

# FortiAnalyzer

## Datasets

RELEASE 5.0.8

## Datasets

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## Contents

<b>Introduction</b> .....	<b>5</b>
<b>Overview</b> .....	<b>6</b>
<b>Understanding Datasets and Macros</b> .....	<b>7</b>
<b>Creating Custom Datasets</b> .....	<b>8</b>
To create a custom dataset in the web-based manager .....	8
<b>Testing SQL Query</b> .....	<b>8</b>
Examples of SQL Query Errors .....	9
Syntax Errors .....	9
Connection Errors .....	9
<b>Examples of Custom Datasets</b> .....	<b>10</b>
Example 1: Distribution of applications by type in the last 24 hours .....	10
GUI Procedure .....	10
Example 2: Top 100 applications by bandwidth in the last 24 hours .....	11
GUI Procedure .....	11
<b>Log Database Tables</b> .....	<b>13</b>
<b>Dataset Reference List</b> .....	<b>16</b>
<b>Macro Reference List</b> .....	<b>125</b>



# Introduction

This document provides information about the various types of FortiAnalyzer datasets which are created based on the FortiGate log SQL tables and messages. These datasets are used to create charts and reports.

It describes the procedure for creating custom datasets, and also lists the types of log tables used to assist in writing SQL queries to create the datasets.

# Overview

FortiAnalyzer uses the PostgreSQL and remote MySQL databases to store the log data generated by the FortiGate. To create a chart based on the FortiGate logs in a local or remote database, you can use either the predefined datasets, or create your own custom datasets by querying the logs in the SQL database in FortiAnalyzer.

This chapter includes the following topics:

<b>Understanding Datasets and Macros</b> .....	<b>7</b>
<b>Creating Custom Datasets</b> .....	<b>8</b>
To create a custom dataset in the web-based manager .....	8
<b>Testing SQL Query</b> .....	<b>8</b>
Examples of SQL Query Errors .....	9
<b>Examples of Custom Datasets</b> .....	<b>10</b>
Example 1: Distribution of applications by type in the last 24 hours .....	10
Example 2: Top 100 applications by bandwidth in the last 24 hours .....	11
<b>Log Database Tables</b> .....	<b>13</b>

## Understanding Datasets and Macros

FortiAnalyzer datasets are collections of log messages from monitored devices.

If the FortiAnalyzer unit is not receiving data from a device, or logging is not enabled under *System > Config > SQL Database*, it does not create log tables for that device.

Charts in FortiAnalyzer are generated based on the datasets. To create a chart, you can use either the predefined datasets, or 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 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 etc.

To view and configure datasets, go to **Reports > Advanced > Dataset** in the left navigation pane of the web-based manager. For more information, refer to the *Dataset* section in the *FortiAnalyzer Administration Guide*.

To view and configure macros, go to **Reports > Macro Library** in the left navigation pane of the web-based manager. For more information, refer to the *Macro Library* section in the *FortiAnalyzer Administration Guide*.

Note: FortiAnalyzer v5.0 Patch Release 5 introduced new datasets for SIP and SCCP. FortiAnalyzer v5.0 Patch Release 6 introduces new datasets for Botnet (Botnet-Activity-By-Sources, Botnet-Infected-Hosts, Botnet-Sources, Botnet-Timeline, and Detected-Botnet).

## Creating Custom Datasets

This section describes the procedure to create datasets in the FortiAnalyzer web-based manager.

### To create a custom dataset in the web-based manager

1. Go to **Reports > Advanced > Dataset**.
2. Click **Create New**.
3. Configure the following, then click **OK**.

The following table describes the GUI fields of the **New Dataset** dialog box.

Field	Description
Name	Name of the data set.
Log Type	Log Type to be used for the data set. \$log is used in the SQL query to represent the log type you select, and it is run against all tables of this type.
Devices	Select <b>All Devices</b> to create datasets on all of FortiAnalyzer managed devices. or select <b>Specify</b> to choose a device on which you want to create the dataset.
Query	Enter the SQL query syntax to retrieve the log data you want from the SQL database.
Time Period	Select to use logs from a time frame. Select <b>Other</b> to define a custom time frame by selecting the <b>Start Time</b> and <b>End Time</b> . \$filter is used in the SQL query "where" clause to limit the results to the period you select.
Test	Click to test whether or not the SQL query is successful.

## Testing SQL Query

You can verify the SQL query that you used to create the custom dataset before saving the dataset configuration by testing and viewing the query results.

To test a SQL query:

1. Click **Test** after entering the SQL query in the **New Dataset** dialog box.

The query results are displayed. If the query is not successful, an error message appears in the results pane.

## Examples of SQL Query Errors

Here are some example error messages and possible causes:

### Syntax Errors

You have an error in your SQL syntax (remote/MySQL) or ERROR:syntax error at or near... (local/PostgreSQL)

- Check that SQL keywords are spelled correctly, and that the query is well-formed.
- Table and column names are demarked by grave accent ( ` ) characters. Single ( ' ) and double ( " ) quotation marks will cause an error.

No data is covered.

- The query is correctly formed, but no data has been logged for the log type. Check that you have configured the FortiAnalyzer unit to save that log type. Under **System > Config > SQL Database**, ensure that the log type is checked.

### Connection Errors

If well formed queries do not produce results, and logging is turned on for the log type, there may be a database configuration problem with the remote database.

Ensure that:

- MySQL is running and using the default port 3306.
- You have created an empty database and a user with create permissions for the database.

Here is an example of creating a new MySQL database named fazlogs, and adding a user for the database:

```
#Mysql -u root -p
mysql> Create database fazlogs;
mysql> Grant all privileges on fazlogs.* to `fazlogger`@`*`
identified by `fazpassword`;
mysql> Grant all privileges on fazlogs.* to
`fazlogger`@`localhost` identified by `fazpassword`;
```

For more information about using SQL queries for creating datasets, refer to the *FortiAnalyzer™ and FortiGate™ Version 4.0 MR2 SQL Log Database Query Technical Note* on the Fortinet Documentation Library at [docs.fortinet.com](http://docs.fortinet.com).

## Examples of Custom Datasets

The following examples illustrate how to create custom datasets using the web-based manager GUI. Once created, you can use the datasets to configure chart templates under **Reports > Chart Library**.

**New Chart**

Name: Application Category  
Description: Application usage category  
Dataset: App-Risk-App-Usage-By-Category  
Graph Type: table  
Resolve Hostname: Inherit

**Data Bindings**  
Only Show First: 3 Items  
Data Type:  raw  ranked [+ Add Column](#)

Column 1	Column 2
Header: appcat	Header: bandwidth
Data Binding: appcat	Data Binding: bandwidth
Display: Text	Display: Text
Merge Columns: 1	Merge Columns: 1

OK Cancel

### Example 1: Distribution of applications by type in the last 24 hours

#### GUI Procedure

1. Go to **Reports > Advanced > Dataset**.
2. Click **Create New**.
3. Select **Application Control** under **Log Type**.
4. Enter a name, such as "**apps\_type\_24hrs**".
5. Select **Last N Hours** under **Time Period**.
6. Enter the query:

```
SELECT app_type, COUNT( * ) AS totalnum  
FROM $log  
WHERE $filter
```

```
AND app_type IS NOT NULL
GROUP BY app_type
ORDER BY totalnum DESC
```

Notes:

- `$filter` restricts the query result to the time period specified; in this case, it's the past 24 hours.
- `$log` queries all application control logs
- The application control module classifies each firewall session in `app_type`. One firewall session may be classified to multiple `app_types`. For example, an HTTP session can be classified to: HTTP, Facebook, etc.
- Some `app/app_types` may not be able to be detected, then the 'app\_type' field may be null or 'N/A'. These will be ignored by this query.
- The result is ordered by the total session number of the same `app_type`. The most frequent `app_types` will appear first.

## Example 2: Top 100 applications by bandwidth in the last 24 hours

### GUI Procedure

1. Go to **Reports > Advanced > Dataset**.
2. Click **Create New**.
3. Select **Application Control** under **Log Type**.
4. Enter a name, such as "**top\_100\_aps\_24hrs**".
5. Select **Last N Hours** under **Time Period**.
6. Enter the query:

```
SELECT (
TIMESTAMP - TIMESTAMP %3600
) AS hourstamp, app, service, SUM( sent + rcvd ) AS volume
FROM $log
WHERE $filter and app IS NOT NULL
GROUP BY app
ORDER BY volume DESC
LIMIT 100
```

Notes:

- `(timestamp-timestamp%3600) as hourstamp` - this calculates an "hourstamp" to indicate bandwidth per hour.
- `SUM( sent + rcvd ) AS volume` - this calculates the total sent and received bytes.
- `ORDER BY volume DESC` - this orders the results by descending volume (largest volume first).
- `LIMIT 100` - this lists only the top 100 applications.



## Log Database Tables

The FortiAnalyzer and FortiGate units create SQL database tables to record log data. These tables are generated for high log rate and low log rate devices.

The naming convention for the log SQL tables is:

### High log rate:

```
<devtype>]-ADOM[<admon_oid><log-type>-timestamp]
```

and

### Low log rate:

```
<devtype>ADOM<adom_oid>-ALLESSE-<log-type>-<timestamp>-<delta-timestamp>
```

where the device type can be any one of the following:

#### Example:

```
FGTADOM141-tlog-0, FGTADOM141-ALLESSE-tlog-0-0
```

```
<devtype> : "FGT/FMG/FML/FCT/FWB/FCH/FAZ/SYS/..."
```

```
{ "FGT", "FortiGate" },
{ "FMG", "FortiManager" },
{ "SYS", "Syslog" },
{ "FCT", "FortiClient" },
{ "FML", "FortiMail" },
{ "FWB", "FortiWeb" },
{ "FCH", "FortiCache" },
{ "FAZ", "FortiAnalyzer" },
{ "FSA", "FortiSandbox" },
```

### Log Types and SQL Tables

Log Type	SQL Table Type	Description
Traffic	tlog	The traffic log records all traffic to and through the FortiGate interface.
Event	elog	The event log records management and activity events. For example, when an administrator logs in or logs out of the web-based manager.
Antivirus	vlog	The antivirus log records virus incidents in Web, FTP, and email traffic.
Webfilter	wlog	The web filter log records HTTP FortiGate log rating errors including web content blocking actions that the FortiGate unit performs.
Attack	attack_log	The attack log records attacks that are detected and prevented by the FortiGate unit.
Data Leak Prevention	dlog	The Data Leak Prevention log records log data that is considered sensitive and that should not be made public. This log also records data that a company does not want entering their network.
Application Control	rlog	The application control log records data detected by the FortiGate unit and the action taken against the network traffic depending on the application that is generating the traffic, for example, instant messaging software, such as MSN Messenger.

Log Type	SQL Table Type	Description
Spamfilter	spamfilter_log	The spam filter log records blocking of email address patterns and content in SMTP, IMAP, and POP3 traffic.
Content	clog	The content log records all network content that is transmitted through the network.
Netscan	nlog	The netscan log records data related to network security and scan.
Sniffer	xlog	The sniffer log records each packet raw data for traffic bottlenecks.
VOIP	plog	The VOIP log records detailed protocol specific logs for VOIP traffic.

To view all the tables created in a database, use the following commands:

- local (PostgreSQL) database: `SELECT * FROM pg_tables`
- remote (MySQL): `SHOW TABLES`

FortiAnalyzer and FortiGate logs also include log sub-types, which are types of log messages that are within the main log type. For example, in the event log type there are the subtype admin log messages.

