

Splunk4Admins - Splunk Cloud Storage

Lab Guide

Overview

This lab guide contains the hands-on exercises for the **Splunk4Admins - Splunk Cloud Storage** workshop. Before proceeding with these exercises, please ensure that you have a copy of the workshop slide deck, which will help to put into context the tasks you are carrying out.

Download the workshop slide deck: <https://splk.it/S4A-SCS-Attendee>

Prerequisites

In order to complete these exercises, you will need your own Splunk instance. Splunk's hands-on workshops are delivered via the [Splunk Show portal](#) and you will need a splunk.com account in order to access this.

If you don't already have a Splunk.com account, please create one [here](#) before proceeding with the rest of the workshop.




Troubleshooting Connectivity

If you experience connectivity issues with accessing either your workshop environment or the event page, please try the following troubleshooting steps. If you still experience issues please reach out to the team running your workshop.

- **Use Google Chrome** (if you're not already)
- If the event page (i.e. <https://show.splunk.com/event/<eventID>>) didn't load when you clicked on the link, try **refreshing the page**
- **Disconnect from VPN** (if you're using one)
- **Clear your browser cache and restart your browser** (if using Google Chrome, go to: Settings > Privacy and security > Clear browsing data)
- **Try using private browsing mode** (e.g. Incognito in Google Chrome) to rule out any cache issues
- **Try using another computer** such as your personal computer - all you need is a web browser! Cloud platforms like AWS can often be blocked on corporate laptops.

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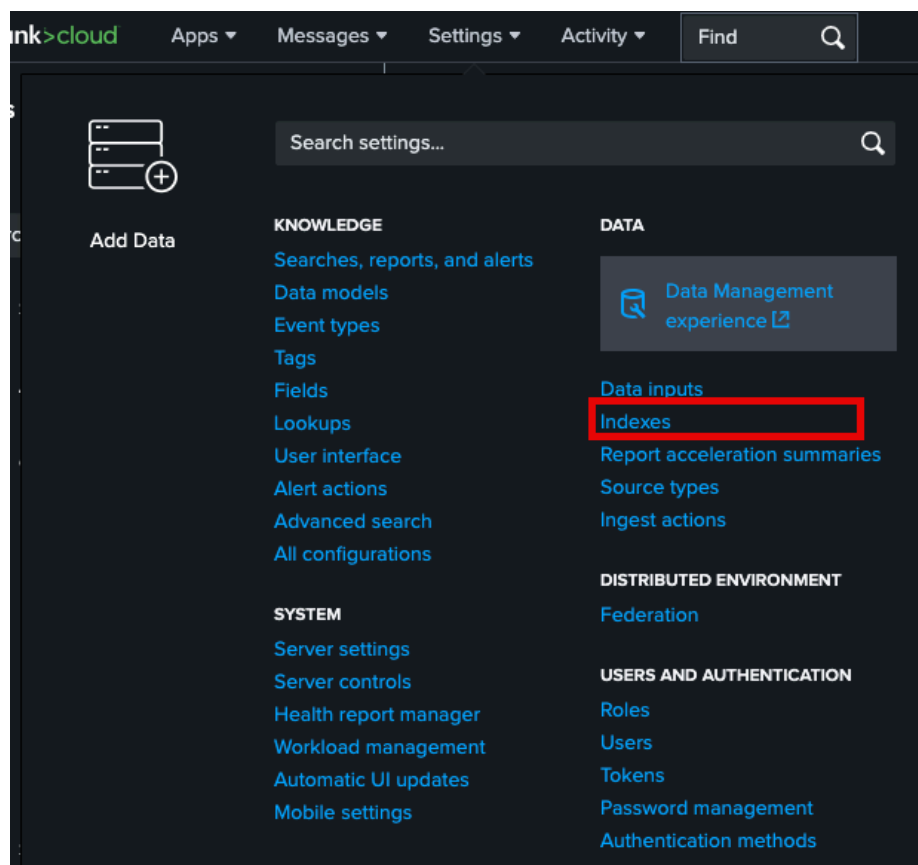
Exercise 1 – Create New Index with DDAA

