar(255),
        active_date varchar(255),
        total_users varchar(255),
        total_app varchar(255),
        total_dest varchar(255)
    ); insert into stats_temp (
        total_sessions, total_bandwidth,
        ave_session, ave_bandwidth
    )
select
    format_numeric_no_decimal(
        sum(sessions)
    ) as total_sessions,
    bandwidth_unit(
        sum(bandwidth)
    ) as total_bandwidth,
    format_numeric_no_decimal(
        cast(
            sum(sessions)/ $days_num as decimal(18, 0)
        )
    ) as ave_session,
    bandwidth_unit(
        cast(
            sum(bandwidth)/ $days_num as decimal(18, 0)
        )
    ) as ave_bandwidth
from
    ###(select count(*) as sessions, sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0)) as
        bandwidth from $log where $filter and logid_to_int(logid) not in (4, 7, 14))### t;
    update stats_temp set active_date=t1.dom from (select dom, sum(sessions) as
        sessions from ###(select $DAY_OF_MONTH as dom, count(*) as sessions from $log where
        $filter and logid_to_int(logid) not in (4, 7, 14) group by dom order by sessions)

```

```

### t group by dom order by sessions desc limit 1) as t1; update stats_temp set
total_users=t2.totalnum from (select format_numeric_no_decimal(count(distinct(user_
src))) as totalnum from ###(select distinct(coalesce(nullifna(`user`), nullifna
(`unauthuser`), ipstr(`srcip`))) as user_src from $log where $filter and logid_to_
int(logid) not in (4, 7, 14))### t ) as t2; update stats_temp set total_
app=t3.totalnum from (select format_numeric_no_decimal(count(distinct(app_group_
name(app)))) as totalnum from ###(select distinct(app_group_name(app)) as app from
$log where $filter and logid_to_int(logid) not in (4, 7, 14))### t ) as t3; update
stats_temp set total_dest=t4.totalnum from (select format_numeric_no_decimal(count
(distinct(dstip))) as totalnum from ###(select distinct(dstip) as dstip from $log
where $filter and logid_to_int(logid) not in (4, 7, 14))### t ) as t4; select
'Total Sessions' as summary, total_sessions as stats from stats_temp union all
select 'Total Bytes Transferred' as summary, total_bandwidth as stats from stats_
temp union all select 'Most Active Date By Sessions' as summary, active_date as
stats from stats_temp union all select 'Total Users' as summary, total_users as
stats from stats_temp union all select 'Total Applications' as summary, total_app
as stats from stats_temp union all select 'Total Destinations' as summary, total_
dest as stats from stats_temp union all select 'Average Sessions Per Day' as
summary, ave_session as stats from stats_temp union all select 'Average Bytes Per
Day' as summary, ave_bandwidth as stats from stats_temp

```

Dataset Name	Description	Log Category
Score-Summary-For-All-Users-Devices	Reputation score summary for all users devices	traffic

```

select
  $flex_timescale as hodex,
  sum(crscore % 65536) as scores
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and crscore is not null
group by
  hodex
having
  sum(crscore % 65536) > 0
order by
  hodex

```

Dataset Name	Description	Log Category
Number-Of-Incidents-For-All-Users-Devices	Reputation number of incidents for all users devices	traffic

```

select
  $flex_timescale as hodex,
  sum(crscore % 65536) as scores,
  count(*) as totalnum
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)

```

```

    and crscore is not null
group by
    hodex
having
    sum(crscore % 65536) > 0
order by
    hodex

```

Dataset Name	Description	Log Category
Top-Users-By-Reputation-Scores	Reputation top users by scores	traffic

```

select
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    sum(crscore % 65536) as scores
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and crscore is not null
group by
    user_src
having
    sum(crscore % 65536) > 0
order by
    scores desc

```

Dataset Name	Description	Log Category
Top-Devices-By-Reputation-Scores	Reputation top devices by scores	traffic

```

select
    devtype,
    coalesce(
        nullifna(`srcname`),
        nullifna(`srcmac`),
        ipstr(`srcip`)
    ) as dev_src,
    sum(crscore % 65536) as scores
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and crscore is not null
group by
    devtype,
    dev_src
having
    sum(crscore % 65536) > 0

```

```
order by
  scores desc
```

Dataset Name	Description	Log Category
Top-Users-With-Increased-Scores	Reputation top users with increased scores	traffic

```
drop
  table if exists prd1_usr_tbl;
drop
  table if exists prd2_usr_tbl; create temporary table prd1_usr_tbl as ###(select
  coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as f_user, sum
  (crscore%65536) as sum_rp_score from $log where $pre_period $filter and logid_to_
  int(logid) not in (4, 7, 14) and crscore is not null group by f_user having sum
  (crscore%65536)>0 order by sum_rp_score desc)###; create temporary table prd2_usr_
  tbl as ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
  (`srcip`)) as f_user, sum(crscore%65536) as sum_rp_score from $log where $filter
  and logid_to_int(logid) not in (4, 7, 14) and crscore is not null group by f_user
  having sum(crscore%65536)>0 order by sum_rp_score desc)###; select t1.f_user, sum
  (t1.sum_rp_score) as t1_sum_score, sum(t2.sum_rp_score) as t2_sum_score, (sum
  (t2.sum_rp_score)-sum(t1.sum_rp_score)) as delta from prd1_usr_tbl as t1 inner join
  prd2_usr_tbl as t2 on t1.f_user=t2.f_user where t2.sum_rp_score > t1.sum_rp_score
  group by t1.f_user order by delta desc
```

Dataset Name	Description	Log Category
Top-Devices-With-Increased-Scores	Reputation top devices with increased scores	traffic

```
drop
  table if exists prd1_dev_tbl;
drop
  table if exists prd2_dev_tbl; create temporary table prd1_dev_tbl as ###(select
  coalesce(nullifna(`srcname`), nullifna(`srcmac`), ipstr(`srcip`)) as f_device,
  devtype, sum(crscore%65536) as sum_rp_score from $log where $pre_period $filter and
  logid_to_int(logid) not in (4, 7, 14) and crscore is not null group by f_device,
  devtype having sum(crscore%65536)>0 order by sum_rp_score desc)###; create
  temporary table prd2_dev_tbl as ###(select coalesce(nullifna(`srcname`), nullifna
  (`srcmac`), ipstr(`srcip`)) as f_device, devtype, sum(crscore%65536) as sum_rp_
  score from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and crscore
  is not null group by f_device, devtype having sum(crscore%65536)>0 order by sum_rp_
  score desc)###; select t1.f_device, t1.devtype, sum(t1.sum_rp_score) as t1_sum_
  score, sum(t2.sum_rp_score) as t2_sum_score, (sum(t2.sum_rp_score)-sum(t1.sum_rp_
  score)) as delta from prd1_dev_tbl as t1 inner join prd2_dev_tbl as t2 on t1.f_
  device=t2.f_device and t1.devtype=t2.devtype where t2.sum_rp_score > t1.sum_rp_
  score group by t1.f_device, t1.devtype order by delta desc
```

Dataset Name	Description	Log Category
Attacks-By-Severity	Threat attacks by severity	attack

```
select
  (
    case when severity = 'critical' then 'Critical' when severity = 'high' then 'High'
    when severity = 'medium' then 'Medium' when severity = 'low' then 'Low' when
    severity = 'info' then 'Info' end
```

```

    ) as severity,
    count(*) as totalnum
from
    $log
where
    $filter
group by
    severity
order by
    totalnum desc

```

Dataset Name	Description	Log Category
Top-Attacks-Detected	Threat top attacks detected	attack

```

select
    attack,
    cve,
    severity,
    sum(attack_count) as attack_count
from
    ###(select attack, t1.severity, cve, (case when t1.severity = 'critical' then 1 when
    t1.severity = 'high' then 2 when t1.severity = 'medium' then 3 when t1.severity =
    'low' then 4 else 5 end) as severity_level, count(*) as attack_count from $log t1
    left join ips_mdata t2 on t1.attack=t2.name where $filter and nullifna(attack) is
    not null group by attack, t1.severity, severity_level, cve order by severity_level,
    attack_count desc)### t group by attack, severity, severity_level, cve order by
    severity_level, attack_count desc

```

Dataset Name	Description	Log Category
Top-Attacks-Blocked	Threat top attacks blocked	attack

```

select
    attack,
    count(*) as attack_count
from
    $log
where
    $filter
    and nullifna(attack) is not null
    and action in (
        'deny', 'blocked', 'reset', 'dropped'
    )
group by
    attack
order by
    attack_count desc

```

Dataset Name	Description	Log Category
Top-Virus-Source	Threat top virus source	traffic

```

select

```

```

srcip,
hostname,
sum(totalnum) as totalnum
from
(
  ###(select srcip, hostname, count(*) as totalnum from $log-traffic where $filter and
  logid_to_int(logid) not in (4, 7, 14) and utmevent is not null and virus is not
  null group by srcip, hostname order by totalnum desc)### union all ###(select
  srcip , ipstr(`dstip`) as hostname, count(*) as totalnum from $log-virus where
  $filter and (eventtype is null or logver>=52) and nullifna(virus) is not null
  group by srcip, hostname order by totalnum desc)###) t group by srcip, hostname
  order by totalnum desc

```

Dataset Name	Description	Log Category
Intrusion-in-Last-7-Days	Threat intrusion timeline	attack

```

select
  $flex_timescale as hodex,
  count(*) as totalnum
from
  $log
where
  $filter
group by
  hodex
order by
  hodex

```

Dataset Name	Description	Log Category
Virus-Time-Line	Threat virus timeline	virus

```

select
  hodex,
  sum(totalnum) as totalnum
from
(
  ###(select $flex_timescale as hodex, count(*) as totalnum from $log-traffic where
  $filter and logid_to_int(logid) not in (4, 7, 14) and utmevent is not null and
  virus is not null group by hodex order by hodex desc)### union all ###(select
  $flex_timescale as hodex, count(*) as totalnum from $log-virus where $filter and
  (eventtype is null or logver>=52) and nullifna(virus) is not null group by hodex
  order by hodex desc)###) t group by hodex order by hodex desc

```

Dataset Name	Description	Log Category
Top-Spyware-Victims	Threat top spyware victims	virus

```

select
  user_src,
  sum(totalnum) as totalnum
from

```

```
###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, virus, count(*) as
totalnum from $log where $filter group by user_src, virus order by totalnum desc)
### t where virus like 'Riskware%' group by user_src order by totalnum desc
```

Dataset Name	Description	Log Category
Top-Spyware-by-Name	Threat top spyware by name	virus

```
select
virus,
sum(totalnum) as totalnum
from
###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, virus, count(*) as
totalnum from $log where $filter group by user_src, virus order by totalnum desc)
### t where virus like 'Riskware%' group by virus order by totalnum desc
```

Dataset Name	Description	Log Category
Top-Spyware-Source	Threat top spyware source	traffic

```
select
srcip,
hostname,
count(*) as totalnum
from
$log
where
$filter
and logid_to_int(logid) not in (4, 7, 14)
and virus like 'Riskware%'
group by
srcip,
hostname
order by
totalnum desc
```

Dataset Name	Description	Log Category
Spyware-Time-Line	Threat spyware timeline	virus

```
select
$flex_timescale as hodex,
count(*) as totalnum
from
$log
where
$filter
and virus like 'Riskware%'
group by
hodex
order by
hodex desc
```

Dataset Name	Description	Log Category
Top-Adware-Victims	Threat top adware victims	virus

```
select
  user_src,
  sum(totalnum) as totalnum
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, virus, count(*) as
  totalnum from $log where $filter group by user_src, virus order by totalnum desc)
  ### t where virus like 'Adware%' group by user_src order by totalnum desc
```

Dataset Name	Description	Log Category
Top-Adware-by-Name	Threat top adware by name	virus

```
select
  virus,
  sum(totalnum) as totalnum
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, virus, count(*) as
  totalnum from $log where $filter group by user_src, virus order by totalnum desc)
  ### t where virus like 'Adware%' group by virus order by totalnum desc
```

Dataset Name	Description	Log Category
Top-Adware-Source	Threat top adware source	traffic

```
select
  srcip,
  hostname,
  count(*) as totalnum
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and virus like 'Adware%'
group by
  srcip,
  hostname
order by
  totalnum desc
```

Dataset Name	Description	Log Category
Adware-Time-Line	Threat adware timeline	virus

```
select
  $flex_timescale as hodex,
  count(*) as totalnum
```

```

from
  $log
where
  $filter
  and virus like 'Adware%'
group by
  hodex
order by
  hodex desc
    
```

Dataset Name	Description	Log Category
Intrusions-Timeline-By-Severity	Threat intrusions timeline by severity	attack

```

select
  $flex_timescale as timescale,
  sum(
    case when severity = 'critical' then 1 else 0 end
  ) as critical,
  sum(
    case when severity = 'high' then 1 else 0 end
  ) as high,
  sum(
    case when severity = 'medium' then 1 else 0 end
  ) as medium,
  sum(
    case when severity = 'notice' then 1 else 0 end
  ) as low,
  sum(
    case when severity = 'info'
    or severity = 'debug' then 1 else 0 end
  ) as info
from
  $log
where
  $filter
group by
  timescale
order by
  timescale
    
```

Dataset Name	Description	Log Category
Important-Intrusions-Timeline-By-Severity	Threat intrusions timeline by severity	attack

```

select
  $flex_timescale as timescale,
  sum(
    case when severity = 'critical' then 1 else 0 end
  ) as critical,
  sum(
    case when severity = 'high' then 1 else 0 end
  ) as high,
  sum(
    
```

```

        case when severity = 'medium' then 1 else 0 end
    ) as medium,
    sum(
        case when severity = 'notice' then 1 else 0 end
    ) as low,
    sum(
        case when severity = 'info'
        or severity = 'debug' then 1 else 0 end
    ) as info
from
    $log
where
    $filter
group by
    timescale
order by
    timescale

```

Dataset Name	Description	Log Category
Top-Intrusions-By-Types	Threat top intrusions by types	attack

```

select
    vuln_type,
    count(*) as totalnum
from
    $log t1
    left join ips_mdata t2 on t1.attack = t2.name
where
    $filter
    and vuln_type is not null
group by
    vuln_type
order by
    totalnum desc

```

Dataset Name	Description	Log Category
Critical-Severity-Intrusions	Threat critical severity intrusions	attack

```

select
    attack,
    cve,
    vuln_type,
    count(*) as totalnum
from
    $log t1
    left join ips_mdata t2 on t1.attack = t2.name
where
    $filter
    and t1.severity = 'critical'
group by
    attack,
    cve,
    vuln_type

```

```
order by
totalnum desc
```

Dataset Name	Description	Log Category
High-Severity-Intrusions	Threat high severity intrusions	attack

```
select
  attack,
  vuln_type,
  cve,
  count(*) as totalnum
from
  $log t1
  left join ips_mdata t2 on t1.attack = t2.name
where
  $filter
  and t1.severity = 'high'
group by
  attack,
  vuln_type,
  cve
order by
  totalnum desc
```

Dataset Name	Description	Log Category
Medium-Severity-Intrusions	Threat medium severity intrusions	attack

```
select
  attack,
  vuln_type,
  cve,
  count(*) as totalnum
from
  $log t1
  left join ips_mdata t2 on t1.attack = t2.name
where
  $filter
  and t1.severity = 'medium'
group by
  attack,
  vuln_type,
  cve
order by
  totalnum desc
```

Dataset Name	Description	Log Category
Top-Intrusion-Victims	Threat top intrusion victims	attack

```
select
  victim,
```

```

sum(cri_num) as critical,
sum(high_num) as high,
sum(med_num) as medium,
sum(cri_num + high_num + med_num) as totalnum
from
###(select dstip as victim, sum((case when severity='critical' then 1 else 0 end)) as
cri_num, sum(case when severity='high' then 1 else 0 end) as high_num, sum(case
when severity='medium' then 1 else 0 end) as med_num from $log where $filter and
severity in ('critical', 'high', 'medium') group by victim)### t group by victim
order by totalnum desc

```

Dataset Name	Description	Log Category
Top-Intrusion-Sources	Threat top intrusion sources	attack

```

select
source,
sum(cri_num) as critical,
sum(high_num) as high,
sum(med_num) as medium,
sum(cri_num + high_num + med_num) as totalnum
from
###(select srcip as source, sum(case when severity='critical' then 1 else 0 end) as
cri_num, sum(case when severity='high' then 1 else 0 end) as high_num, sum(case
when severity='medium' then 1 else 0 end) as med_num from $log where $filter and
severity in ('critical', 'high', 'medium') group by source)### t group by source
order by totalnum desc

```

Dataset Name	Description	Log Category
Top-Blocked-Intrusions	Threat top blocked intrusions	attack

```

select
attack,
(
case when t1.severity = 'critical' then 'Critical' when t1.severity = 'high' then
'High' when t1.severity = 'medium' then 'Medium' when t1.severity = 'low' then
'Low' when t1.severity = 'info' then 'Info' end
) as severity_name,
count(*) as totalnum,
vuln_type,
(
case when t1.severity = 'critical' then 0 when t1.severity = 'high' then 1 when
t1.severity = 'medium' then 2 when t1.severity = 'low' then 3 when t1.severity =
'info' then 4 else 5 end
) as severity_number
from
$log t1
left join ips_mdata t2 on t1.attack = t2.name
where
$filter
and nullifna(attack) is not null
and action in (
'deny', 'blocked', 'reset', 'dropped'
)
group by

```

```

    attack,
    t1.severity,
    vuln_type
order by
    severity_number,
    totalnum desc

```

Dataset Name	Description	Log Category
Top-Monitored-Intrusions	Threat top monitored intrusions	attack

```

select
    attack,
    (
        case when t1.severity = 'critical' then 'Critical' when t1.severity = 'high' then
            'High' when t1.severity = 'medium' then 'Medium' when t1.severity = 'low' then
            'Low' when t1.severity = 'info' then 'Info' end
    ) as severity_name,
    count(*) as totalnum,
    vuln_type,
    (
        case when t1.severity = 'critical' then 0 when t1.severity = 'high' then 1 when
            t1.severity = 'medium' then 2 when t1.severity = 'low' then 3 when t1.severity =
            'info' then 4 else 5 end
    ) as severity_number
from
    $log t1
left join ips_mdata t2 on t1.attack = t2.name
where
    $filter
    and nullifna(attack) is not null
    and action not in (
        'deny', 'blocked', 'reset', 'dropped'
    )
group by
    attack,
    t1.severity,
    vuln_type
order by
    severity_number,
    totalnum desc

```

Dataset Name	Description	Log Category
Attacks-Over-HTTP-HTTPS	Threat attacks over HTTP HTTPS	attack

```

select
    attack,
    (
        case when severity = 'critical' then 'Critical' when severity = 'high' then 'High'
            when severity = 'medium' then 'Medium' when severity = 'low' then 'Low' when
            severity = 'info' then 'Info' end
    ) as severity,
    count(*) as totalnum,
    (

```