For more information on FortiGate Log Types and Messages, refer to the FortiOS/FortiGate *Log Message Reference Guide* on the Fortinet Documentation Library at: [docs.fortinet.com](https://docs.fortinet.com).

Log Type	Sub Type
traffic (Traffic Log)	<ul style="list-style-type: none"> <li>• allowed - Policy allowed traffic</li> <li>• violation - Policy violation traffic</li> <li>• other</li> </ul>
event (Event Log)	<p>For FortiGate devices:</p> <ul style="list-style-type: none"> <li>• system - System activity event</li> <li>• ipsec - IPSec negotiation event</li> <li>• dhcp - DHCP service event</li> <li>• ppp - L2TP/PPTP/PPPoE service event</li> <li>• admin - admin event</li> <li>• ha - HA activity event</li> <li>• auth - Firewall authentication event</li> <li>• pattern - Pattern update event</li> <li>• alertemail - Alert email notifications</li> <li>• chassis - FortiGate-4000 and FortiGate-5000 series chassis event</li> <li>• sslvpn-user - SSL VPN user event</li> <li>• sslvpn-admin - SSL VPN administration event</li> <li>• sslvpn-session - SSL VPN session event</li> <li>• his-performance - performance statistics</li> <li>• vipssl - VIP SSL events</li> <li>• ldb-monitor - LDB monitor events</li> </ul>
dlp (Data Leak Prevention)	<ul style="list-style-type: none"> <li>• dlp - Data Leak Prevention</li> </ul>
app-crtl (Application Control Log)	<ul style="list-style-type: none"> <li>• app-crtl-all - All application control</li> </ul>
virus (Antivirus Log)	<ul style="list-style-type: none"> <li>• infected - Virus infected</li> <li>• filename - Filename blocked</li> <li>• oversize - File oversized</li> </ul>
webfilter (Web Filter Log)	<ul style="list-style-type: none"> <li>• content - content block</li> <li>• urlfilter - URL filter</li> <li>• FortiGuard block</li> <li>• FortiGuard allowed</li> <li>• FortiGuard error</li> <li>• ActiveX script filter</li> <li>• Cookie script filter</li> <li>• Applet script filter</li> </ul>

Log Type	Sub Type
ips (Attack Log)	<ul style="list-style-type: none"><li>• signature - Attack signature</li><li>• anomaly - Attack anomaly</li></ul>
email filter (Spam Filter Log)	<ul style="list-style-type: none"><li>• SMTP</li><li>• POP3</li><li>• IMAP</li></ul>

# Dataset Reference List

The following table lists the available predefined data sets applicable to a FortiGate device 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	Query Syntax
App-Risk-App-Usage-By-Category	Application risk application usage by category	Traffic	<pre> 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 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 </pre>
App-Risk-Application-Activity-APP	Application risk application activity	Traffic	<pre> 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 </pre>
App-Risk-Applications-Running-Over-HTTP	Application risk applications running over HTTP	Traffic	<pre> SELECT app_group_name(app) AS app_group,       service,       count(*) AS sessions,       sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter       AND logid_to_int(logid) NOT IN (4,                                      7,                                      14) </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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))&gt;0 ORDER BY bandwidth DESC </pre>
App-Risk-Breakdown-Of-Risk-Applications	Application risk breakdown of risk applications	Traffic	<pre> SELECT 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)       AND d_risk&gt;0 GROUP BY d_behavior ORDER BY number DESC </pre>
App-Risk-DLP-UTM-Event	Application risk DLP UTM event	Traffic	<pre> 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 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 </pre>
App-Risk-High-Risk-Application	Application risk high risk application	Traffic	<pre> SELECT d_risk,        d_behavior,        t2.id,        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 logid_to_int(logid) NOT IN (4, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 7, 14) AND d_behavior IS NOT NULL GROUP BY t2.id ORDER BY d_risk DESC, sessions DESC </pre>
App-Risk-Number-Of-Applications-By-Risk-Behavior	Application risk number of applications by risk behavior	Traffic	<pre> SELECT d_risk, coalesce(d_behavior, 'Other Applications') 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 d_risk, d_behavior ORDER BY d_risk DESC, number DESC </pre>
App-Risk-Reputation-Top-Devices-By-Scores	Application risk reputation top devices by scores	Traffic	<pre> 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)&gt;0 ORDER BY scores DESC </pre>
App-Risk-Reputation-Top-Users-By-Scores	Application risk reputation top users by scores	Traffic	<pre> 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)&gt;0 ORDER BY scores DESC </pre>
App-Risk-Top-Critical-Threat-Vectors	Application risk top critical threat vectors	attack	<pre> 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 </pre>
App-Risk-Top-High-Threat-Vectors	Application risk top high threat vectors	attack	<pre> SELECT attack, severity, REF, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>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</pre>
App-Risk-Top-Info-Threat-Vectors	Application risk top info threat vectors	attack	<pre>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</pre>
App-Risk-Top-Low-Threat-Vectors	Application risk top low threat vectors	attack	<pre>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</pre>
App-Risk-Top-Medium-Threat-Vectors	Application risk top medium threat vectors	attack	<pre>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</pre>
App-Risk-Top-Threat-Vectors	Application risk top threat vectors	attack	<pre>SELECT severity,   count(*) AS totalnum FROM \$log WHERE \$filter GROUP BY severity ORDER BY totalnum DESC</pre>
App-Risk-Top-User-Source-By-Sessions	Application risk top user source by session count	Traffic	<pre>SELECT srcip,   coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src,   count(*) AS sessions FROM \$log WHERE \$filter</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>AND logid_to_int(logid) NOT IN (4, 7, 14) AND srcip IS NOT NULL GROUP BY srcip, user_src ORDER BY sessions DESC</pre>
App-Risk-Virus-Discovered	Application risk virus discovered	Traffic	<pre>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</pre>
App-Risk-Vulnerability-Discovered	Application risk vulnerability discovered	netscan	<pre>SELECT vuln, vulncat, severity, count(*) AS totalnum FROM \$log WHERE \$filter AND vuln IS NOT NULL GROUP BY vuln, vulncat, severity ORDER BY totalnum DESC</pre>
App-Risk-Web-Browsing-Activity-Hostname-Category	Application risk web browsing activity hostname category	Traffic	<pre>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',</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>                 'web-content',                 'command-block',                 'script-filter')                 AND catdesc IS NOT NULL                 AND catdesc !='Unrated'                 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                 AND catdesc !='Unrated'                 GROUP BY DOMAIN,                 catdesc                 ORDER BY visits DESC)###) t                 GROUP BY DOMAIN,                 catdesc                 ORDER BY visits DESC             </pre>
App-Risk-Web-Browsing-Summary-Category	Application risk web browsing summary category	Traffic	<pre>                 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 utmevent IN ('webfilter',                 'banned-word',                 'web-content',                 'command-block',                 'script-filter')                 AND catdesc IS NOT NULL                 AND catdesc !='Unrated'                 GROUP BY catdesc                 ORDER BY num_sess DESC)###                 UNION ALL ###                 (SELECT catdesc,                 count(*) AS num_sess,                 sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS                 bandwidth                 FROM \$log-webfilter                 WHERE \$filter                 AND (eventtype IS NULL                 OR logver = 52)                 AND catdesc IS NOT NULL                 AND catdesc !='Unrated'                 GROUP BY catdesc                 ORDER BY num_sess DESC)###) t             </pre>

Dataset Name	Description	Log Category	Query Syntax
			GROUP BY catdesc ORDER BY num_sess DESC
App-Ses-sions-By-Cat-egory	Application sessions by category	Traffic	SELECT appcat, count(*) AS sessions 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 sessions DESC
app-Top-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 band- width 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
app-Top-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
app-Top-Cat-egory-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

Dataset Name	Description	Log Category	Query Syntax
			<pre>AND logid_to_int(logid) NOT IN (4, 7, 14) GROUP BY appcat, app HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))&gt;0 ORDER BY bandwidth DESC</pre>
app-Top-Cat- egory-and- Applications- by-Session	Top category and applic- ations by ses- sion	Traffic	<pre>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</pre>
appctrl-Top- Blocked- SCCP-Callers	Appctrl top blocked SCCP callers	app-ctrl	<pre>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</pre>
appctrl-Top- Blocked-SIP- Callers	Appctrl top blocked SIP callers	app-ctrl	<pre>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</pre>
Application- Session-His- tory	Application session his- tory	Traffic	<pre>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</pre>
bandwidth- app-Top-Dest- By-Band- width-Ses- sions	Bandwidth application top dest by bandwidth usage ses- sions	Traffic	<pre>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, count(*) AS sessions FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14)</pre>

Dataset Name	Description	Log Category	Query Syntax
			GROUP BY appid, DOMAIN HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0))>0 ORDER BY bandwidth DESC
bandwidth-app-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(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
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
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

Dataset Name	Description	Log Category	Query Syntax
			<pre> AND \${LOCAL_EXCLUSIVE})### 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 \${LOCAL_EXCLUSIVE} 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 \${LOCAL_EXCLUSIVE})### 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 \${LOCAL_EXCLUSIVE})### t) AS t3;  UPDATE stats_temp SET total_dest=t4.totalnum FROM (SELECT format_numeric_no_decimal(count(distinct(dstip))) AS total- num FROM ### (SELECT distinct(dstip) AS dstip FROM \$log WHERE \$filter     AND \${LOCAL_EXCLUSIVE})### 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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 </pre>
Botnet-Activity-By-Sources	Botnet activity by sources	Traffic	<pre> 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 </pre>
Botnet-Infected-Hosts	Botnet infected hosts	Traffic	<pre> 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 </pre>
Botnet-Sources	Botnet sources	Traffic	<pre> SELECT dstip,       root_domain(hostname) AS DOMAIN,       count(*) AS events FROM \$log </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>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</pre>
Botnet-Timeline	Botnet timeline	Traffic	<pre>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</pre>
Botnet-Victims	Botnet victims	Traffic	<pre>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</pre>
content-Count-Total-SCCP-Call-Registrations-by-Hour-of-Day	Content count total SCCP call registrations by hour of day	content	<pre>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</pre>
content-Count-Total-SCCP-Calls-Duration-by-Hour-of-Day	Content count total SCCP calls duration by hour of day	content	<pre>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</pre>
content-Count-Total-SCCP-Calls-per-Status	Content count total SCCP calls per status	content	<pre>SELECT status, count(*) AS totalnum FROM \$log WHERE \$filter AND proto='sccp' AND kind='call-info' GROUP BY status ORDER BY totalnum DESC</pre>

Dataset Name	Description	Log Category	Query Syntax
content-Count-Total-SIP-Call-Registrations-by-Hour-of-Day	Content count total SIP call registrations by hour of day	content	<pre>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</pre>
content-Count-Total-SIP-Calls-per-Status	Content count total SIP calls per status	content	<pre>SELECT status,        count(*) AS totalnum FROM \$log WHERE \$filter       AND proto='sip'       AND kind='call' GROUP BY status ORDER BY totalnum DESC</pre>
content-Dist-Total-SIP-Calls-by-Duration	Content dist total SIP calls by duration	content	<pre>SELECT (CASE         WHEN duration &lt; 60 THEN 'LESS_ONE_MIN'         WHEN duration &lt; 600 THEN 'LESS_TEN_MIN'         WHEN duration &lt; 3600 THEN 'LESS_ONE_HOUR'         WHEN duration &gt;= 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</pre>
default-AP-Detection-Summary-by-Status-OffWire	Default access point detection summary by status off-wire	event	<pre>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)     GROUP BY apstatus,</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> bssid, ssid ORDER BY subtotal DESC)### t GROUP BY apstatus, bssid, ssid) t GROUP BY ap_full_status ORDER BY totalnum DESC </pre>
default-AP-Detection-Summary-by-Status-OnWire	Default access point detection summary by status on-wire	event	<pre> 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) 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 </pre>
default-Email-Top-Receivers-By-Bandwidth	Default email top receivers by bandwidth usage	Traffic	<pre> SELECT coalesce(nullifna('user'), nullifna('unauthuser'), ipstr('srcip')) AS user_src, sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 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', </pre>