Description

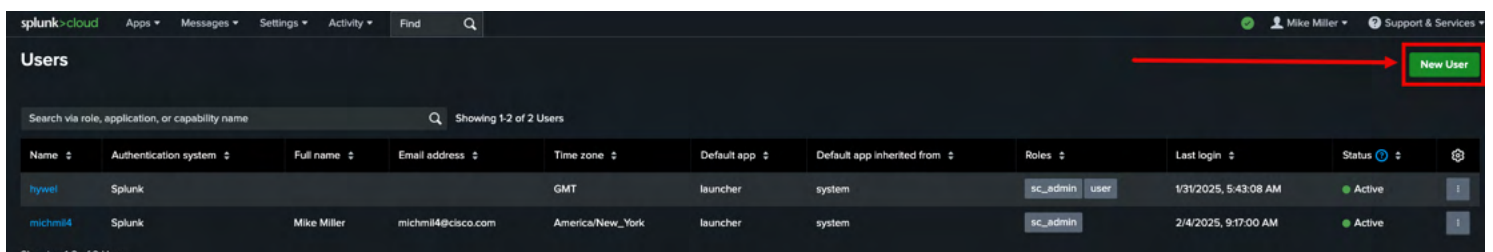
In this exercise we will create a new index called **test_two** and set the searchable retention and the Archive retention periods.

Steps:

1. Log in to your Splunk Cloud instance
2. Click Settings
3. Click Indexes



4. Click New Index



5. Create the index using the table below:

Index Name	test_two
Data Type	Events
Max Raw Data	100 MB
Searchable Retention	1 day
Archive Retention Period	10 Days

New Index ×

Index name

test_two

Index Data Type

Events

Metrics

The type of data to store (event-based or metrics).

Max raw data size

100

MB

Maximum aggregated size of raw data (uncompressed) contained in index. Set this to 0 for unlimited. Max raw data size values less than 100MB, other than 0, are not allowed.

Searchable retention (days)

1

Number of days the data is searchable

Dynamic Data Storage

☒ Splunk Archive ?

Archive Retention Period

10

days

The archive retention period is the total amount of time Splunk retains your data, and includes the searchable retention period. Set an archive retention period value that is greater than the searchable retention period value. [Learn More](#)

☐ Self Storage ?

☐ No Additional Storage

[Learn More](#)

Cancel

Save

6. Verify the index was created correctly by reviewing the Indexes screen (Note it may take a few moments for the new index to show up in Splunk Cloud. Refresh the page if necessary)

Indexes

A repository for data in Splunk Cloud. Indexes reside in flat files on the Splunk Cloud instance known as the indexes. [Learn more](#)

7 indexes App: All filter 20 per page

Name	Actions	Type	Category	App	Current Size	Max Size	Event Count	Earliest Event	Latest Event	Searchable Retention	Archive Retention	Self Storage	Status
history	Edit Delete	Events	Regular	._cluster	0 B	unlimited	0			7 days			✓ Enabled
testchanceindex	Edit Delete	Events	Regular	100-whisper-indexer	0 B	unlimited	0			2 years 364 days			✓ Enabled
main	Edit Delete	Events	Regular	100-42-config	0 B	unlimited	0			2 years 364 days			✓ Enabled
splunklogger	Edit Delete	Events	Regular	._cluster	0 B	unlimited	0			2 years 364 days			✗ Disabled
summary	Edit Delete	Events	Regular	._cluster	337.92 KB	unlimited	105K	a day ago	an hour ago	2 years 364 days			✓ Enabled
test_one	Edit Delete Restore	Events	Regular	search	3.42 GB	100 MB	24.3M	18 hours ago	an hour ago	1 day	2 days		✓ Enabled
test_two	Edit Delete Restore	Events	Regular	._cluster_admin	0 B	100 MB	0			1 day	10 days		✓ Enabled

Completion Tracker (Optional):

You can use this drop down to track your progress of each exercise. This is completely optional, but may be a good indicator in more details or complex workshop scenarios.

Incomplete ▾

Exercise 2 – Practice Data Restore Process from DDAA

Description

In this exercise explore the process of data restoration for the **test_two** index created above, however we will not actually be restoring data here due to limitations in the workshop environment.

