Configuring the EMC VNXe data collector

Cloud Insights

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Configuring the EMC VNXe data collector

The DELL EMC VNXe data collector provides inventory support for VNXe unified storage arrays. Cloud Insights currently supports iSCSI and NAS protocols.

Requirements

- The VNXe data collector is CLI based; you must install the Unisphere for VNXe CLI, (uemcli.exe) onto the acquisition unit where your VNXe data collector resides.
- uemcli.exe uses HTTPS as the transport protocol, so the acquisition unit will need to be able to initiate HTTPS connections to the VNXe.
- IP address or fully-qualified domain name of the VNXe device
- You must have at least a read-only user for use by the data collector.
- IP address of the managing Solutions enabler server.
- HTTPS on Port 443 is required
- The EMC VNXe data collector provides NAS and iSCSI support for inventory; fibre channel volumes will be discovered, but Cloud Insights does not report on FC mapping, masking, or storage ports.

Terminology

Cloud Insights acquires the following inventory information from the VNXe 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
Disk	Disk
Storage Array	Storage
Processor	Storage Node
Storage Pool	Storage Pool
General iSCSI Block info, VMWare VMFS	Share
Replication Remote System	Synchronization
iSCSI Node	iSCSI Target Node
iSCSI Initiator	iSCSI Target Initiator

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

Configuration

Field	Description
VNXe Storage	IP address or fully-qualified domain name of the VNXe device
User Name	User name for the VNXe device
Password	Password for the VNXe device

Advanced configuration

Field	Description
Inventory Poll Interval (min)	Interval between inventory polls. The default is 40 minutes
CLI Port	Port used for the VNXe CLI
Performance poll interval (sec)	The default is 300.

Troubleshooting

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

Inventory

Problem:	Try this:
"Failed to execute external utility" with error messages “Failed to find Unisphere executable uemcli”	* Verify correct IP address, username, and password * Confirm that Unisphere CLI is installed on the Cloud Insights Acquisition Unit * Confirm that Unisphere CLI installation directory is correct in the datasource configuration * Confirm that the IP of the VNXe is correct in the configuration of the datasource. From the Cloud Insights Acquisition Unit, open a CMD and change to to the configured installation directory: ${INSTALLDIR. Try to make a connection with the VNXe device by typing: uemcli -d <Your IP> -u <Your ID> /sys/general show

Additional information may be found from the Support page or in the Data Collector Support Matrix.

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