Dataset Name	Description	Log Category	Query Syntax
			'993/tcp', 'pop3s', 'POP3S', '995/tcp') GROUP BY user_src HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))>0 ORDER BY bandwidth DESC
default-Email-Top-Recipients-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
default-Email-Top-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
default-Managed-AP-Summary	Default managed access point summary	event	SELECT (CASE WHEN (action LIKE '%join%' AND logid_to_int(logid)=43522) THEN 'Authorized' ELSE 'Unauthorized' END) AS ap_status, count(*) AS totalnum FROM \$log WHERE \$filter AND logid_to_int(logid)=43522 GROUP BY ap_status ORDER BY totalnum DESC

Dataset Name	Description	Log Category	Query Syntax
default-SELECTed-AP-Details-OffWire	Default SELECTed access point details off-wire	event	<pre> 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)=43521 GROUP BY ap_full_status,   devid,   vd,   ssid,   bssid,   manuf,   rssi,   channel,   radioband,   detectionmethod,   itime,   onwire,   apstatus </pre>
default-SELECTed-AP-Details-OnWire	Default SELECTed access point details on-wire	event	<pre> 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> FROM \$log WHERE \$filter AND apstatus IS NOT NULL AND bssid IS NOT NULL AND onwire='yes' AND logid_to_int(logid)=43521 GROUP BY ap_full_status,     devid,     vd,     ssid,     bssid,     manuf,     rssi,     channel,     radioband,     detectionmethod,     itime,     onwire,     apstatus </pre>
default-Top-Dial-Up-User-Of-Vpn-Tunnel-By-Bandwidth	Default top dial up user of VPN tunnel by bandwidth usage	Traffic	<pre> SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src,     sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0)) AS bandwidth FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,     7,     14) AND vpntype IN ('ipsec-dynamic',     'sslvpn') GROUP BY user_src HAVING sum(coalesce(sentbyte, 0)+coalesce (rcvbyte, 0))&gt;0 ORDER BY bandwidth DESC </pre>
default-Top-Email-Senders-By-Count	Default top email senders by count	Traffic	<pre> 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 </pre>
default-Top-IPSEC-Vpn-Dial-Up-User-By-Bandwidth	Default top IPsec VPN dial up user by bandwidth usage	event	<pre> SELECT user_src,     sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS bandwidth FROM ### (SELECT coalesce(nullifna(`xauthuser`), nullifna(`user`), ipstr (`remip`)) AS user_src,     tunnelid,     min(coalesce(sentbyte, 0)) AS sent_beg, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> max (coalesce(sentbyte, 0)) AS sent_end, min(coalesce(rcvdbyte, 0)) AS rcvd_beg, max(coalesce(rcvdbyte, 0)) AS rcvd_end FROM \$log WHERE \$filter   AND subtype='vpn'   AND tunneltype LIKE 'ipsec%'   AND action='tunnel-stats'   AND NOT (tunnelip IS NULL     OR (tunnelip='0.0.0.0'       AND coalesce(logver, 0)!=52))   AND tunnelid IS NOT NULL GROUP BY user_src,   tunnelid ORDER BY tunnelid)### t GROUP BY user_src HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg)&gt;0 ORDER BY bandwidth DESC </pre>
default-Top-Sources-Of-SSL-VPN-Tunnels-By-Bandwidth	Default top sources of SSL VPN tunnels by bandwidth usage	event	<pre> SELECT remip AS remote_ip,   sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS bandwidth FROM ### (SELECT remip,   tunnelid,   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 FROM \$log WHERE \$filter   AND tunneltype LIKE 'ssl%'   AND remip IS NOT NULL   AND subtype='vpn'   AND action='tunnel-stats'   AND tunnelid IS NOT NULL GROUP BY tunnelid,   remip ORDER BY tunnelid)### t GROUP BY remote_ip HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg)&gt;0 ORDER BY bandwidth DESC </pre>
default-Unclassified-AP-Summary	Default unclassified access point summary	event	<pre> 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> AND apstatus=0 AND bssid IS NOT NULL AND logid_to_int(logid) IN (43521,                            43525,                            43527) GROUP BY onwire,         ssid,         bssid ORDER BY subtotal DESC)### t GROUP BY ap_status ORDER BY totalnum DESC </pre>
Detailed-Application-Usage	Detailed application usage	Traffic	<pre> SELECT appid,        app,        appcat,        (CASE utmaction         WHEN 'blocked' 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 </pre>
Detected-Botnet	Detected botnet	Traffic	<pre> 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 </pre>
drilldown-Top-App-By-Bandwidth	Drilldown top applications by bandwidth usage	Traffic	<pre> 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(sent- byte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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)&gt;0 ORDER BY bandwidth DESC </pre>
drilldown-Top-App-By-Sessions	Drilldown top applications by session count	Traffic	<pre> 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(sent- byte, 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 </pre>
drilldown-Top-Attack-Dest	Drilldown top attack dest	attack	<pre> SELECT dstip,   sum(totalnum) AS totalnum FROM ### (SELECT srcip,   dstip,   count(*) AS totalnum FROM \$log </pre>

Dataset Name	Description	Log Category	Query Syntax
			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
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
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
drilldown-Top-Destination-By-Bandwidth	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(sent- byte, 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,

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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)&gt;0 ORDER BY bandwidth DESC </pre>
drilldown-Top-Destination-By-Sessions	Drilldown top destination by session count	Traffic	<pre> 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(sent- byte, 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 </pre>
drilldown-Top-Email-Receiver-By-Count	Drilldown top email receiver by count	Traffic	<pre> 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', </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> '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(rcvd- byte, 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 </pre>
drilldown-Top-Email-Receiver-By-Volume	Drilldown top email receiver by volume	Traffic	<pre> 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', </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>'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(rcvd- byte, 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)&gt;0 ORDER BY volume DESC</pre>
drilldown-Top-Email-Receive-Sender-By-Count	Drilldown top email receive sender by count	Traffic	<pre>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',</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 'imps', '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(rcvd- byte, 0)) AS bandwidth FROM \$log-emailfilter WHERE \$filter-exclude-var AND service IN ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP', '143/tcp', 'imps', '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 </pre>
drilldown-Top-Email-Receive-Sender-By-Volume	Drilldown top email receive sender by volume	Traffic	<pre> 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', 'imps', </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> '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(rcvd- byte, 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)&gt;0 ORDER BY volume DESC </pre>
drilldown-Top-Email-Sender-By-Count	Drilldown top email sender by count	Traffic	<pre> 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', </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>         '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(rcvd- byte, 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     </pre>
drilldown-Top-Email-Sender-By-Volume	Drilldown top email sender by volume	Traffic	<pre>         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(rcvd- byte, 0)) AS bandwidth     </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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)&gt;0 ORDER BY volume DESC </pre>
drilldown-Top-Email-Send-Recipient-By-Count	Drilldown top email send recipient by count	Traffic	<pre> 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(rcvd- byte, 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`, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> `to` ORDER BY requests DESC)###) t WHERE \$filter-var-ONLY AND recipient IS NOT NULL GROUP BY recipient ORDER BY requests DESC </pre>
drilldown-Top-Email-Send-Recipient-By-Volume	Drilldown top email send recipient by volume	Traffic	<pre> 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(rcvd- byte, 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)&gt;0 ORDER BY volume DESC </pre>
drilldown-Top-User-By-Bandwidth	Drilldown top user by bandwidth usage	Traffic	<pre> SELECT user_src, sum(bandwidth) AS bandwidth FROM ### (SELECT appid, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src,  dstip, srcintf, dstintf, policyid, count(*) AS sessions, sum(coalesce(sent- byte, 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)&gt;0 ORDER BY bandwidth DESC </pre>
drilldown-Top-User-By-Sessions	Drilldown top user by session count	Traffic	<pre> 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(sent- byte, 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
drilldown-Top-Website-By-Request	Drilldown top website by request	Traffic	<pre> 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       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 </pre>
drilldown-Top-Web-User-By-Visit	Drilldown top web user by visit	Traffic	<pre> 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> hostname, count(*) AS requests  FROM \$log-webfilter WHERE \$filter-exclude-var AND eventtype IS NULL 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 </pre>
drilldown-Virus-Detail	Drilldown virus detail	Traffic	<pre> 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 recip- ient 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 </pre>
Estimated-Browsing-Time	Estimated browsing time	Traffic	<pre> 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, </pre>

Dataset Name	Description	Log Category	Query Syntax
			14) GROUP BY user_src HAVING sum(\$browse_time)>0 ORDER BY browsetime DESC
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
event-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
event-Admin-Login-Summary	Event admin login summary	event	SELECT `user` AS f_user, ui, sum(CASE WHEN logid_to_int(logid)=32001 THEN 1 ELSE 0 END) AS total_num, sum(CASE WHEN logid_to_int(logid)=32003 THEN duration ELSE 0 END) AS total_duration, count(STATE) AS total_change FROM \$log WHERE \$filter AND nullifna('user') IS NOT NULL AND logid_to_int(logid) IN (32001, 32003) GROUP BY f_user , ui HAVING sum(CASE WHEN logid_to_int(logid)=32001 THEN 1 ELSE 0 END)>0 ORDER BY total_num DESC
event-Admin-Login-Summary-By-Date	Event admin login summary by date	event	SELECT \$flex_timescale AS dom, sum(CASE WHEN logid_to_int(logid)=32001 THEN 1 ELSE 0 END) AS total_num, count(STATE) AS total_change FROM \$log WHERE \$filter AND nullifna('user') IS NOT NULL AND logid_to_int(logid) IN (32001, 32003) GROUP BY dom HAVING sum(CASE WHEN logid_to_int(logid) =32001 THEN 1 ELSE 0 END)>0 ORDER BY dom
event-System-Critical-Sever-ity-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