```

        case when severity = 'critical' then 0 when severity = 'high' then 1 when severity =
            'medium' then 2 when severity = 'low' then 3 when severity = 'info' then 4 else
            5 end
    ) as severity_number
from
    $log
where
    $filter
    and severity in ('critical', 'high', 'medium')
    and upper(service) in ('HTTP', 'HTTPS')
group by
    attack,
    severity,
    severity_number
order by
    severity_number,
    totalnum desc

```

Dataset Name	Description	Log Category
default-AP-Detection-Summary-by-Status-OffWire	Default access point detection summary by status off-wire	event

```

select
    (
        case apstatus when 1 then 'rogue' when 2 then 'accepted' when 3 then 'suppressed'
            else 'others' end
    ) as ap_full_status,
    count(*) as totalnum
from
    (
        select
            apstatus,
            bssid,
            ssid
        from
            ###(select apstatus, bssid, ssid, count(*) as subtotal from $log where $filter
                and apstatus is not null and apstatus!=0 and bssid is not null and
                onwire='no' and logid_to_int(logid) in (43527, 43521, 43525, 43563, 43564,
                43565, 43566, 43569, 43570, 43571, 43582, 43583, 43584, 43585) group by
                apstatus, bssid, ssid order by subtotal desc)### t group by apstatus, bssid,
                ssid) t group by ap_full_status order by totalnum desc
    )

```

Dataset Name	Description	Log Category
default-AP-Detection-Summary-by-Status-OffWire_table	Default access point detection summary by status off-wire	event

```

select
    (
        case apstatus when 1 then 'rogue' when 2 then 'accepted' when 3 then 'suppressed'
            else 'others' end
    ) as ap_full_status,
    count(*) as totalnum
from

```

```
(
  select
    apstatus,
    bssid,
    ssid
  from
    ###(select apstatus, bssid, ssid, count(*) as subtotal from $log where $filter
    and apstatus is not null and apstatus!=0 and bssid is not null and
    onwire='no' and logid_to_int(logid) in (43527, 43521, 43525, 43563, 43564,
    43565, 43566, 43569, 43570, 43571, 43582, 43583, 43584, 43585) group by
    apstatus, bssid, ssid order by subtotal desc)### t group by apstatus, bssid,
    ssid) t group by ap_full_status order by totalnum desc
```

Dataset Name	Description	Log Category
default-AP-Detection-Summary-by-Status-OnWire	Default access point detection summary by status on-wire	event

```
select
  (
    case apstatus when 1 then 'rogue' when 2 then 'accepted' when 3 then 'suppressed'
    else 'others' end
  ) as ap_full_status,
  count(*) as totalnum
from
  (
    select
      apstatus,
      bssid,
      ssid
    from
      ###(select apstatus, bssid, ssid, count(*) as subtotal from $log where $filter
      and apstatus is not null and apstatus!=0 and bssid is not null and
      onwire='yes' and logid_to_int(logid) in (43527, 43521, 43525, 43563, 43564,
      43565, 43566, 43569, 43570, 43571, 43582, 43583, 43584, 43585) group by
      apstatus, bssid, ssid order by subtotal desc)### t group by apstatus, bssid,
      ssid) t group by ap_full_status order by totalnum desc
```

Dataset Name	Description	Log Category
default-AP-Detection-Summary-by-Status-OnWire_table	Default access point detection summary by status on-wire	event

```
select
  (
    case apstatus when 1 then 'rogue' when 2 then 'accepted' when 3 then 'suppressed'
    else 'others' end
  ) as ap_full_status,
  count(*) as totalnum
from
  (
    select
      apstatus,
      bssid,
      ssid
```

```

from
  ###(select apstatus, bssid, ssid, count(*) as subtotal from $log where $filter
  and apstatus is not null and apstatus!=0 and bssid is not null and
  onwire='yes' and logid_to_int(logid) in (43527, 43521, 43525, 43563, 43564,
  43565, 43566, 43569, 43570, 43571, 43582, 43583, 43584, 43585) group by
  apstatus, bssid, ssid order by subtotal desc)### t group by apstatus, bssid,
  ssid) t group by ap_full_status order by totalnum desc
    
```

Dataset Name	Description	Log Category
default-Managed-AP-Summary	Default managed access point summary	event

```

select
  (
    case when (
      action like '%join%'
      and logid_to_int(logid) in (43522, 43551)
    ) then 'Authorized' else 'Unauthorized' end
  ) as ap_status,
  count(*) as totalnum
from
  $log
where
  $filter
  and logid_to_int(logid) in (43522, 43551)
group by
  ap_status
order by
  totalnum desc
    
```

Dataset Name	Description	Log Category
default-Managed-AP-Summary_ table	Default managed access point summary	event

```

select
  (
    case when (
      action like '%join%'
      and logid_to_int(logid) in (43522, 43551)
    ) then 'Authorized' else 'Unauthorized' end
  ) as ap_status,
  count(*) as totalnum
from
  $log
where
  $filter
  and logid_to_int(logid) in (43522, 43551)
group by
  ap_status
order by
  totalnum desc
    
```

Dataset Name	Description	Log Category
default-Unclassified-AP-Summary	Default unclassified access point summary	event

```
select
(
case onwire when 'no' then 'off-wire' when 'yes' then 'on-wire' else 'others' end
) as ap_status,
count(*) as totalnum
from
###(select onwire, ssid, bssid, count(*) as subtotal from $log where $filter and
apstatus=0 and bssid is not null and logid_to_int(logid) in (43521, 43525, 43527,
43563, 43564, 43565, 43566, 43569, 43570, 43571, 43582, 43583, 43584, 43585) group
by onwire, ssid, bssid order by subtotal desc)### t group by ap_status order by
totalnum desc
```

Dataset Name	Description	Log Category
default-Unclassified-AP-Summary_ table	Default unclassified access point summary	event

```
select
(
case onwire when 'no' then 'off-wire' when 'yes' then 'on-wire' else 'others' end
) as ap_status,
count(*) as totalnum
from
###(select onwire, ssid, bssid, count(*) as subtotal from $log where $filter and
apstatus=0 and bssid is not null and logid_to_int(logid) in (43521, 43525, 43527,
43563, 43564, 43565, 43566, 43569, 43570, 43571, 43582, 43583, 43584, 43585) group
by onwire, ssid, bssid order by subtotal desc)### t group by ap_status order by
totalnum desc
```

Dataset Name	Description	Log Category
default-selected-AP-Details-OffWire	Default selected access point details off-wire	event

```
select
(
case apstatus when 0 then 'unclassified' when 1 then 'rogue' when 2 then 'accepted'
when 3 then 'suppressed' else 'others' end
) as ap_full_status,
devid,
vd,
ssid,
bssid,
manuf,
rssi,
channel,
radioband,
from_dtime(
min(dtime)
) as first_seen,
```

```

    from_dtime(
      max(dtime)
    ) as last_seen,
    detectionmethod,
    itime,
    onwire as on_wire
from
  $log
where
  $filter
  and apstatus is not null
  and bssid is not null
  and onwire = 'no'
  and logid_to_int(logid) in (
    43521, 43563, 43564, 43565, 43566, 43569,
    43570, 43571
  )
group by
  ap_full_status,
  devid,
  vd,
  ssid,
  bssid,
  manuf,
  rssi,
  channel,
  radioband,
  detectionmethod,
  itime,
  onwire,
  apstatus

```

Dataset Name	Description	Log Category
default-selected-AP-Details-OnWire	Default selected access point details on-wire	event

```

select
  (
    case apstatus when 0 then 'unclassified' when 1 then 'rogue' when 2 then 'accepted'
      when 3 then 'suppressed' else 'others' end
  ) as ap_full_status,
  devid,
  vd,
  ssid,
  bssid,
  manuf,
  rssi,
  channel,
  radioband,
  from_dtime(
    min(dtime)
  ) as first_seen,
  from_dtime(
    max(dtime)
  ) as last_seen,
  detectionmethod,

```

```

    itime,
    onwire as on_wire
from
    $log
where
    $filter
    and apstatus is not null
    and bssid is not null
    and onwire = 'yes'
    and logid_to_int(logid) in (
        43521, 43563, 43564, 43565, 43566, 43569,
        43570, 43571
    )
group by
    ap_full_status,
    devid,
    vd,
    ssid,
    bssid,
    manuf,
    rssi,
    channel,
    radioband,
    detectionmethod,
    itime,
    onwire,
    apstatus

```

Dataset Name	Description	Log Category
event-Wireless-Client-Details	Event wireless client details	event

```

drop
    table if exists ip_list; create temporary table ip_list as
select
    ip,
    lower(mac) as lmac,
    sn,
    ssid,
    channel,
    radioband,
    min(dtime) as first,
    max(dtime) as last
from
    $log - event
where
    $filter
    and ip is not null
    and mac is not null
    and sn is not null
    and ssid is not null
group by
    ip,
    lmac,
    sn,
    ssid,

```

```

channel,
radioband
order by
ip;
select
user_src,
ip,
lmac,
sn,
ssid,
channel,
radioband,
from_dtime(first) as first_seen,
from_dtime(last) as last_seen,
cast(
volume as decimal(18, 2)
) as bandwidth
from
(
select
*
from
ip_list
inner join (
select
user_src,
srcip,
sum(volume) as volume
from
###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
(`srcip`)) as user_src, srcip, sum(coalesce(sentbyte, 0)+coalesce
(rcvdbyte, 0)) as volume from $log-traffic where $filter-time and logid_
to_int(logid) not in (4, 7, 14) and srcip is not null group by user_src,
srcip having sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))>0 order by
volume desc)### t group by user_src, srcip order by user_src, srcip) t
on ip_list.ip = t.srcip) t order by volume desc

```

Dataset Name	Description	Log Category
event-Wireless-Accepted-Offwire	Event wireless accepted off-wire	event

```

select
'accepted' as ap_full_status,
devid,
vd,
ssid,
bssid,
manuf,
channel,
radioband,
from_dtime(
max(last_seen)
) as last_seen,
detectionmethod,
snclosest,
'no' as on_wire

```

```

from
  ###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
    snclosest, onwire, logid, apstatus, max(dtime) as last_seen from $log where $filter
    and bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564,
    43565, 43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
    radioband, detectionmethod, snclosest, onwire, logid, apstatus order by last_seen
    desc)### t where apstatus=2 and onwire='no' group by devid, vd, ssid, bssid, manuf,
    channel, radioband, detectionmethod, snclosest order by last_seen desc
    
```

Dataset Name	Description	Log Category
event-Wireless-Accepted-Onwire	Event wireless accepted on-wire	event

```

select
  'accepted' as ap_full_status,
  devid,
  vd,
  ssid,
  bssid,
  manuf,
  channel,
  radioband,
  from_dtime(
    max(last_seen)
  ) as last_seen,
  detectionmethod,
  snclosest,
  'yes' as on_wire
from
  ###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
    snclosest, onwire, apstatus, max(dtime) as last_seen from $log where $filter and
    bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564, 43565,
    43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
    radioband, detectionmethod, snclosest, onwire, apstatus order by last_seen desc)###
  t where apstatus=2 and onwire='yes' group by devid, vd, ssid, bssid, manuf,
  channel, radioband, detectionmethod, snclosest order by last_seen desc
    
```

Dataset Name	Description	Log Category
event-Wireless-Rogue-Offwire	Event wireless rogue off-wire	event

```

select
  'rogue' as ap_full_status,
  devid,
  vd,
  ssid,
  bssid,
  manuf,
  channel,
  radioband,
  from_dtime(
    max(last_seen)
  ) as last_seen,
  detectionmethod,
  snclosest,
  'no' as on_wire
    
```

```

from
  ###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
    snclosest, onwire, logid, apstatus, max(dtime) as last_seen from $log where $filter
    and bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564,
    43565, 43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
    radioband, detectionmethod, snclosest, onwire, logid, apstatus order by last_seen
    desc)### t where apstatus=1 and onwire='no' group by devid, vd, ssid, bssid, manuf,
    channel, radioband, detectionmethod, snclosest order by last_seen desc

```

Dataset Name	Description	Log Category
event-Wireless-Rogue-Onwire	Event wireless rogue on-wire	event

```

select
  'rogue' as ap_full_status,
  devid,
  vd,
  ssid,
  bssid,
  manuf,
  channel,
  radioband,
  from_dtime(
    max(last_seen)
  ) as last_seen,
  detectionmethod,
  snclosest,
  'yes' as on_wire
from
  ###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
    snclosest, onwire, apstatus, max(dtime) as last_seen from $log where $filter and
    bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564, 43565,
    43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
    radioband, detectionmethod, snclosest, onwire, apstatus order by last_seen desc)###
  t where apstatus=1 and onwire='yes' group by devid, vd, ssid, bssid, manuf,
  channel, radioband, detectionmethod, snclosest order by last_seen desc

```

Dataset Name	Description	Log Category
event-Wireless-Suppressed-Offwire	Event wireless suppressed off-wire	event

```

select
  'suppressed' as ap_full_status,
  devid,
  vd,
  ssid,
  bssid,
  manuf,
  channel,
  radioband,
  from_dtime(
    max(last_seen)
  ) as last_seen,
  detectionmethod,
  snclosest,
  'no' as on_wire

```

```

from
  ###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
    snclosest, onwire, logid, apstatus, max(dtime) as last_seen from $log where $filter
    and bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564,
    43565, 43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
    radioband, detectionmethod, snclosest, onwire, logid, apstatus order by last_seen
    desc)### t where apstatus=3 and onwire='no' group by devid, vd, ssid, bssid, manuf,
    channel, radioband, detectionmethod, snclosest order by last_seen desc
    
```

Dataset Name	Description	Log Category
event-Wireless-Suppressed-Onwire	Event wireless suppressed on-wire	event

```

select
  'suppressed' as ap_full_status,
  devid,
  vd,
  ssid,
  bssid,
  manuf,
  channel,
  radioband,
  from_dtime(
    max(last_seen)
  ) as last_seen,
  detectionmethod,
  snclosest,
  'yes' as on_wire
from
  ###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
    snclosest, onwire, apstatus, max(dtime) as last_seen from $log where $filter and
    bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564, 43565,
    43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
    radioband, detectionmethod, snclosest, onwire, apstatus order by last_seen desc)###
  t where apstatus=3 and onwire='yes' group by devid, vd, ssid, bssid, manuf,
  channel, radioband, detectionmethod, snclosest order by last_seen desc
    
```

Dataset Name	Description	Log Category
event-Wireless-Unclassified-Offwire	Event wireless unclassified off-wire	event

```

select
  'unclassified' as ap_full_status,
  devid,
  vd,
  ssid,
  bssid,
  manuf,
  channel,
  radioband,
  from_dtime(
    max(last_seen)
  ) as last_seen,
  detectionmethod,
  snclosest,
  'no' as on_wire
    
```

```

from
###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
snclosest, onwire, logid, apstatus, max(dtime) as last_seen from $log where $filter
and bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564,
43565, 43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
radioband, detectionmethod, snclosest, onwire, logid, apstatus order by last_seen
desc)### t where apstatus=0 and onwire='no' group by devid, vd, ssid, bssid, manuf,
channel, radioband, detectionmethod, snclosest order by last_seen desc

```

Dataset Name	Description	Log Category
event-Wireless-Unclassified-Onwire	Event wireless unclassified on-wire	event

```

select
'unclassified' as ap_full_status,
devid,
vd,
ssid,
bssid,
manuf,
channel,
radioband,
from_dtime(
max(last_seen)
) as last_seen,
detectionmethod,
snclosest,
'yes' as on_wire
from
###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
snclosest, onwire, apstatus, max(dtime) as last_seen from $log where $filter and
bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564, 43565,
43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
radioband, detectionmethod, snclosest, onwire, apstatus order by last_seen desc)###
t where apstatus=0 and onwire='yes' group by devid, vd, ssid, bssid, manuf,
channel, radioband, detectionmethod, snclosest order by last_seen desc

```

Dataset Name	Description	Log Category
default-Top-IPSEC-Vpn-Dial-Up-User-By-Bandwidth	Default top IPsec VPN dial up user by bandwidth usage	event

```

select
coalesce(
xauthuser_agg,
user_agg,
ipstr(`remip`)
) as user_src,
from_dtime(
min(s_time)
) as start_time,
sum(bandwidth) as bandwidth,
sum(traffic_in) as traffic_in,
sum(traffic_out) as traffic_out
from

```

```
(
  select
    devid,
    vd,
    string_agg(distinct xauthuser_agg, ' ') as xauthuser_agg,
    string_agg(distinct user_agg, ' ') as user_agg,
    remip,
    tunnelid,
    min(s_time) as s_time,
    max(e_time) as e_time,
    (
      case when min(s_time)= max(e_time) then max(max_traffic_in)+ max(max_traffic_out) else max(max_traffic_in)- min(min_traffic_in)+ max(max_traffic_out)- min(min_traffic_out) end
    ) as bandwidth,
    (
      case when min(s_time)= max(e_time) then max(max_traffic_in) else max(max_traffic_in)- min(min_traffic_in) end
    ) as traffic_in,
    (
      case when min(s_time)= max(e_time) then max(max_traffic_out) else max(max_traffic_out)- min(min_traffic_out) end
    ) as traffic_out
  from
    ###(select devid, vd, nullifna(`xauthuser`) as xauthuser_agg, nullifna(`user`) as user_agg, remip, tunnelid, min(coalesce(dtime, 0)) as s_time, max(coalesce(dtime, 0)) as e_time, min(coalesce(sentbyte, 0)) as min_traffic_out, min(coalesce(rcvdbyte, 0)) as min_traffic_in, max(coalesce(sentbyte, 0)) as max_traffic_out, max(coalesce(rcvdbyte, 0)) as max_traffic_in from $log where $filter and subtype='vpn' and tunneltype like 'ipsec%' and not (tunnelip is null or (tunnelip='0.0.0.0' and logver is null)) and action in ('tunnel-stats', 'tunnel-down', 'tunnel-up') and tunnelid is not null group by devid, vd, xauthuser_agg, user_agg, remip, tunnelid order by tunnelid)### t group by devid, vd, remip, tunnelid) tt group by user_src having sum(bandwidth)>0 order by bandwidth desc
```

Dataset Name	Description	Log Category
default-Top-Sources-Of-SSL-VPN-Tunnels-By-Bandwidth	Default top sources of SSL VPN tunnels by bandwidth usage	event

```
select
  remip as remote_ip,
  sum(traffic_in + traffic_out) as bandwidth
from
  (
    select
      devid,
      vd,
      remip,
      tunnelid,
      max(traffic_in) as traffic_in,
      max(traffic_out) as traffic_out
    from
      ###(select devid, vd, remip, tunnelid, max(coalesce(sentbyte, 0)) as traffic_out, max(coalesce(rcvdbyte, 0)) as traffic_in from $log where $filter and subtype='vpn' and tunneltype like 'ssl%' and action in ('tunnel-stats',
```

