Diode Collector Installation Guide

FortiSIEM 6.7.1

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Change Log

Date	Change Description
02/13/2023	Initial version of Diode Collector Installation Guide

Diode Collector

- Feature
- Standard Configuration
- Additional Configurations
- Example diode_collector.json File

Feature

The diode collector has the following functionalities:

1. Ability to install without Internet connectivity
2. Ability to work without registering with Supervisor node
3. Ability to collect syslog, SNMP trap and Windows log via WMI/OMI protocol using local configuration
4. Ability to send events to another Collector or Worker via UDP/514 using syslog protocol

A diode collector only requires a strictly one-way communication from itself to another Collector or Worker. There are two deployment modes:

1. Diode Collector -> Worker
2. Diode Collector -> Regular Collector -> Worker

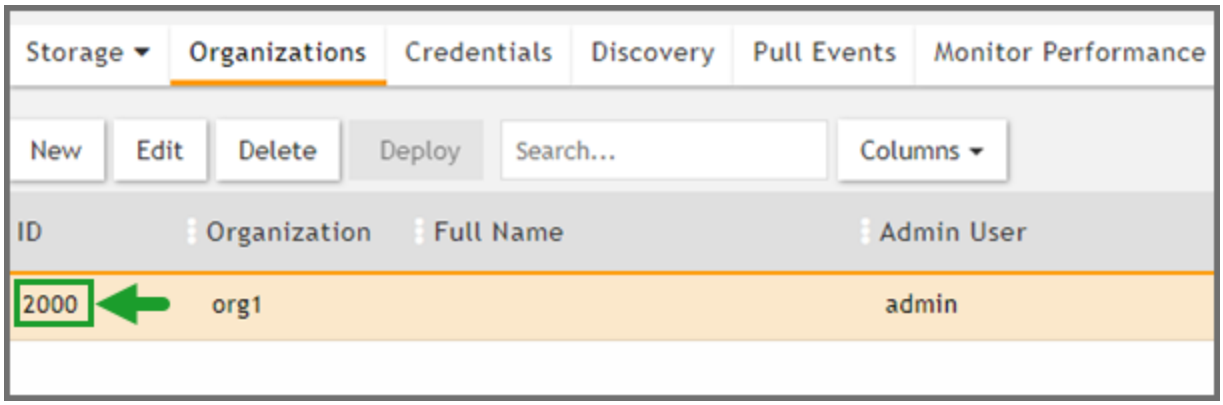
The regular Collector can send events to Worker via HTTPS.

Standard Configuration

To configure a diode collector, there are two general steps. Note that there is a Service Provide case (1) , and an Enterprise case (2), in Step 1.

Step 1: Collect Collector Information from Supervisor Node

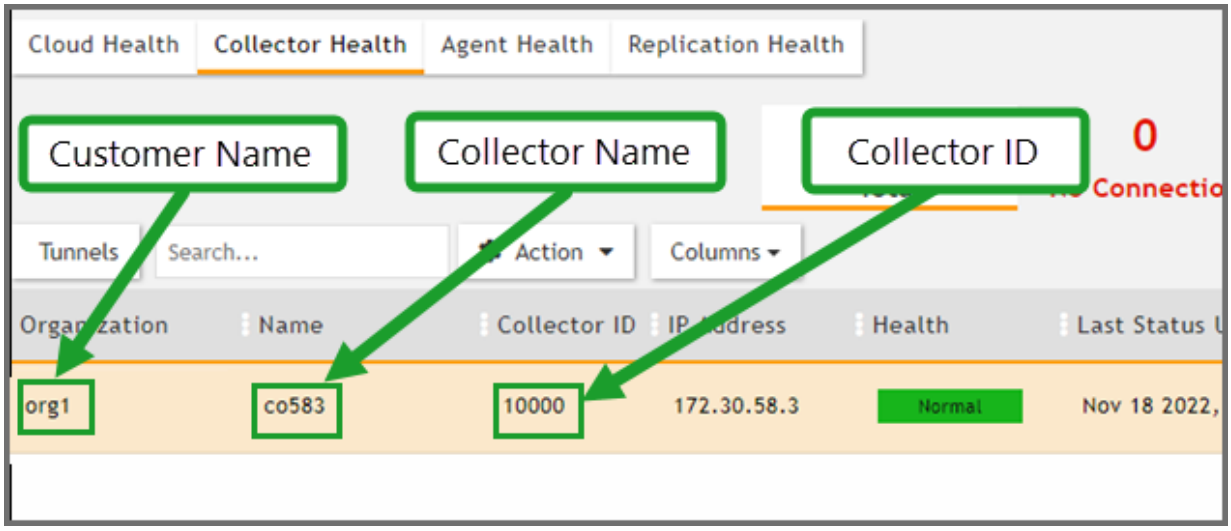
1. For Service Provider case, a Collector is associated with a customer.
   a. Navigate to **Admin > Setup > Organizations**.
   b. Click **New**, and create an Organization with the Collector.
   c. Get the **Customer Id**, which appears in the **ID** column. This should appear after the Organization is created.