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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 </pre>
event-System-High-Severity-Events	Event system high severity events	event	<pre> 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 </pre>
event-System-Medium-Severity-Events	Event system medium severity events	event	<pre> 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>WHERE severity='Medium' GROUP BY msg, severity ORDER BY counts DESC</pre>
event-System-Summary-By-Date	Event system summary by date	event	<pre>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, sum(CASE WHEN LEVEL = 'notice' THEN 1 ELSE 0 END) AS low, sum(CASE WHEN LEVEL = 'information' OR LEVEL = 'debug' THEN 1 ELSE 0 END) AS info FROM \$log WHERE \$filter AND subtype='system' GROUP BY dom ORDER BY dom</pre>
event-System-Summary-By-Severity	Event system summary by severity	event	<pre>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</pre>
event-Top-DHCP-Summary	Event top dhcp summary	event	<pre>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</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> AND dhcp_msg = 'Ack' GROUP BY interface,       devid,       mac)###;  CREATE TEMPORARY TABLE allocated_ip AS ### (SELECT t31.intf,       percent_of_allocated_ip FROM   (SELECT concat(interface, ',', devid) AS intf,           CAST((CAST(used AS float)/CAST(total AS float)*100) AS decimal(10,2)) AS percent_of_allocated_ip,           itime FROM \$log WHERE \$filter   AND logid_to_int(logid) = 26003   AND total != 0 GROUP BY interface,       devid,       percent_of_allocated_ip,       itime) t31 INNER JOIN   (SELECT concat(interface,',', devid) AS intf,           max(itime) AS max_itime FROM \$log WHERE \$filter   AND logid_to_int(logid) = 26003 GROUP BY interface,       devid) t32 ON t31.intf = t32.intf AND t31.itime=t32.max_itime)###;  SELECT t41.intf AS interface,       percent_of_allocated_ip,       count(mac) AS new_cli_count FROM   (SELECT intf,           percent_of_allocated_ip FROM allocated_ip) t41 INNER JOIN   (SELECT intf,           mac FROM cur_clt_list WHERE (mac NOT IN   (SELECT mac FROM pre_clt_list)) GROUP BY intf,       mac) t42 ON t41.intf = t42.intf GROUP BY interface,       percent_of_allocated_ip ORDER BY interface ,       percent_of_allocated_ip DESC </pre>
event-Usage-CPU	Event usage CPU	event	<pre> 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>FROM \$log WHERE \$filter   AND subtype='system'   AND action='perf-stats' GROUP BY hourstamp)### t GROUP BY hourstamp ORDER BY hourstamp</pre>
event-Usage-CPU-Sessions	Event usage CPU sessions	event	<pre>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</pre>
event-Usage-Mem	Event usage memory	event	<pre>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</pre>
event-Usage-Sessions	Event usage sessions	event	<pre>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</pre>
event-Wireless-Accepted-Offwire	Event wireless accepted off-wire	event	<pre>SELECT 'accepted' AS ap_full_status,   devid,   vd,   ssid,   bssid,</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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) 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 </pre>
event-Wireless-Accepted-Onwire	Event wireless accepted on-wire	event	<pre> SELECT 'accepted' AS ap_full_status, devid, vd, ssid, bssid, manuf, channel, radioband, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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) 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 </pre>
event-Wireless-Client-Details	Event wireless client details	event	<pre> 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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,     Imac,     sn,     ssid,     channel,     radioband ORDER BY ip;  SELECT user_src,     ip,     Imac,     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(`sr- cip`)) AS user_src,                                 srcip,                                 sum(coalesce(sent- byte, 0)+coalesce(rcvbyte, 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)+coalesc(rcvbyte, 0))&gt;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 </pre>
event-Wireless-Rogue-Offwire	Event wireless rogue off-wire	event	<pre> SELECT 'rogue' AS ap_full_status,     devid,     vd,     ssid,     bssid,     manuf,     channel, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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 IN ('43521',     '43525') 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 </pre>
event-Wireless-Rogue-Onwire	Event wireless rogue on-wire	event	<pre> SELECT 'rogue' AS ap_full_status,   devid,   vd,   ssid,   bssid,   manuf,   channel,   radioband,   FROM_dtime(max(last_seen)) AS last_seen,   detectionmethod, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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) 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 </pre>
event-Wireless-Suppressed-Offwire	Event wireless suppressed off-wire	event	<pre> 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, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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) 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 </pre>
event-Wireless-Suppressed-Onwire	Event wireless suppressed onwire	event	<pre> 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, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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) 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 </pre>
event-Wireless-Unclassified-Offwire	Event wireless unclassified off-wire	event	<pre> 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, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> logid, apstatus, max(dtime) AS last_seen FROM \$log WHERE \$filter AND bssid IS NOT NULL AND logid_to_int(logid) IN (43521, 43525) 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 </pre>
event-Wireless-Unclassified-Onwire	Event wireless unclassified on-wire	event	<pre> 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>WHERE \$filter   AND bssid IS NOT NULL   AND logid_to_int(logid) IN (43521,     43525) 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</pre>
High-Risk-Application-By-Bandwidth	High risk application by bandwidth usage	Traffic	<pre>SELECT t2.name,   d_behavior,   sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth 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 d_behavior IS NOT NULL GROUP BY t2.name,   d_behavior ORDER BY bandwidth DESC</pre>
High-Risk-Application-By-Sessions	High risk application by session count	Traffic	<pre>SELECT t2.name,   d_behavior,   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 d_behavior IS NOT NULL GROUP BY t2.name,   d_behavior ORDER BY sessions DESC</pre>
number-of-session-timeline	Number of session timeline	Traffic	<pre>SELECT \$flex_timescale AS hodex,   count(*) AS sessions FROM \$log WHERE \$filter</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>AND logid_to_int(logid) NOT IN (4, 7, 14) GROUP BY hodex ORDER BY hodex</pre>
os-Detect-OS-Count	Detected operation system count	Traffic	<pre>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</pre>
reputation-Number-Of-Incidents-For-All-Users-Devices	Reputation number of incidents for all users devices	Traffic	<pre>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)&gt;0 ORDER BY hodex</pre>
reputation-Score-Summary-For-All-Users-Devices	Reputation score summary for all users devices	Traffic	<pre>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)&gt;0 ORDER BY hodex</pre>
reputation-Top-Devices-By-Scores	Reputation top devices by scores	Traffic	<pre>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)&gt;0 ORDER BY scores DESC</pre>
reputation-Top-Devices-With-Increased-Scores	Reputation top devices with increased scores	Traffic	<pre>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(`sr- cip`)) AS f_device, devtype,</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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)&gt;0 ORDER BY sum_rp_score DESC###;  CREATE TEMPORARY TABLE prd2_dev_tbl AS ### (SELECT coalesce(nullifna(`srcname`),nullifna(`srcmac`), ipstr(`sr- cip`)) 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)&gt;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 &gt; t1.sum_rp_score GROUP BY t1.f_device,   t1.devtype ORDER BY delta DESC </pre>
reputation- Top-Users-By- Scores	Reputation top users by scores	Traffic	<pre> 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)&gt;0 ORDER BY scores DESC </pre>
reputation- Top-Users- With- Increased- Scores	Reputation top users with increased scores	Traffic	<pre> DROP TABLE IF EXISTS prd1_usr_tbl; DROP TABLE IF EXISTS prd2_usr_tbl; CREATE TEMPORARY TABLE prd1_usr_tbl AS ### </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>(SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`sr- cip`)) 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)&gt;0 ORDER BY sum_rp_score DESC)###;  CREATE TEMPORARY TABLE prd2_usr_tbl AS ### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`sr- cip`)) 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)&gt;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 &gt; t1.sum_rp_score GROUP BY t1.f_user ORDER BY delta DESC</pre>
threat-Adware-Timeline	Threat adware timeline	virus	<pre>SELECT \$flex_timescale AS hodex, count(*) AS totalnum FROM \$log WHERE \$filter AND virus LIKE 'Adware%' GROUP BY hodex ORDER BY hodex DESC</pre>
threat-Attacks-By-Severity	Threat attacks by severity	attack	<pre>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</pre>
threat-Attacks-	Threat	attack	<pre>SELECT attack, (CASE</pre>

Dataset Name	Description	Log Category	Query Syntax
Over-HTTP-HTTPs	attacks over HTTP HTTPs		<pre>           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     </pre>
threat-Critical-Severity-Intrusions	Threat critical severity intrusions	attack	<pre>       SELECT attack,         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,         vuln_type       ORDER BY totalnum DESC     </pre>
threat-High-Severity-Intrusions	Threat high severity intrusions	attack	<pre>       SELECT attack,         vuln_type,         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       ORDER BY totalnum DESC     </pre>
threat-Intrusions-Timeline-By-Severity	Threat intrusions timeline by severity	attack	<pre>       SELECT \$flex_timescale AS timescale,         (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     </pre>

Dataset Name	Description	Log Category	Query Syntax
			GROUP BY timescale, severity ORDER BY timescale
threat-Intrusion-Timeline	Threat intrusion timeline	attack	SELECT \$flex_timescale AS hodex, count(*) AS totalnum FROM \$log WHERE \$filter GROUP BY hodex ORDER BY hodex
threat-Low-Severity-Intrusions	Threat low severity intrusions	attack	SELECT attack, vuln_type, count(*) AS totalnum FROM \$log t1 LEFT JOIN ips_mdata t2 ON t1.attack=t2.name WHERE \$filter AND t1.severity='low' GROUP BY attack, vuln_type ORDER BY totalnum DESC
threat-Medium-Severity-Intrusions	Threat medium severity intrusions	attack	SELECT attack, vuln_type, 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 ORDER BY totalnum DESC
threat-Spyware-Timeline	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
threat-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
threat-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,

Dataset Name	Description	Log Category	Query Syntax
			<pre> 14) AND virus LIKE 'Adware%' GROUP BY srcip,       hostname ORDER BY totalnum DESC </pre>
threat-Top-Adware-Victims	Threat top adware victims	virus	<pre> 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 </pre>
threat-Top-Attacks-Blocked	Threat top attacks blocked	attack	<pre> 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 </pre>
threat-Top-Attacks-Detected	Threat top attacks detected	attack	<pre> SELECT attack,        severity,        sum(attack_count) AS attack_count FROM ###       (SELECT attack, severity, (CASE WHEN severity = 'critical' THEN 1         WHEN severity = 'high' THEN 2 WHEN severity = 'medium' THEN 3         WHEN severity = 'low' THEN 4 ELSE 5 END) AS severity_level,         count(*) AS attack_count FROM \$log WHERE \$filter       AND nullifna(attack) IS NOT NULL GROUP BY attack,         severity,         severity_level ORDER BY severity_level,         attack_count DESC)### t GROUP BY attack,         severity,         severity_level ORDER BY severity_level,         attack_count DESC </pre>
threat-Top-Blocked-Intrusions	Threat top blocked intrusions	attack	<pre> SELECT attack,       (CASE         WHEN t1.severity='critical' THEN 'Critical'         WHEN t1.severity='high' THEN 'High'         WHEN t1.severity='medium' THEN 'Medium' </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>         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     </pre>
threat-Top-Intrusions-By-Types	Threat top intrusions by types	attack	<pre>         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     </pre>
threat-Top-Intrusion-Sources	Threat top intrusion sources	attack	<pre>         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 sever-         ity='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     </pre>
threat-Top-	Threat top	attack	<pre>         SELECT victim,         sum(cri_num) AS critical,     </pre>