Steps:

1. Log in to your Splunk Cloud Instance
2. Click Settings
3. Click Indexes
4. For the index **test_two**, click the Restore link

Indexes

A repository for data in Splunk Cloud. Indexes reside in flat files on the Splunk Cloud instance known as the indexer. [Learn more](#)

6 Indexes App: All filter

Name ^	Actions	Type ^	Category ^	App ^	Current Size ^ ?
history	Edit Delete	Events	Regular	_cluster	0 B
lastchanceindex	Edit Delete	Events	Regular	100-whisper-indexer	0 B
main	Edit Delete	Events	Regular	100-s2-config	0 B
splunklogger	Edit Delete	Events	Regular	_cluster	0 B
summary	Edit Delete	Events	Regular	_cluster	2.07 MB
test_one	Edit Delete Restore	Events	Regular	_cluster_admin	41.32 GB

Restore Archive

Name **test_one**

Time Range (UTC)

2/4/2025

to

2/4/2025

2025-02-04 00:00:00 AM (UTC) to 2025-02-04 00:00:00 AM (UTC).

Description

None

Describe this retrieve job. Limit to 60 characters.

Email

Comma-separated list of email addresses to notify when data restoration completes.

Recently Archived Data

☐ Exclude

Restore data archived within the last 48 hours. Caution: Some of the archived data might not be restored. [Learn More](#)

Check Size

Restore

There is no archive retrieval history.

5. On the Restore Archive set the following:
 - a. **Time Range** = 2/3/2025 to 2/3/2025
 - b. **Description** = Test Restore
 - c. **Recently Archived Data** = Disabled
6. Click the X in the upper right corner to close out the Restore Archive window

Completion Tracker (Optional):

You can use this drop down to track your progress of each exercise. This is completely optional, but may be a good indicator in more details or complex workshop scenarios.

Incomplete ▾

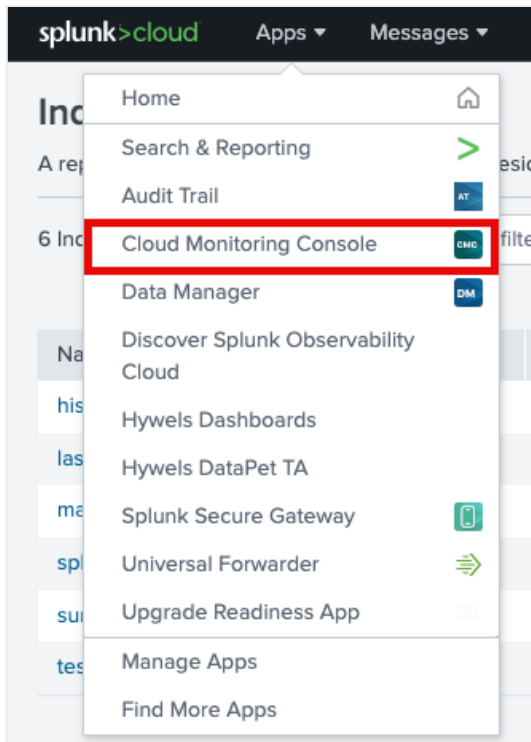
Exercise 3 – Reviewing the CMC

Description:

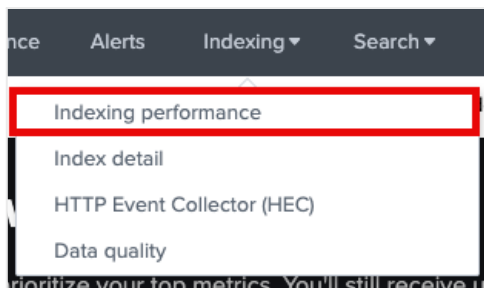
In this exercise we will review storage related dashboards in CMC.