```
'tunnel-down') and remip is not null and tunnelid is not null group by devid,
vd, remip, tunnelid order by tunnelid)### t group by devid, vd, remip,
tunnelid) tt group by remote_ip having sum(traffic_in+traffic_out)>0 order by
bandwidth desc
```

Dataset Name	Description	Log Category
webfilter-Web-Activity-Summary-By-Requests	Webfilter web activity summary by requests	webfilter

```
select
  hodex,
  sum(allowed_request) as allowed_request,
  sum(blocked_request) as blocked_request
from
  (
    ###(select $flex_timescale as hodex, sum(case when utmaction!='blocked' then 1 else
    0 end) as allowed_request, sum(case when utmaction='blocked' then 1 else 0 end)
    as blocked_request from $log-traffic where $filter and logid_to_int(logid) not
    in (4, 7, 14) and utmevent in ('webfilter', 'banned-word', 'web-content',
    'command-block', 'script-filter') group by hodex order by hodex)### union all
    ###(select $flex_timescale as hodex, sum(case when action!='blocked' then 1 else
    0 end) as allowed_request, sum(case when action='blocked' then 1 else 0 end) as
    blocked_request from $log-webfilter where $filter and (eventtype is null or
    logver>=52) group by hodex order by hodex)###) t group by hodex order by hodex
```

Dataset Name	Description	Log Category
traffic-Browsing-Time-Summary	Traffic browsing time summary	traffic

```
select
  hodex,
  cast(
    sum(delta) / 60.0 as decimal(18, 2)
  ) as browsetime
from
  ###(select $flex_timescale as hodex, sum($browse_time) as delta from $log where $filter
  and logid_to_int(logid) not in (4, 7, 14) group by hodex having sum($browse_time)>0
  order by delta desc)### t group by hodex order by hodex
```

Dataset Name	Description	Log Category
traffic-Browsing-Time-Summary-Enhanced	Traffic browsing time summary enhanced	traffic

```
select
  hodex,
  cast(
    sum(delta) / 60.0 as decimal(18, 2)
  ) as browsetime
from
  ###(select $flex_timescale as hodex, sum($browse_time2) as delta from $log where
  $filter and logid_to_int(logid) not in (4, 7, 14) group by hodex having sum
  ($browse_time2)>0 order by delta desc)### t group by hodex order by hodex
```

Dataset Name	Description	Log Category
webfilter-Top-Web-Users-By-Blocked-Requests	Webfilter top web users by blocked requests	webfilter

```
select
  user_src,
  sum(requests) as requests
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
    user_src, count(*) as requests from $log-traffic where $filter and logid_to_int
    (logid) not in (4, 7, 14) and utmevent in ('webfilter', 'banned-word', 'web-
    content', 'command-block', 'script-filter') and coalesce(nullifna(`user`),
    nullifna(`unauthuser`), ipstr(`srcip`)) is not null and utmaction='blocked'
    group by user_src order by requests desc)### union all ###(select coalesce
    (nullifna(`user`), ipstr(`srcip`)) as user_src, count(*) as requests from $log-
    webfilter where $filter and (eventtype is null or logver>=52) and coalesce
    (nullifna(`user`), ipstr(`srcip`)) is not null and action='blocked' group by
    user_src order by requests desc)###) t group by user_src order by requests desc
```

Dataset Name	Description	Log Category
webfilter-Top-Web-Users-By-Allowed-Requests	Webfilter top web users by allowed requests	webfilter

```
select
  user_src,
  sum(requests) as requests
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
    user_src, count(*) as requests from $log-traffic where $filter and logid_to_int
    (logid) not in (4, 7, 14) and utmevent in ('webfilter', 'banned-word', 'web-
    content', 'command-block', 'script-filter') and coalesce(nullifna(`user`),
    nullifna(`unauthuser`), ipstr(`srcip`)) is not null and utmaction!='blocked'
    group by user_src order by requests desc)### union all ###(select coalesce
    (nullifna(`user`), ipstr(`srcip`)) as user_src, count(*) as requests from $log-
    webfilter where $filter and (eventtype is null or logver>=52) and coalesce
    (nullifna(`user`), ipstr(`srcip`)) is not null and action!='blocked' group by
    user_src order by requests desc)###) t group by user_src order by requests desc
```

Dataset Name	Description	Log Category
traffic-Top-Web-Users-By-Browsing-Time	Traffic top web users by browsing time	traffic

```
select
  user_src,
  sum(delta) as browsetime,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
```

```

from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, sum($browse_time) as
  delta, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth, sum(coalesce
  (rcvdbyte, 0)) as traffic_in, sum(coalesce(sentbyte, 0)) as traffic_out from $log
  where $filter group by user_src having sum($browse_time)>0 order by delta desc)###
  t group by user_src order by browsetime desc

```

Dataset Name	Description	Log Category
webfilter-Top-Blocked-Web-Sites-By-Requests	Webfilter top blocked web sites by requests	webfilter

```

select
  domain,
  catdesc,
  sum(requests) as requests
from
  (
    ###(select hostname as domain, catdesc, count(*) as requests from $log-traffic where
    $filter and logid_to_int(logid) not in (4, 7, 14) and utmevent in ('webfilter',
    'banned-word', 'web-content', 'command-block', 'script-filter') and hostname is
    not null and utmaction='blocked' group by domain, catdesc order by requests
    desc)### union all ###(select hostname as domain, catdesc, count(*) as requests
    from $log-webfilter where $filter and (eventtype is null or logver>=52) and
    hostname is not null and catdesc is not null and action='blocked' group by
    domain, catdesc order by requests desc)###) t group by domain, catdesc order by
    requests desc

```

Dataset Name	Description	Log Category
webfilter-Top-Allowed-Web-Sites-By-Requests	Webfilter top allowed web sites by requests	webfilter

```

select
  domain,
  string_agg(distinct catdesc, ', ') as agg_catdesc,
  sum(requests) as requests
from
  (
    ###(select hostname as domain, catdesc, count(*) as requests from $log-traffic where
    $filter and logid_to_int(logid) not in (4, 7, 14) and utmevent in ('webfilter',
    'banned-word', 'web-content', 'command-block', 'script-filter') and hostname is
    not null and utmaction!='blocked' group by domain, catdesc order by requests
    desc)### union all ###(select hostname as domain, catdesc, count(*) as requests
    from $log-webfilter where $filter and (eventtype is null or logver>=52) and
    hostname is not null and catdesc is not null and action!='blocked' group by
    domain, catdesc order by requests desc)###) t group by domain order by requests
    desc

```

Dataset Name	Description	Log Category
webfilter-Top-Video-Streaming-Websites-By-Bandwidth	Webfilter top video streaming websites by bandwidth usage	webfilter

```

select

```

```

domain,
sum(bandwidth) as bandwidth,
sum(traffic_in) as traffic_in,
sum(traffic_out) as traffic_out
from
###(select coalesce(nullifna(root_domain(hostname)), 'other') as domain, sum(coalesce
(sentbyte, 0)+coalesce(rcvbyte, 0)) as bandwidth, sum(coalesce(rcvbyte, 0)) as
traffic_in, sum(coalesce(sentbyte, 0)) as traffic_out from $log-traffic where
$filter and logid_to_int(logid) not in (4, 7, 14) and ((logver>=52 and countweb>0)
or ((logver is null) and utmevent in ('webfilter', 'banned-word', 'web-content',
'command-block', 'script-filter'))) and catdesc in ('Streaming Media and Download')
group by domain having sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0))>0 order by
bandwidth desc)### t group by domain order by bandwidth desc
    
```

Dataset Name	Description	Log Category
webfilter-Top-Blocked-Web-Categories	Webfilter top blocked web categories	webfilter

```

select
    catdesc,
    sum(requests) as requests
from
    (
        ###(select catdesc, count(*) as requests from $log-traffic where $filter and logid_
        to_int(logid) not in (4, 7, 14) and utmevent in ('webfilter', 'banned-word',
        'web-content', 'command-block', 'script-filter') and catdesc is not null and
        utmaction='blocked' group by catdesc order by requests desc)### union all ###
        (select catdesc, count(*) as requests from $log-webfilter where $filter and
        (eventtype is null or logver>=52) and catdesc is not null and action='blocked'
        group by catdesc order by requests desc)###) t group by catdesc order by
        requests desc
    
```

Dataset Name	Description	Log Category
webfilter-Top-Allowed-Web-Categories	Webfilter top allowed web categories	webfilter

```

select
    catdesc,
    sum(requests) as requests
from
    (
        ###(select catdesc, count(*) as requests from $log-traffic where $filter and logid_
        to_int(logid) not in (4, 7, 14) and utmevent in ('webfilter', 'banned-word',
        'web-content', 'command-block', 'script-filter') and catdesc is not null and
        utmaction!='blocked' group by catdesc order by requests desc)### union all ###
        (select catdesc, count(*) as requests from $log-webfilter where $filter and
        (eventtype is null or logver>=52) and catdesc is not null and action!='blocked'
        group by catdesc order by requests desc)###) t group by catdesc order by
        requests desc
    
```

Dataset Name	Description	Log Category
traffic-Top-50-Sites-By-Browsing-Time	Traffic top sites by browsing time	traffic

```

select
  hostname,
  string_agg(distinct catdesc, ', ') as agg_catdesc,
  sum(delta) as browsetime,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  ###(select hostname, catdesc, sum($browse_time) as delta, sum(coalesce(sentbyte, 0)
  +coalesce(rcvdbyte, 0)) as bandwidth, sum(coalesce(rcvdbyte, 0)) as traffic_in, sum
  (coalesce(sentbyte, 0)) as traffic_out from $log where $filter and logid_to_int
  (logid) not in (4, 7, 14) and hostname is not null group by hostname, catdesc
  having sum($browse_time)>0 order by delta desc)### t group by hostname order by
  browsetime desc

```

Dataset Name	Description	Log Category
traffic-Top-50-Sites-By-Browsing-Time-Enhanced	Traffic top sites by browsing time enhanced	traffic

```

select
  hostname,
  string_agg(distinct catdesc, ', ') as agg_catdesc,
  sum(delta) as browsetime,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  ###(select hostname, catdesc, sum($browse_time2) as delta, sum(coalesce(sentbyte, 0)
  +coalesce(rcvdbyte, 0)) as bandwidth, sum(coalesce(rcvdbyte, 0)) as traffic_in, sum
  (coalesce(sentbyte, 0)) as traffic_out from $log where $filter and logid_to_int
  (logid) not in (4, 7, 14) and hostname is not null group by hostname, catdesc
  having sum($browse_time2)>0 order by delta desc)### t group by hostname order by
  browsetime desc

```

Dataset Name	Description	Log Category
traffic-Top-10-Categories-By-Browsing-Time	Traffic top category by browsing time	traffic

```

select
  catdesc,
  sum(delta) as browsetime,
  sum(bandwidth) as bandwidth
from
  ###(select catdesc, sum($browse_time) as delta, sum(coalesce(sentbyte, 0)+coalesce
  (rcvdbyte, 0)) as bandwidth from $log where $filter and logid_to_int(logid) not in

```

```
(4, 7, 14) and catdesc is not null group by catdesc having sum($browse_time)>0
order by delta desc)### t group by catdesc order by browsetime desc
```

Dataset Name	Description	Log Category
traffic-Top-10-Categories-By-Browsing-Time-Enhanced	Traffic top category by browsing time enhanced	traffic

```
select
  catdesc,
  sum(delta) as browsetime,
  sum(bandwidth) as bandwidth
from
  ###(select catdesc, sum($browse_time2) as delta, sum(coalesce(sentbyte, 0)+coalesce(
  rcvdbyte, 0)) as bandwidth from $log where $filter and logid_to_int(logid) not in
  (4, 7, 14) and catdesc is not null group by catdesc having sum($browse_time2)>0
  order by delta desc)### t group by catdesc order by browsetime desc
```

Dataset Name	Description	Log Category
traffic-Top-Destination-Countries-By-Browsing-Time	Traffic top destination countries by browsing time	traffic

```
select
  dstcountry,
  sum(delta) as browsetime,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  ###(select dstcountry, sum($browse_time) as delta, sum(coalesce(sentbyte, 0)+coalesce(
  rcvdbyte, 0)) as bandwidth, sum(coalesce(rcvdbyte, 0)) as traffic_in, sum(coalesce(
  sentbyte, 0)) as traffic_out from $log where $filter and logid_to_int(logid) not
  in (4, 7, 14) group by dstcountry having sum($browse_time)>0 order by delta desc)
  ### t group by dstcountry order by browsetime desc
```

Dataset Name	Description	Log Category
traffic-Top-Destination-Countries-By-Browsing-Time-Enhanced	Traffic top destination countries by browsing time enhanced	traffic

```
select
  dstcountry,
  sum(delta) as browsetime,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  ###(select dstcountry, sum($browse_time2) as delta, sum(coalesce(sentbyte, 0)+coalesce(
  rcvdbyte, 0)) as bandwidth, sum(coalesce(rcvdbyte, 0)) as traffic_in, sum(coalesce(
  sentbyte, 0)) as traffic_out from $log where $filter and logid_to_int(logid) not
  in (4, 7, 14) group by dstcountry having sum($browse_time2)>0 order by delta desc)
  ### t group by dstcountry order by browsetime desc
```

Dataset Name	Description	Log Category
webfilter-Top-Search-Phrases	Webfilter top search phrases	webfilter

```
select
  keyword,
  count(*) as requests
from
  $log
where
  $filter
  and keyword is not null
group by
  keyword
order by
  requests desc
```

Dataset Name	Description	Log Category
Top-10-Users-Browsing-Time	Estimated browsing time	traffic

```
select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  sum($browse_time) as browsetime
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  user_src
having
  sum($browse_time) > 0
order by
  browsetime desc
```

Dataset Name	Description	Log Category
Top-10-Users-Browsing-Time-Enhanced	Estimated browsing time enhanced	traffic

```
select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  sum($browse_time2) as browsetime
```

```

from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  user_src
having
  sum($browse_time2) > 0
order by
  browsetime desc
    
```

Dataset Name	Description	Log Category
Estimated-Browsing-Time	Estimated browsing time	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  sum($browse_time) as browsetime
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  user_src
having
  sum($browse_time) > 0
order by
  browsetime desc
    
```

Dataset Name	Description	Log Category
Estimated-Browsing-Time-Enhanced	Estimated browsing time enhanced	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  sum($browse_time2) as browsetime
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  user_src
having
    
```

```

sum($browse_time2)> 0
order by
  browsetime desc

```

Dataset Name	Description	Log Category
wifi-Top-AP-By-Bandwidth	Top access point by bandwidth usage	traffic

```

select
  srcintf,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and (
    srcssid is not null
    or dstssid is not null
  )
group by
  srcintf
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
wifi-Top-AP-By-Client	Top access point by client	traffic

```

select
  srcintf,
  count(distinct srcmac) as totalnum
from
  ###(select srcintf, srcssid, osname, osversion, devtype, srcmac, count(*) as subtotal
  from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and (srcssid is
  not null or dstssid is not null) and srcmac is not null group by srcintf, srcssid,
  osname, osversion, devtype, srcmac order by subtotal desc)### t group by srcintf
  order by totalnum desc

```

Dataset Name	Description	Log Category
wifi-Top-SSID-By-Bandwidth	Top SSIDs by bandwidth usage	traffic

```

select
  srcssid,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
  ) as bandwidth

```

```

from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and srcssid is not null
group by
  srcssid
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
  )> 0
order by
  bandwidth desc
    
```

Dataset Name	Description	Log Category
wifi-Top-SSID-By-Client	Top SSIDs by client	traffic

```

select
  srcssid,
  count(distinct srcmac) as totalnum
from
  ###(select srcintf, srcssid, osname, osversion, devtype, srcmac, count(*) as subtotal
  from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and (srcssid is
  not null or dstssid is not null) and srcmac is not null group by srcintf, srcssid,
  osname, osversion, devtype, srcmac order by subtotal desc)### t where srcssid is
  not null group by srcssid order by totalnum desc
    
```

Dataset Name	Description	Log Category
wifi-Top-App-By-Bandwidth	Top WiFi applications by bandwidth usage	traffic

```

select
  appid,
  app,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and (
    srcssid is not null
    or dstssid is not null
  )
  and nullifna(app) is not null
group by
  appid,
  app
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
    
```

```

    )> 0
  order by
    bandwidth desc

```

Dataset Name	Description	Log Category
wifi-Top-Client-By-Bandwidth	Top WiFi client by bandwidth usage	traffic

```

select
  (
    coalesce(srcname, srcmac, 'unknown') || ' (' || coalesce(devtype, 'unknown') || ', '
    || coalesce(osname, '') || (
      case when osversion is null then ' ' else ' ' || osversion end
    ) || ')'
  ) as client,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and (
    srcssid is not null
    or dstssid is not null
  )
group by
  client
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
wifi-Top-OS-By-Bandwidth	Top WiFi os by bandwidth usage	traffic

```

select
  (
    coalesce(osname, 'unknown') || ' ' || coalesce(osversion, '')
  ) as os,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and (
    srcssid is not null
    or dstssid is not null
  )

```

```

)
group by
  os
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
wifi-Top-OS-By-WiFi-Client	Top WiFi os by WiFi client	traffic

```

select
  (
    coalesce(osname, 'unknown') || ' ' || coalesce(osversion, '')
  ) as os,
  count(distinct srcmac) as totalnum
from
  ###(select srcintf, srcssid, osname, osversion, devtype, srcmac, count(*) as subtotal
  from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and (srcssid is
  not null or dstssid is not null) and srcmac is not null group by srcintf, srcssid,
  osname, osversion, devtype, srcmac order by subtotal desc)### t group by os order
  by totalnum desc

```

Dataset Name	Description	Log Category
wifi-Top-Device-By-Bandwidth	Top WiFi device by bandwidth usage	traffic

```

select
  devtype,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and (
    srcssid is not null
    or dstssid is not null
  )
  and devtype is not null
group by
  devtype
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
wifi-Top-Device-By-Client	Top WiFi device by client	traffic

```
select
  devtype,
  count(distinct srcmac) as totalnum
from
  ###(select srcintf, srcssid, osname, osversion, devtype, srcmac, count(*) as subtotal
  from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and (srcssid is
  not null or dstssid is not null) and srcmac is not null group by srcintf, srcssid,
  osname, osversion, devtype, srcmac order by subtotal desc)### t where devtype is
  not null group by devtype order by totalnum desc
```

Dataset Name	Description	Log Category
wifi-Overall-Traffic	WiFi overall traffic	traffic

```
select
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and (
    srcssid is not null
    or dstssid is not null
  )
```

Dataset Name	Description	Log Category
wifi-Num-Distinct-Client	WiFi num distinct client	traffic