Dataset Name	Description	Log Category	Query Syntax
Intrusion-Victims	intrusion victims		<pre> 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 </pre>
threat-Top-Monitored-Intrusions	Threat top monitored intrusions	attack	<pre> 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 </pre>
threat-Top-Spyware-by-Name	Threat top spyware by name	virus	<pre> SELECT virus, sum(totalnum) AS totalnum FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, virus, count(*) AS totalnum FROM \$log </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>WHERE \$filter GROUP BY user_src, virus ORDER BY totalnum DESC)### t WHERE virus LIKE 'Riskware%' GROUP BY virus ORDER BY totalnum DESC</pre>
threat-Top-Spyware-Source	Threat top spyware source	Traffic	<pre>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</pre>
threat-Top-Spyware-Victims	Threat top spyware victims	virus	<pre>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</pre>
threat-Top-Virus-Source	Threat top virus source	Traffic	<pre>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)</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> AND nullifna(virus) IS NOT NULL GROUP BY srcip,       hostname ORDER BY totalnum DESC)###) t GROUP BY srcip,       hostname ORDER BY totalnum DESC </pre>
threat-Virus-Timeline	Threat virus timeline	virus	<pre> 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)###) t 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 </pre>
Top-App-By-Bandwidth	Top applications by bandwidth usage	Traffic	<pre> 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))&gt;0 ORDER BY bandwidth DESC </pre>
Top-App-By-Sessions	Top applications by session count	Traffic	<pre> 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
Top-Destinations-By-Bandwidth	Top destinations by bandwidth usage	Traffic	<pre>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))&gt;0 ORDER BY bandwidth DESC</pre>
Top-Destinations-By-Sessions	Top destinations by session count	Traffic	<pre>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</pre>
Top-P2P-App-By-Bandwidth	Top P2P applications by bandwidth usage	Traffic	<pre>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 AND lower(appcat)='p2p' AND action='accept' GROUP BY app_group HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))&gt;0 ORDER BY bandwidth DESC</pre>
Top-P2P-App-By-Sessions	Top P2P applications by session count	Traffic	<pre>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 AND lower(appcat)='p2p' AND action='accept' GROUP BY app_group ORDER BY sessions DESC</pre>
Top-User-By-Sessions	Top user by session count	Traffic	<pre>SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src,        count(*) AS sessions FROM \$log</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) GROUP BY user_src ORDER BY sessions DESC</pre>
Top-Users-By-Bandwidth	Top users by bandwidth usage	Traffic	<pre>SELECT coalesce(nullifna('user'), nullifna('unauthuser'), ipstr('srcip')) AS user_src, srcip, 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 srcip IS NOT NULL GROUP BY user_src, srcip HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0)) &gt;0 ORDER BY bandwidth DESC</pre>
Top-User-Source-By-Sessions	Top user source by session count	Traffic	<pre>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</pre>
Top-Web-Cat-egory-by-Bandwidth	Top web category by bandwidth usage	webfilter	<pre>SELECT catdesc, sum(bandwidth) AS bandwidth FROM (### (SELECT catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0)) AS band- width 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 catdesc HAVING sum(coalesce(sentbyte, 0)+co- alesce(rcvbyte, 0))&gt;0 ORDER BY bandwidth DESC)### UNION ALL ### (SELECT catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0)) AS band- width FROM \$log-webfilter WHERE \$filter</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> AND (eventtype IS NULL OR logver = 52) GROUP BY catdesc HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))&gt;0 ORDER BY bandwidth DESC)###) t GROUP BY catdesc ORDER BY bandwidth DESC </pre>
Top-Web-Category-by-Sessions	Top web category by session count	webfilter	<pre> SELECT catdesc, sum(sessions) AS sessions FROM ### (SELECT catdesc, count(*) AS sessions 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 catdesc ORDER BY sessions DESC)### UNION ALL ### (SELECT catdesc, count(*) AS sessions FROM \$log-webfilter WHERE \$filter AND (eventtype IS NULL OR logver = 52) GROUP BY catdesc ORDER BY sessions DESC)###) t GROUP BY catdesc ORDER BY sessions DESC </pre>
Top-Web-Sites-by-Bandwidth	Top web sites by bandwidth usage	webfilter	<pre> SELECT DOMAIN, sum(bandwidth) AS bandwidth FROM ### (SELECT coalesce(nullifna(hostname), ipstr('srcip')) AS DOMAIN, 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 utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') GROUP BY DOMAIN HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))&gt;0 ORDER BY bandwidth DESC)### UNION ALL ### (SELECT coalesce(nullifna(hostname), ipstr('srcip')) AS DOMAIN, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>FROM \$log-webfilter WHERE \$filter   AND (eventtype IS NULL     OR logver = 52) GROUP BY DOMAIN HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0))&gt;0   ORDER BY bandwidth DESC)###) t GROUP BY DOMAIN ORDER BY bandwidth DESC</pre>
Top-Web-Sites-by-Sessions	Top web sites by session count	webfilter	<pre>SELECT DOMAIN,   sum(sessions) AS sessions FROM (###   (SELECT coalesce(nullifna(hostname), ipstr(' srcip ')) AS DOMAIN,     count(*) AS sessions   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 DOMAIN   ORDER BY sessions DESC)###   UNION ALL ###   (SELECT coalesce(nullifna(hostname), ipstr(' srcip ')) AS DOMAIN,     count(*) AS sessions   FROM \$log-webfilter   WHERE \$filter   AND (eventtype IS NULL     OR logver = 52)   GROUP BY DOMAIN   ORDER BY sessions DESC)###) t GROUP BY DOMAIN ORDER BY sessions DESC</pre>
Total-Attack-Source	Total attack source	attack	<pre>SELECT count(*) AS totalnum FROM \$log WHERE \$filter</pre>
Total-Number-of-Botnet-Events	Total number of botnet events	Traffic	<pre>SELECT 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</pre>
Total-Number-of-Viruses	Total number of viruses	Traffic	<pre>SELECT sum(totalnum) AS totalnum FROM (###   (SELECT count(*) AS totalnum   FROM \$log-traffic   WHERE \$filter   AND logid_to_int(logid) NOT IN (4,     7,     14)</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> AND utmevent IS NOT NULL AND virus IS NOT NULL ORDER BY totalnum DESC)### UNION ALL ### (SELECT count(*) AS totalnum FROM \$log-virus WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND nullifna(virus) IS NOT NULL ORDER BY totalnum DESC)###) t </pre>
Traffic-band-width-timeline	Traffic band-width timeline	Traffic	<pre> SELECT \$flex_timescale AS hodex, 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 hodex HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvd- byte, 0))&gt;0 ORDER BY hodex </pre>
Traffic-Browsing-Time-Summary	Traffic browsing time summary	Traffic	<pre> 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)&gt;0 ORDER BY delta DESC)### t GROUP BY hodex ORDER BY hodex </pre>
Traffic-Browsing-Time-Summary-Enhanced	Traffic browsing time summary enhanced	Traffic	<pre> 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)&gt;0 ORDER BY delta DESC)### t GROUP BY hodex ORDER BY hodex </pre>
Traffic-History-By-Active-User	Traffic history by active user	Traffic	<pre> 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>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</pre>
Traffic-Top-Category-By-Browsing-Time	Traffic top category by browsing time	Traffic	<pre>SELECT catdesc, sum(delta) AS browsetime, sum(bandwidth) AS bandwidth FROM ### (SELECT catdesc, sum(\$browse_time) AS delta, sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 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)&gt;0 ORDER BY delta DESC)### t GROUP BY catdesc ORDER BY browsetime DESC</pre>
Traffic-Top-Category-By-Browsing-Time-Enhanced	Traffic top category by browsing time enhanced	Traffic	<pre>SELECT catdesc, sum(delta) AS browsetime, sum(bandwidth) AS bandwidth FROM ### (SELECT catdesc, sum(\$browse_time2) AS delta, sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 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)&gt;0 ORDER BY delta DESC)### t GROUP BY catdesc ORDER BY browsetime DESC</pre>
Traffic-Top-Destination-Countries-By-Browsing-Time	Traffic top destination countries by browsing time	Traffic	<pre>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(rcvbyte, 0)) AS bandwidth, sum(coalesce(rcvbyte, 0)) AS traffic_in,</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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)&gt;0 ORDER BY delta DESC)### t GROUP BY dstcountry ORDER BY browsetime DESC </pre>
Traffic-Top-Destination-Countries-By-Browsing-Time-Enhanced	Traffic top destination countries by browsing time enhanced	Traffic	<pre> 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)&gt;0 ORDER BY delta DESC)### t GROUP BY dstcountry ORDER BY browsetime DESC </pre>
Traffic-Top-Domains-By-Browsing-Time	Traffic top domains by browsing time	Traffic	<pre> 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)&gt;0 ORDER BY browsetime DESC </pre>
Traffic-Top-Domains-By-Browsing-Time-Enhanced	Traffic top domains by browsing time enhanced	Traffic	<pre> SELECT hostname, sum(\$browse_time2) 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			GROUP BY hostname HAVING sum(\$browse_time2)>0 ORDER BY browsetime DESC
Traffic-Top-Sites-By-Browsing-Time	Traffic top sites by browsing time	Traffic	<pre> 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)&gt;0 ORDER BY delta DESC)### t GROUP BY hostname ORDER BY browsetime DESC </pre>
Traffic-Top-Sites-By-Browsing-Time-Enhanced	Traffic top sites by browsing time enhanced	Traffic	<pre> 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)&gt;0 ORDER BY delta DESC)### t GROUP BY hostname ORDER BY browsetime DESC </pre>
Traffic-Top-	Traffic top	Traffic	SELECT coalesce(nullifna('user'), nullifna('unauthuser'), ipstr('srcip'))

