NetApp ONTAP Data Management Software Data Collector

Cloud Insights

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NetApp ONTAP Data Management Software Data Collector

This data collector acquires inventory and performance data from storage systems running Clustered Data ONTAP using read-only API calls from an administrator account.

Terminology

Cloud Insights acquires inventory and performance data from the Clustered Data ONTAP data collector. For each asset type acquired, the most common terminology used for the asset is shown. When viewing or troubleshooting this data collector, keep the following terminology in mind:

Vendor/Model Term	Cloud Insights Term
Disk	Disk
Raid Group	Disk Group
Cluster	Storage
Node	Storage Node
Aggregate	Storage Pool
LUN	Volume
Volume	Internal Volume

Requirements

The following are requirements to configure and use this data collector:

- You must have access to an Administrator account used for read-only API calls.
- Username (with read-only role name to ontapi application to the default Vserver) and password to log into NetApp cluster)
- Port requirements: 80 or 433
- License requirements:
 - FCP license and mapped/masked volumes required for discovery

Configuration

Field	Description
NetApp Management IP	IP address or fully-qualified domain name of the NetApp cluster
User Name	User name for NetApp cluster
Password	Password for NetApp cluster

Advanced configuration

Field	Description
Communication Port	Port used for NetApp API
Inventory Poll Interval (min)	Default is 60 minutes.
Performance Poll Interval (sec)	Default is 900 seconds.

Troubleshooting

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

Inventory

Problem:	Try this:
Receive 401 HTTP response or 13003 ZAPI error code and ZAPI returns "Insufficient privileges" or "not authorized for this command"	Check username and password, and user privileges/permissions.
Cluster version is < 8.1	Cluster minimum supported version is 8.1. Upgrade to minimum supported version.
ZAPI returns "cluster role is not cluster_mgmt LIF"	AU needs to talk to cluster management IP. Check the IP and change to a different IP if necessary
Error: "7 Mode filers are not supported"	This can happen if you use this data collector to discover 7 mode filer. Change IP to point to cdot filer instead.
ZAPI command fails after retry	AU has communication problem with the cluster. Check network, port number, and IP address. User should also try to run a command from command line from the AU machine.
AU failed to connect to ZAPI via HTTP	Check whether ZAPI port accepts plaintext. If AU tries to send plaintext to an SSL socket, the communication fails.

Problem:	Try this:
Communication fails with SSLException	AU is attempting to send SSL to a plaintext port on a filer. Check whether the ZAPI port accepts SSL, or use a different port.
Additional Connection errors: ZAPI response has error code 13001, "database is not open"	Check network, port number, and IP address. User should also try to run a command from command line from the AU machine.
ZAPI error code is 60 and response contains "API did not finish on time"	
ZAPI response contains "initialize_session() returned NULL environment"	
ZAPI error code is 14007 and response contains "Node is not healthy"	

Performance

Problem:	Try this:
"Failed to collect performance from ZAPI" error	This is usually due to perf stat not running. Try the following command on each node:
	> system node systemshell -node * -command "spmctl -h cmd –stop; spmctl -h cmd –exec"

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

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