```
select
  count(distinct srcmac) as totalnum
from
  ###(select srcintf, srcssid, osname, osversion, devtype, srcmac, count(*) as subtotal
  from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and (srcssid is
  not null or dstssid is not null) and srcmac is not null group by srcintf, srcssid,
  osname, osversion, devtype, srcmac order by subtotal desc)### t
```

Dataset Name	Description	Log Category
Top30-Subnets-by-Bandwidth-and-Sessions	Top subnets by application bandwidth	traffic

```
select
  ip_subnet(`srcip`) as subnet,
  sum(
```

```

        coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
    ) as bandwidth,
    sum(
        coalesce(rcvbyte, 0)
    ) as traffic_in,
    sum(
        coalesce(sentbyte, 0)
    ) as traffic_out,
    count(*) as sessions
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    subnet
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
    )> 0
order by
    bandwidth desc
    
```

Dataset Name	Description	Log Category
Top30-Subnets-by-Application-Bandwidth	Top applications by bandwidth	traffic

```

select
    ip_subnet(`srcip`) as subnet,
    app_group_name(app) as app_group,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
    ) as bandwidth
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and nullifna(app) is not null
group by
    subnet,
    app_group
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
    )> 0
order by
    bandwidth desc
    
```

Dataset Name	Description	Log Category
Top30-Subnets-by-Application-Sessions	Top applications by sessions	traffic

```

select
  ip_subnet(`srcip`) as subnet,
  app_group_name(app) as app_group,
  count(*) as sessions
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(app) is not null
group by
  subnet,
  app_group
order by
  sessions desc

```

Dataset Name	Description	Log Category
Top30-Subnets-by-Website-Bandwidth	Top websites and web category by bandwidth	traffic

```

select
  subnet,
  website,
  sum(bandwidth) as bandwidth
from
  ###(select ip_subnet(`srcip`) as subnet, hostname as website, sum(coalesce(sentbyte, 0)
  +coalesce(rcvbyte, 0)) as bandwidth from $log-traffic where $filter and hostname
  is not null and logid_to_int(logid) not in (4, 7, 14) and ((logver>=52 and
  countweb>0) or ((logver is null) and utmevent in ('webfilter', 'banned-word', 'web-
  content', 'command-block', 'script-filter'))) group by subnet, website order by
  bandwidth desc)### t group by subnet, website order by bandwidth desc

```

Dataset Name	Description	Log Category
Top30-Subnets-by-Website-Hits	Top websites and web category by sessions	traffic

```

select
  subnet,
  website,
  sum(hits) as hits
from
  (
    ###(select ip_subnet(`srcip`) as subnet, hostname as website, count(*) as hits from
    $log-traffic where $filter and hostname is not null and logid_to_int(logid) not
    in (4, 7, 14) and utmevent in ('webfilter', 'banned-word', 'web-content',
    'command-block', 'script-filter') group by subnet, website order by hits desc)
    ### union all ###(select ip_subnet(`srcip`) as subnet, hostname as website,
    count(*) as hits from $log-webfilter where $filter and hostname is not null and
    (eventtype is null or logver>=52) group by subnet, website order by hits desc)
    ###) t group by subnet, website order by hits desc

```

Dataset Name	Description	Log Category
Top30-Subnets-with-Top10-User-by-Bandwidth	Top users by bandwidth	traffic

```

select
  ip_subnet(`srcip`) as subnet,
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and srcip is not null
group by
  subnet,
  user_src
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
Top30-Subnets-with-Top10-User-by-Sessions	Top users by sessions	traffic

```

select
  ip_subnet(`srcip`) as subnet,
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  count(*) as sessions
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  subnet,
  user_src
order by
  sessions desc

```

Dataset Name	Description	Log Category
app-Top-20-Category-and-Applications-by-Bandwidth	Top category and applications by bandwidth usage	traffic

```

select
  appcat,
  app,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  appcat,
  app
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
app-Top-20-Category-and-Applications-by-Session	Top category and applications by session	traffic

```

select
  appcat,
  app,
  count(*) as sessions
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  appcat,
  app
order by
  sessions desc

```

Dataset Name	Description	Log Category
app-Top-500-Allowed-Applications-by-Bandwidth	Top allowed applications by bandwidth usage	traffic

```

select

```

```

from_itime(itime) as timestamp,
coalesce(
  nullifna(`user`),
  nullifna(`unauthuser`),
  ipstr(`srcip`)
) as user_src,
appcat,
app,
coalesce(
  root_domain(hostname),
  ipstr(dstip)
) as destination,
sum(
  coalesce(`sentbyte`, 0)+ coalesce(`rcvdbyte`, 0)
) as bandwidth
from
$log
where
$filter
and logid_to_int(logid) not in (4, 7, 14)
and action in ('accept', 'close', 'timeout')
group by
timestamp,
user_src,
appcat,
app,
destination
order by
bandwidth desc
    
```

Dataset Name	Description	Log Category
app-Top-500-Blocked-Applications-by-Session	Top blocked applications by session	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  appcat,
  app,
  count(*) as sessions
from
$log
where
$filter
and logid_to_int(logid) not in (4, 7, 14)
and action in (
  'deny', 'blocked', 'reset', 'dropped'
)
group by
  user_src,
  appcat,
  app
    
```

```
order by
sessions desc
```

Dataset Name	Description	Log Category
web-Detailed-Website-Browsing-Log	Web detailed website browsing log	traffic

```
select
  from dtme(dtime) as timestamp,
  catdesc,
  hostname as website,
  status,
  sum(bandwidth) as bandwidth
from
  ###(select dtime, catdesc, hostname, cast(utmaction as text) as status, sum(coalesce
  (sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic where $filter
  and hostname is not null and logid_to_int(logid) not in (4, 7, 14) and ((logver>=52
  and countweb>0) or ((logver is null) and utmevent in ('webfilter', 'banned-word',
  'web-content', 'command-block', 'script-filter'))) group by dtime, catdesc,
  hostname, utmaction order by dtime desc)### t group by dtime, catdesc, website,
  status order by dtime desc
```

Dataset Name	Description	Log Category
web-Hourly-Category-and-Website-Hits-Action	Web hourly category and website hits action	traffic

```
select
  hod,
  website,
  sum(hits) as hits
from
  (
  ###(select $hour_of_day as hod, (hostname || ' (' || coalesce(`catdesc`, 'Unknown')
  || ')') as website, count(*) as hits from $log-traffic where $filter and
  hostname is not null and logid_to_int(logid) not in (4, 7, 14) and utmevent in
  ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter')
  group by hod, website order by hod, hits desc)### union all ###(select $hour_of_
  day as hod, (hostname || ' (' || coalesce(`catdesc`, 'Unknown') || ')') as
  website , count(*) as hits from $log-webfilter where $filter and hostname is not
  null and (eventtype is null or logver>=52) group by hod, website order by hod,
  hits desc)###) t group by hod, website order by hod, hits desc
```

Dataset Name	Description	Log Category
web-Top-20-Category-and-Websites-by-Bandwidth	Web top category and websites by bandwidth usage	traffic

```
select
  website,
  catdesc,
  sum(bandwidth) as bandwidth
from
```

```
###(select hostname as website, catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic where $filter and hostname is not null and logid_to_int(logid) not in (4, 7, 14) and ((logver>=52 and countweb>0) or ((logver is null) and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter'))) group by website, catdesc order by bandwidth desc)### t group by website, catdesc order by bandwidth desc
```

Dataset Name	Description	Log Category
web-Top-20-Category-and-Websites-by-Session	Web top category and websites by session	traffic

```
select
  website,
  catdesc,
  sum(hits) as hits
from
  (
    ###(select hostname as website, catdesc, count(*) as hits from $log-traffic where $filter and hostname is not null and logid_to_int(logid) not in (4, 7, 14) and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') group by website, catdesc order by hits desc)### union all ### (select hostname as website, catdesc, count(*) as hits from $log-webfilter where $filter and hostname is not null and (eventtype is null or logver>=52) group by website, catdesc order by hits desc)###) t group by website, catdesc order by hits desc
```

Dataset Name	Description	Log Category
web-Top-500-Website-Sessions-by-Bandwidth	Web top website sessions by bandwidth usage	traffic

```
select
  from_dtime(dtime) as timestamp,
  user_src,
  website,
  catdesc,
  cast(
    sum(dura)/ 60 as decimal(18, 2)
  ) as dura,
  sum(bandwidth) as bandwidth
from
  ###(select dtime, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_src, hostname as website, catdesc, sum(coalesce(duration, 0)) as dura, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where $filter and hostname is not null and logid_to_int(logid) not in (4, 7, 14) and action in ('accept','close','timeout') group by dtime, user_src, website, catdesc having sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))>0 order by bandwidth desc)### t group by dtime, user_src, website, catdesc order by bandwidth desc
```

Dataset Name	Description	Log Category
web-Top-500-User-Visted-Websites-by-Bandwidth	Web top user visted websites by bandwidth usage	traffic

```

select
  website,
  catdesc,
  sum(bandwidth) as bandwidth
from
  ###(select hostname as website, catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte,
  0)) as bandwidth from $log-traffic where $filter and hostname is not null and
  logid_to_int(logid) not in (4, 7, 14) and ((logver>=52 and countweb>0) or ((logver
  is null) and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-
  block', 'script-filter'))) group by hostname, catdesc having sum(coalesce(sentbyte,
  0)+coalesce(rcvdbyte, 0))>0 order by bandwidth desc)### t group by website, catdesc
  order by bandwidth desc

```

Dataset Name	Description	Log Category
web-Top-500-User-Visted-Web-sites-by-Session	Web top user visted websites by session	traffic

```

select
  website,
  catdesc,
  sum(sessions) as sessions
from
  (
    ###(select hostname as website, catdesc, count(*) as sessions from $log-traffic
    where $filter and hostname is not null and logid_to_int(logid) not in (4, 7, 14)
    and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block',
    'script-filter') group by hostname, catdesc order by sessions desc)### union all
    ###(select hostname as website, catdesc, count(*) as sessions from $log-
    webfilter where $filter and hostname is not null and (eventtype is null or
    logver>=52) group by hostname, catdesc order by sessions desc)###) t group by
    website, catdesc order by sessions desc

```

Dataset Name	Description	Log Category
fct-Installed-Feature-Summary	Installed Feature Summary	fct-event

```

select
  clientfeature,
  count(*) as totalnum
from
  $log
where
  $filter
  and clientfeature is not null
group by
  clientfeature
order by
  totalnum desc

```

Dataset Name	Description	Log Category
fct-Device-by-Operating-System	Device by OS	fct-event

```
select
  os,
  count(*) as totalnum
from
  $log
where
  $filter
  and os is not null
group by
  os
order by
  totalnum desc
```

Dataset Name	Description	Log Category
fct-Installed-FortiClient-Version	FortiClient Version	fct-event

```
select
  fctver_trim(fctver) as fctver_short,
  count(*) as totalnum
from
  $log
where
  $filter
  and fctver is not null
group by
  fctver_short
order by
  totalnum desc
```

Dataset Name	Description	Log Category
fct-Endpoint-Profile-Deployment	Endpoint Profile Deployment	fct-event

```
select
  coalesce(
    nullifna(usingpolicy),
    'Unknown'
  ) as profile,
  count(*) as totalnum
from
  $log
where
  $filter
group by
  profile
order by
  totalnum desc
```

Dataset Name	Description	Log Category
fct-Client-Summary	Client Summary	fct-event

```

select
  hostname,
  deviceip,
  os,
  profile,
  hostuser,
  fctver_short
from
  ###(select hostname, deviceip, os, coalesce(nullifna(usingpolicy), 'Unknown') as
  profile, coalesce(nullifna(`user`), 'Unknown') as hostuser, fctver_trim(fctver) as
  fctver_short from $log where $filter and os is not null group by hostname,
  deviceip, os, profile, hostuser, fctver_short)### t group by hostname, deviceip,
  os, profile, hostuser, fctver_short

```

Dataset Name	Description	Log Category
fct-Total-Threats-Found	Total Threats Found	fct-traffic

```

select
  coalesce(
    nullifna(utmevent),
    'Unknown'
  ) as utmevent,
  count(*) as totalnum
from
  $log
where
  $filter
group by
  utmevent
order by
  totalnum desc

```

Dataset Name	Description	Log Category
fct-Top10-AV-Threats-Detected	Top AV Threats Detected	fct-traffic

```

select
  threat,
  count(*) as totalnum
from
  $log
where
  $filter
  and threat is not null
  and lower(utmevent)= 'antivirus'
group by
  threat
order by
  totalnum desc

```

Dataset Name	Description	Log Category
fct-Top10-Infected-Devices-with-Botnet	Top Infected Devices with Botnet	fct-traffic

```

select
  hostname,
  count(*) as totalnum
from
  $log
where
  $filter
  and hostname is not null
  and lower(utmevent) in ('webfilter', 'appfirewall')
  and lower(threat) like '%botnet%'
group by
  hostname
order by
  totalnum desc

```

Dataset Name	Description	Log Category
fct-Top10-Infected-Devices-with-Virus-Malware	Top Infected Devices with Virus Malware	fct-traffic

```

select
  hostname,
  count(*) as totalnum
from
  $log
where
  $filter
  and hostname is not null
  and lower(utmevent) in ('antivirus', 'antimalware')
group by
  hostname
order by
  totalnum desc

```

Dataset Name	Description	Log Category
fct-All-Antivirus-Antimalware-Detections	All Antivirus and Antimalware Detections	fct-traffic

```

select
  threat,
  hostname,
  coalesce(
    nullifna(`user`),
    'Unknown'
  ) as hostuser,
  utmaction

```

```

from
  $log
where
  $filter
  and lower(utmevent) in ('antivirus', 'antimalware')
group by
  threat,
  hostname,
  hostuser,
  utmaction

```

Dataset Name	Description	Log Category
fct-Web-Filter-Violations	Web Filter Violations	fct-traffic

```

select
  remotename,
  hostname,
  coalesce(
    nullifna(`user`),
    'Unknown'
  ) as hostuser,
  utmaction,
  count(*) as totalnum
from
  $log
where
  $filter
  and lower(utmevent)= 'webfilter'
group by
  remotename,
  hostname,
  hostuser,
  utmaction

```

Dataset Name	Description	Log Category
fct-Application-Firewall	Application Firewall	fct-traffic

```

select
  threat,
  hostname,
  coalesce(
    nullifna(`user`),
    'Unknown'
  ) as hostuser,
  utmaction
from
  $log
where
  $filter
  and lower(utmevent)= 'appfirewall'
group by
  threat,
  hostname,

```

```
hostuser,
utmaction
```

Dataset Name	Description	Log Category
fct-Errors-and-Alerts	Errors and Alerts	fct-event

```
select
  msg,
  hostname,
  coalesce(
    nullifna(`user`),
    'Unknown'
  ) as hostuser
from
  $log
where
  $filter
  and level in ('error', 'alert')
group by
  msg,
  hostname,
  hostuser
```

Dataset Name	Description	Log Category
fct-Threats-by-Top-Devices	Threats by Top Devices	fct-traffic

```
select
  hostname,
  count(*) as totalnum
from
  $log
where
  $filter
  and hostname is not null
  and utmevent is not null
group by
  hostname
order by
  totalnum desc
```

Dataset Name	Description	Log Category
os-Detect-OS-Count	Detected operation system count	traffic

```
select
  (
    coalesce(osname, 'Unknown')
  ) as os,
  count(*) as totalnum
from
  $log
```

```

where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  os
order by
  totalnum desc

```

Dataset Name	Description	Log Category
drilldown-Top-App-By-Sessions-Table	Drilldown top applications by session count	traffic

```

select
  appid,
  app,
  sum(sessions) as sessions
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`)), ipstr
  (`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
  sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
  $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
  user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
  $filter-var-only and nullifna(app) is not null group by appid, app order by
  sessions desc

```

Dataset Name	Description	Log Category
drilldown-Top-App-By-Sessions-Bar	Drilldown top applications by session count	traffic

```

select
  appid,
  app,
  sum(sessions) as sessions
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`)), ipstr
  (`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
  sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
  $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
  user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
  $filter-var-only and nullifna(app) is not null group by appid, app order by
  sessions desc

```

Dataset Name	Description	Log Category
drilldown-Top-App-By-Bandwidth-Table	Drilldown top applications by bandwidth usage	traffic

```

select
  appid,
  app,
  sum(bandwidth) as bandwidth
from

```

```
###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
(`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
$filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
$filter-var-only and nullifna(app) is not null group by appid, app having sum
(bandwidth)>0 order by bandwidth desc
```

Dataset Name	Description	Log Category
drilldown-Top-App-By-Bandwidth-Bar	Drilldown top applications by bandwidth usage	traffic

```
select
  appid,
  app,
  sum(bandwidth) as bandwidth
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
(`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
$filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
$filter-var-only and nullifna(app) is not null group by appid, app having sum
(bandwidth)>0 order by bandwidth desc
```

Dataset Name	Description	Log Category
drilldown-Top-Destination-By-Sessions-Table	Drilldown top destination by session count	traffic

```
select
  dstip,
  sum(sessions) as sessions
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
(`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
$filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
$filter-var-only and dstip is not null group by dstip order by sessions desc
```

Dataset Name	Description	Log Category
drilldown-Top-Destination-By-Bandwidth-Table	Drilldown top destination by bandwidth usage	traffic

```
select
  dstip,
  sum(bandwidth) as bandwidth
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
(`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
```

```
$filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
$filter-var-only and dstip is not null group by dstip having sum(bandwidth)>0 order
by bandwidth desc
```

Dataset Name	Description	Log Category
drilldown-Top-User-By-Sessions-Table	Drilldown top user by session count	traffic

```
select
  user_src,
  sum(sessions) as sessions
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
(`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
$filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
$filter-var-only and user_src is not null group by user_src order by sessions desc
```

Dataset Name	Description	Log Category
drilldown-Top-User-By-Sessions-Bar	Drilldown top user by session count	traffic

```
select
  user_src,
  sum(sessions) as sessions
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
(`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
$filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
$filter-var-only and user_src is not null group by user_src order by sessions desc
```

Dataset Name	Description	Log Category
drilldown-Top-User-By-Bandwidth-Table	Drilldown top user by bandwidth usage	traffic

```
select
  user_src,
  sum(bandwidth) as bandwidth
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
(`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
$filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
$filter-var-only and user_src is not null group by user_src having sum(bandwidth)>0
order by bandwidth desc
```

Dataset Name	Description	Log Category
drilldown-Top-User-By-Bandwidth-Bar	Drilldown top user by bandwidth usage	traffic

```
select
  user_src,
  sum(bandwidth) as bandwidth
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`)), ipstr(`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app, user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where $filter-var-only and user_src is not null group by user_src having sum(bandwidth)>0 order by bandwidth desc
```