Dataset Name	Description	Log Category	Query Syntax
Users-By-Bandwidth	users by bandwidth usage		<pre>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) GROUP BY user_src HAVING sum(coalesce(sentbyte, 0)+coalesce (rcvdbyte, 0))&gt;0 ORDER BY bandwidth DESC</pre>
Traffic-Top-Web-Users-By-Browsing-Time	Traffic top web users by browsing time	Traffic	<pre>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)&gt;0 ORDER BY delta DESC)### t GROUP BY user_src ORDER BY browsetime DESC</pre>
Traffic-Top-WiFi-Client-By-Bandwidth	Traffic top WiFi client by bandwidth usage	Traffic	<pre>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))&gt;0 ORDER BY bandwidth DESC</pre>
Traffic-User-Detail	Traffic user detail	Traffic	<pre>SELECT 'User: '    string_agg(DISTINCT coalesce(nullifna(`user`), 'Unknown'), '/')    ' '    'Source IP: '    string_agg(DISTINCT coalesce(ipstr(srcip), 'Unknown'), '/')    ' '    'Hostname (MAC): '    string_agg(DISTINCT coalesce(host_dev, 'Unknown'), '/')    ' '    'Source Interface: '    string_agg(DISTINCT coalesce(nullifna(srcintf), 'Unknown'), '/')    '</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>    'Devices: '    string_agg(distinct coalesce(devid, 'UNKNOWN'), '/') AS user_detail FROM ### (SELECT `user`, srcip, coalesce(nullifna(`srcname`),nullifna(`srcmac`)) AS host_dev, srcintf, devid, count(*) AS events FROM \$log WHERE \$filter GROUP BY `user`, srcip, host_dev, srcintf, devid ORDER BY events DESC)### t </pre>
user-drill-down-Count-Spam-Activity-by-Hour-of-Day	User drill-down count spam activity by hour of day	emailfilter	<pre> 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 </pre>
user-drill-down-Top-Allowed-Web-Categories	User drill-down top allowed web categories	webfilter	<pre> 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 </pre>
user-drill-down-Top-Allowed-Web-Sites-By-Requests	User drill-down top allowed web sites by requests	webfilter	<pre> SELECT hostname, sum(requests) AS requests FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, hostname, action, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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 </pre>
user-drill-down-Top-Attacks-By-Name	User drill-down top attacks by name	attack	<pre> 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 </pre>
user-drill-down-Top-Attacks-High-Severity	User drill-down top attacks high severity	attack	<pre> 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 </pre>
user-drill-down-Top-Blocked-Web-Categories	User drill-down top blocked web categories	webfilter	<pre> SELECT catdesc, sum(requests) AS requests FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, catdesc, action, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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 </pre>
user-drill-down-Top-Blocked-Web-Sites-By-Requests	User drill-down top blocked web sites by requests	webfilter	<pre> 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 </pre>
user-drill-down-Top-Spam-Sources	User drill-down top spam sources	emailfilter	<pre> 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 </pre>
user-drill-down-Top-Virus	User drill-down top virus	virus	<pre> 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>ORDER BY totalnum DESC)### t WHERE \$filter-var-ONLY GROUP BY virus ORDER BY totalnum DESC</pre>
user-drill-down-Top-Virus-Recipients-Over-Email	User drill-down top virus recipients over email	virus	<pre>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</pre>
utm-drilldown-Email-Recipients-Summary	UTM drill-down email receivers summary	Traffic	<pre>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(sent- byte, 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',</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>'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</pre>
utm-drilldown-Email-Senders-Summary	UTM drill-down email senders summary	Traffic	<pre>SELECT sum(requests) AS requests, sum(bandwidth) AS bandwidth FROM ### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`sr- cip`)) AS user_src, sender, count(*) AS requests, sum(coalesce(sent- byte, 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</pre>
utm-drilldown-Top-Allowed-Web-Sites-By-Request	UTM drill-down top allowed web sites by request	Traffic	<pre>SELECT appid, hostname, sum(requests) AS requests FROM ### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`sr- cip`)) AS user_src, appid, hostname, (CASE WHEN utmac- tion='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,</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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=0 GROUP BY appid, hostname ORDER BY requests DESC </pre>
utm-drilldown-Top-App-By-Bandwidth	UTM drill-down top applications by bandwidth usage	Traffic	<pre> 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)) AS bandwidth,  +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)&gt;0 ORDER BY bandwidth DESC </pre>
utm-drilldown-Top-App-By-Sessions	UTM drill-down top applications by session count	Traffic	<pre> SELECT appid, app, sum(sessions) AS sessions FROM ### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src,  appid, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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 </pre>
utm-drilldown-Top-Attacks-By-Name	UTM drill-down top attacks by name	attack	<pre> 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 </pre>
utm-drilldown-Top-Blocked-Web-Sites-By-Request	UTM drill-down top blocked web sites by request	Traffic	<pre> SELECT appid, hostname, sum(requests) AS requests FROM (### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src, appid, hostname, (CASE WHEN utmac-tion='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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>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</pre>
utm-drilldown-Top-Email-Recipients	UTM drill-down top email recipients	Traffic	<pre>SELECT recipient, sum(bandwidth) AS bandwidth FROM ### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src, recipient, count(*) AS requests, sum(coalesce(sent- byte, 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)&gt;0 ORDER BY bandwidth DESC</pre>
utm-drilldown-Top-Email-Senders	UTM drill-down top email	Traffic	<pre>SELECT sender, sum(bandwidth) AS bandwidth FROM ###</pre>

Dataset Name	Description	Log Category	Query Syntax
	senders		<pre>(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)&gt;0 ORDER BY bandwidth DESC</pre>
utm-drilldown-Top-User-Destination	UTM drill-down top user destination	Traffic	<pre>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(rcvdbyte, 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(rcvdbyte, 0)) &gt;0 ORDER BY bandwidth DESC)### t WHERE \$filter-var-ONLY GROUP BY appid, app, dstip ORDER BY bandwidth DESC</pre>
utm-drilldown-	UTM drill-	Traffic	<pre>SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`))</pre>

Dataset Name	Description	Log Category	Query Syntax
Top-Users-By-Bandwidth	down top users by bandwidth usage		<pre>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))&gt;0 ORDER BY bandwidth DESC</pre>
utm-drilldown-Top-Virus	UTM drill-down top virus	Traffic	<pre>SELECT virus, sum(totalnum) AS totalnum FROM ### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`sr- cip`)) 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</pre>
utm-drilldown-Top-Vul-nerability-By-Name	UTM drill-down top vul-nerability by name	netscan	<pre>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</pre>

Dataset Name	Description	Log Category	Query Syntax
			WHERE \$filter-var-ONLY GROUP BY vuln ORDER BY totalnum DESC
utm-drilldown-Traffic-Summary	UTM drill-down traffic summary	Traffic	<pre> SELECT srcip,        srcname FROM (SELECT *  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 user_src,           srcip,           srcname) t GROUP BY srcip,           srcname </pre>
utm-Top-Allowed-Websites-By-Bandwidth	UTM top allowed websites by bandwidth usage	Traffic	<pre> SELECT appid,        hostname,        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 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))&gt;0 ORDER BY bandwidth DESC </pre>
utm-Top-Allowed-Web-Sites-By-Request	UTM top allowed websites by request	Traffic	<pre> 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', </pre>

Dataset Name	Description	Log Category	Query Syntax
			'web-content', 'command-block', 'script-filter') AND hostname IS NOT NULL AND utmaction!='blocked' GROUP BY hostname, catdesc ORDER BY requests DESC
utm-Top-Attack-Dest	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
utm-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
utm-Top-Blocked-Web-Sites-By-Request	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='blocked' GROUP BY hostname ORDER BY requests DESC
utm-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='blocked' GROUP BY user_src, devtype, srcname ORDER BY requests DESC

Dataset Name	Description	Log Category	Query Syntax
utm-Top-Video-Streaming-Websites-By-Bandwidth	UTM top video streaming websites by bandwidth usage	Traffic	<pre> 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(rcvd- byte, 0))&gt;0 ORDER BY bandwidth DESC </pre>
utm-Top-Virus	UTM top virus	Traffic	<pre> 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 </pre>
utm-Top-Virus-User	UTM top virus user	Traffic	<pre> SELECT user_src,        sum(totalnum) AS totalnum FROM (###       (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`sr- cip`)) AS user_src,              count(*) AS totalnum       FROM \$log-traffic       WHERE \$filter             AND logid_to_int(logid) NOT IN (4,  7,  14) </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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 </pre>
utm-Top-Web-Users-By-Bandwidth	UTM top web users by bandwidth usage	Traffic	<pre> SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src, devtype, srcname, 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 utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') GROUP BY user_src, devtype, srcname HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))&gt;0 ORDER BY bandwidth DESC </pre>
utm-Top-Web-Users-By-Request	UTM top web users by request	Traffic	<pre> 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 </pre>
vpn-Authentic-	VPN authen-	event	<pre> SELECT f_user, </pre>

Dataset Name	Description	Log Category	Query Syntax
ated-Logins	icated logins		<pre> tunneltype, sum(total) AS total_num, sum(dura) AS duration FROM ### (SELECT t1.f_user AS f_user, t1.tunneltype AS tunneltype, t1.total AS total, t2.dura AS dura FROM ( (SELECT coalesce(nullifna(`xauthuser`), `user`) AS f_user, tunneltype, count(*) AS total, tunnelid FROM \$log WHERE \$filter AND subtype='vpn' AND (tunneltype='ipsec' OR tunneltype='ssl-web') AND action='tunnel-up' AND coalesce(nullifna(`xauthuser`), nullifna(`user`)) IS NOT NULL GROUP BY f_user, tunneltype, tunnelid ORDER BY tunnelid) AS t1 INNER JOIN (SELECT tunnelid, sum(dura_end-dura_beg) AS dura FROM (SELECT coalesce(nullifna(`xauthuser`),`user`) AS f_user, tunneltype, min(coalesce(duration, 0)) AS dura_beg, max(coalesce(dur- ation,0)) AS dura_end, tunnelid, 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 FROM \$log WHERE \$filter AND subtype='vpn' AND tunneltype IN ('ipsec', 'ssl-web') AND coalesce(nullifna(`xauthuser`), nullifna(`user`)) IS NOT NULL AND action='tunnel-stats' AND tunnelid IS NOT NULL GROUP BY f_user, tunneltype, tunnelid ORDER BY tunnelid) tt GROUP BY tunnelid HAVING sum(sent_end-sent_beg+rcvd_ end-rcvd_beg)&gt;0) AS t2 ON t1.tunnelid=t2.tunnelid))### t GROUP BY f_user, </pre>

Dataset Name	Description	Log Category	Query Syntax
			tunneltype ORDER BY total_num DESC
vpn-Failed-Logins	VPN failed logins	event	<pre> 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 </pre>
vpn-Top-Dial-Up-IPSEC-Tunnels-By-Bandwidth	Top dial up IPsec tunnels by bandwidth usage	event	<pre> SELECT vpn_name,        sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS bandwidth,        sum(rcvd_end-rcvd_beg) AS traffic_in,        sum(sent_end-sent_beg) AS traffic_out FROM ### (SELECT vpn_trim(vpntunnel) AS vpn_name,        tunnelid,        min(coalesce(sentbyte, 0)) AS sent_beg,        max(coalesce(sentbyte, 0)) AS sent_end,        min(coalesce(rcvd- byte, 0)) AS rcvd_beg,        max(coalesce(rcvdbyte, 0)) AS rcvd_end 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 coalesce(logver, 0)!=52))   AND action='tunnel-stats'   AND tunnelid IS NOT NULL GROUP BY vpn_name,          tunnelid ORDER BY tunnelid)### t GROUP BY vpn_name HAVING sum(sent_end-sent_beg+rcvd_end- rcvd_beg)&gt;0 ORDER BY bandwidth DESC </pre>
vpn-Top-Dial-Up-IPSEC-Users-By-Bandwidth	Top dial up IPsec users by bandwidth usage	event	<pre> SELECT user_src,        remip,        sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS bandwidth,        sum(rcvd_end-rcvd_beg) AS traffic_in,        sum(sent_end-sent_beg) AS traffic_out FROM ### </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>(SELECT coalesce(nullifna(`xauthuser`), nullifna(`user`), ipstr (`remip`)) AS user_src, remip, tunnelid, 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 FROM \$log WHERE \$filter AND subtype='vpn' AND tunneltype LIKE 'ipsec%' AND NOT (tunnelip IS NULL OR (tunnelip='0.0.0.0' AND coalesce(logver, 0)!=52)) AND action='tunnel-stats' AND tunnelid IS NOT NULL GROUP BY user_src, remip, tunnelid ORDER BY tunnelid)### t GROUP BY user_src, remip HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg)&gt;0 ORDER BY bandwidth DESC</pre>
vpn-Top-Dialup-IPSEC-Users-By-Bandwidth-and-Avail	Top dialup IPsec users by bandwidth usage and avail	event	<pre>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,</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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 coalesce(logver, 0)!=52)) 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 </pre>
vpn-Top-Dial-Up-IPSEC-Users-By-Duration	Top dial up IPsec users by duration	event	<pre> SELECT user_src, sum(dura_end-dura_beg) AS duration, sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS bandwidth FROM ### (SELECT coalesce(nullifna(`xauthuser`), nullifna(`user`), ipstr (`remip`)) AS user_src, tunnelid, min(coalesce(duration, 0)) AS dura_beg, max (coalesce(duration,0)) AS dura_end, 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 FROM \$log WHERE \$filter AND subtype='vpn' AND tunneltype LIKE 'ipsec%' AND NOT (tunnelip IS NULL OR (tunnelip='0.0.0.0' AND coalesce(logver, 0)!=52)) AND action='tunnel-stats' AND tunnelid IS NOT NULL GROUP BY user_src, tunnelid ORDER BY tunnelid)### t GROUP BY user_src HAVING sum(sent_end-sent_beg+rcvd_end- </pre>