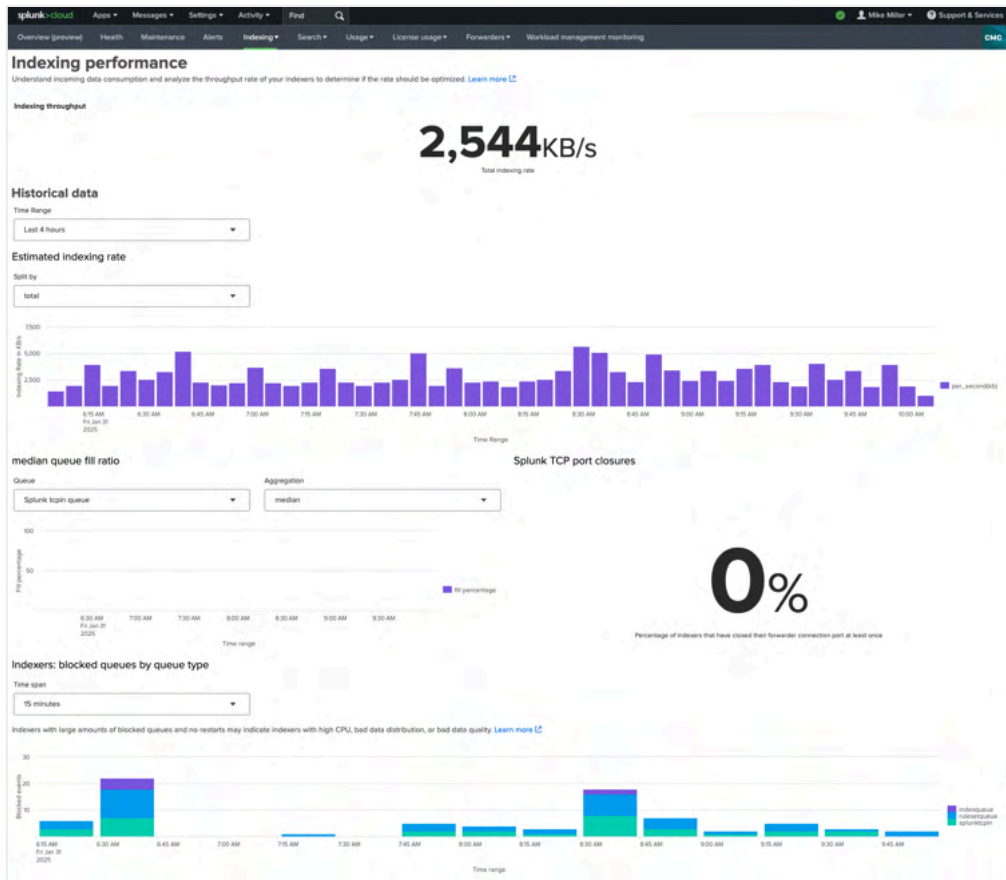
Steps:

1. Log in to your Splunk Cloud instance
2. Click Apps
3. Select Cloud Monitoring Console



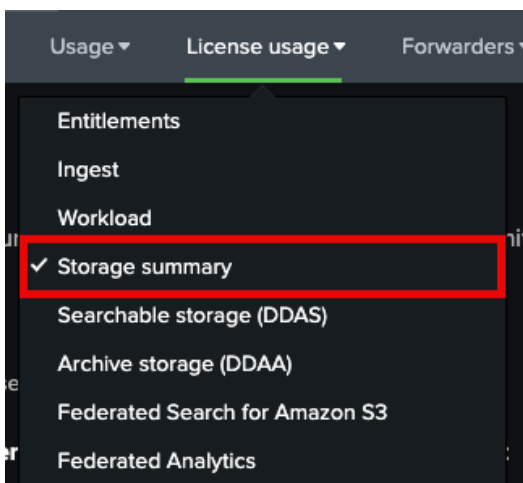
4. Click on Indexing > Indexing Performance

