



3PAR StoreServ Storage data collector

Cloud Insights

Tony Lavoie, Dave Grace
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3PAR StoreServ Storage data collector

Cloud Insights uses the 3PAR StoreServ data collector to discover inventory and performance for HP 3PAR StoreServ storage arrays.

Terminology

Cloud Insights acquires the following inventory information from the 3PAR StoreServ 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:

Field	Description
Physical Disk	Disk
Storage System	Storage
Controller Node	Storage Node
Common Provisioning Group	Storage Pool
Virtual Volume	Volume

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:

- IP address or FQDN of the InServ cluster
- For inventory, read-only user name and password to the StoreServ Server
- For performance, read-write user name and password to the StoreServ Server
- Port requirements: 22 (inventory collection), 5988 or 5989 (performance collection) [Note: 3PAR Performance is supported for StoreServ OS 3.x+]
- For performance collection confirm that SMI-S is enabled by logging into the 3PAR array via SSH.

Configuration

Field	Description
Storage IP address	Storage IP address or fully-qualified domain name of the StoreServ cluster
User Name	User name for the StoreServ Server
Password	Password used for the StoreServ Server
SMI-S User Name	User name for the SMI-S Provider Host
SMI-S Password	Password used for the SMI-S Provider Host

Advanced configuration

Field	Description
Inventory Poll Interval (min)	Interval between inventory polls. The default is 40 minutes.
SMI-S Connectivity	Protocol used to connect to the SMI-S provider
Override SMI-S Default Port	If blank, use the default port from SMI-S Connectivity, otherwise enter the connection port to use
Performance Poll Interval (sec)	Interval between performance polls. The default is 300 seconds.

Troubleshooting

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

Inventory

Problem:	Try this:
"showsys" command doesn't return any result.	Run "showsys" and "showversion -a" from the command line and check if the version is supported by 3PAR.

Performance

Problem:	Try this:
Failed to connect or login. Provider initialization failed.	An all-numeric array name can cause problems with SMI-S server. Try changing the array name.
SMI-S user configured does not have any domain	Grant appropriate domain privileges to the configured SMI-S user
Cloud Insights states that it cannot connect/login to SMI-S service.	<p>Confirm there is no firewall between the CI AU and the array that would block the CI AU from making TCP connections to 5988 or 5989.</p> <p>Once that is done, and if you have confirmed there is no firewall, you should SSH to the array, and use the "showcim" command to confirm.</p> <p>Verify that:</p> <ul style="list-style-type: none">* Service is enabled* HTTPS is enabled* HTTPS port should be 5989 <p>If those all are so, you can try to "stopcim" and then a "startcim" to restart the CIM (i.e. SMI-S service).</p>

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

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