Dataset Name	Description	Log Category
drilldown-Top-Web-User-By-Visit-Table	Drilldown top web user by visit	traffic

```
select
  user_src,
  sum(requests) as visits
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`)), ipstr(`srcip`)) as user_src, hostname, count(*) as requests from $log-traffic where $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') and hostname is not null group by user_src, hostname order by requests desc)###
    union all
    ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, hostname, count(*) as requests from $log-webfilter where $filter-exclude-var and (eventtype is null or logver>=52) and hostname is not null group by user_src, hostname order by requests desc)###) t where $filter-var-only and user_src is not null group by user_src order by visits desc
```

Dataset Name	Description	Log Category
drilldown-Top-Web-User-By-Visit-Bar	Drilldown top web user by visit	traffic

```
select
  user_src,
  sum(requests) as visits
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`)), ipstr(`srcip`)) as user_src, hostname, count(*) as requests from $log-traffic where $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') and hostname is not null group by user_src, hostname order by requests desc)###
```

```
union all ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src,
hostname, count(*) as requests from $log-webfilter where $filter-exclude-var and
(eventtype is null or logver>=52) and hostname is not null group by user_src,
hostname order by requests desc)###) t where $filter-var-only and user_src is
not null group by user_src order by visits desc
```

Dataset Name	Description	Log Category
drilldown-Top-Website-By-Request-Table	Drilldown top website by request	traffic

```
select
  hostname,
  sum(requests) as visits
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
user_src, hostname, count(*) as requests from $log-traffic where $filter-
exclude-var and logid_to_int(logid) not in (4, 7, 14) and utmevent in
('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter')
and hostname is not null group by user_src, hostname order by requests desc)###
union all ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src,
hostname, count(*) as requests from $log-webfilter where $filter-exclude-var and
(eventtype is null or logver>=52) and hostname is not null group by user_src,
hostname order by requests desc)###) t where $filter-var-only and hostname is
not null group by hostname order by visits desc
```

Dataset Name	Description	Log Category
drilldown-Top-Website-By-Request-Bar	Drilldown top website by request	traffic

```
select
  hostname,
  sum(requests) as visits
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
user_src, hostname, count(*) as requests from $log-traffic where $filter-
exclude-var and logid_to_int(logid) not in (4, 7, 14) and utmevent in
('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter')
and hostname is not null group by user_src, hostname order by requests desc)###
union all ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src,
hostname, count(*) as requests from $log-webfilter where $filter-exclude-var and
(eventtype is null or logver>=52) and hostname is not null group by user_src,
hostname order by requests desc)###) t where $filter-var-only and hostname is
not null group by hostname order by visits desc
```

Dataset Name	Description	Log Category
drilldown-Top-Email-Sender-By-Volume	Drilldown top email sender by volume	traffic

```
select
  sender,
```

```

sum(bandwidth) as volume
from
(
  ###(select sender, recipient, count(*) as requests, sum(coalesce(sentbyte, 0)
  +coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic where $filter-exclude-var
  and logid_to_int(logid) not in (4, 7, 14) and service in ('smtp', 'SMTP',
  '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') and utmevent in ('general-
  email-log', 'spamfilter') group by sender, recipient order by requests desc)###
  union all ###(select `from` as sender, `to` as recipient, count(*) as requests,
  sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-
  emailfilter where $filter-exclude-var and service in ('smtp', 'SMTP', '25/tcp',
  '587/tcp', 'smtps', 'SMTPS', '465/tcp') and eventtype is null group by `from`,
  `to` order by requests desc)###) t where $filter-var-only and sender is not null
  group by sender having sum(bandwidth)>0 order by volume desc

```

Dataset Name	Description	Log Category
drilldown-Top-Email-Send-Recipient-By-Volume	Drilldown top email send recipient by volume	traffic

```

select
  recipient,
  sum(bandwidth) as volume
from
(
  ###(select sender, recipient, count(*) as requests, sum(coalesce(sentbyte, 0)
  +coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic where $filter-exclude-var
  and logid_to_int(logid) not in (4, 7, 14) and service in ('smtp', 'SMTP',
  '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') and utmevent in ('general-
  email-log', 'spamfilter') group by sender, recipient order by requests desc)###
  union all ###(select `from` as sender, `to` as recipient, count(*) as requests,
  sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-
  emailfilter where $filter-exclude-var and service in ('smtp', 'SMTP', '25/tcp',
  '587/tcp', 'smtps', 'SMTPS', '465/tcp') and eventtype is null group by `from`,
  `to` order by requests desc)###) t where $filter-var-only and recipient is not
  null group by recipient having sum(bandwidth)>0 order by volume desc

```

Dataset Name	Description	Log Category
drilldown-Top-Email-Sender-By-Count	Drilldown top email sender by count	traffic

```

select
  sender,
  sum(requests) as requests
from
(
  ###(select sender, recipient, count(*) as requests, sum(coalesce(sentbyte, 0)
  +coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic where $filter-exclude-var
  and logid_to_int(logid) not in (4, 7, 14) and service in ('smtp', 'SMTP',
  '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') and utmevent in ('general-
  email-log', 'spamfilter') group by sender, recipient order by requests desc)###
  union all ###(select `from` as sender, `to` as recipient, count(*) as requests,
  sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-
  emailfilter where $filter-exclude-var and service in ('smtp', 'SMTP', '25/tcp',
  '587/tcp', 'smtps', 'SMTPS', '465/tcp') and eventtype is null group by `from`,

```

```
`to` order by requests desc)###) t where $filter-var-only and sender is not null
group by sender order by requests desc
```

Dataset Name	Description	Log Category
drilldown-Top-Email-Send-Recipient-By-Count	Drilldown top email send recipient by count	traffic

```
select
  recipient,
  sum(requests) as requests
from
  (
    ###(select sender, recipient, count(*) as requests, sum(coalesce(sentbyte, 0)
    +coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic where $filter-exclude-var
    and logid_to_int(logid) not in (4, 7, 14) and service in ('smtp', 'SMTP',
    '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') and utmevent in ('general-
    email-log', 'spamfilter') group by sender, recipient order by requests desc)###
    union all ###(select `from` as sender, `to` as recipient, count(*) as requests,
    sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-
    emailfilter where $filter-exclude-var and service in ('smtp', 'SMTP', '25/tcp',
    '587/tcp', 'smtps', 'SMTPS', '465/tcp') and eventtype is null group by `from`,
    `to` order by requests desc)###) t where $filter-var-only and recipient is not
    null group by recipient order by requests desc
```

Dataset Name	Description	Log Category
drilldown-Top-Email-Recipient-By-Volume	Drilldown top email receiver by volume	traffic

```
select
  recipient,
  sum(bandwidth) as volume
from
  (
    ###(select recipient, sender, count(*) as requests, sum(coalesce(sentbyte, 0)
    +coalesce(rcvdbyte, 0)) as bandwidth from $log where $filter-exclude-var and
    logid_to_int(logid) not in (4, 7, 14) and service in ('pop3', 'POP3', '110/tcp',
    'imap', 'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S',
    '995/tcp') and utmevent in ('general-email-log', 'spamfilter') group by
    recipient, sender order by requests desc)### union all ###(select `to` as
    recipient, `from` as sender, count(*) as requests, sum(coalesce(sentbyte, 0)
    +coalesce(rcvdbyte, 0)) as bandwidth from $log-emailfilter where $filter-
    exclude-var and service in ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP',
    '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S', '995/tcp') and
    eventtype is null group by `to`, `from` order by requests desc)###) t where
    $filter-var-only and recipient is not null group by recipient having sum
    (bandwidth)>0 order by volume desc
```

Dataset Name	Description	Log Category
drilldown-Top-Email-Receive-Sender-By-Volume	Drilldown top email receive sender by volume	traffic

```
select
```

```

sender,
sum(bandwidth) as volume
from
(
  ###(select recipient, sender, count(*) as requests, sum(coalesce(sentbyte, 0)
+coalesce(rcvdbyte, 0)) as bandwidth from $log where $filter-exclude-var and
logid_to_int(logid) not in (4, 7, 14) and service in ('pop3', 'POP3', '110/tcp',
'imap', 'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S',
'995/tcp') and utmevent in ('general-email-log', 'spamfilter') group by
recipient, sender order by requests desc)### union all ###(select `to` as
recipient, `from` as sender, count(*) as requests, sum(coalesce(sentbyte, 0)
+coalesce(rcvdbyte, 0)) as bandwidth from $log-emailfilter where $filter-
exclude-var and service in ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP',
'143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S', '995/tcp') and
eventtype is null group by `to`, `from` order by requests desc)###) t where
$filter-var-only and sender is not null group by sender having sum(bandwidth)>0
order by volume desc

```

Dataset Name	Description	Log Category
drilldown-Top-Email-Recipient-By-Count	Drilldown top email receiver by count	traffic

```

select
  recipient,
  sum(requests) as requests
from
(
  ###(select recipient, sender, count(*) as requests, sum(coalesce(sentbyte, 0)
+coalesce(rcvdbyte, 0)) as bandwidth from $log where $filter-exclude-var and
logid_to_int(logid) not in (4, 7, 14) and service in ('pop3', 'POP3', '110/tcp',
'imap', 'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S',
'995/tcp') and utmevent in ('general-email-log', 'spamfilter') group by
recipient, sender order by requests desc)### union all ###(select `to` as
recipient, `from` as sender, count(*) as requests, sum(coalesce(sentbyte, 0)
+coalesce(rcvdbyte, 0)) as bandwidth from $log-emailfilter where $filter-
exclude-var and service in ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP',
'143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S', '995/tcp') and
eventtype is null group by `to`, `from` order by requests desc)###) t where
$filter-var-only and recipient is not null group by recipient order by requests
desc

```

Dataset Name	Description	Log Category
drilldown-Top-Email-Receive-Sender-By-Count	Drilldown top email receive sender by count	traffic

```

select
  sender,
  sum(requests) as requests
from
(
  ###(select recipient, sender, count(*) as requests, sum(coalesce(sentbyte, 0)
+coalesce(rcvdbyte, 0)) as bandwidth from $log where $filter-exclude-var and
logid_to_int(logid) not in (4, 7, 14) and service in ('pop3', 'POP3', '110/tcp',
'imap', 'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S',

```

```
'995/tcp') and utmevent in ('general-email-log', 'spamfilter') group by
recipient, sender order by requests desc)### union all ###(select `to` as
recipient, `from` as sender, count(*) as requests, sum(coalesce(sentbyte, 0)
+coalesce(rcvdbyte, 0)) as bandwidth from $log-emailfilter where $filter-
exclude-var and service in ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP',
'143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S', '995/tcp') and
eventtype is null group by `to`, `from` order by requests desc)###) t where
$filter-var-only and sender is not null group by sender order by requests desc
```

Dataset Name	Description	Log Category
drilldown-Top-Attack-Destination	Drilldown top attack dest	attack

```
select
  dstip,
  sum(totalnum) as totalnum
from
  ###(select srcip, dstip, count(*) as totalnum from $log where $filter-exclude-var group
  by srcip, dstip order by totalnum desc)### t where $filter-var-only and dstip is
  not null group by dstip order by totalnum desc
```

Dataset Name	Description	Log Category
drilldown-Top-Attack-Source	Drilldown top attack source	attack

```
select
  srcip,
  sum(totalnum) as totalnum
from
  ###(select srcip, dstip, count(*) as totalnum from $log where $filter-exclude-var group
  by srcip, dstip order by totalnum desc)### t where $filter-var-only and srcip is
  not null group by srcip order by totalnum desc
```

Dataset Name	Description	Log Category
drilldown-Top-Attack-List	Drilldown top attack list	attack

```
select
  from_itime(itime) as timestamp,
  attack,
  srcip,
  dstip
from
  ###(select itime, attack, srcip, dstip from $log where $filter-exclude-var order by
  itime desc)### t where $filter-var-only order by itime desc
```

Dataset Name	Description	Log Category
drilldown-Top-Virus	UTM top virus	traffic

```
select
  virus,
  (
```

```

        case when virus like 'Riskware%' then 'Spyware' when virus like 'Adware%' then
            'Adware' else 'Virus' end
    ) as malware_type,
    sum(totalnum) as totalnum
from
(
    ###(select virus, count(*) as totalnum from $log-traffic where $filter and logid_to_
        int(logid) not in (4, 7, 14) and utmevent is not null and virus is not null
        group by virus order by totalnum desc)### union all ###(select virus, count(*)
        as totalnum from $log-virus where $filter and (eventtype is null or logver>=52)
        and nullifna(virus) is not null group by virus order by totalnum desc)###) t
    group by virus, malware_type order by totalnum desc

```

Dataset Name	Description	Log Category
drilldown-Virus-Detail	Drilldown virus detail	traffic

```

select
    from_itime(itime) as timestamp,
    virus,
    user_src,
    dstip,
    hostname,
    recipient
from
(
    ###(select itime, virus, coalesce(nullifna(`user`), nullifna(`unauthuser`)), ipstr
        (`srcip`)) as user_src, dstip, hostname, recipient from $log-traffic where
        $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) and utmevent is
        not null and virus is not null order by itime desc)### union all ###(select
        itime, virus, coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, dstip,
        cast(' ' as char) as hostname, cast(' ' as char) as recipient from $log-virus
        where $filter-exclude-var and (eventtype is null or logver>=52) and nullifna
        (virus) is not null order by itime desc)###) t where $filter-var-only order by
        itime desc

```

Dataset Name	Description	Log Category
user-drilldown-Top-Blocked-Web-Sites-By-Requests	User drilldown top blocked web sites by requests	webfilter

```

select
    hostname,
    sum(requests) as requests
from
    ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, hostname, action,
        count(*) as requests from $log where $filter-exclude-var and hostname is not null
        group by user_src, hostname, action order by requests desc)### t where $filter-var-
        only and action='blocked' group by hostname order by requests desc

```

Dataset Name	Description	Log Category
user-drilldown-Top-Allowed-Web-Sites-By-Requests	User drilldown top allowed web sites by requests	webfilter

```

select
  hostname,
  sum(requests) as requests
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, hostname, action,
    count(*) as requests from $log where $filter-exclude-var and hostname is not null
    group by user_src, hostname, action order by requests desc)### t where $filter-var-
    only and action!='blocked' group by hostname order by requests desc

```

Dataset Name	Description	Log Category
user-drilldown-Top-Blocked-Web-Categories	User drilldown top blocked web categories	webfilter

```

select
  catdesc,
  sum(requests) as requests
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, catdesc, action,
    count(*) as requests from $log where $filter-exclude-var and catdesc is not null
    group by user_src, catdesc, action order by requests desc)### t where $filter-var-
    only and action='blocked' group by catdesc order by requests desc

```

Dataset Name	Description	Log Category
user-drilldown-Top-Allowed-Web-Categories	User drilldown top allowed web categories	webfilter

```

select
  catdesc,
  sum(requests) as requests
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, catdesc, action,
    count(*) as requests from $log where $filter-exclude-var and catdesc is not null
    group by user_src, catdesc, action order by requests desc)### t where $filter-var-
    only and action!='blocked' group by catdesc order by requests desc

```

Dataset Name	Description	Log Category
user-drilldown-Top-Attacks	User drilldown top attacks by name	attack

```

select
  attack,
  sum(attack_count) as attack_count
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, attack, (case when
    severity in ('critical', 'high') then 1 else 0 end) as high_severity, count(*) as
    attack_count from $log where $filter-exclude-var and nullifna(attack) is not null
    group by user_src, attack, high_severity order by attack_count desc)### t where
    $filter-var-only group by attack order by attack_count desc

```

Dataset Name	Description	Log Category
user-drilldown-Top-Attacks-High-Severity	User drilldown top attacks high severity	attack

```
select
  attack,
  sum(attack_count) as attack_count
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, attack, (case when
  severity in ('critical', 'high') then 1 else 0 end) as high_severity, count(*) as
  attack_count from $log where $filter-exclude-var and nullifna(attack) is not null
  group by user_src, attack, high_severity order by attack_count desc)### t where
  $filter-var-only and high_severity=1 group by attack order by attack_count desc
```

Dataset Name	Description	Log Category
user-drilldown-Top-Virus-By-Name	User drilldown top virus	virus

```
select
  virus,
  sum(totalnum) as totalnum
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, virus, count(*) as
  totalnum from $log where $filter-exclude-var and nullifna(virus) is not null group
  by user_src, virus order by totalnum desc)### t where $filter-var-only group by
  virus order by totalnum desc
```

Dataset Name	Description	Log Category
user-drilldown-Top-Virus-Receivers-Over-Email	User drilldown top virus receivers over email	virus

```
select
  receiver,
  sum(totalnum) as totalnum
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, `to` as receiver,
  count(*) as totalnum from $log where $filter-exclude-var and subtype='infected' and
  (service in ('smtp', 'SMTP', '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') or
  service in ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP', '143/tcp', 'imaps', 'IMAPS',
  '993/tcp', 'pop3s', 'POP3S', '995/tcp')) and nullifna(virus) is not null group by
  user_src, receiver order by totalnum desc)### t where $filter-var-only group by
  receiver order by totalnum desc
```

Dataset Name	Description	Log Category
user-drilldown-Count-Spam-Activity-by-Hour-of-Day	User drilldown count spam activity by hour of day	emailfilter

```
select
  hourstamp,
```

```

sum(totalnum) as totalnum
from
###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, $hour_of_day as
hourstamp, count(*) as totalnum from $log where $filter-exclude-var and `to` is not
null and action in ('detected', 'blocked') group by user_src, hourstamp order by
hourstamp)### t where $filter-var-only group by hourstamp order by hourstamp

```

Dataset Name	Description	Log Category
user-drilldown-Top-Spam-Sources	User drilldown top spam sources	emailfilter

```

select
mf_sender,
sum(totalnum) as totalnum
from
###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, `from` as mf_sender,
count(*) as totalnum from $log where $filter-exclude-var and `from` is not null and
action in ('detected', 'blocked') group by user_src, mf_sender order by totalnum
desc)### t where $filter-var-only group by mf_sender order by totalnum desc

```

Dataset Name	Description	Log Category
event-Usage-CPU	Event usage CPU	event

```

select
hourstamp,
cast(
sum(cpu_usage)/ sum(num) as decimal(6, 2)
) as cpu_avg_usage
from
###(select $hour_of_day as hourstamp, sum(cpu) as cpu_usage, count(*) as num from $log
where $filter and subtype='system' and action='perf-stats' group by hourstamp)### t
group by hourstamp order by hourstamp

```

Dataset Name	Description	Log Category
event-Usage-Memory	Event usage memory	event

```

select
hourstamp,
cast(
sum(mem_usage)/ sum(num) as decimal(6, 2)
) as mem_avg_usage
from
###(select $hour_of_day as hourstamp, sum(mem) as mem_usage, count(*) as num from $log
where $filter and subtype='system' and action='perf-stats' group by hourstamp)### t
group by hourstamp order by hourstamp

