Dell EMC VNX Block Storage (NaviCLI) data collector

Cloud Insights

Tony Lavoie
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Dell EMC VNX Block Storage (NaviCLI) data collector

Cloud Insights uses the Dell EMC VNX Block Storage (NaviSec) data collector (formerly CLARiiON) to acquire inventory and performance data.

Terminology

Cloud Insights acquires the following inventory information from the EMC VNX Block Storage 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	Storage
Storage Processor	Storage Node
This Pool, RAID Group	Storage Pool
LUN	Volume

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

Requirements

The following requirements must be met in order to collect data:

- An IP address of each VNX block storage processor
- Read-only Navisphere username and password to the VNX block storage arrays
- NaviSecCli must be installed on the Cloud Insights AU
- Access validation: Run NaviSecCLI from the Cloud Insights AU to each array using the username and password.
- Port requirements: 80, 443
- NaviSecCLI version should correspond with the newest FLARE code on your array
- For performance, statistics logging must be enabled.

NaviSphere command line interface syntax

naviseccli.exe -h <IP address> -user <user> -password <password> -scope <scope,use 0 for global scope> -port <use 443 by default> command

Configuration

Field	Description
VNX Block Storage IP Address	IP address or fully-qualified domain name of the VNX block storage
User Name	Name used to log into the VNX block storage device.
Password	Password used to log into the VNX block storage device.
CLI Path to naviseccli.exe	Full path to the folder containing the *naviseccli.exe* executable

Advanced Configuration

Field	Description
Inventory Poll Interval (min)	Interval between inventory polls. Default is 40 minutes.
Scope	The secure client scope. The default is Global.
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:
Error: • Agent Not Running • Failed to find naviseccli • Failed to execute any command	• Confirm that NaviSphere CLI is installed on the Cloud Insight Acquisition Unit • You have not selected the "Use secure client" option in the data collector configuration wizard and do not have a non-secure version of Naviphere CLI installed. • Confirm that NaviSphere CLI installation directory is correct in the data collector configuration • Confirm that the IP of the VNX block storage is correct in the data collector configuration: • From the Cloud Insights Acquisition Unit: - Open a CMD. - Change the directory to the configured installation directory - Try to make a connection with the VNX block storage device by typing “navicli -h {ip} getagent” (replace the {ip} with the actual IP)
Error: 4.29 emc235848 emc241018 getall Failed to parse host alias info	This is likely caused by a FLARE 29 corruption issue of the host initiator database on the array itself. See EMC knowledge base articles: emc235848, emc241018. You can also check https://now.netapp.com/Knowledgebase/solutionarea.asp?id=kb58128
Error: Unable to retrieve Meta LUNs. Error Executing java -jar navicli.jar	• Modify the data collector configuration to use the secure client (recommended) • Install navicli.jar in the CLI path to navicli.exe OR naviseccli.exe • Note: navicli.jar is deprecated as of EMC Navisphere version 6.26 • The navicli.jar may be available on http://powerlink.emc.com
Error: Storage Pools not reporting disks on Service Processor at configured IP address	Configure the data collector with both Service Processor IPs, separated by a comma

Problem:	Try this:
Error: Revision mismatch error	• This is usually caused by updating the firmware on the VNX block storage device, but not updating the installation of NaviCLI.exe. This also might be caused by having different devices with different firmwares, but only one CLI installed (with a different firmware version). • Verify that the device and the host are both running identical versions of the software: - From the Cloud Insights Acquisition Unit, open a command line window - Change the directory to the configured installation directory - Make a connection with the CLARiiON device by typing “navicli -h ${ip} getagent” - Look for the version number on the first couple of lines. Example: “Agent Rev: 6.16.2 (0.1)” - Look for and compare the version on the first line. Example: “Navisphere CLI Revision 6.07.00.04.07”
Error: Unsupported Configuration - No Fibre Channel Ports	The device is not configured with any Fibre Channel ports. Currently, only FC configurations are supported. Verify this version/firmware is supported.

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

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