Splunk® Supported Add-ons
Splunk Add-on for NetApp Data ONTAP Extractions released

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Table of Contents

Overview

About the Splunk Add-on for NetApp Data ONTAP Extractions

Version	3.0.2
Vendor products	NetApp Data ONTAP

The Splunk Add-on for NetApp Data ONTAP Extractions defines the search-time extractions for the data collected by Splunk Add-on for NetApp Data ONTAP.

The package included in Splunk Add-on for NetApp Data ONTAP Extractions (TA-ONTAP-FieldExtractions) was previously part of Splunk Add-on for NetApp Data ONTAP in v3.0.1 or below. The package is being released as an individual Splunkbase add-on to add the support for self-service installation of the package in the cloud environments.

Download the Splunk Add-on for NetApp Data ONTAP Extractions from Splunkbase at https://splunkbase.splunk.com/app/5615/.

Release notes for the NetApp Data ONTAP Extractions

Version 3.0.2 of Splunk Add-on for NetApp Data ONTAP Extractions was released on July 2, 2021. This is the first release of Splunk Add-on for NetApp Data ONTAP Extractions.

The package included in Splunk Add-on for NetApp Data ONTAP Extractions (SA-ONTAPIndex) was previously part of Splunk Add-on for NetApp Data ONTAP in v3.0.1 or below. The package is being released as an individual Splunkbase App to create support for self-service installation in cloud environments for the Splunk Add-on for NetApp Data ONTAP and dependent add-ons.

What's new

These features are available in the Splunk Add-on for NetApp Data ONTAP Extractions v3.0.2. For compatibility information, see Data collection planning and requirements.

New feature or enhancement	Description
Search-time extractions	The package contains search-time extractions for the data collected by Splunk Add-on for NetApp Data ONTAP.
Addition of Hydra troubleshooting dashboards	You can use these dashboards to identify the issues related to jobs and your scheduler machine: • Hydra Scheduler Status • Hydra Framework Status These dashboards were previously included in the SA-Hydra package, which was required on the search head. As we have added these dashboards to TA-ONTAP-FieldExtractions, SA-Hydra is no longer required on the search head.

New feature or enhancement	Description
Support for self-service installation in cloud environments	Customers of the Splunk Add-on for NetApp Data ONTAP on cloud environment can install this package by following the cloud installation steps. As the add-on package was previously part of the Splunk Add-on for NetApp Data ONTAP (for v3.0.1 or below), existing customers of Splunk Add-on for NetApp Data ONTAP have to follow the upgrade steps for the Splunk Add-on for NetApp Data ONTAP to switch to the version of the add-on that supports self-service installation.

Known issues

This version of the Splunk Add-on for NetApp Data ONTAP Extractions has the following reported known issues and workarounds. If no issues appear below, no issues have yet been reported.

Date filed	Issue number	Description
2021-06-01	NETAPP-1027	Drill-down not working in Event viewer panels in Hydra Framework in Splunk 8.2.0
2017-03-08	NETAPP-801	Need to extract "ontap_version" field for NETAPP cluster mode having API version higher than v1.30.

Fixed issues

This version of the Splunk Add-on for NetApp Data ONTAP Extractions has the following reported fixed issues. If no issues appear below, no issues have yet been reported.

Release history for the Splunk Add-on for NetApp Data ONTAP Extractions

Latest release

The latest version of the Splunk Add-on for NetApp Data ONTAP Extractions is 3.0.2. See the Release notes for the Splunk Add-on for NetApp Data ONTAP Extractions for the release notes of this latest version.

Installation and configuration

Data collection planning and requirements for the Splunk Add-on for NetApp Data ONTAP Extractions

Before you deploy the Splunk Add-on for NetApp Data ONTAP Extractions review these requirements.

Splunk platform version requirements

- For Splunk Enterprise system requirements, go to System requirements for use of Splunk Enterprise on-premises in the Splunk Enterprise Installation Manual.
- For Splunk Light system requirements, go to System Requirements in the Splunk Light in the Splunk Light Installation Manual.
- If you're managing on-premises forwarders to get data into Splunk Cloud, go to System requirements for use of Splunk Enterprise on-premises, which includes information about forwarders.