```

Dataset Name	Description	Log Category
event-Usage-Sessions	Event usage sessions	event

```

select

```

```

hourstamp,
cast(
  sum(sess_usage)/ sum(num) as decimal(10, 2)
) as sess_avg_usage
from
###(select $hour_of_day as hourstamp, sum(totalsession) as sess_usage, count(*) as num
from $log where $filter and subtype='system' and action='perf-stats' group by
hourstamp)### t group by hourstamp order by hourstamp

```

Dataset Name	Description	Log Category
event-Usage-CPU-Sessions	Event usage CPU sessions	event

```

select
  hourstamp,
  cast(
    sum(sess_usage)/ sum(num) as decimal(10, 2)
  ) as sess_avg_usage,
  cast(
    sum(cpu_usage)/ sum(num) as decimal(6, 2)
  ) as cpu_avg_usage
from
###(select $hour_of_day as hourstamp, sum(cpu) as cpu_usage, sum(totalsession) as sess_
usage, count(*) as num from $log where $filter and subtype='system' and
action='perf-stats' group by hourstamp)### t group by hourstamp order by hourstamp

```

Dataset Name	Description	Log Category
App-Risk-Top-Users-By-Bandwidth	Top users by bandwidth usage	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  srcip,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvdbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out
from
$log
where
$filter
and logid_to_int(logid) not in (4, 7, 14)
and srcip is not null
group by
  user_src,
  srcip

```

```

having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
App-Risk-Top-User-Source-By-Sessions	Application risk top user source by session count	traffic

```

select
  srcip,
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  count(*) as sessions
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and srcip is not null
group by
  srcip,
  user_src
order by
  sessions desc

```

Dataset Name	Description	Log Category
App-Risk-Top-Users-By-Reputation-Scores-Bar	Application risk reputation top users by scores	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  sum(crscore % 65536) as scores
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and crscore is not null
group by
  user_src
having
  sum(crscore % 65536)> 0
order by

```

scores desc

Dataset Name	Description	Log Category
App-Risk-Top-Devices-By-Reputation-Scores	Application risk reputation top devices by scores	traffic

```
select
  devtype,
  coalesce(
    nullifna(`srcname`),
    nullifna(`srcmac`),
    ipstr(`srcip`)
  ) as dev_src,
  sum(crscore % 65536) as scores
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and crscore is not null
group by
  devtype,
  dev_src
having
  sum(crscore % 65536) > 0
order by
  scores desc
```

Dataset Name	Description	Log Category
App-Risk-Application-Usage-By-Category-With-Pie	Application risk application usage by category	traffic

```
select
  appcat,
  sum(
    coalesce(sentbyte, 0) + coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(appcat) is not null
group by
  appcat
order by
  bandwidth desc
```

Dataset Name	Description	Log Category
App-Risk-App-Usage-by-Category	Application risk application usage by category	traffic

```

select
  appcat,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(appcat) is not null
group by
  appcat
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
Top-20-Categories-By-Bandwidth	Webfilter categories by bandwidth usage	webfilter

```

select
  catdesc,
  sum(bandwidth) as bandwidth
from
  ###(select catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from
  $log-traffic where $filter and logid_to_int(logid) not in (4, 7, 14) and
  ((logver>=52 and countweb>0) or ((logver is null) and utmevent in ('webfilter',
  'banned-word', 'web-content', 'command-block', 'script-filter')))) and catdesc is
  not null group by catdesc order by bandwidth desc)### t group by catdesc order by
  bandwidth desc

```

Dataset Name	Description	Log Category
App-Risk-Key-Applications-Crossing-The-Network	Application risk application activity	traffic

```

select
  app_group_name(app) as app_group,
  appcat,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  count(*) as num_session
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(app) is not null
group by
  app_group,
  appcat
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
App-Risk-Applications-Running-Over-HTTP	Application risk applications running over HTTP	traffic

```

select
  app_group_name(app) as app_group,
  service,
  count(*) as sessions,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(app) is not null
  and service in (
    '80/tcp', '443/tcp', 'HTTP', 'HTTPS',
    'http', 'https'
  )
group by
  app_group,
  service
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
  )> 0
order by
  bandwidth desc
    
```

Dataset Name	Description	Log Category
App-Risk-Top-Web-Sites-Visited-By-Network-Users-Pie-Cha	Application risk web browsing summary category	traffic

```

select
  catdesc,
  sum(num_sess) as num_sess,
  sum(bandwidth) as bandwidth
from
  ###(select catdesc, count(*) as num_sess, sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0)) as bandwidth from $log-traffic where $filter and logid_to_int(logid) not in (4, 7, 14) and ((logver>=52 and countweb>0) or ((logver is null) and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter'))) and catdesc is not null group by catdesc order by num_sess desc)### t group by catdesc order by num_sess desc
    
```

Dataset Name	Description	Log Category
App-Risk-Top-Web-Sites-Visited-By-Network-Users	Application risk web browsing summary category	traffic

```

select
  catdesc,
  sum(num_sess) as num_sess,
  sum(bandwidth) as bandwidth
from
  ###(select catdesc, count(*) as num_sess, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte,
  0)) as bandwidth from $log-traffic where $filter and logid_to_int(logid) not in (4,
  7, 14) and ((logver>=52 and countweb>0) or ((logver is null) and utmevent in
  ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter'))) and
  catdesc is not null group by catdesc order by num_sess desc)### t group by catdesc
  order by num_sess desc

```

Dataset Name	Description	Log Category
App-Risk-Web-Browsing-Hostname-Category	Application risk web browsing activity hostname category	traffic

```

select
  domain,
  catdesc,
  sum(visits) as visits
from
  (
    ###(select coalesce(nullifna(hostname), ipstr(`dstip`)) as domain, catdesc, count(*)
    as visits from $log-traffic where $filter and logid_to_int(logid) not in (4, 7,
    14) and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block',
    'script-filter') and catdesc is not null group by domain, catdesc order by
    visits desc)### union all ###(select coalesce(nullifna(hostname), ipstr
    (`dstip`)) as domain, catdesc, count(*) as visits from $log-webfilter where
    $filter and (eventtype is null or logver>=52) and catdesc is not null group by
    domain, catdesc order by visits desc)###) t group by domain, catdesc order by
    visits desc

```

Dataset Name	Description	Log Category
Top-Destination-Countries-By-Browsing-Time	Traffic top destination countries by browsing time	traffic

```

select
  dstcountry,
  sum(delta) as browsetime,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  ###(select dstcountry, sum($browse_time) as delta, sum(coalesce(sentbyte, 0)+coalesce
  (rcvdbyte, 0)) as bandwidth, sum(coalesce(rcvdbyte, 0)) as traffic_in, sum(coalesce
  (sentbyte, 0)) as traffic_out from $log where $filter and logid_to_int(logid) not
  in (4, 7, 14) group by dstcountry having sum($browse_time)>0 order by delta desc)
  ### t group by dstcountry order by browsetime desc

```

Dataset Name	Description	Log Category
Top-Destination-Countries-By-Browsing-Time-Enhanced	Traffic top destination countries by browsing time enhanced	traffic

```

select
  dstcountry,
  sum(delta) as browsetime,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  ###(select dstcountry, sum($browse_time2) as delta, sum(coalesce(sentbyte, 0)+coalesce
    (rcvdbyte, 0)) as bandwidth, sum(coalesce(rcvdbyte, 0)) as traffic_in, sum(coalesce
    (sentbyte, 0)) as traffic_out from $log where $filter and logid_to_int(logid) not
    in (4, 7, 14) group by dstcountry having sum($browse_time2)>0 order by delta desc)
  ### t group by dstcountry order by browsetime desc

```

Dataset Name	Description	Log Category
App-Risk-Traffic-Top-Hostnames-By-Browsing-Time	Traffic top domains by browsing time	traffic

```

select
  hostname,
  sum($browse_time) as browsetime,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvdbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and hostname is not null
group by
  hostname
having
  sum($browse_time)> 0
order by
  browsetime desc

```

Dataset Name	Description	Log Category
App-Risk-Traffic-Top-Hostnames-By-Browsing-Time-Enhanced	Traffic top domains by browsing time enhanced	traffic

```

select
  hostname,
  sum($browse_time2) as browsetime,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and hostname is not null
group by
  hostname
having
  sum($browse_time2)> 0
order by
  browsetime desc

```

Dataset Name	Description	Log Category
App-Risk-Top-Threat-Vectors-Crossing-The-Network	Application risk top threat vectors	attack

```

select
  severity,
  count(*) as totalnum
from
  $log
where
  $filter
group by
  severity
order by
  totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Top-Critical-Threat-Vectors-Crossing-The-Network	Application risk top critical threat vectors	attack

```

select
  attack,
  severity,
  ref,
  count(*) as totalnum
from
  $log
where

```

```

$filter
and severity = 'critical'
and nullifna(attack) is not null
group by
  attack,
  severity,
  ref
order by
  totalnum desc
    
```

Dataset Name	Description	Log Category
App-Risk-Top-High-Threat-Vectors-Crossing-The-Network	Application risk top high threat vectors	attack

```

select
  attack,
  severity,
  ref,
  count(*) as totalnum
from
  $log
where
  $filter
  and severity = 'high'
  and nullifna(attack) is not null
group by
  attack,
  severity,
  ref
order by
  totalnum desc
    
```

Dataset Name	Description	Log Category
App-Risk-Top-Medium-Threat-Vectors-Crossing-The-Network	Application risk top medium threat vectors	attack

```

select
  attack,
  severity,
  ref,
  count(*) as totalnum
from
  $log
where
  $filter
  and severity = 'medium'
  and nullifna(attack) is not null
group by
  attack,
  severity,
  ref
order by
  totalnum desc
    
```

Dataset Name	Description	Log Category
App-Risk-Top-Low-Threat-Vectors-Crossing-The-Network	Application risk top low threat vectors	attack

```

select
  attack,
  severity,
  ref,
  count(*) as totalnum
from
  $log
where
  $filter
  and severity = 'low'
  and nullifna(attack) is not null
group by
  attack,
  severity,
  ref
order by
  totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Top-Info-Threat-Vectors-Crossing-The-Network	Application risk top info threat vectors	attack

```

select
  attack,
  severity,
  ref,
  count(*) as totalnum
from
  $log
where
  $filter
  and severity = 'info'
  and nullifna(attack) is not null
group by
  attack,
  severity,
  ref
order by
  totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Top-Virus-By-Name	UTM top virus	traffic

```

select
  virus,

```

```
(
  case when virus like 'Riskware%' then 'Spyware' when virus like 'Adware%' then
    'Adware' else 'Virus' end
) as malware_type,
sum(totalnum) as totalnum
from
(
  ###(select virus, count(*) as totalnum from $log-traffic where $filter and logid_to_
    int(logid) not in (4, 7, 14) and utmevent is not null and virus is not null
  group by virus order by totalnum desc)### union all ###(select virus, count(*)
    as totalnum from $log-virus where $filter and (eventtype is null or logver>=52)
    and nullifna(virus) is not null group by virus order by totalnum desc)###) t
  group by virus, malware_type order by totalnum desc
```

Dataset Name	Description	Log Category
App-Risk-Top-Virus-Victim	UTM top virus user	traffic

```
select
  user_src,
  sum(totalnum) as totalnum
from
(
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
    user_src, count(*) as totalnum from $log-traffic where $filter and logid_to_int
    (logid) not in (4, 7, 14) and utmevent is not null and virus is not null group
    by user_src order by totalnum desc)### union all ###(select coalesce(nullifna
    (`user`), ipstr(`srcip`)) as user_src, count(*) as totalnum from $log-virus
    where $filter and (eventtype is null or logver>=52) and nullifna(virus) is not
    null group by user_src order by totalnum desc)###) t group by user_src order by
    totalnum desc
```

Dataset Name	Description	Log Category
App-Risk-Data-Loss-Prevention-Type-Events	Application risk DLP UTM event	traffic

```
select
  utmsubtype,
  sum(number) as number
from
(
  ###(select utmsubtype, count(*) as number from $log-traffic where $filter and logid_
    to_int(logid) not in (4, 7, 14) and utmevent='dlp' and utmsubtype is not null
  group by utmsubtype order by number desc)### union all ###(select subtype::text
    as utmsubtype, count(*) as number from $log-dlp where $filter and subtype is not
    null group by subtype order by number desc)###) t group by utmsubtype order by
    number desc
```

Dataset Name	Description	Log Category
App-Risk-Vulnerability-Discovered	Application risk vulnerability discovered	netscan

```
select
  vuln,
```

```

vulnref as ref,
vulncat,
severity,
count(*) as totalnum
from
$log
where
$filter
and vuln is not null
group by
vuln,
vulnref,
vulncat,
severity
order by
totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Malware-Discovered	Application risk virus discovered	traffic

```

select
dom,
sum(totalnum) as totalnum
from
(
###(select $DAY_OF_MONTH as dom, count(*) as totalnum from $log-traffic where
$filter and logid_to_int(logid) not in (4, 7, 14) and utmevent is not null and
virus is not null group by dom order by totalnum desc)### union all ###(select
$DAY_OF_MONTH as dom, count(*) as totalnum from $log-virus where $filter and
nullifna(virus) is not null and (eventtype is null or logver>=52) group by dom
order by totalnum desc)###) t group by dom order by totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Breakdown-Of-Risk-Applications	Application risk breakdown of risk applications	traffic

```

select
unnest(
string_to_array(behavior, ',')
) as d_behavior,
count(*) as number
from
$log t1
inner join app_mdata t2 on t1.appid = t2.id
where
$filter
and logid_to_int(logid) not in (4, 7, 14)
group by
d_behavior
order by
number desc

```

Dataset Name	Description	Log Category
App-Risk-Number-Of-Applications-By-Risk-Behavior	Application risk number of applications by risk behavior	traffic

```

select
  risk as d_risk,
  unnest(
    string_to_array(behavior, ',')
  ) as f_behavior,
  count(*) as number
from
  $log t1
  inner join app_mdata t2 on t1.appid = t2.id
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  risk,
  f_behavior
order by
  risk desc,
  number desc

```

Dataset Name	Description	Log Category
App-Risk-High-Risk-Application	Application risk high risk application	traffic

```

select
  risk as d_risk,
  behavior as d_behavior,
  t2.id,
  t2.name,
  t2.app_cat,
  t2.technology,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  count(*) as sessions
from
  $log t1
  inner join app_mdata t2 on t1.appid = t2.id
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and behavior is not null
group by
  t2.id
order by
  risk desc,
  sessions desc

```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Severe-High-Risk-Application	Severe and high risk applications	traffic

```
select
  appcat,
  count(distinct app) as total_num
from
  ###(select appcat, app from $log where $filter and app is not null and appcat is not
  null and logid_to_int(logid) not in (4, 7, 14) and apprisk in ('critical', 'high')
  group by appcat, app)### t group by appcat order by total_num desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Threats-Prevention	Threat Prevention	traffic

```
select
  threat_name,
  sum(total_num) as total_num
from
  (
    ###(select cast('Malware & Botnet C&C' as char(32)) as threat_name, count(*) as
    total_num from $log-app-ctrl where $filter and lower(appcat)='botnet')### union
    all ###(select cast('Malware & Botnet C&C' as char(32)) as threat_name, count(*)
    as total_num from $log-virus where $filter and nullifna(virus) is not null)###
    union all ###(select cast('Malicious & Phishing Sites' as char(32)) as threat_
    name, count(*) as total_num from $log-webfilter where $filter and cat in (26,
    61)### union all ###(select cast('Critical & High Intrusion Attacks' as char
    (32)) as threat_name, count(*) as total_num from $log-attack where $filter and
    severity in ('critical', 'high'))###) t group by threat_name having sum(total_
    num) > 0 order by total_num desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Application-Vulnerability	Application vulnerabilities discovered	attack

```
select
  attack,
  ref,
  vuln_type,
  cve,
  severity_number,
  count(distinct dstip) as victims,
  count(distinct srcip) as sources,
  sum(totalnum) as totalnum
from
  ###(select attack, ref, vuln_type, t2.cve, (case when t1.severity='critical' then 5
  when t1.severity='high' then 4 when t1.severity='medium' then 3 when
  t1.severity='low' then 2 when t1.severity='info' then 1 else 0 end) as severity_
  number, dstip, srcip, count(*) as totalnum from $log t1 left join ips_mdata t2 on
  t1.attack=t2.name where $filter and nullifna(attack) is not null and t1.severity is
```

```
not null group by attack, ref, vuln_type, t2.cve, t1.severity, dstip, srcip )### t
group by attack, ref, vuln_type, severity_number, cve order by severity_number
desc, totalnum desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Breakdown-Of-High-Risk-Application	Severe and high risk applications	traffic

```
select
  appcat,
  count(distinct app) as total_num
from
  ###(select appcat, app from $log where $filter and app is not null and appcat is not
  null and logid_to_int(logid) not in (4, 7, 14) and apprisk in ('critical', 'high')
  group by appcat, app)### t group by appcat order by total_num desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Top-20-High-Risk-Application	Application risk high risk application	traffic

```
select
  d_risk,
  count(distinct f_user) as users,
  id,
  name,
  app_cat,
  technology,
  sum(bandwidth) as bandwidth,
  sum(sessions) as sessions
from
  ###(select risk as d_risk, coalesce(nullifna(t1.`user`), nullifna(t1.`unauthuser`),
  ipstr(t1.`srcip`)) as f_user, t2.id , t2.name, t2.app_cat, t2.technology, sum
  (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth, count(*) as sessions
  from $log t1 inner join app_mdata t2 on t1.appid=t2.id where $filter and risk>='4'
  and logid_to_int(logid) not in (4, 7, 14) group by f_user, t2.id , t2.name, t2.app_
  cat, t2.technology, risk)### t group by id, d_risk, name, app_cat, technology order
  by d_risk desc, sessions desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-High-Risk-Application-Behavioral	Application Behavioral Characteristics	traffic

```
select
  behavior,
  round(
    sum(total_num) * 100 / sum(
      sum(total_num)
    ) over (),
    2
  ) as percentage
from
```