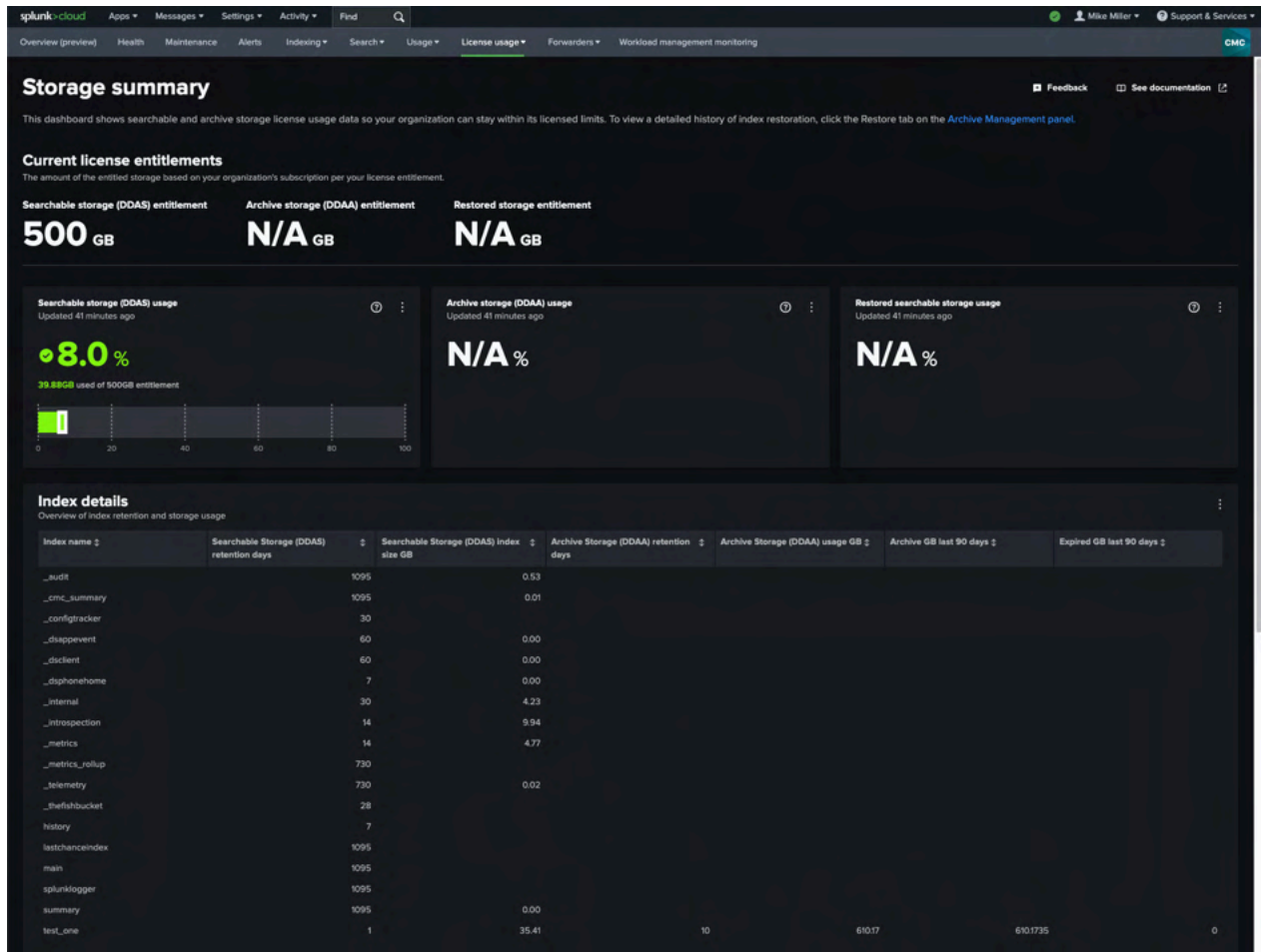




What is the current Indexing throughput?

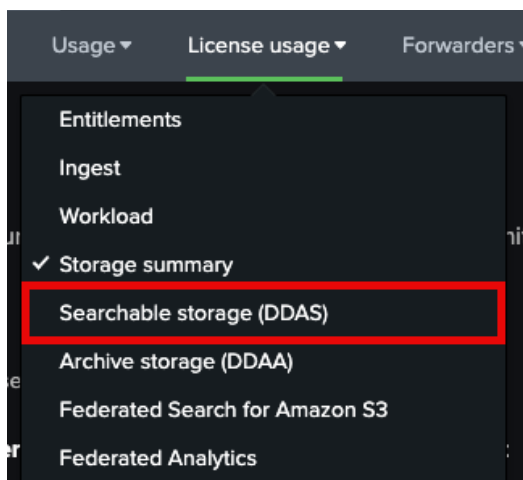
5. Next click on Licensing Usage > Storage Summary