Current add-on version	Supported versions of Splunk Enterprise
3.0.2	• 8.0.x • 8.1.x • 8.2.x • 9.0.0

Add-on version compatibility

Splunk Add-on for NetApp Data ONTAP Extractions version	Compatible Splunk Add-on for NetApp Data ONTAP version
3.0.2	3.0.2

Installation and configuration overview for the Splunk Add-on for NetApp Data ONTAP Extractions

The Splunk Add-on for NetApp Data ONTAP Extractions package is a prerequisite for Splunk Add-on for NetApp Data ONTAP as it contains the search-time extractions for the data collected by Splunk Add-on for NetApp Data ONTAP. The package also contains hydra troubleshooting dashboards to identify issues related to jobs handled by the scheduler and SA-Hydra component. You only have to install this package on search head.

Package contents

The Splunk Add-on for NetApp Data ONTAP Extractions build contains the TA-ONTAP-FieldExtractions package.

Deploy the Splunk Add-on for NetApp Data ONTAP Extractions

This table shows the required install location for the Splunk Add-on for NetApp Data ONTAP Extractions component. Go to the Installation Overview for the Splunk Add-on for NetApp Data ONTAP to see complete deployment details.

Component		Indexer			

	Search head		Data collection node	Data collection scheduler	The operation performed by the package
TA-ONTAP-FieldExtractions	X			`	Defines the extractions for the data collected by Splunk Add-on for NetApp Data ONTAP and provides the Hydra Troubleshooting dashboards on search head.

Install and Configure the Splunk Add-on for NetApp Data ONTAP Extractions

Install and configure the Splunk Add-on for NetApp Data ONTAP Extractions in an on-premises environment

Follow these steps to install the add-on on a search head in an on-premises environment:

Deploy the Splunk Add-on for NetApp Data ONTAP Extractions to cluster search-head deployment

You have to use a search head cluster deployer to push the configurations across all the search head nodes. Follow these steps on search head cluster deployer:

1. Download the Splunk Add-on for NetApp Data ONTAP Extractions package from Splunkbase and extract the TA-ONTAP-FieldExtractions package from the download and save it to etc/shcluster/apps.
2. Verify that all the required components were copied correctly and reside in the $SPLUNK_HOME/etc/shcluster/apps folder.
3. On your deployer, deploy the package to every member of your search head cluster using this command:

```
./splunk apply shcluster-bundle -target <URI>:<management_port> -auth <username>:<password>
```

Once you have completed the installation, all the search-time extractions are available and the Hydra troubleshooting dashboards are visible in the dashboards list. No other steps are required for configuration.

Deploy the Splunk Add-on for NetApp Data ONTAP Extractions to non-clustered search-head deployment

1. Stop your Splunk search head instance.
2. Download the Splunk Add-on for NetApp Data ONTAP Extractions from Splunkbase.
3. Extract the TA-ONTAP-FieldExtractions package from the download and save it to $SPLUNK_HOME\etc\apps.
4. Start your Splunk search head instance.

Once you have completed the installation, all the search-time extractions are available and the Hydra troubleshooting dashboards are visible in the dashboards list. No other steps are required for configuration.

Install and configure the Splunk Add-on for NetApp Data ONTAP Extractions in a cloud environment

1. Log in to your search head.
2. On the Splunk Web home page, click **Find More Apps**.
3. Search for "Splunk Add-on for NetApp Data ONTAP Extractions" and click **Install**.
4. Enter your Splunk.com login credentials, read and accept the terms and conditions, and click **Login and Download**.
5. Go to **Apps** > **Manage Apps** to review the installed app on the **Apps** page.

Once you have completed the installation, all the search-time extractions are available and the Hydra troubleshooting dashboards are visible in the dashboards list. No other steps are required for configuration.

