



## **Broadcom**

### Cloud Insights

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# Broadcom

## Brocade Network Advisor data collector

Cloud Insights uses the Brocade Network Advisor data collector to acquire inventory and performance data from Brocade switches.

### Terminology

Cloud Insights acquires the following inventory information from the Brocade Network Advisor data collector. For each asset type acquired by Cloud Insights, the most common terminology used for this asset is shown. When viewing or troubleshooting this data collector, keep the following terminology in mind:

| Vendor/Model Term               | Cloud Insights Term |
|---------------------------------|---------------------|
| Switch                          | Switch              |
| Port                            | Port                |
| Virtual Fabric, Physical Fabric | Fabric              |
| Logical Switch                  | Logical Switch      |

Note: These are common terminology mappings only and might not represent every case for this data collector.

### Requirements

The following are required to configure this data collector:

- The Cloud Insights Acquisition Unit will initiate connections to TCP port 443 on the BNA server. BNA server must be running version 14.2.1 or higher.
- Brocade Network Advisor Server IP address
- User name and password to an administrator account
- Port requirement: HTTP/HTTPS 443

### Configuration

| Field                             | Description                              |
|-----------------------------------|--|
| Brocade Network Advisor Server IP | IP address of the Network Advisor Server |
| User Name                         | User name for the switch                 |
| User Name                         | Administrator user name                  |
| Password                          | Administrator password                   |

### Advanced configuration

| Field                           | Description   |
|---------------------------------|---|
| Connection Type                 | HTTPS (default port 443) or HTTP (default port 80)  |
| Override Connection Port        | If blank, use the default port in the Connection Type field, otherwise enter the connection port to use |
| Password                        | Password for the switch   |
| Inventory poll interval (min)   | The default is 40   |
| Report Access Gateway           | Check to include devices in Access Gateway mode   |
| Performance Poll Interval (sec) | The default is 1800   |

## Troubleshooting

Some things to try if you encounter problems with this data collector:

### Inventory

| Problem:   | Try this:   |
|--|---|
| Receive a message that more than 1 node is logged into the Access Gateway port, or data collector fails to discover Access Gateway device. | Check that the NPV device is operating correctly and that all connected WWNs are expected. Do not directly acquire the NPV device. Instead, acquisition of the core fabric switch will collect the NPV device data. |

Additional information may be found from the [Support](#) page or in the [Data Collector Support Matrix](#).

## Brocade FC Switch data collector

Cloud Insights uses the Brocade FC Switch (SSH) data source to discover inventory for Brocade or rebranded switch devices running Factored Operating System (FOS) firmware 4.2 and later. Devices in both FC switch and Access Gateway modes are supported.

## Terminology

Cloud Insights acquires the following inventory information from the Brocade FC Switch data collector. For each asset type acquired by Cloud Insights, the most common terminology used for this asset is shown. When viewing or troubleshooting this data collector, keep the following terminology in mind:

| Vendor/Model Term               | Cloud Insights Term |
|---------------------------------|---------------------|
| Switch                          | Switch              |
| Port                            | Port                |
| Virtual Fabric, Physical Fabric | Fabric              |
| Zone                            | Zone                |
| Logical Switch                  | Logical Switch      |

| Vendor/Model Term | Cloud Insights Term |
|-------------------|---------------------|
| Virtual Volume    | Volume              |
| LSAN Zone         | IVR Zone            |

Note: These are common terminology mappings only and might not represent every case for this data collector.

## Requirements

- The Cloud Insights Acquisition Unit (AU) will initiate connections to TCP Port 22 on Brocade switches to collect inventory data. The AU will also initiate connections to UDP port 161 for collection of performance data.
- There must be IP connectivity to all switches in the fabric. If you select the Discover all switches in the fabric check box, Cloud Insights identifies all the switches in the fabric; however, it needs IP connectivity to these additional switches to discover them.
- The same account is needed globally across all switches in the fabric. You can use PuTTY (open source terminal emulator) to confirm access.
- Ports 161 and 162 must be open to all switches in the fabric for SNMP performance polling.
- SNMP read-only Community String

## Configuration

| Field                 | Description   |
|-----------------------|---|
| Switch IP             | IP address or fully-qualified domain name of the EFC Server |
| User Name             | User name for the switch                                    |
| Password              | Password for the switch                                     |
| SNMP                  | SNMP version  |
| SNMP Community String | SNMP read-only community string used to access the switch   |
| SNMP User Name        | SNMP user name  |
| SNMP Password         | SNMP password   |

## Advanced configuration

| Field                         | Description   |
|-------------------------------|---|
| Fabric name                   | Fabric name to be reported by the data collector. Leave blank to report the fabric name as WWN. |
| Inventory Poll Interval (min) | Interval between inventory polls. The default is 15.  |
| Excluded Devices              | Comma-separated list of device IDs to exclude from polling                                      |
| Admin Domains Active          | Select if using Admin Domains   |

| Field                                | Description   |
|--------------------------------------|---|
| Retrieve MPR Data                    | Select to acquire routing data from your multiprotocol router.  |
| Enable Trapping                      | Select to enable acquisition upon receiving an SNMP trap from the device. If you select enable trapping, you must also activate SNMP. |
| Minimum Time Between Traps (sec)     | Minimum time between acquisition attempts triggered by traps. The default is 10.  |
| Discover all switches in the fabric  | Select to discover all switches in the fabric   |
| Choose Favoring HBA vs. Zone Aliases | Choose whether to favor HBA or zone aliases   |
| Performance Poll Interval (sec)      | Interval between performance polls. The default is 300.   |
| SNMP Auth Protocol                   | SNMP authentication protocol (SNMP v3 only)   |
| SNMP Privacy Password                | SNMP privacy password (SNMP v3 only)  |
| SNMP Retries                         | Number of SNMP retry attempts   |

## Troubleshooting

Some things to try if you encounter problems with this data collector:

### Inventory

| Problem:   | Try this:   |
|--|---|
| <p>The inventory acquisition of the Brocade datasource fails with the error:</p> <pre>&lt;date&gt; &lt;time&gt; ERROR [com.onaro.sanscreen.acquisition.framework.datasource.BaseDataSource] Error 2 out of 2: &lt;datasource name&gt; [Internal error] - Unable to generate the model for device &lt;IP&gt;. Error detecting prompt ([Device name &lt;name&gt;]: Unable to generate the model for device &lt;IP&gt;. Error detecting prompt)</pre> | <p>The issue may be caused when the Brocade switch takes too long to return with a prompt, exceeding the default timeout of 5 seconds.</p> <p>In the data collector's Advanced Configuration settings in Cloud Insights, try increasing the <i>SSH Banner Wait Timeout (sec)</i> to a higher value.</p> |
| Error: "Cloud Insights received Invalid Chassis Role"  | Check that the user configured in this data source has been granted the chassis role permission.  |
| Error: "Mismatched Chassis IP Address"   | Change the data source configuration to use chassis IP address.   |
| Receive a message that more than 1 node is logged into the Access Gateway port   | Check that the NPV device is operating correctly and that all connected WWNs are expected. Do not directly acquire the NPV device. Instead, acquisition of the core fabric switch will collect the NPV device data.   |

Additional information may be found from the [Support](#) page or in the [Data Collector Support Matrix](#).

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