```
###(select (case when lower(appcat)='botnet' then 'malicious' when lower(appcat)
='remote.access' then 'tunneling' when lower(appcat) in ('storage.backup',
'video/audio') then 'bandwidth-consuming' when lower(appcat)='p2p' then 'peer-to-
peer' when lower(appcat)='proxy' then 'proxy' end) as behavior, count(*) as total_
num from $log where $filter and lower(appcat) in ('botnet', 'remote.access',
'storage.backup', 'video/audio', 'p2p', 'proxy') and logid_to_int(logid) not in (4,
7, 14) and apprisk in ('critical', 'high') group by appcat)### t group by behavior
order by percentage desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Key-Application-Crossing-The-Network	Key Application Crossing The Network	traffic

```
select
  d_risk,
  count(distinct f_user) as users,
  id,
  name,
  app_cat,
  technology,
  sum(bandwidth) as bandwidth,
  sum(sessions) as sessions
from
  ###(select risk as d_risk, coalesce(nullifna(t1.`user`), nullifna(t1.`unauthuser`),
  ipstr(t1.`srcip`)) as f_user, t2.id, t2.name, t2.app_cat, t2.technology, sum
  (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth, count(*) as sessions
  from $log t1 inner join app_mdata t2 on t1.appid=t2.id where $filter and logid_to_
  int(logid) not in (4, 7, 14) group by f_user, t2.id, t2.name, t2.app_cat,
  t2.technology, risk)### t group by id, name, app_cat, technology, d_risk order by
  bandwidth desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Risk-Application-Usage-By-Category-With-Pie	Application risk application usage by category	traffic

```
select
  appcat,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(appcat) is not null
group by
  appcat
order by
  bandwidth desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Category-Breakdown-By-Bandwidth	Category breakdown of all applications, sorted by bandwidth	traffic

```
select
  appcat,
  count(distinct app) as app_num,
  count(distinct f_user) as user_num,
  sum(bandwidth) as bandwidth,
  sum(num_session) as num_session
from
  ###(select appcat, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
    (`srcip`)) as f_user, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as
    bandwidth, count(*) as num_session from $log where $filter and logid_to_int(logid)
    not in (4, 7, 14) and nullifna(appcat) is not null group by appcat, app, f_user)###
  t group by appcat order by bandwidth desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Top-Web-Applications-by-Bandwidth	Top 25 Web Categories by Bandwidth	traffic

```
select
  d_risk,
  id,
  name,
  technology,
  count(distinct f_user) as user_num,
  sum(bandwidth) as bandwidth,
  sum(num_session) as num_session
from
  ###(select risk as d_risk, t2.id, t2.name, t2.technology, coalesce(nullifna(t1.`user`),
    nullifna(t1.`unauthuser`), ipstr(t1.`srcip`)) as f_user, sum(coalesce(sentbyte, 0)
    +coalesce(rcvdbyte, 0)) as bandwidth, count(*) as num_session from $log t1 inner
    join app_mdata t2 on t1.appid=t2.id where $filter and logid_to_int(logid) not in
    (4, 7, 14) and nullifna(app) is not null and service in ('80/tcp', '443/tcp',
    'HTTP', 'HTTPS', 'http', 'https') group by risk, t2.id, t2.name, t2.technology, f_
    user)###
  t group by d_risk, id, name, technology order by bandwidth desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Top-Web-Categories-Visited	Top 25 Web Categories Visited	traffic

```
select
  catdesc,
  count(distinct f_user) as user_num,
  sum(sessions) as sessions,
  sum(bandwidth) as bandwidth
from
  ###(select catdesc, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`))
    as f_user, count(*) as sessions, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))
```

```
as bandwidth from $log-traffic where $filter and catdesc is not null and logid_to_int(logid) not in (4, 7, 14) and ((logver>=52 and countweb>0) or ((logver is null) and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter')))) group by f_user, catdesc order by sessions desc)### t group by catdesc order by sessions desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Common-Virus-Botnet-Spyware	Common virus disvocered, the botnet communications and the spyware/adware	traffic

```
select
  virus_s as virus,
  (
    case when lower(appcat)= 'botnet' then 'Botnet C&C' else (
      case when virus_s like 'Riskware%' then 'Spyware' when virus_s like 'Adware%'
        then 'Adware' else 'Virus' end
    ) end
  ) as malware_type,
  appid,
  app,
  count(distinct dstip) as victims,
  count(distinct srcip) as source,
  sum(total_num) as total_num
from
  (
    ###(select app as virus_s, appcat, appid, app, dstip, srcip, count(*) as total_num
      from $log-traffic where $filter and logid_to_int(logid) not in (4, 7, 14) and
        lower(appcat)='botnet' group by virus_s, appcat, appid, dstip, srcip, app order
        by total_num desc)### union all ###(select unnest(string_to_array(virus, ','))
      as virus_s, appcat, appid, app, dstip, srcip, count(*) as total_num from $log-
        traffic where $filter and logid_to_int(logid) not in (4, 7, 14) and virus is not
        null group by virus_s, appcat, appid, dstip, srcip, app order by total_num desc)
    ###) t group by virus, appid, app, malware_type order by total_num desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Zero-Day-Detected-On-Network	Zero-day malware detected on the network	traffic

```
select
  virus_s,
  appid,
  app,
  count(distinct dstip) as victims,
  count(distinct srcip) as source,
  sum(total_num) as total_num
from
  ###(select unnest(string_to_array(virus, ',')) as virus_s, appid, app, dstip, srcip,
    count(*) as total_num from $log where $filter and logid_to_int(logid) not in (4, 7,
    14) and virus like '%PossibleThreat.SB%' group by virus_s, dstip, srcip, appid, app
  )### t where virus_s like '%PossibleThreat.SB%' group by virus_s, appid, app order
  by total_num desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Files-Analyzed-By-FortiCloud-Sandbox	Files analyzed by FortiCloud Sandbox	virus

```
select
  $DAY_OF_MONTH as dom,
  count(*) as total_num
from
  $log
where
  $filter
  and nullifna(filename) is not null
  and logid_to_int(logid)= 9233
group by
  dom
order by
  dom
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Malicious-Files-Detected-By-FortiCloud-Sandbox	Files detected by FortiCloud Sandbox	virus

```
select
  filename,
  analyticscksum,
  count(distinct dstip) as victims,
  count(distinct srcip) as source
from
  ###(select filename, analyticscksum, dstip, srcip from $log where $filter and filename
  is not null and logid_to_int(logid)=9233 and analyticscksum is not null group by
  filename, analyticscksum, srcip, dstip)### t group by filename, analyticscksum
order by victims desc, source desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-File-Transferred-By-Application	File transferred by applications on the network	app-ctrl

```
select
  appid,
  app,
  filename,
  cloudaction,
  max(filesize) as filesize
from
  $log
where
  $filter
  and filesize is not null
  and clouduser is not null
```

```

    and filename is not null
  group by
    cloudaction,
    appid,
    app,
    filename
  order by
    filesize desc

```

Dataset Name	Description	Log Category
appctrl-Top-Blocked-SCCP-Callers	Appctrl top blocked SCCP callers	app-ctrl

```

select
  srcname as caller,
  count(*) as totalnum
from
  $log
where
  $filter
  and lower(appcat)= 'voip'
  and app = 'sccp'
  and action = 'block'
  and srcname is not null
group by
  caller
order by
  totalnum desc

```

Dataset Name	Description	Log Category
appctrl-Top-Blocked-SIP-Callers	Appctrl top blocked SIP callers	app-ctrl

```

select
  srcname as caller,
  count(*) as totalnum
from
  $log
where
  $filter
  and srcname is not null
  and lower(appcat)= 'voip'
  and app = 'sip'
  and action = 'block'
group by
  caller
order by
  totalnum desc

```

Dataset Name	Description	Log Category
security-Top20-High-Risk-Application-In-Use	High risk application in use	traffic

```
select
  d_risk,
  count(distinct f_user) as users,
  name,
  app_cat,
  technology,
  sum(bandwidth) as bandwidth,
  sum(sessions) as sessions
from
  ###(select risk as d_risk, coalesce(nullifna(t1.`user`), nullifna(t1.`unauthuser`),
  ipstr(t1.`srcip`)) as f_user, t2.name, t2.app_cat, t2.technology, sum(coalesce
  (sentbyte, 0)+coalesce(rcvbyte, 0)) as bandwidth, count(*) as sessions from $log
  t1 inner join app_mdata t2 on t1.appid=t2.id where $filter and risk>='4' and logid_
  to_int(logid) not in (4, 7, 14) group by f_user, t2.name, t2.app_cat,
  t2.technology, risk)### t group by d_risk, name, app_cat, technology order by d_
  risk desc, sessions desc
```

Dataset Name	Description	Log Category
security-High-Risk-Application-By-Category	High risk application by category	traffic

```
select
  app_cat,
  count(distinct app) as total_num
from
  ###(select app_cat, app from $log t1 inner join app_mdata t2 on t1.appid=t2.id where
  $filter and risk>='4' and logid_to_int(logid) not in (4, 7, 14) group by app_cat,
  app)### t group by app_cat order by total_num desc
```

Dataset Name	Description	Log Category
security-Top10-Application-Categories-By-Bandwidth	Application risk application usage by category	traffic

```
select
  appcat,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(appcat) is not null
group by
  appcat
order by
  bandwidth desc
```

Dataset Name	Description	Log Category
Security-Category-Breakdown-By-Bandwidth	Category breakdown of all applications, sorted by bandwidth	traffic

```

select
  appcat,
  count(distinct app) as app_num,
  count(distinct f_user) as user_num,
  sum(bandwidth) as bandwidth,
  sum(num_session) as num_session
from
  ###(select appcat, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
    (`srcip`)) as f_user, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as
    bandwidth, count(*) as num_session from $log where $filter and logid_to_int(logid)
    not in (4, 7, 14) and nullifna(appcat) is not null group by appcat, app, f_user)###
  t group by appcat order by bandwidth desc

```

Dataset Name	Description	Log Category
security-Top25-Web-Applications-By-Bandwidth	Top Web Applications by Bandwidth	traffic

```

select
  d_risk,
  name,
  app_cat,
  technology,
  count(distinct f_user) as users,
  sum(bandwidth) as bandwidth,
  sum(num_session) as sessions
from
  ###(select risk as d_risk, t2.app_cat, t2.name, t2.technology, coalesce(nullifna
    (t1.`user`), nullifna(t1.`unauthuser`), ipstr(t1.`srcip`)) as f_user, sum(coalesce
    (sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth, count(*) as num_session from
    $log t1 inner join app_mdata t2 on t1.appid=t2.id where $filter and logid_to_int
    (logid) not in (4, 7, 14) and nullifna(app) is not null and service in ('80/tcp',
    '443/tcp', 'HTTP', 'HTTPS', 'http', 'https') group by risk, t2.app_cat, t2.name,
    t2.technology, f_user)### t group by d_risk, name, app_cat, technology order by
    bandwidth desc

```

Dataset Name	Description	Log Category
Security-Top25-Web-Categories-Visited	Top 25 Web Categories Visited	traffic

```

select
  catdesc,
  count(distinct f_user) as user_num,
  sum(sessions) as sessions,
  sum(bandwidth) as bandwidth
from

```

```
###(select catdesc, coalesce(nullifna(`user`), nullifna(`unauthuser`)), ipstr(`srcip`))
as f_user, count(*) as sessions, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))
as bandwidth from $log-traffic where $filter and catdesc is not null and logid_to_
int(logid) not in (4, 7, 14) and ((logver>=52 and countweb>0) or ((logver is null)
and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block',
'script-filter'))) group by f_user, catdesc order by sessions desc)### t group by
catdesc order by sessions desc
```

Dataset Name	Description	Log Category
security-Top25-Malware-Virus-Botnet-Spyware	Malware: viruses, Bots, Spyware/Adware	traffic

```
select
virus_s as virus,
(
case when lower(appcat)= 'botnet' then 'Botnet C&C' else (
case when virus_s like 'Riskware%' then 'Spyware' when virus_s like 'Adware%'
then 'Adware' else 'Virus' end
) end
) as malware_type,
count(distinct dstip) as victims,
count(distinct srcip) as source,
sum(total_num) as total_num
from
(
###(select app as virus_s, appcat, dstip, srcip, count(*) as total_num from $log-
traffic where $filter and logid_to_int(logid) not in (4, 7, 14) and lower
(appcat)='botnet' group by virus_s, appcat, dstip, srcip order by total_num
desc)### union all ###(select unnest(string_to_array(virus, ',')) as virus_s,
appcat, dstip, srcip, count(*) as total_num from $log-traffic where $filter and
logid_to_int(logid) not in (4, 7, 14) and virus is not null group by virus_s,
appcat, dstip, srcip order by total_num desc)###) t group by virus, malware_type
order by total_num desc
```

Dataset Name	Description	Log Category
security-Application-Vulnerability	Application vulnerabilities discovered	attack

```
select
attack,
ref,
vuln_type,
cve,
severity_number,
count(distinct dstip) as victims,
count(distinct srcip) as sources,
sum(totalnum) as totalnum
from
###(select attack, ref, vuln_type, t2.cve, (case when t1.severity='critical' then 5
when t1.severity='high' then 4 when t1.severity='medium' then 3 when
t1.severity='low' then 2 when t1.severity='info' then 1 else 0 end) as severity_
number, dstip, srcip, count(*) as totalnum from $log t1 left join ips_mdata t2 on
t1.attack=t2.name where $filter and nullifna(attack) is not null and t1.severity is
not null group by attack, ref, vuln_type, t2.cve, t1.severity, dstip, srcip )### t
```

```
group by attack, ref, vuln_type, severity_number, cve order by severity_number
desc, totalnum desc
```

Dataset Name	Description	Log Category
security-Files-Analyzed-By-FortiCloud-Sandbox	Files analyzed by FortiCloud Sandbox	virus

```
select
  $day_of_week as dow,
  count(*) as total_num
from
  $log
where
  $filter
  and nullifna(filename) is not null
  and logid_to_int(logid)= 9233
group by
  dow
order by
  dow
```

Dataset Name	Description	Log Category
Security-Zero-Day-Detected-On-Net-work	Zero-day malware detected on the network	traffic

```
select
  virus_s,
  app,
  count(distinct dstip) as victims,
  count(distinct srcip) as source,
  sum(total_num) as total_num
from
  ###(select unnest(string_to_array(virus, ',')) as virus_s, app, dstip, srcip, count(*)
  as total_num from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and
  virus like '%PossibleThreat.SB%' group by virus_s, dstip, srcip, app)### t group by
  virus_s, app order by total_num desc
```

Dataset Name	Description	Log Category
security-Data-Loss-Incidents-By-Severity	Data loss incidents summary by severity	dlp

```
select
  initcap(severity :: text) as s_severity,
  count(*) as total_num
from
  $log
where
  $filter
  and severity is not null
group by
  s_severity
```

```
order by
total_num desc
```

Dataset Name	Description	Log Category
security-Data-Loss-Files-By-Service	Data Lass Files By Service	dlp

```
select
filename,
(
case direction when 'incoming' then 'Download' when 'outgoing' then 'Upload' end
) as action,
max(filesize) as filesize,
service
from
$log
where
$filter
and filesize is not null
group by
filename,
direction,
service
order by
filesize desc
```

Dataset Name	Description	Log Category
security-Endpoint-Security-Events-Summary	Endpoint Security Events summary	fct-traffic

```
select
(
case utmevent when 'antivirus' then 'Malware incidents' when 'webfilter' then
'Malicious/phishing websites' when 'appfirewall' then 'Risk applications' when
'dlp' then 'Data loss incidents' when 'netscan' then 'Vulnerability detected'
else 'Others' end
) as events,
count(*) as total_num
from
$log
where
$filter
and utmevent is not null
group by
events
order by
total_num desc
```

Dataset Name	Description	Log Category
security-Top-Endpoing-Running-High-Risk-Application	Endpoints Running High Risk Application	fct-traffic

```

select
  coalesce(
    nullifna(`user`),
    ipstr(`srcip`),
    'Unknown'
  ) as f_user,
  coalesce(
    nullifna(hostname),
    'Unknown'
  ) as host_name,
  threat as app,
  t2.app_cat as appcat,
  risk as d_risk
from
  $log t1
  inner join app_mdata t2 on t1.threat = t2.name
where
  $filter
  and utmevent = 'appfirewall'
  and risk >= '4'
group by
  f_user,
  host_name,
  t1.threat,
  t2.app_cat,
  t2.risk
order by
  risk desc

```

Dataset Name	Description	Log Category
security-Top-Endpoints-Infected-With-Malware	Endpoints Infected With Malware	fct-event

```

select
  coalesce(
    nullifna(`user`),
    ipstr(`deviceip`),
    'Unknown'
  ) as f_user,
  coalesce(
    nullifna(hostname),
    'Unknown'
  ) as host_name,
  virus,
  file
from
  $log
where
  $filter
  and clientfeature = 'av'
  and virus is not null
group by
  f_user,
  host_name,
  virus,

```

file

Dataset Name	Description	Log Category
security-Top-Endpoints-With-Web-Violateions	Endpoints With Web Violateions	fct-traffic

```
select
  f_user,
  host_name,
  remotename,
  sum(total_num) as total_num
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as f_user, coalesce(nullifna
    (hostname), 'Unknown') as host_name, remotename, count(*) as total_num from $log
    where $filter and utmevent='webfilter' and remotename is not null group by f_user,
    host_name, remotename order by total_num desc)### t group by f_user, host_name,
    remotename order by total_num desc
```

Dataset Name	Description	Log Category
security-Top-Endpoints-With-Data-Loss-Incidents	Endpoints With Data Loss Incidents	fct-event

```
select
  f_user,
  host_name,
  msg,
  sum(total_num) as total_num
from
  ###(select coalesce(nullifna(`user`), ipstr(`deviceip`), 'Unknown') as f_user, coalesce
    (nullifna(hostname), 'Unknown') as host_name, msg, count(*) as total_num from $log
    where $filter and clientfeature='dlp' group by f_user, host_name, msg order by
    total_num desc)### t group by f_user, host_name, msg order by total_num desc
```

Dataset Name	Description	Log Category
content-Count-Total-SCCP-Call-Registrations-by-Hour-of-Day	Content count total SCCP call registrations by hour of day	content

```
select
  $hour_of_day as hourstamp,
  count(*) as totalnum
from
  $log
where
  $filter
  and proto = 'sccp'
  and kind = 'register'
group by
  hourstamp
order by
  hourstamp
```

Dataset Name	Description	Log Category
content-Count-Total-SCCP-Calls-Duration-by-Hour-of-Day	Content count total SCCP calls duration by hour of day	content

```

select
  $hour_of_day as hourstamp,
  sum(duration) as sccp_usage
from
  $log
where
  $filter
  and proto = 'sccp'
  and kind = 'call-info'
  and status = 'end'
group by
  hourstamp
order by
  hourstamp

```

Dataset Name	Description	Log Category
content-Count-Total-SCCP-Calls-per-Status	Content count total SCCP calls per status	content

```

select
  status,
  count(*) as totalnum
from
  $log
where
  $filter
  and proto = 'sccp'
  and kind = 'call-info'
group by
  status
order by
  totalnum desc

```

Dataset Name	Description	Log Category
content-Count-Total-SIP-Call-Registrations-by-Hour-of-Day	Content count total SIP call registrations by hour of day	content

```

select
  $hour_of_day as hourstamp,
  count(*) as totalnum
from
  $log
where
  $filter
  and proto = 'sip'

```