Reference

Hydra Framework Status

Use the Hydra Framework Status page to identify issues related to jobs handled by SA-Hydra. You can view the Hydra Framework Status page following this link for your Splunk platform deployment.
https://<SH>:8000/en-US/app/search/hydra_framework_status.

To enable data population for this page follow these steps on the data collection node (DCN):

1. Navigate to Splunk_TA_ontap/local/input.conf
2. Set the `log_level=DEBUG` for all enabled worker stanzas.
3. Save your changes and restart your Splunk platform deployment.

Dashboard name	Description
Job Expirations by DCN	Number of jobs assigned and expired on each DCN versus time. DCN (Worker) logs are required to populate this panel.
Jobs Handled by DCN	Number of jobs successfully completed by each DCN versus time. DCN (Worker) logs are required to populate this panel.
Job Scheduling Duration Range (DEBUG level logs only)	Average, Max and Min time taken for Scheduler to assign jobs to DCNs at every iteration versus time. It will populate when DEBUG level is enabled on your scheduler. Scheduler logs are required to populate this panel.
Collection Task Duration Range (Log Scale)	Minimum, Median and Maximum execution time to perform all the task. DCN (Worker) logs are required to populate this panel.
Median Task Performance Over Targets	Target (vCenter) and task wise median job execution time reported by Worker on DCN. DCN (Worker) logs are required to populate this panel.
Task Expiration Count Over DCN	Task wise no. of jobs assigned and expired on each DCN. DCN (Worker) logs are required to populate this panel.
Task Failure Count Over Target	Task wise no. of jobs assigned and failed on each DCN. DCN (Worker) logs are required to populate this panel.
Last 100 Worker Errors - excluding expiration	Last 100 errors occurred in worker processes in all DCNs excluding errors which occurred due to job expiration. DCN (Worker) logs are required to populate this panel.
Last 100 Scheduler Errors	Last 100 errors occurred in Scheduler process. Scheduler logs are required to populate this panel.

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Hydra Framework Status

Status of job execution in the hydra distributed collection framework

Collection:

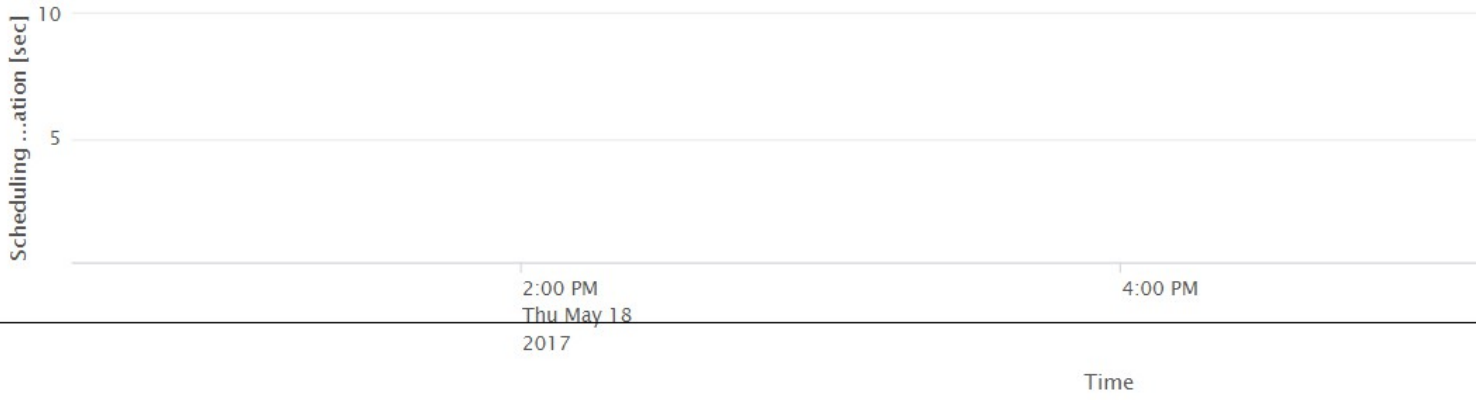
Last 6 hours | Netapp Ontap | Hide Filters

Job Expirations by DCN

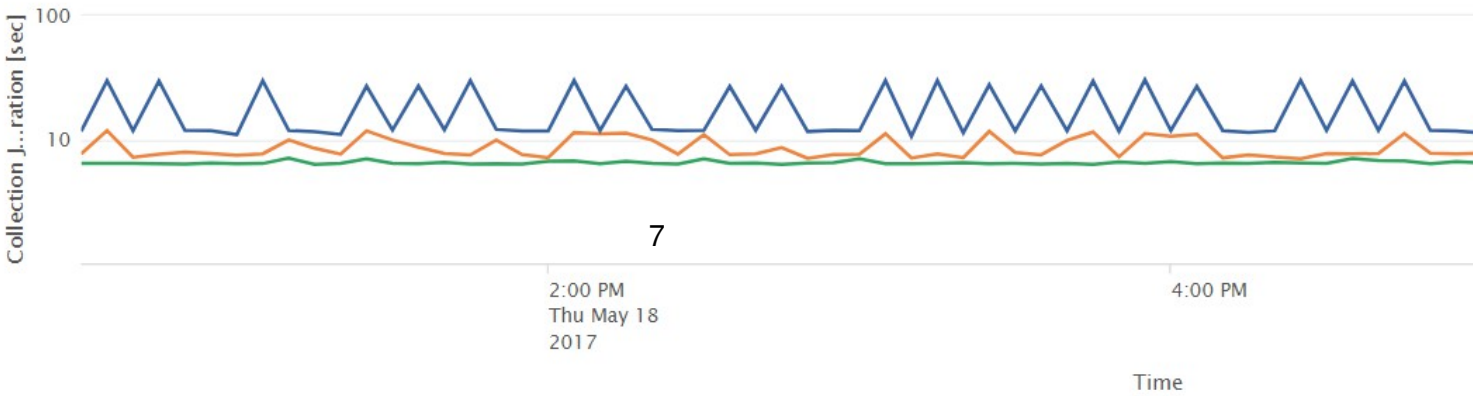
No results found.

Jobs Handled by

Job Scheduling Duration Range (DEBUG level logs only)



Collection Task Duration Range (Log Scale)



Hydra Scheduler Status

Use the Hydra Scheduler Status page to identify issues related to jobs handled your scheduler. You can view the Hydra Scheduler Status page by following this link for your Splunk platform deployment.
https://<SH>:8000/en-US/app/search/hydra_scheduler_status.

To enable data population for this page follow these steps on the data collection node (DCN):

1. Navigate to Splunk_TA_ontap/local/input.conf
2. Set the `log_level=DEBUG` for all enabled worker stanzas.
3. Save your changes and restart your Splunk platform deployment.

Dashboard name	Description
Job Assignment by DCN	Number of jobs assigned to each DCN versus time. It will populate when DEBUG level is enabled on scheduler. Scheduler logs are required to populate this panel.
Max Unclaimed Queue Length by DCN	Number of unclaimed jobs reported by each DCN to Scheduler versus time. It will populate when DEBUG level is enabled on scheduler. Scheduler logs are required to populate this panel.
Dead Nodes	List of dead nodes (DCNs) and their count at every 5 minute interval. Scheduler logs are required to populate this panel.

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Home Search Proactive Monitoring Reports Settings

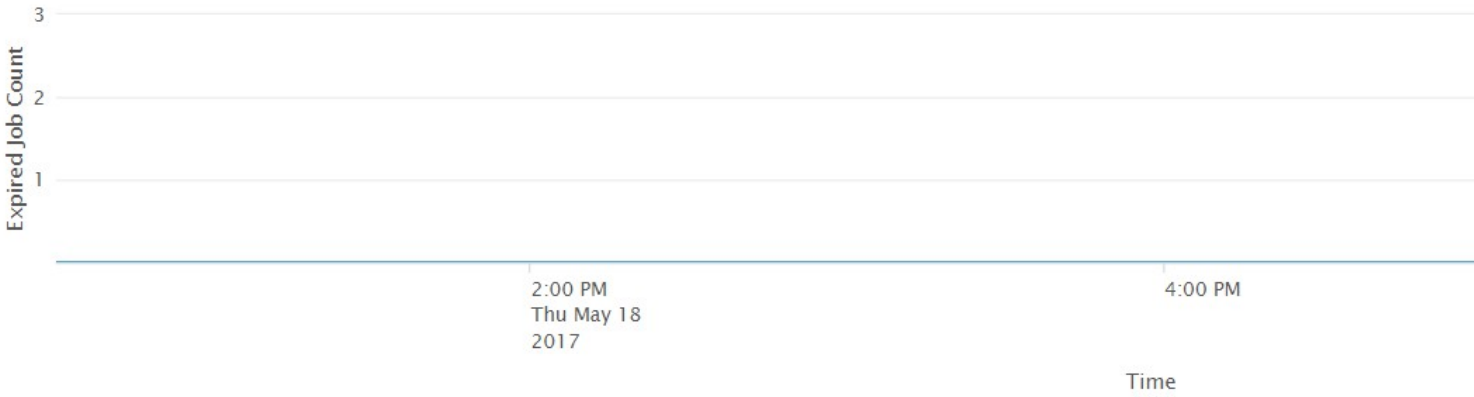
Hydra Scheduler Status

Status of hydra scheduling and management

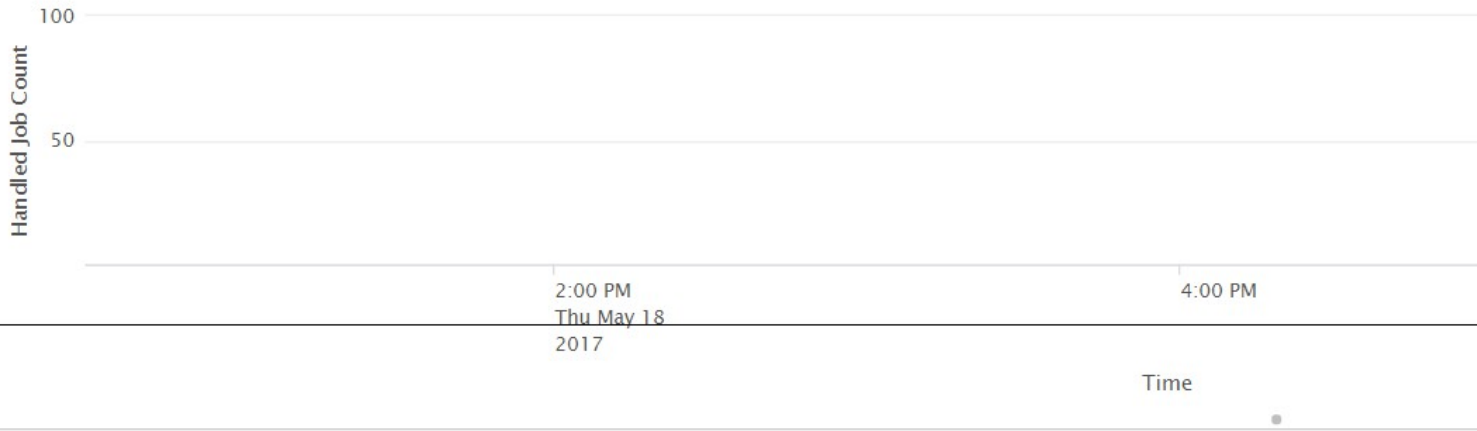
Collection:

Last 6 hours | Netapp Ontap | Hide Filters

Job Assignment by DCN



Max Unclaimed Queue Length by DCN



Dead Nodes

_time
2017-05-18 18:30:00
2017-05-18 18:35:00
2017-05-18 18:40:00
2017-05-18 18:45:00
2017-05-18 18:50:00
2017-05-18 18:55:00
2017-05-18 19:00:00
2017-05-18 19:05:00
2017-05-18 19:10:00

Third-Party Software

Credits

There is no third-party library used in Splunk Add-on for NetApp Data ONTAP Extractions.