Dataset Name	Description	Log Category	Query Syntax
			rcvd_beg)>0 ORDER BY duration DESC
vpn-Top-Dial-Up-VPN-Users-By-Duration	Top dial up VPN users by duration	event	<pre> SELECT user_src,        tunneltype,        sum(dura_end-dura_beg) AS duration,        sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS bandwidth FROM ### (SELECT coalesce(nullifna(`xauthuser`), nullifna(`user`), ipstr (`remip`)) AS user_src,        tunneltype,        tunnelid,        min(coalesce(duration, 0)) AS dura_beg,        max (coalesce(duration,0)) AS dura_end,        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 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 coalesce(logver, 0)!=52)))) AND action='tunnel-stats' AND tunnelid IS NOT NULL GROUP BY user_src,        tunneltype,        tunnelid ORDER BY tunnelid)### t GROUP BY user_src,        tunneltype HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg) &gt;0 ORDER BY duration DESC </pre>
vpn-Top-S2S-IPSEC-Tunnels-By-Bandwidth-and-Avail	Top S2S IPsec tunnels by bandwidth usage and avail	event	<pre> 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, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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 coalesce(logver, 0)!=52)) 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 </pre>
vpn-Top-SSL-Tunnel-Users-By-Bandwidth-and-Avail	Top SSL tunnel users by bandwidth usage and avail	event	<pre> 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, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> remip, devid, vd, min(coalesce(sentbyte, 0)) AS sent_ beg, max(coalesce(sent- byte, 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 </pre>
vpn-Top-SSL-VPN-Tunnel-Users-By-Bandwidth	Top SSL VPN tunnel users by bandwidth usage	event	<pre> SELECT user_src, remote_ip, sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS bandwidth, sum(rcvd_end-rcvd_beg) AS traffic_in, sum(sent_end-sent_beg) AS traffic_out FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`remip`)) AS user_src, remip AS remote_ip, tunnelid, 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 FROM \$log WHERE \$filter AND subtype='vpn' AND tunneltype LIKE 'ssl-tunnel' </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> AND action='tunnel-stats' AND coalesce(nullifna(`user`), ipstr(`remip`)) IS NOT NULL GROUP BY tunnelid,       user_src,       remip ORDER BY tunnelid)### t GROUP BY user_src,       remote_ip HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg) &gt;0 ORDER BY bandwidth DESC </pre>
vpn-Top-SSL-VPN-Users-By-Bandwidth	Top SSL VPN users by bandwidth usage	event	<pre> SELECT user_src,       remote_ip,       sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS bandwidth,       sum(rcvd_end-rcvd_beg) AS traffic_in,       sum(sent_end-sent_beg) AS traffic_out FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`remip`)) AS user_src,       remip AS remote_ip,       tunnelid,       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 FROM \$log WHERE \$filter AND subtype='vpn' AND tunneltype LIKE 'ssl%' AND action='tunnel-stats' AND coalesce(nullifna(`user`), ipstr(`remip`)) IS NOT NULL AND tunnelid IS NOT NULL GROUP BY tunnelid,       user_src,       remip ORDER BY tunnelid)### t GROUP BY user_src,       remote_ip HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg) &gt;0 ORDER BY bandwidth DESC </pre>
vpn-Top-SSL-VPN-Users-By-Duration	Top SSL VPN users by duration	event	<pre> SELECT user_src,       tunneltype,       sum(dura_end-dura_beg) AS duration,       sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS bandwidth FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`remip`)) AS user_src,       tunneltype,       min(coalesce(duration, 0)) AS dura_ beg,       max(coalesce(dur- ation, 0)) AS dura_end,       tun- nelid,       min (coalesce(sentbyte, 0)) AS sent_beg, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> max(coalesce(sentbyte, 0)) AS sent_end,  min(coalesce(rcvdbyte, 0)) AS rcvd_beg, max(coalesce(rcvdbyte, 0)) AS rcvd_end FROM \$log WHERE \$filter AND subtype='vpn' AND tunneltype LIKE 'ssl%' AND action='tunnel-stats' AND coalesce(nullifna(`user`), ipstr(`remip`)) IS NOT NULL AND tunnelid IS NOT NULL GROUP BY tunnelid,       user_src,       tunneltype ORDER BY tunnelid)### t GROUP BY user_src,       tunneltype HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg) &gt;0 ORDER BY duration DESC </pre>
vpn-Top-SSL-VPN-Web-Mode-Users-By-Bandwidth	Top SSL VPN web mode users by bandwidth usage	event	<pre> SELECT user_src,       remote_ip,       sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS bandwidth,       sum(rcvd_end-rcvd_beg) AS traffic_in,       sum(sent_end-sent_beg) AS traffic_out FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`remip`)) AS user_src,       remip AS remote_ip,       tunnelid,       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 FROM \$log WHERE \$filter AND subtype='vpn' AND tunneltype='ssl-web' AND action='tunnel-stats' AND coalesce(nullifna(`user`), ipstr(`remip`)) IS NOT NULL AND tunnelid IS NOT NULL GROUP BY tunnelid,       user_src,       remip ORDER BY tunnelid)### t GROUP BY user_src,       remote_ip HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg) &gt;0 ORDER BY bandwidth DESC </pre>
vpn-Top-SSL-Web-Users-By-Bandwidth-and-Avail	Top SSL web users by bandwidth usage and avail	event	<pre> 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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(sent- byte, 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)&gt;0 ORDER BY bandwidth DESC) t GROUP BY user_src, remote_ip ORDER BY bandwidth DESC </pre>
vpn-Top-Static-IPSEC-Tunnels-By-Bandwidth	Top static IPsec tunnels by bandwidth usage	event	<pre> SELECT vpn_name, sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS bandwidth, sum(rcvd_end-rcvd_beg) AS traffic_in, sum(sent_end-sent_beg) AS traffic_out FROM ### (SELECT vpn_trim(vpntunnel) AS vpn_name, tunnelid, min(coalesce(sentbyte, 0)) AS sent_beg, max(coalesce(sentbyte, 0)) AS </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> sent_end, min(coalesce(rcvd- byte, 0)) AS rcvd_beg, max(coalesce(rcvdbyte, 0)) AS rcvd_end FROM \$log WHERE \$filter AND subtype='vpn' AND tunneltype LIKE 'ipsec%' AND (tunnelip IS NULL OR (tunnelip='0.0.0.0' AND coalesce(logver, 0)!=52)) AND action='tunnel-stats' AND tunnelid IS NOT NULL GROUP BY vpn_name, tunnelid ORDER BY tunnelid)### t GROUP BY vpn_name HAVING sum(sent_end-sent_beg+rcvd_end- rcvd_beg)&gt;0 ORDER BY bandwidth DESC </pre>
vpn-Traffic-Usage-Trend-VPN	VPN traffic usage trend	event	<pre> SELECT hodex, sum(coalesce(ssl_bandwidth, 0)) AS ssl_bandwidth, sum(coalesce(ipsec_bandwidth, 0)) AS ipsec_bandwidth FROM ### (SELECT coalesce(t1.hodex, t2.hodex) AS hodex, ssl_bandwidth, ipsec_bandwidth FROM (SELECT hodex, sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS ssl_ban- width FROM (SELECT \$flex_timescale AS hodex, tunnelid, 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 FROM \$log WHERE \$filter AND subtype='vpn' AND action='tunnel-stats' AND tunnelid IS NOT NULL AND tunneltype LIKE 'ssl%' GROUP BY hodex, tunnelid, devid, vd ORDER BY tunnelid) t_ssl GROUP BY hodex) AS t1 FULL JOIN (SELECT hodex, sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS ipsec_ban- </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>width FROM (SELECT \$flex_timescale AS hodex,         tunnelid,         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 FROM \$log WHERE \$filter AND subtype='vpn' AND action='tunnel-stats' AND tunnelid IS NOT NULL AND tunneltype LIKE 'ipsec%' GROUP BY hodex,         tunnelid,         devid,         vd ORDER BY tunnelid) t_ipsec GROUP BY hodex) AS t2 ON t1.hodex = t2.hodex)### t GROUP BY hodex ORDER BY hodex</pre>
vpn-User-Login-history	VPN user login history	event	<pre>SELECT hodex,         count(*) AS total_num FROM ### (SELECT t1.hodex AS hodex FROM (         (SELECT \$flex_timescale AS hodex,                 tunnelid         FROM \$log         WHERE \$filter         AND subtype='vpn'         AND (tunneltype='ipsec'                 OR tunneltype='ssl-web')         AND action='tunnel-up'         AND coalesce(nullifna('xauthuser'), nullifna('user')) IS NOT NULL         GROUP BY hodex,                 tunnelid         ORDER BY hodex DESC) AS t1 INNER JOIN         (SELECT tunnelid         FROM         (SELECT tunnelid,                 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         FROM \$log         WHERE \$filter         AND subtype='vpn'</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> AND tunneltype IN ('ipsec',                     'ssl-web') AND action='tunnel-stats' AND tunnelid IS NOT NULL GROUP BY tunnelid ORDER BY tunnelid tt GROUP BY tunnelid HAVING sum(sent_end-sent_beg+rcvd_ end-rcvd_beg)&gt;0) AS t2 ON t1.tunnelid=t2.tunnelid)### t GROUP BY hodex ORDER BY total_num DESC </pre>
web-Detailed-Website-Browsing-Log	Web detailed website browsing log	Traffic	<pre> SELECT FROM _dtime(dtime) AS TIMESTAMP, catdesc, hostname AS website, action AS status, sum(bandwidth) AS bandwidth FROM (### (SELECT dtime, catdesc, hostname, action, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS band- width 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 dtime, catdesc, hostname, action ORDER BY dtime DESC)### UNION ALL ### (SELECT dtime, catdesc, hostname, action, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS band- width FROM \$log-webfilter WHERE \$filter AND hostname IS NOT NULL AND (eventtype IS NULL OR logver=52) GROUP BY dtime, catdesc, hostname, action ORDER BY dtime DESC)###) t GROUP BY dtime, catdesc, website, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> status ORDER BY dtime DESC </pre>
webfilter-Categories-By-Bandwidth	Webfilter categories by bandwidth usage	webfilter	<pre> 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 utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') AND catdesc IS NOT NULL GROUP BY catdesc ORDER BY bandwidth DESC)### UNION ALL ### (SELECT catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-webfilter WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND catdesc IS NOT NULL GROUP BY catdesc ORDER BY bandwidth DESC)###) t GROUP BY catdesc ORDER BY bandwidth DESC </pre>
webfilter-Top-Allowed-Web-Categories	Webfilter top allowed web categories	webfilter	<pre> 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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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 </pre>
webfilter-Top-Allowed-Web-Sites-by-Bandwidth	Webfilter top allowed web sites by bandwidth usage	webfilter	<pre> 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('scip')) 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 utmevent IN ('webfilter',     'banned-word',     'web-content',     'command-block',     'script-filter')   AND utmaction!='blocked'   GROUP BY DOMAIN,     catdesc HAVING sum(coalesce(sentbyte, 0))+coalesce(rcvdbyte, 0))&gt;0   ORDER BY bandwidth DESC)###   UNION ALL ###   (SELECT coalesce(nullifna(hostname), ipstr('scip')) 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-webfilter   WHERE \$filter   AND (eventtype IS NULL     OR logver = 52)   AND action!='blocked'   GROUP BY DOMAIN,     catdesc HAVING sum(coalesce(sentbyte, 0))+coalesce(rcvdbyte, 0))&gt;0   ORDER BY bandwidth DESC)###) t GROUP BY DOMAIN,   catdesc ORDER BY bandwidth DESC </pre>