```

    and kind = 'register'
group by
    hourstamp
order by
    hourstamp
    
```

Dataset Name	Description	Log Category
content-Count-Total-SIP-Calls-per-Status	Content count total SIP calls per status	content

```

select
    status,
    count(*) as totalnum
from
    $log
where
    $filter
    and proto = 'sip'
    and kind = 'call'
group by
    status
order by
    totalnum desc
    
```

Dataset Name	Description	Log Category
content-Dist-Total-SIP-Calls-by-Duration	Content dist total SIP calls by duration	content

```

select
    (
        case when duration < 60 then 'LESS_ONE_MIN' when duration < 600 then 'LESS_TEN_MIN'
            when duration < 3600 then 'LESS_ONE_HOUR' when duration >= 3600 then 'MORE_ONE_HOUR' else 'unknown' end
    ) as f_duration,
    count(*) as totalnum
from
    $log
where
    $filter
    and proto = 'sip'
    and kind = 'call'
    and status = 'end'
group by
    f_duration
order by
    totalnum desc
    
```

Dataset Name	Description	Log Category
Botnet-Activity-By-Sources	Botnet activity by sources	traffic

```

select
  app,
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  count(*) as events
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and appcat = 'Botnet'
  and nullifna(app) is not null
group by
  app,
  user_src
order by
  events desc

```

Dataset Name	Description	Log Category
Botnet-Infected-Hosts	Botnet infected hosts	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  devtype,
  coalesce(srcname, srcmac) as host_mac,
  count(*) as events
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and appcat = 'Botnet'
group by
  user_src,
  devtype,
  host_mac
order by
  events desc

```

Dataset Name	Description	Log Category
Detected-Botnet	Detected botnet	traffic

```

select
  app,
  count(*) as events
from

```

```

$log
where
$filter
and logid_to_int(logid) not in (4, 7, 14)
and appcat = 'Botnet'
and nullifna(app) is not null
group by
app
order by
events desc

```

Dataset Name	Description	Log Category
Botnet-Sources	Botnet sources	traffic

```

select
dstip,
root_domain(hostname) as domain,
count(*) as events
from
$log
where
$filter
and logid_to_int(logid) not in (4, 7, 14)
and appcat = 'Botnet'
and dstip is not null
group by
dstip,
domain
order by
events desc

```

Dataset Name	Description	Log Category
Botnet-Victims	Botnet victims	traffic

```

select
coalesce(
nullifna(`user`),
nullifna(`unauthuser`),
ipstr(`srcip`)
) as user_src,
count(*) as events
from
$log
where
$filter
and logid_to_int(logid) not in (4, 7, 14)
and appcat = 'Botnet'
and srcip is not null
group by
user_src
order by
events desc

```

Dataset Name	Description	Log Category
Botnet-Timeline	Botnet timeline	traffic

```
select
  $flex_timescale as hodex,
  count(*) as events
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and appcat = 'Botnet'
group by
  hodex
order by
  hodex desc
```

Dataset Name	Description	Log Category
Application-Session-History	Application session history	traffic

```
select
  $flex_timescale as hodex,
  count(*) as counter
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  hodex
order by
  hodex
```

Dataset Name	Description	Log Category
Application-Usage-List	Detailed application usage	traffic

```
select
  appid,
  app,
  appcat,
  (
    case when (
      utmaction in ('block', 'blocked')
      or action = 'deny'
    ) then 'Blocked' else 'Allowed' end
  ) as custaction,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
```

```

count(*) as num_session
from
$log
where
$filter
and logid_to_int(logid) not in (4, 7, 14)
and nullifna(app) is not null
and policyid != 0
group by
appid,
app,
appcat,
custaction
order by
bandwidth desc
    
```

Dataset Name	Description	Log Category
PCI-DSS-Compliance-Summary	PCI DSS Compliance Summary	event

```

select
status,
num_reason as requirements,
cast(
num_reason * 100.0 / (
sum(num_reason) over ()
) as decimal(18, 2)
) as percent
from
(
select
(
case when fail_count > 0 then 'Non-Compliant' else 'Compliant' end
) as status,
count(distinct reason) as num_reason
from
(
select
ftnt_pci_id,
(
sum(fail_count) over (partition by ftnt_pci_id)
) as fail_count,
reason
from
###(select ftnt_pci_id, (case when result='fail' then 1 else 0 end) as fail_
count, reason from $log t1 inner join pci_dss_mdata t2 on
t1.reason=t2.ftnt_id where $filter and subtype='compliance-check' group
by ftnt_pci_id, result, reason)### t) t group by status) t order by
status desc
    
```

Dataset Name	Description	Log Category
PCI-DSS-Non-Compliant-Requirements-By-Severity	PCI DSS Non-Compliant Requirements by Severity	event

```

select
  severity,
  num_reason as requirements,
  cast(
    num_reason * 100.0 / (
      sum(num_reason) over ()
    ) as decimal(18, 2)
  ) as percent
from
  (
    select
      severity,
      count(distinct reason) as num_reason
    from
      (
        select
          ftnt_pci_id,
          severity,
          (
            sum(fail_count) over (partition by ftnt_pci_id)
          ) as fail_count,
          reason
        from
          ###(select ftnt_pci_id, severity, (case when result='fail' then 1 else 0
            end) as fail_count, reason from $log t1 inner join pci_dss_mdata t2 on
            t1.reason=t2.ftnt_id where $filter and subtype='compliance-check' group
            by ftnt_pci_id, severity, result, reason)### t) t where fail_count>0
            group by severity) t order by requirements desc
      )
  )

```

Dataset Name	Description	Log Category
PCI-DSS-Compliant-Requirements-By-Severity	PCI DSS Compliant Requirements by Severity	event

```

select
  severity,
  num_reason as requirements,
  cast(
    num_reason * 100.0 / (
      sum(num_reason) over ()
    ) as decimal(18, 2)
  ) as percent
from
  (
    select
      severity,
      count(distinct reason) as num_reason
    from
      (
        select
          ftnt_pci_id,
          severity,
          (
            sum(fail_count) over (partition by ftnt_pci_id)
          ) as fail_count,
          reason
      )
  )

```

```

from
  ###(select ftnt_pci_id, severity, (case when result='fail' then 1 else 0
  end) as fail_count, reason from $log t1 inner join pci_dss_mdata t2 on
  t1.reason=t2.ftnt_id where $filter and subtype='compliance-check' group
  by ftnt_pci_id, severity, result, reason)### t) t where fail_count=0
  group by severity) t order by requirements desc
    
```

Dataset Name	Description	Log Category
PCI-DSS-Fortinet-Security-Best-Practice-Summary	PCI DSS Fortinet Security Best Practice Summary	event

```

select
  status,
  num_reason as practices,
  cast(
    num_reason * 100.0 / (
      sum(num_reason) over ()
    ) as decimal(18, 2)
  ) as percent
from
  (
    select
      (
        case when result = 'fail' then 'Failed' else 'Passed' end
      ) as status,
      count(distinct reason) as num_reason
    from
      ###(select result, reason from $log where $filter and subtype='compliance-check'
      and result in ('fail','pass') group by result, reason)### t group by status)
      t order by status
    
```

Dataset Name	Description	Log Category
PCI-DSS-Failed-Fortinet-Security-Best-Practices-By-Severity	PCI DSS Failed Fortinet Security Best Practices by Severity	event

```

select
  status,
  num_reason as practices,
  cast(
    num_reason * 100.0 / (
      sum(num_reason) over ()
    ) as decimal(18, 2)
  ) as percent
from
  (
    select
      initcap(status) as status,
      count(distinct reason) as num_reason
    from
      ###(select status, reason from $log where $filter and subtype='compliance-check'
      and result='fail' group by status, reason)### t group by status) t order by
      status
    
```

Dataset Name	Description	Log Category
PCI-DSS-Passed-Fortinet-Security-Best-Practices-By-Severity	PCI DSS Passed Fortinet Security Best Practices by Severity	event

```

select
  status,
  num_reason as practices,
  cast(
    num_reason * 100.0 / (
      sum(num_reason) over ()
    ) as decimal(18, 2)
  ) as percent
from
  (
    select
      initcap(status) as status,
      count(distinct reason) as num_reason
    from
      ###(select status, reason from $log where $filter and subtype='compliance-check'
        and result='pass' group by status, reason)### t group by status) t order by
      status
  )

```

Dataset Name	Description	Log Category
PCI-DSS-Requirements-Compliance-Details	PCI DSS Requirements Compliance Details	event

```

select
  ftnt_pci_id,
  left(
    string_agg(distinct ftnt_id, ','),
    120
  ) as practice,
  (
    case when sum(fail_count) > 0 then 'Non-Compliant' else 'Compliant' end
  ) as compliance,
  pci_requirement
from
  ###(select ftnt_pci_id, ftnt_id, (case when result='fail' then 1 else 0 end) as fail_
    count, pci_requirement from $log t1 inner join pci_dss_mdata t2 on
    t1.reason=t2.ftnt_id where $filter and subtype='compliance-check' group by ftnt_
    pci_id, ftnt_id, result, pci_requirement)### t group by ftnt_pci_id, pci_
    requirement order by ftnt_pci_id

```

Dataset Name	Description	Log Category
PCI-DSS-Fortinet-Security-Best-Practice-Details	PCI DSS Fortinet Security Best Practice Details	event

```

select
  reason as ftnt_id,
  msg,

```

```

        initcap(status) as status,
    module
from
    $log
where
    $filter
    and subtype = 'compliance-check'
group by
    reason,
    status,
    module,
    msg
order by
    ftnt_id
    
```

Dataset Name	Description	Log Category
DLP-Email-Activity-Details	Email DLP Violations Summary	dlp

```

select
    from_itime(itime) as timestamp,
    `from` as sender,
    `to` as receiver,
    regexp_replace(filename, '.*/', '') as filename,
    filesize,
    profile,
    action,
    direction
from
    $log
where
    $filter
    and (
        service in (
            'smtp', 'SMTP', '25/tcp', '587/tcp',
            'smtps', 'SMTPS', '465/tcp'
        )
        or service in (
            'pop3', 'POP3', '110/tcp', 'imap',
            'IMAP', '143/tcp', 'imaps', 'IMAPS',
            '993/tcp', 'pop3s', 'POP3S', '995/tcp'
        )
    )
order by
    itime desc
    
```

Dataset Name	Description	Log Category
Email-DLP-Chart	Email DLP Activity Summary	dlp

```

select
    profile,
    count(*) as total_num
from
    $log
    
```

```

where
  $filter
  and (
    service in (
      'smtp', 'SMTP', '25/tcp', '587/tcp',
      'smtps', 'SMTPS', '465/tcp'
    )
    or service in (
      'pop3', 'POP3', '110/tcp', 'imap',
      'IMAP', '143/tcp', 'imaps', 'IMAPS',
      '993/tcp', 'pop3s', 'POP3S', '995/tcp'
    )
  )
group by
  profile
order by
  total_num desc

```

Dataset Name	Description	Log Category
DLP-Web-Activity-Details	Web DLP Violations Summary	dlp

```

select
  from_itime(itime) as timestamp,
  srcip,
  dstip,
  hostname,
  profile,
  filename,
  filesize,
  action,
  direction
from
  $log
where
  $filter
  and lower(service) in ('http', 'https')
order by
  itime desc

```

Dataset Name	Description	Log Category
Web-DLP-Chart	Web DLP Activity Summary	dlp

```

select
  profile,
  count(*) as total_num
from
  $log
where
  $filter
  and lower(service) in ('http', 'https')
group by
  profile
order by

```

```
total_num desc
```

Dataset Name	Description	Log Category
DLP-FTP-Activity-Details	Web DLP Violations Summary	dlp

```
select
  from_itime(itime) as timestamp,
  srcip,
  dstip,
  filename,
  profile,
  filesize,
  action,
  direction
from
  $log
where
  $filter
  and lower(service) in ('ftp', 'ftps')
order by
  itime desc
```

Dataset Name	Description	Log Category
FTP-DLP-Chart	FTP DLP Activity Summary	dlp

```
select
  profile,
  count(*) as total_num
from
  $log
where
  $filter
  and lower(service) in ('ftp', 'ftps')
group by
  profile
order by
  total_num desc
```

Dataset Name	Description	Log Category
top-users-by-browsetime	Top Users by website browsetime	traffic

```
select
  coalesce(
    nullifna(`user`),
    ipstr(`srcip`)
  ) as user_src,
  coalesce(
    nullifna(hostname),
    ipstr(`dstip`)
  ) as domain,
```

```

sum($browse_time) as browsetime
from
$log
where
$filter
group by
user_src,
domain
having
sum($browse_time) > 0
order by
browsetime desc

```

Dataset Name	Description	Log Category
wifi-usage-by-hour-authenticated	Wifi Usage by Hour - Authenticated	event

```

select
hod,
count(distinct stamac) as totalnum
from
###(select $HOUR_OF_DAY as hod, stamac from $log where $filter and subtype='wireless'
and action='client-authentication' group by hod, stamac)### t group by hod order by
hod

```

Dataset Name	Description	Log Category
wifi-usage-authenticated-timeline	Wifi Usage Timeline - Authenticated	event

```

select
hodex,
count(distinct stamac) as totalnum
from
###(select $flex_timescale as hodex, stamac from $log where $filter and
subtype='wireless' and action='client-authentication' group by hodex, stamac)### t
group by hodex order by hodex

```

Dataset Name	Description	Log Category
app-top-user-by-bandwidth	Top 10 Applications Bandwidth by User Drilldown	traffic

```

select
app,
coalesce(
nullifna(`user`),
nullifna(`unauthuser`),
ipstr(`srcip`)
) as user_src,
sum(
coalesce(`sentbyte`, 0) + coalesce(`rcvdbyte`, 0)
) as bandwidth
from
$log
where

```

```

$filter
and logid_to_int(logid) not in (4, 7, 14)
and nullifna(app) is not null
group by
  app,
  user_src
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
app-top-user-by-session	Top 10 Application Sessions by User Drilldown	traffic

```

select
  app,
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  count(*) as sessions
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(app) is not null
group by
  app,
  user_src
order by
  sessions desc

```

## Macro Reference List

The following table lists the available predefined macros that can be used in a report layout to display the log data as text (XML format) dynamically.

Macro Name	Description	Dataset Used	Log Category
Application Category with Highest Session Count	Application category with the highest session count	App-Sessions-By-Category	Traffic
Application with Highest Bandwidth	Application with the highest bandwidth usage	Top-App-By-Bandwidth	Traffic
Application with Highest Session Count	Applications with the highest session count	Top-App-By-Sessions	Traffic
Attack with Highest Session Count	Attack with highest session count	Utm-Top-Attack-Source	Attack
Botnet with Highest Session Count	Botnet with the highest session count	Detected-Botnet	Traffic
Destination with Highest Bandwidth	Destination with the highest bandwidth usage	Top-Destinations-By-Bandwidth	Traffic
Destination with Highest Session Count	Destination with the highest session count	Top-Destinations-By-Sessions	Traffic
Highest Bandwidth Consumed (Application) Category	Highest bandwidth consumed by application category	App-Risk-App-Usage-By-Category	Traffic
Highest Bandwidth Consumed (Application)	Highest bandwidth consumed by application	Top-App-By-Bandwidth	Traffic
Highest Bandwidth Consumed (Destination)	Highest bandwidth consumed by destination	Top-Destinations-By-Bandwidth	Traffic
Highest Bandwidth Consumed (P2P Application)	Highest bandwidth consumed by P2P application	Top-P2P-App-By-Bandwidth	Traffic
Highest Bandwidth Consumed (Source)	Highest bandwidth consumed by source	Top-Users-By-Bandwidth	Traffic
Highest Bandwidth Consumed (Web Category)	Highest bandwidth consumed by website category	Top-Web-Category-by-Bandwidth	Web Filter
Highest Bandwidth Consumed (Website)	Highest bandwidth consumed by website	Top-Web-Sites-by-Bandwidth	Web Filter

Macro Name	Description	Dataset Used	Log Category
Highest Risk Application with Highest Bandwidth	Highest risk application with the highest bandwidth usage	High-Risk-Application-By-Bandwidth	Traffic
Highest Risk Application with Highest Session Count	Highest risk application with the highest session count	High-Risk-Application-By-Sessions	Traffic
Highest Session Count by Application Category	Highest session count by application category	App-Sessions-By-Category	Traffic
Highest Session Count by Application	Highest session count by application	Top-App-By-Sessions	Traffic
Highest Session Count by Attack	Highest session count by attack	Utm-Top-Attack-Source	Attack
Highest Session Count by Botnet	Highest session count by botnet	Detected-Botnet	Traffic
Highest Session Count by Destination	Highest session count by destination	Top-Destinations-By-Sessions	Traffic
Highest Session Count by Highest Severity Attack	Highest session count by highest severity attack	Threat-Attacks-By-Severity	Attack
Highest Session Count by P2P Application	Highest session count by P2P application	Top-P2P-App-By-Sessions	Traffic
Highest Session Count by Source	Highest session count by source	Top-User-Source-By-Sessions	Traffic
Highest Session Count by Virus	Highest session count by virus	Utm-Top-Virus	Traffic
Highest Session Count by Web Category	Highest session count by website category	Top-Web-Category-by-Sessions	Web Filter
Highest Session Count by Website	Highest session count by website	Top-Web-Sites-by-Sessions	Web Filter
Highest Severity Attack with Highest Session Count	Highest severity attack with the highest session count	Threat-Attacks-By-Severity	Attack
P2P Application with Highest Bandwidth	P2P applications with the highest bandwidth usage	Top-P2P-App-By-Bandwidth	Traffic
P2P Application with Highest Session Count	P2P applications with the highest session count	Top-P2P-App-By-Sessions	Traffic

Macro Name	Description	Dataset Used	Log Category
Source with Highest Bandwidth	Source with the highest bandwidth usage	Top-Users-By-Bandwidth	Traffic
Source with Highest Session Count	Source with the highest session count	Top-User-Source-By-Sessions	Traffic
Total Number of Attacks	Total number of attacks detected	Total-Attack-Source	Attack
Total Number of Botnet Events	Total number of botnet events	Total-Number-of-Botnet-Events	Traffic
Total Number of Viruses	Total number of viruses detected	Total-Number-of-Viruses	Traffic
User Details	User details of traffic	Traffic-User-Detail	Traffic
Virus with Highest Session Count	Virus with the highest session count	Utm-Top-Virus	Traffic
Web Category with Highest Bandwidth	Web filtering category with the highest bandwidth usage	Top-Web-Category-by-Bandwidth	Web Filter
Web Category with Highest Session Count	Web filtering category with the highest session count	Top-Web-Category-by-Sessions	Web Filter
Website with Highest Bandwidth	Website with the highest bandwidth usage	Top-Web-Sites-by-Bandwidth	Web Filter
Website with Highest Session Count	Website with the highest session count	Top-Web-Sites-by-Sessions	Web Filter



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