d. Navigate to **ADMIN > Health > Collector Health**.

e. From the Collector Health page, get the following information:

- Customer Name (From the **Organization** column)
- Collector Name (From the **Name** column)
- Collector Id (From the **Collector ID** column)



2. For Enterprise case (1 Organization)

a. Navigate to **ADMIN > Setup > Collector**.

b. Click **New**, and create a Collector.

c. Navigate to **ADMIN > Health > Collector Health**.

d. From the Collector Health page, get the following information:

- Collector Id
- Collector Name

Step 2: Configure Collector Using the Information in Step 1

1. Download the collector binary from the Fortinet Support Site.
2. Run `configFSM.sh` on the VM (Internet connectivity not needed). Installation steps are provided here.
3. Modify the file `/opt/phoenix/config/diode_collector.json`. See Example diode_collector.json File for an example file.

a. Set **custId** to Customer Id from Step 1 (for Enterprise case, set to 1).
b. Set **collectorId** to Collector Id from Step 1.
c. Set **orgName** to Customer Name from Step 1 (for Enterprise case, set to super).
d. Set **collectorName** to Collector Name from Step 1.
e. Set **eventUploadServers** to the Worker in UDP:<IP1>:514,UDP<IP2:514> format where IP1 and IP2 are Worker IP addresses.
f. Set Windows Server credentials in the Credentials section.

4. Run the following command.

```
phProvisionDiodeCollector
```

Setup is now complete, and events should appear in the FortiSIEM GUI. There are no differences between events from a diode collector and a regular collector.

Additional Configurations

The following additional configurations are available.

- Adding Windows Servers or Changing WMI/OMI Credentials
- Change Parsers

Adding Windows Servers or Changing WMI/OMI Credentials

To add more Windows servers or change WMI/OMI credentials, take the following step.

1. Modify `/opt/phoenix/config/diode_collector.json`
   There is no need to restart any process.

Change Parsers

To Change Parsers, take the following steps.

1. Modify or create parser files under `/opt/phoenix/config/xml/`
2. Edit `/opt/phoenix/config/xml/parserOrder.csv`
3. Restart phParser by running the following command.

```
killall -9 phParser
```

Example diode_collector.json File

This JSON has 1 WMI example and 1 OMI example.

```
{
  "custId": 2000,
  "orgName": "org1",
  "collectorId": 10000,
  "collectorName": "CO1",
  "eventUploadServers": "UDP:192.168.1.100:514,UDP:192.168.1.101:514",
```

```
"eventUploadEpsLimit": 1000,
"creds": [
  {
    "custId": "2000",
    "accessIp": "1.2.3.4",
    "deviceType": {
      "vendor": "Microsoft",
      "model": "Windows",
      "version": "ANY"
    },
    "accessMethod": {
      "accessProtocol": "MS_WMI",
      "pullInterval": 1,
      "credential": {
        "username": "Administrator",
        "password": "12345678"
      },
      "template": {
        "name": "Get All Logs",
        "logTypes": [
          {
            "type": "SECURITY",
            "include": "", //blank means ALL
            "exclude": "" //blank means ALL
          },
          {
            "type": "APPLICATION",
            "include": "", //blank means ALL
            "exclude": "" //blank means ALL
          },
          {
            "type": "SYSTEM",
            "include": "", //blank means ALL
            "exclude": "" //blank means ALL
          }
        ]
      }
    }
  } ,
  {
    "custId": "2000",
    "accessIp": "1.2.3.4",
    "deviceType": {
      "vendor": "Microsoft",
      "model": "Windows",
      "version": "ANY"
    },
    "accessMethod": {
      "accessProtocol": "MS_OMI",
      "pullInterval": 1,
      "credential": {
        "username": "Administrator",
        "password": "12345678",
        "omiAuth": "ntlm or kerberos",
        "kerberosADServer": "1.2.3.4",
        "kerberosDomain": "abc"
```

```
          },
          "template": {
            "name": "Get All Logs",
            "logTypes": [
              {
                "type": "SECURITY",
                "include": "",
                "exclude": ""
              },
              {
                "type": "APPLICATION",
                "include": "",
                "exclude": ""
              },
              {
                "type": "SYSTEM",
                "include": "",
                "exclude": ""
              }
            ]
          }
        }
      }
    ]
  }
```

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