Dataset Name	Description	Log Category	Query Syntax
webfilter-Top-Allowed-Web-Sites-By-Requests	Webfilter top allowed web sites by requests	webfilter	<pre> 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 </pre>
webfilter-Top-Blocked-Web-Categories	Webfilter top blocked web categories	webfilter	<pre> 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, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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 </pre>
webfilter-Top-Blocked-Web-Sites-By-Requests	Webfilter top blocked web sites by requests	webfilter	<pre> 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 </pre>
webfilter-Top-Search-Phrases	Webfilter top search phrases	webfilter	<pre> SELECT keyword, count(*) AS requests FROM \$log WHERE \$filter AND keyword IS NOT NULL GROUP BY keyword ORDER BY requests DESC </pre>
webfilter-Top-	Webfilter top	webfilter	<pre> SELECT DOMAIN, </pre>

Dataset Name	Description	Log Category	Query Syntax
Video-Streaming-Websites-By-Bandwidth	video streaming websites by bandwidth usage		<pre> 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))+co- alesce(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 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))+co- alesce(rcvdbyte, 0))&gt;0 ORDER BY bandwidth DESC)### UNION ALL ### (SELECT coalesce(nullifna(root_domain(hostname)), 'other') AS DOMAIN, sum(coalesce(sentbyte, 0))+co- alesce(rcvdbyte, 0)) AS bandwidth, sum(coalesce(rcvdbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log-webfilter WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND catdesc IN ('Streaming Media and Download') GROUP BY DOMAIN HAVING sum(coalesce(sentbyte, 0))+co- alesce(rcvdbyte, 0))&gt;0 ORDER BY bandwidth DESC)###) t GROUP BY DOMAIN ORDER BY bandwidth DESC </pre>
webfilter-Top-Web-Users-By-Allowed-Requests	Webfilter top web users by allowed requests	webfilter	<pre> SELECT user_src, devtype, hostname_mac, sum(requests) AS requests FROM (### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`sr- cip`)) AS user_src, devtype, coalesce(nullifna(`srcname`), `srcmac`) AS hostname_mac, count(*) AS requests FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 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, devtype, hostname_mac ORDER BY requests DESC)### UNION ALL ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, '0' AS devtype, ipstr(`srcip`) AS hostname_mac, 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, devtype, hostname_mac ORDER BY requests DESC)###) t GROUP BY user_src, devtype, hostname_mac ORDER BY requests DESC </pre>
webfilter-Top-Web-Users-By-Bandwidth	Webfilter top web users by bandwidth usage	webfilter	<pre> SELECT user_src, devtype, hostname_mac, 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, devtype, coalesce(nullifna(`srcname`), `srcmac`) AS hostname_mac, 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 utmevent IN ('webfilter', 'banned-word', 'web-content', </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>'command-block', 'script-filter') GROUP BY user_src, devtype, hostname_mac HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))&gt;0 ORDER BY bandwidth DESC)### UNION ALL ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, '0' AS devtype, ipstr(`srcip`) AS hostname_mac, 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-webfilter WHERE \$filter AND (eventtype IS NULL OR logver = 52) GROUP BY user_src, devtype, hostname_mac HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))&gt;0 ORDER BY bandwidth DESC)###) t GROUP BY user_src, devtype, hostname_mac ORDER BY bandwidth DESC</pre>
webfilter-Top-Web-Users-By-Blocked-Requests	Webfilter top web users by blocked requests	webfilter	<pre>SELECT user_src, devtype, hostname_mac, sum(requests) AS requests FROM (### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src, devtype, coalesce(nullifna(`srcname`), `srcmac`) AS hostname_mac, 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, devtype, hostname_mac</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> ORDER BY requests DESC)### UNION ALL ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src,                                 '0' AS devtype,                                 ipstr(`srcip`) AS hostname_mac,                                 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, devtype, hostname_mac ORDER BY requests DESC)###) t GROUP BY user_src, devtype, hostname_mac ORDER BY requests DESC </pre>
webfilter-Web-Activity-Summary-By-Requests	Webfilter web activity summary by requests	webfilter	<pre> SELECT hodex, sum(coalesce(allowed_request, 0)) AS allowed_request, sum(coalesce(blocked_request, 0)) AS blocked_request FROM (### (SELECT coalesce(t1.hodex, t2.hodex) AS hodex, allowed_request, blocked_request  FROM (SELECT \$flex_timescale AS hodex, count(*) AS allowed_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') AND utmaction!='blocked' GROUP BY hodex ORDER BY hodex) AS t1 FULL JOIN (SELECT \$flex_timescale AS hodex, count(*) 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') AND utmaction='blocked' GROUP BY hodex ORDER BY hodex) AS t2 ON t1.hodex = t2.hodex)### </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> UNION ALL ### (SELECT coalesce(t1.hodex, t2.hodex) AS hodex,                 allowed_request,                 blocked_request  FROM   (SELECT \$flex_timescale AS hodex,         count(*) AS allowed_request   FROM \$log-webfilter   WHERE \$filter     AND (eventtype IS NULL         OR logver = 52)     AND action!='blocked'   GROUP BY hodex   ORDER BY hodex) AS t1 FULL JOIN   (SELECT \$flex_timescale AS hodex,         count(*) AS blocked_request   FROM \$log-webfilter   WHERE \$filter     AND (eventtype IS NULL         OR logver = 52)     AND action='blocked'   GROUP BY hodex   ORDER BY hodex) AS t2 ON t1.hodex = t2.hodex)###) t GROUP BY hodex ORDER BY hodex </pre>
web-Hourly-Category-and-Website-Hits-Action	Web hourly category and website hits action	Traffic	<pre> SELECT hod,        website,        sum(hits) AS hits FROM (###   (SELECT \$hour_of_day AS hod, (hostname    '('    coalesce(`cat-desc`, '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(`cat-desc`, '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 </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>ORDER BY hod,       hits DESC)###) t GROUP BY hod,       website ORDER BY hod,       hits DESC</pre>
web-Top-Category-and-Websites-by-Bandwidth	Web top category and websites by bandwidth usage	Traffic	<pre>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 utmevent IN ('webfilter',           'banned-word',           'web-content',           'command-block',           'script-filter')       GROUP BY website,           catdesc       ORDER BY bandwidth DESC)### UNION ALL ###       (SELECT hostname AS website,           catdesc,           sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth       FROM \$log-webfilter       WHERE \$filter       AND hostname IS NOT NULL       AND (eventtype IS NULL           OR logver=52)       GROUP BY website,           catdesc       ORDER BY bandwidth DESC)###) t GROUP BY website,       catdesc ORDER BY bandwidth DESC</pre>
web-Top-Category-and-Websites-by-Session	Web top category and websites by session	Traffic	<pre>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',</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> '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 </pre>
web-Top-User-Visted-Websites-by-Bandwidth	Web top user visted web-sites by band-width usage	Traffic	<pre> 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 utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') GROUP BY hostname, catdesc HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvd- byte, 0))&gt;0 ORDER BY bandwidth DESC)### UNION ALL ### (SELECT hostname AS website, catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-webfilter WHERE \$filter AND hostname IS NOT NULL AND (eventtype IS NULL OR logver=52) GROUP BY hostname, catdesc ORDER BY bandwidth DESC)###) t </pre>

Dataset Name	Description	Log Category	Query Syntax
			GROUP BY website, catdesc ORDER BY bandwidth DESC
web-Top-User-Visted-Websites-by-Session	Web top user visted web-sites by session	Traffic	<pre> 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 </pre>
web-Top-Web-site-Sessions-by-Bandwidth	Web top web-site sessions by bandwidth usage	Traffic	<pre> 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, </pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre> 14) AND action IN ('accept', 'close', 'timeout') GROUP BY dtime, user_src, website, catdesc HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))&gt; 0 ORDER BY bandwidth DESC)### t GROUP BY dtime, user_src, website, catdesc ORDER BY bandwidth DESC </pre>
wifi-Num-Distinct-Client	WiFi num distinct client	Traffic	<pre> 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 </pre>
wifi-Overall-Traffic	WiFi overall Traffic	Traffic	<pre> SELECT 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) </pre>
wifi-Top-AP-By-Bandwidth	Top access point by bandwidth usage	Traffic	<pre> SELECT srcintf, 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 srcintf HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvd- </pre>

Dataset Name	Description	Log Category	Query Syntax
			byte, 0))>0 ORDER BY bandwidth DESC
wifi-Top-AP-By-Client	Top access point by client	Traffic	<pre> SELECT srcintf,        count(DISTINCT srcmac) AS totalnum FROM ### (SELECT srcintf,        srcssid,        osname,        osverson,        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,          osverson,          devtype,          srcmac ORDER BY subtotal DESC)### t GROUP BY srcintf ORDER BY totalnum DESC </pre>
wifi-Top-App-By-Bandwidth	Top WiFi applications by bandwidth usage	Traffic	<pre> SELECT appid,        app,        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 nullifna(app) IS NOT NULL GROUP BY appid,          app HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))&gt;0 ORDER BY bandwidth DESC </pre>
wifi-Top-Client-By-Bandwidth	Top WiFi client by bandwidth usage	Traffic	<pre> SELECT (coalesce(srcname, srcmac, 'unknown')    ' ('    coalesce(devtype, 'unknown')    ', '    coalesce(osname, '')    (CASE WHEN osverson IS NULL THEN " ELSE ''    osverson 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))&gt;0 ORDER BY bandwidth DESC </pre>

Dataset Name	Description	Log Category	Query Syntax
wifi-Top-Device-By-Bandwidth	Top WiFi device by bandwidth usage	Traffic	<pre>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))&gt;0 ORDER BY bandwidth DESC</pre>
wifi-Top-Device-By-Client	Top WiFi device by client	Traffic	<pre>SELECT devtype,        count(DISTINCT srcmac) AS totalnum FROM ### (SELECT srcintf,        srcssid,        osname,        osverson,        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,        osverson,        devtype,        srcmac ORDER BY subtotal DESC)### t WHERE devtype IS NOT NULL GROUP BY devtype ORDER BY totalnum DESC</pre>
wifi-Top-OS-By-Bandwidth	Top WiFi os by bandwidth usage	Traffic	<pre>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))&gt;0 ORDER BY bandwidth DESC</pre>
wifi-Top-OS-By-WiFi-Client	Top WiFi os by WiFi client	Traffic	<pre>SELECT (coalesce(osname, 'unknown')    ' '    coalesce(osversion, '')) AS os,        count(DISTINCT srcmac) AS totalnum FROM ###</pre>

Dataset Name	Description	Log Category	Query Syntax
			<pre>(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</pre>
wifi-Top-SSID-By-Bandwidth	Top SSIDs by bandwidth usage	Traffic	<pre>SELECT srcssid, 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 GROUP BY srcssid HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))&gt;0 ORDER BY bandwidth DESC</pre>
wifi-Top-SSID-By-Client	Top SSIDs by client	Traffic	<pre>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,</pre>

Dataset Reference List  
FortiAnalyzer v5.0.8 Datasets

Dataset Name	Description	Log Category	Query Syntax
			srcmac ORDER BY subtotal DESC)### t WHERE srcssid IS NOT NULL GROUP BY srcssid ORDER BY totalnum 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
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 session count by highest	Threat-Attacks-By-	Attack

Macro Name	Description	Dataset Used	Log Category
Highest Severity Attack	severity attack	Severity	
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
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