



# ONTAP Data Management data collector

## Cloud Insights

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# Table of Contents

- ONTAP Data Management data collector ..... 1
  - Terminology..... 1
  - Requirements ..... 1
  - Configuration..... 2
  - Advanced configuration..... 2
  - Troubleshooting..... 2

# ONTAP Data Management data collector

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

## Terminology

Cloud Insights acquires inventory and performance data from the ONTAP Data management software 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 account used for read-only API calls.
- Target IP is the cluster management LIF.
- FCP license and mapped/masked volumes required for Cloud Insights discovery.
- CIFS and/or NFS license and CIFS shares or NFS exports required for Cloud Insights NAS discovery.
- Access validation: Telnet or SSH to the cluster management LIF from the acquisition unit, using the username and password.
- For Clustered ONTAP you need the IP cluster management LIF or the management IP of the cluster. Additionally, requires username (with read-only role name to ontapi application to the default Vserver, see below) and password to log into NetApp cluster.

To create a read-only user account (may be slightly different on different ONTAP versions), log into the NetApp storage system by using an SSH client and run the following command (case sensitive) and use your own user account variables:

```
security login role create -role test -cmddirname DEFAULT -access readonly
security login create - user-or-group-name useraccount -application ontap -authmethod
password -role test-vserver storagename
```

## 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
Connection Type	HTTPS or HTTP, also displays the default port
Override Connection Port	If blank, use the default port in the Connection Type field, otherwise enter the connection port to use
Inventory Poll Interval (min)	Default is 20 minutes.
Performance Poll Interval (sec)	Default is 300 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

<b>Problem:</b>	<b>Try this:</b>
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.
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.
<p>Additional Connection errors:</p> <p>ZAPI response has error code 13001, “database is not open”</p> <p>ZAPI error code is 60 and response contains “API did not finish on time”</p> <p>ZAPI response contains “initialize_session() returned NULL environment”</p> <p>ZAPI error code is 14007 and response contains “Node is not healthy”</p>	Check network, port number, and IP address. User should also try to run a command from command line from the AU machine.

## Performance

<b>Problem:</b>	<b>Try this:</b>
“Failed to collect performance from ZAPI” error	<p>This is usually due to perf stat not running. Try the following command on each node:</p> <pre>&gt; system node systemshell -node * -command "spmctl -h cmd -stop; spmctl -h cmd -exec"</pre>

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

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