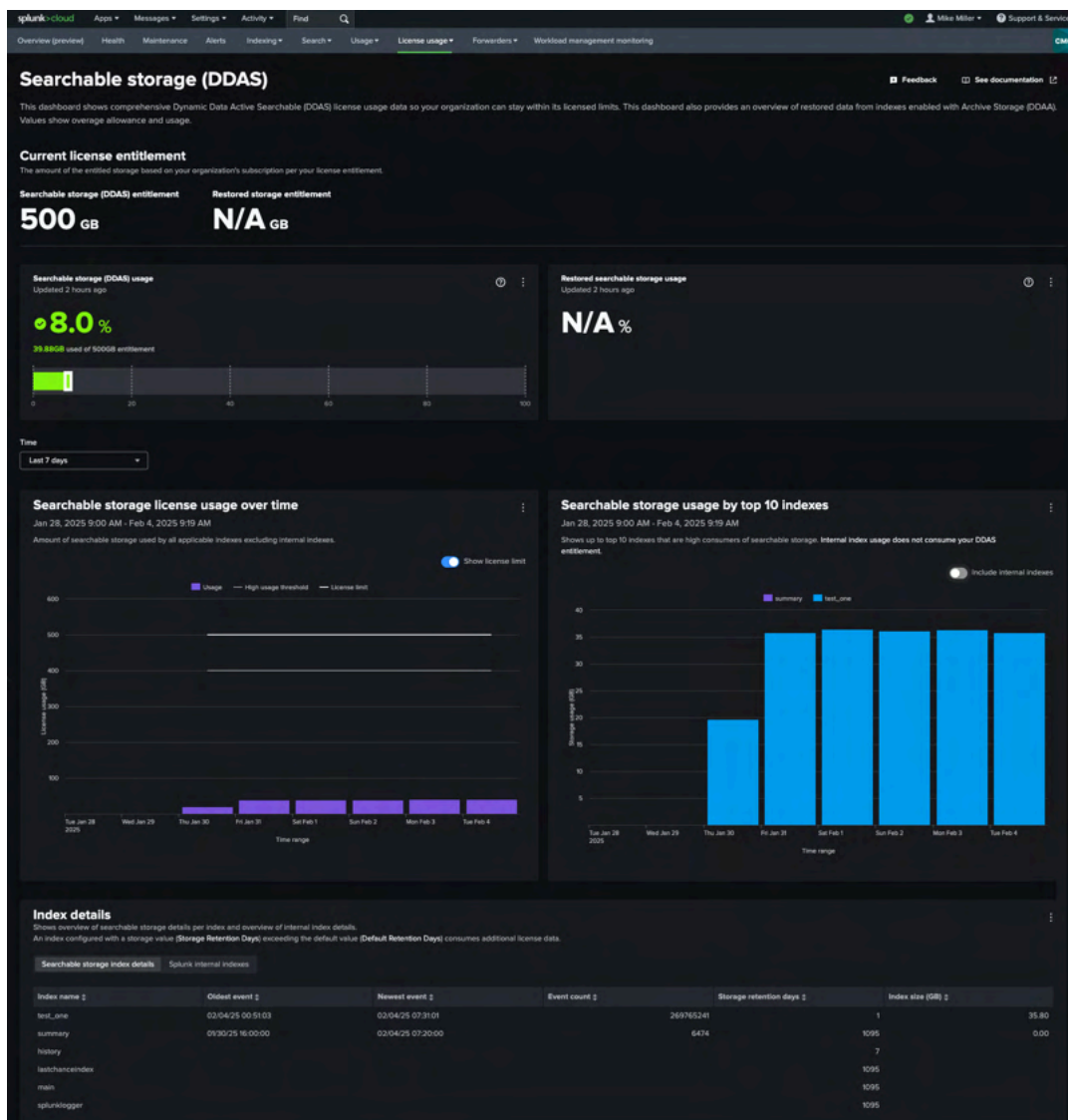




What is the current usage percentage of DDAS?

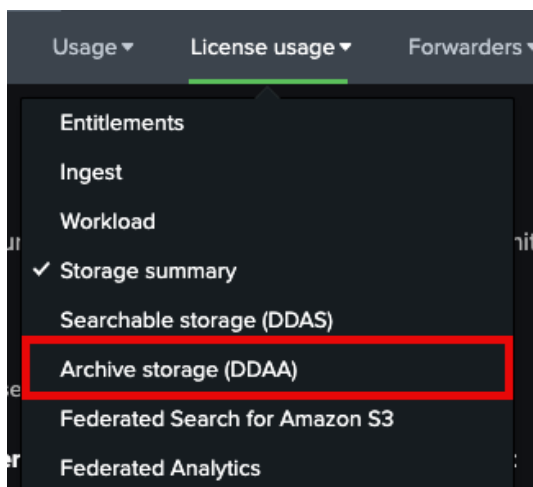
6. Next click on License Usage>Searchable Storage DDAS

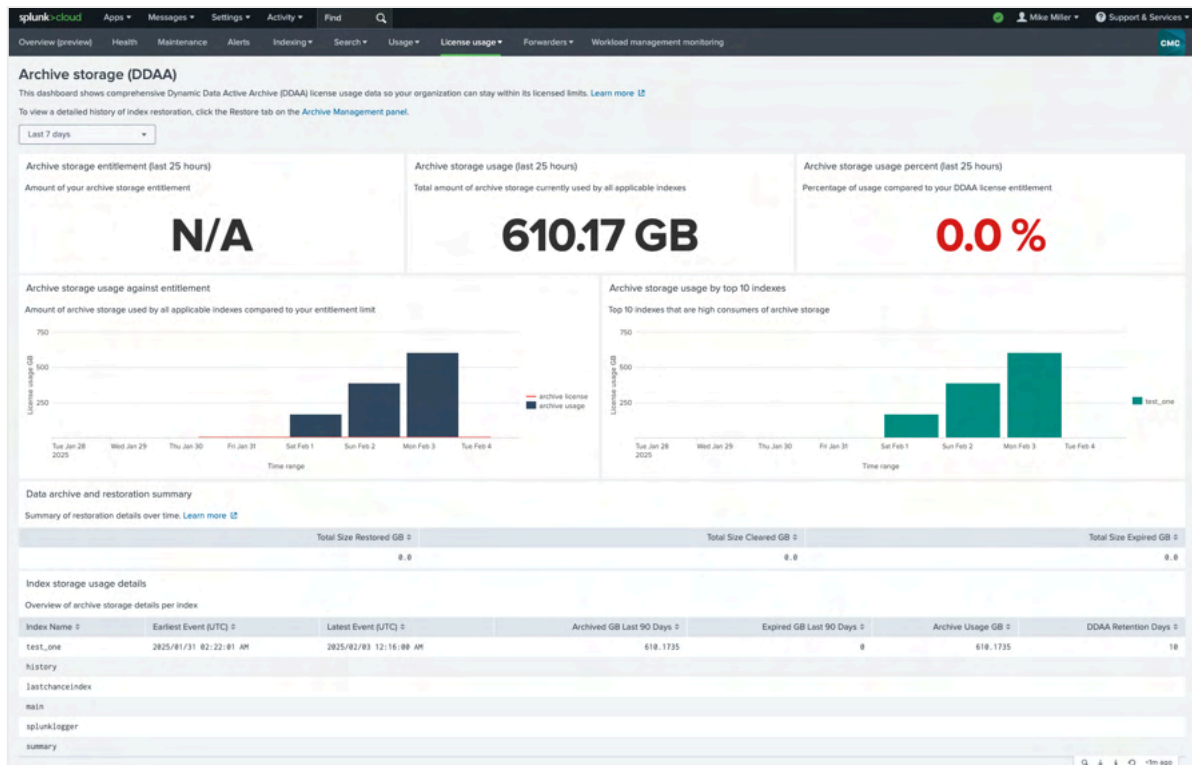




What is the value for the number of Storage retention days for the test_one index?

7. Finally click on License Usage>Archive Storage (DDAA)





What is the Archive storage usage (last 25 hours)?

Completion Tracker (Optional):

You can use this drop down to track your progress of each exercise. This is completely optional, but may be a good indicator in more details or complex workshop scenarios.

Incomplete

Links

Title	Links
Splunk Cloud Platform Service Details	https://docs.splunk.com/Documentation/SplunkCloud/latest/Service/SplunkCloudservice#Storage
Dynamic Data: Data Retention Options in Splunk Cloud	https://www.splunk.com/en_us/blog/platform/dynamic-data-data-retention-options-in-splunk-cloud.html?locale=en_us
Store expired Splunk Cloud Platform data in your private archive	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/DataSelfStorage#Performance
Sizing your Splunk Architecture	https://lantern.splunk.com/Splunk_Platform/Product_Tips/Administration/Sizing_your_Splunk_architecture
Optimizing Storage	https://lantern.splunk.com/Splunk_Platform/Splunk_Outcome_Paths/Reduce_Costs/Optimizing_storage
Using Indexing Dashboards	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringIndexing
Using the License Usage Dashboard	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringLicenseUsage