

# Splunk4Admins

Splunk Cloud Storage Workshop



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# Please introduce yourself!

- Name
- Company/organisation
- Role
- Are you currently using Splunk?
- What are you interested in using Splunk for?





# Enroll in Today's Workshop

## Tasks

1. Get a splunk.com account if you don't have one yet:  
<https://splk.it/SignUp>
2. Enroll in the Splunk Show workshop event:  
<https://show.splunk.com/event/<eventID>>
3. Download the hands-on lab guide:  
<https://splk.it/S4A-SCS-Lab-Guide>  

Contains step-by-step instructions for all of today's exercises!
4. Download a copy of today's slide deck:  
<https://splk.it/S4A-SCS-Attendee>

## Goal

Enroll in today's event

Home > Splunk4Rookies

**Splunk4Rookies**

Platform

▶ AVAILABLE



👤 Enroll event

🔍 Request Help

# Workshop Agenda

- **Overview**
- **Storage Options for Splunk Cloud**
- **Dynamic Data: Active Searchable (DDAS)**
- **Dynamic Data: Active Archive (DDAA)**
- **Dynamic Data: Self Storage (DDSS)**
- **Best Practices for Splunk Cloud Storage**
- **Monitoring and Troubleshooting**
- **Summary**

# Overview

## Splunk Cloud Storage

The goal of this workshop is to review options for monitoring the Splunk Cloud Storage, as well as provide general tips and tricks to optimize performance.

### General Expectations

- Duration 60 to 90 Minutes
- Understanding of Splunk Cloud storage configurations and options
- Monitoring Splunk Cloud Storage
- Understanding of Splunk Cloud Storage operations

### Audience

Audience	Recommendation
Those who are interested in how to observe and detect issues within Splunk Enterprise Search	
Splunk Admins	
Power User Certified	Required
Splunk Admin enabled \ Splunk Admin Certified	Preferred

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# Storage Options for Splunk Cloud

## Overview of Storage Options

Dynamic Data Active Searchable	DDAS	<ul style="list-style-type: none"><li>• Set per Index</li><li>• Default Storage for Splunk Cloud</li><li>• Initial landing area for all indexed data</li><li>• Optimized for fast search and analysis</li></ul>
Dynamic Data Active Archive	DDAA	<ul style="list-style-type: none"><li>• Set per Index</li><li>• Long-term lower cost storage</li><li>• Optimized for data that is less frequently access but needs to remain searchable</li><li>• Suitable for Legal and compliance purposes</li><li>• Managed by Splunk</li></ul>
Dynamic Data Self-Storage	DDSS	<ul style="list-style-type: none"><li>• Set per index</li><li>• Long term archiving solution</li><li>• Stored on customers cloud storage (AWS S3, GCP)</li><li>• Customer owned and managed</li></ul>

<https://docs.splunk.com/Documentation/SplunkCloud/latest/Service/SplunkCloudservice#Storage>



# Workshop Agenda

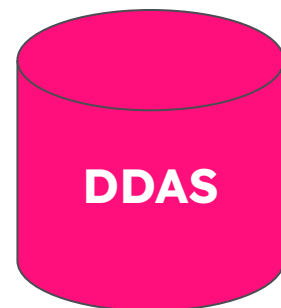
- Overview
- Storage Options for Splunk Cloud
- **Dynamic Data: Active Searchable (DDAS)**
- Dynamic Data: Active Archive (DDAA)
- Dynamic Data: Self Storage (DDSS)
- Best Practices for Splunk Cloud Storage
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# Diving Deeper on DDAS

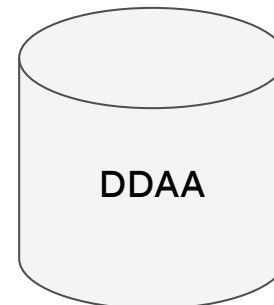
## Dynamic Data Active Searchable - Use Case Examples

### Use Case:

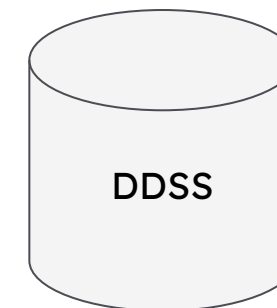
- **Data must be stored and retrieved in the index as fast as possible with little to no latency.**
- Data must be stored, for compliance purposes, for 180 Days then it can be purged
- Uncompressed data is estimated to be between 500 GB and **700 GB** per day.



- **Fastest storage**
- Most Expensive
- **Intended for fast search and retrieval**
- **Intended for short term storage**
- Directly attached to Splunk Cloud Instance.



- Slower storage
- More Cost effective
- Intended for long term archival and compliance
- Directly attached to Splunk Cloud instance



- Slower storage
- Costs vary
- Intended for long term archival and compliance
- Cannot be restored to Splunk Cloud
- Customer Managed

[Dynamic Data: Data Retention Options in Splunk Cloud Platform](#)

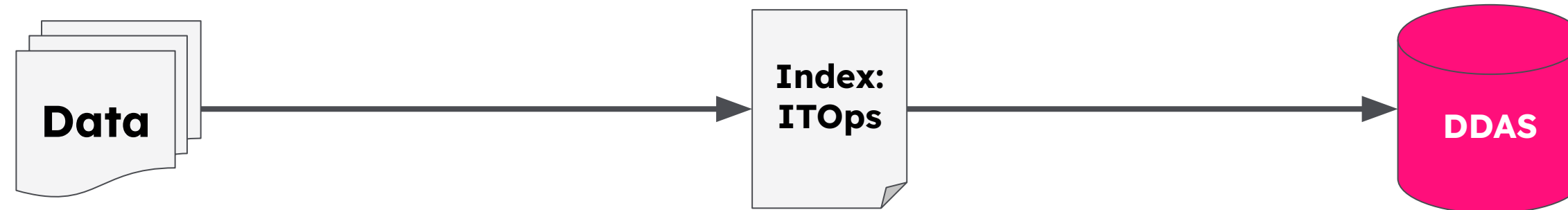
[Splunk Cloud Platform Service Details](#)

# Diving Deeper on DDAS

## Dynamic Data Active Searchable - Use Case Examples

### Use Case:

- Data must be stored and retrieved in the index as fast as possible with little to no latency.
- **Data must be stored, for compliance purposes, for 180 Days then it can be purged**
- **Uncompressed data is estimated to be between 500 GB and 700 GB per day.**



**Uncompressed Data:**  
**700 GB** per day



**Retention Requirement:**  
**180 Days**



**Storage Needed:**  
126 TB + 10% = **138.6 TB**  
★ **(adjusted 139 TB DDAS)**

[Dynamic Data: Data Retention Options in Splunk Cloud Platform](#)

[Splunk Cloud Platform Service Details](#)

# Diving Deeper on DDAS

## Dynamic Data Active Searchable - Data Retention Configuration

Setting DDAS Searchable Retention for an index. Using our previous example we will use **180 Days** as the value for the number of days the data is searchable

Set per Index

Max raw data size

4500000

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.

DDAS Setting

Searchable retention (days)

180

Number of days the data is searchable

[Dynamic Data: Data Retention Options in Splunk Cloud Platform](#)



# Exercise 1

Create a new index with DDAA

In this exercise you will:

- Create a new index in Splunk Cloud called test\_two
- Attach DDAA to the index

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# Diving Deeper on DDAA

## Dynamic Data Active Archive - Data Retention

### Use Case:

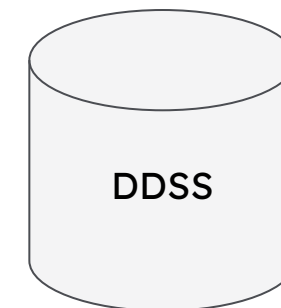
- Data must be stored into an archive for 3 years
- Archive data must be able to be restored as quickly as possible to meet legal requirements
- Archival solution must be more cost effective than DDAS



- Fastest storage
- Most Expensive
- Intended for fast search and retrieval
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- Slower storage
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[Dynamic Data: Data Retention Options in Splunk Cloud Platform](#)

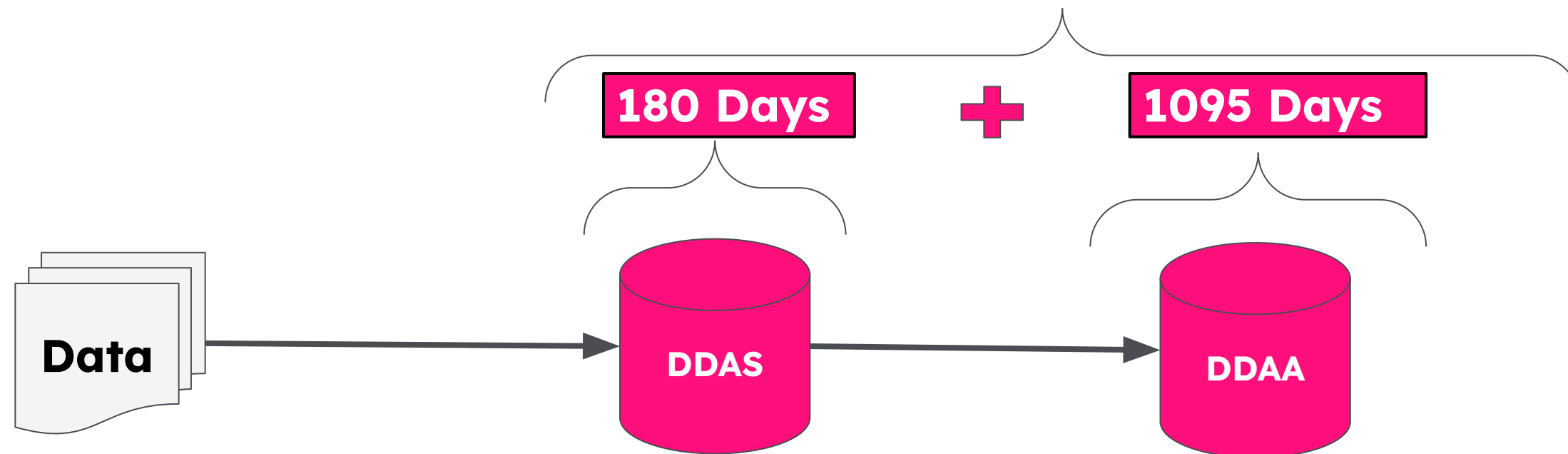
[Splunk Cloud Platform Service Details](#)

# Diving Deeper on DDAA

Dynamic Data Active Archive - How DDAA and DDAS work together

## Data Storage Process:

3 year Retention (1095 Days)



- Data must be restored from archive
- The restored data is then placed into DDAS cache in the source index

Data is ingested and stored in DDAS based on the searchable retention setting (slide 18)

Once the retention setting is reached (in this configuration) data is moved to DDAA for archival storage

[Dynamic Data: Data Retention Options in Splunk Cloud Platform](#)

[Splunk Cloud Platform Service Details](#)



# Diving Deeper on DDAA

## Dynamic Data Active Searchable - Data Retention Configuration

Setting DDAA Archive Retention for an index. Using our previous example we will use **180 Days** as the value for the number of days the data is searchable

The screenshot shows the 'Dynamic Data Storage' configuration page in Splunk Cloud Platform. It features two main sections: 'Searchable retention (days)' and 'Archive Retention Period'. The 'Searchable retention (days)' field is highlighted with a red box and contains the value '180'. The 'Archive Retention Period' section is also highlighted with a red box and contains a value of '1095' days. A text box on the right provides instructions on how to achieve a 3-year total retention period by setting the searchable retention to 180 days and the archive retention period to 1095 days. Red arrows and numbered circles (1 and 2) point to the respective fields.

Max raw data size 4500000

Maximum aggregated size of raw data size values less than 100MB

**1**

Searchable retention (days) **180**

Number of days the data is searchable

Recall our requirement, data must be stored for a total of 3 years. In order to achieve this we need to do the following:

1. Set the **Searchable retention days** to **180 days** (Shown left)
2. Set the remainder of the time **1095 days** in the **Archive Retention Period** box (Shown below)

**2**

Dynamic Data Storage ☒ Splunk Archive ?

Archive Retention Period

**1095** 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 at least twice the searchable retention period value to avoid data loss. [Learn More](#)

[Dynamic Data: Data Retention Options in Splunk Cloud Platform](#)

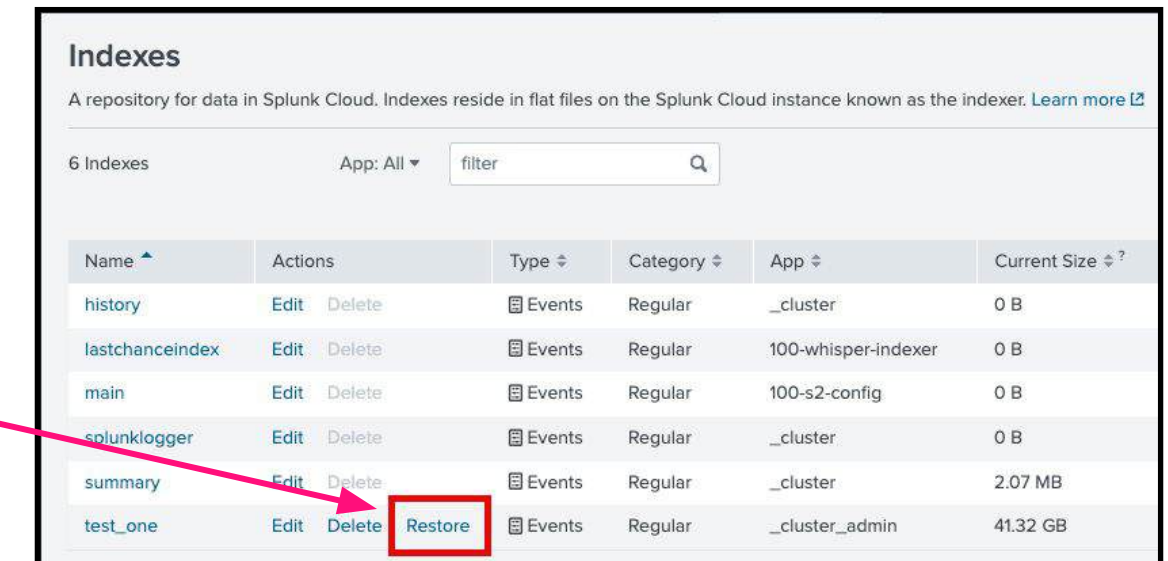
[Store expired Splunk Cloud Platform data in a Splunk-managed archive](#)

# Diving Deeper on DDAA

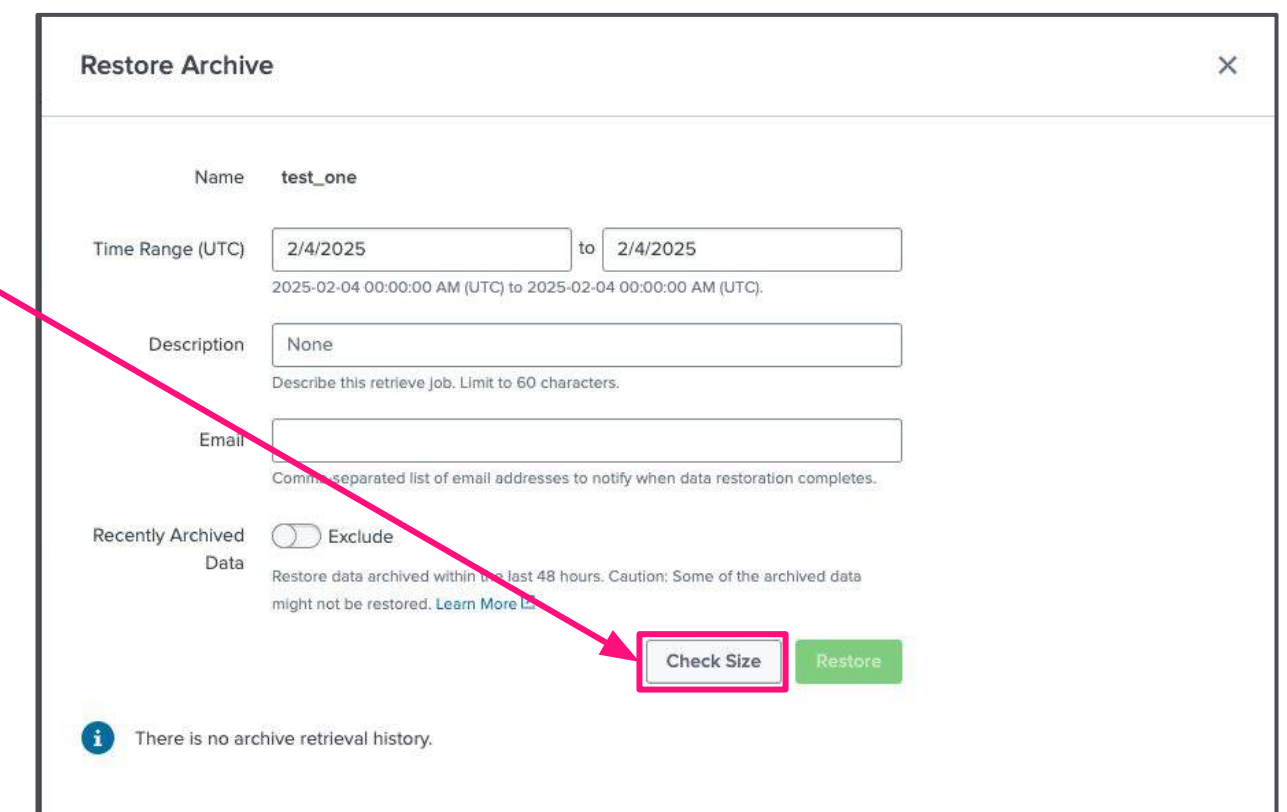
## Dynamic Data Active Searchable - Data restoration process

### Steps to restore archived data to Splunk Cloud Platform

1. In Splunk Cloud, go to **Settings > Indexes**.
2. For the index where you want to restore data, click **Restore**. The menu displays the restore history for the specified index. You can see the history of data restoration and file size for the data restored.
3. Use the date picker to select a time range to retrieve.
4. Click **Check size**. Splunk Cloud Platform checks to see if the size of the file might impact performance. If the file size is too large, Splunk Cloud Platform blocks you from restoring data. If there is a potential performance impact, Splunk Cloud Platform displays a warning. Splunk Cloud Platform also prevents you from restoring data that overlaps with existing restored data.
5. Enter an email address to send job status notifications. Splunk Cloud Platform will notify you when the restoration is complete.
6. (Optional) If your time range includes data archived within the last 48 hours, toggle the **Recently Archived Data** switch to disable the default **Exclude** mode. When set to "Exclude" mode, DDAA skips restoration of data archived within the last 48 hours. Note that attempting to restore data that is not fully archived can cause data restoration to fail. For more information, see [Troubleshoot Dynamic Data Active Archive](#).
7. Click **Restore** when you have refined the file size or date range to acceptable limits.



A repository for data in Splunk Cloud. Indexes reside in flat files on the Splunk Cloud instance known as the indexer. <a href="#">Learn more</a>						
6 Indexes		App: All	filter			
Name	Actions	Type	Category	App	Current Size	
history	<a href="#">Edit</a> <a href="#">Delete</a>	Events	Regular	_cluster	0 B	
lastchanceindex	<a href="#">Edit</a> <a href="#">Delete</a>	Events	Regular	100-whisper-indexer	0 B	
main	<a href="#">Edit</a> <a href="#">Delete</a>	Events	Regular	100-s2-config	0 B	
splunklogger	<a href="#">Edit</a> <a href="#">Delete</a>	Events	Regular	_cluster	0 B	
summary	<a href="#">Edit</a> <a href="#">Delete</a>	Events	Regular	_cluster	2.07 MB	
test_one	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Restore</a>	Events	Regular	_cluster_admin	41.32 GB	



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.



After you initiate data restoration, it can take up to 24 hours before data is restored. If it takes longer than 24 hours, contact Splunk Technical Support.

[Dynamic Data: Data Retention Options in Splunk Cloud Platform](#)

[Store expired Splunk Cloud Platform data in a Splunk-managed archive](#)

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# Diving Deeper on DDSS

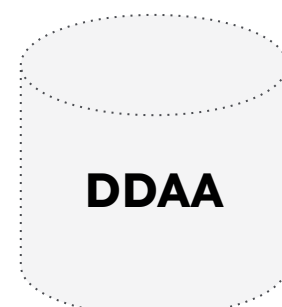
## Dynamic Data Self Storage - Data Retention

### Use Case:

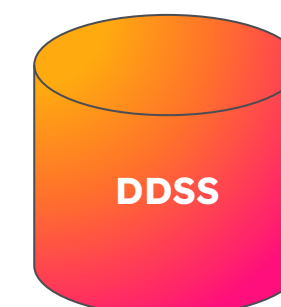
- Data must be stored into an archive for 3 years
- Data in the archive is rarely recalled
- Archive storage must stay under customer management



- Fastest storage
- Most Expensive
- Intended for fast search and retrieval
- Intended for short term storage
- Directly attached to Splunk Cloud Instance.



- Slower storage
- More Cost effective
- Intended for long term archival and compliance
- Directly attached to Splunk Cloud instance



- Slower storage
- Costs vary
- **Intended for long term archival and compliance**
- **Cannot be restored to Splunk Cloud**
- **Customer Managed**

**NOTE:** Data stored into a customers DDSS archive must be restored to a separate instance of Splunk Enterprise. This instance is not in any way connected to Splunk Cloud and must be either an existing or new instance of Splunk Enterprise. This can be either located on-premises but ideally should be in AWS/GCP in the same region for faster recovery.

[Dynamic Data: Data Retention Options in Splunk Cloud Platform](#)

[Splunk Cloud Platform Service Details](#)

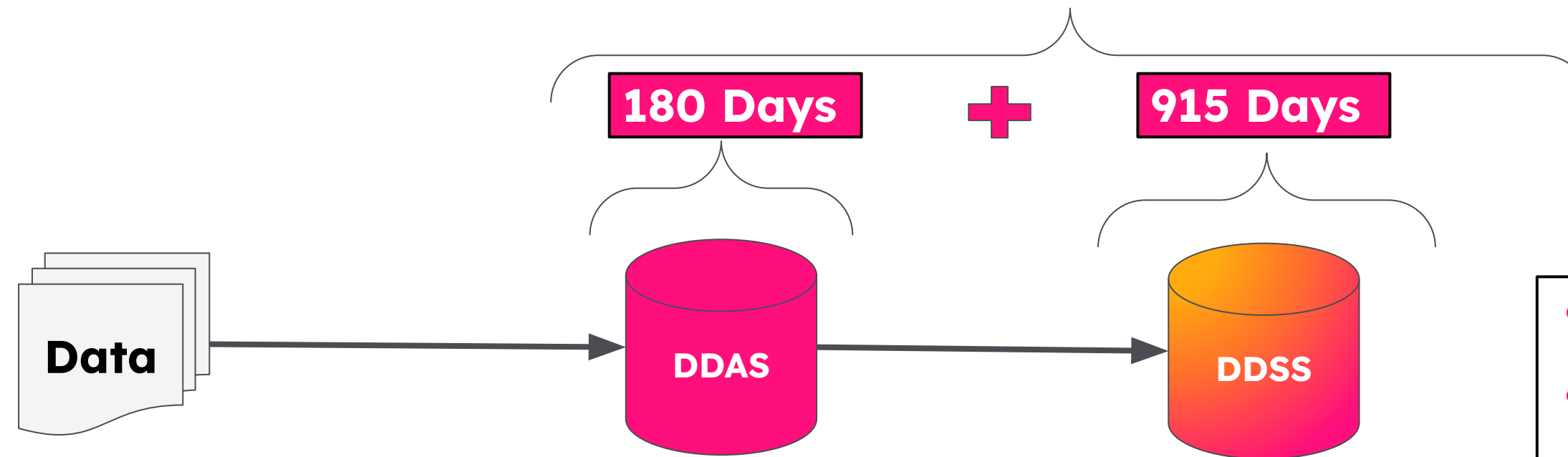


# Diving Deeper on DDSS

## Dynamic Data Active Archive - Planning Retention on DDSS

### Data Storage Process:

3 year Retention (1095 Days)



Data is ingested and stored in DDAS based on the searchable retention setting (slide 18)

Once the retention setting is reached (in this configuration) data is moved to DDSS for archival storage

- Data is not searchable from Splunk Cloud
- Data cannot be directly restored to Splunk Cloud

[Dynamic Data: Data Retention Options in Splunk Cloud Platform](#)

[Splunk Cloud Platform Service Details](#)

# Diving Deeper on DDSS

Dynamic Data Active Searchable - Leveraging AWS S3

## Part 1: Create an Amazon S3 bucket in your AWS Environment

**Region:** You must provision your Amazon S3 bucket in the same region as your Splunk Cloud Platform environment.

**Object Lock:** Do not activate AWS S3 Object Lock when creating a bucket. Locking the bucket prevents DDSS from moving data to the bucket. For more information, see <https://docs.aws.amazon.com/AmazonS3/latest/user-guide/object-lock.html>

**Naming:** When you name the S3 bucket, it **must include the Splunk prefix provided to you** and displayed in the UI under the **AWS S3 bucket name** field. Enter the prefix *before* the rest of the bucket name. This prefix contains your organization's Splunk Cloud ID, which is the first part of your organization's Splunk Cloud URL, and a 12-character string. The complete S3 bucket name has the following syntax:

Splunk Cloud ID-{12-character string}-{your bucket name}

<https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/DataSelfStorage#Performance>

**New Self Storage Location**

Configure a new storage location for your expired data. [Learn more](#)

Title

Description

Optional

**Amazon Web Services (AWS) Configuration**

AWS S3 bucket name

An AWS S3 bucket in the same region as your Splunk Cloud environment. The S3 bucket must have "buttercupcloudworks-rs73hje674" as the prefix in the name.

AWS S3 bucket folder

AWS S3 bucket path

Path is <Bucket Name>/<Bucket Folder>

AWS S3 bucket policy

Generate

Copy and apply this bucket policy to your S3 bucket in the AWS Management Console. [Learn more](#)

Test bucket policy

Test

Cancel Submit

# Diving Deeper on DDSS

## Dynamic Data Active Searchable - Leveraging AWS S3

<https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/DataSelfStorage#Performance>

### Part 2: Configure a self storage location for the Amazon S3 bucket

1. In Splunk Web, click **Settings > Indexes > New Index**.
2. In the **Dynamic Data Storage** field, click the radio button for **Self Storage**.
3. Click **Create a self storage location**.  
The Dynamic Data Self Storage page opens.
4. Give your location a **Title** and an optional **Description**.
5. In the **Amazon S3 bucket name** field, enter the name of the S3 bucket that you created.
6. (Optional) Enter the bucket folder name.
7. Click **Generate**. Splunk Cloud Platform generates a bucket policy.
8. Copy the bucket policy to your clipboard. Note: Customers with an SSE-S3 encrypted bucket must use the default policy and not modify the policy in any way.
9. In a separate window, navigate to your AWS Management console and apply this policy to the S3 bucket you created earlier.
10. In the Self Storage Locations dialog, click **Test**.  
Splunk Cloud writes a 0 KB test file to the root of your S3 bucket to verify that Splunk Cloud Platform has permissions to write to the bucket. A success message displays, and the **Submit** button is enabled.
11. Click **Submit**.
12. In the AWS Management Console, verify that the 0 KB test file appears in the root of your bucket.

You cannot edit or delete a self storage location after it is defined, so verify the name and description before you save it.

**New Self Storage Location**

Configure a new storage location for your expired data. [Learn more](#)

Title

Description

Optional

**Amazon Web Services (AWS) Configuration**

AWS S3 bucket name   
An AWS S3 bucket in the same region as your Splunk Cloud environment. The S3 bucket must have \*buttercupcloudworks-rs73hje674\* as the prefix in the name.

AWS S3 bucket folder

AWS S3 bucket path   
Path is <Bucket Name>/<Bucket Folder>

AWS S3 bucket policy   
[Generate](#)

Copy and apply this bucket policy to your S3 bucket in the AWS Management Console. [Learn more](#)

Test bucket policy   
[Test](#)

[Cancel](#) [Submit](#)

# Exercise 2

Practice data restore process from DDAA

In this exercise you will:

- Follow the process for restoration of data from DDAA to the target index test\_two

**NOTE: No data restoration will take place in this lab due to limitations in the lab environment, however this is still good practice.**



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# Optimizing Storage

## Creating Data Retention Policies

This section outlines the following steps to help you create a balance between data availability, compliance requirements, and storage efficiency. In the next few slides we will cover the following items.

- 1. Understanding compliance requirements and business needs**
- 2. Categorizing data types**
- 3. Determining appropriate retention periods**
- 4. Setting bucket roll behavior**
- 5. Implementing automatic data archival**
- 6. Testing and validating**
- 7. Communicating and documenting**

Click Here



# Monitoring and alerting in storage

Click Here →



Being informed in real-time when your storage approaches crucial limits is vital. Proactive alerting mechanisms can make the difference between business-as-usual and an unforeseen outage. This article details how you can set up effective safeguards, plan for future needs, and ensure data is managed through its entire lifecycle efficiently in the Splunk platform

- Understanding storage demands
- Understanding the benefits of proactive storage monitoring and alerting
- Monitoring storage capacity
- Alerting for storage capacity
- Planning and managing capacity proactively
- Following best practices for proactive monitoring and alerting

Platform Capacity Considerations	<a href="https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/DataSelfStorage#Performance">https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/DataSelfStorage#Performance</a>
Sizing you Splunk Architecture	<a href="https://lantern.splunk.com/Splunk_Platform/Product_Tips/Administration/Sizing_your_Splunk_architecture">https://lantern.splunk.com/Splunk_Platform/Product_Tips/Administration/Sizing_your_Splunk_architecture</a>
Optimizing Storage	<a href="https://lantern.splunk.com/Splunk_Platform/Splunk_Outcome_Paths/Reduce_Costs/Optimizing_storage">https://lantern.splunk.com/Splunk_Platform/Splunk_Outcome_Paths/Reduce_Costs/Optimizing_storage</a>

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# Cloud Monitoring Console

## Splunk Cloud CMC Dashboards for Storage Monitoring

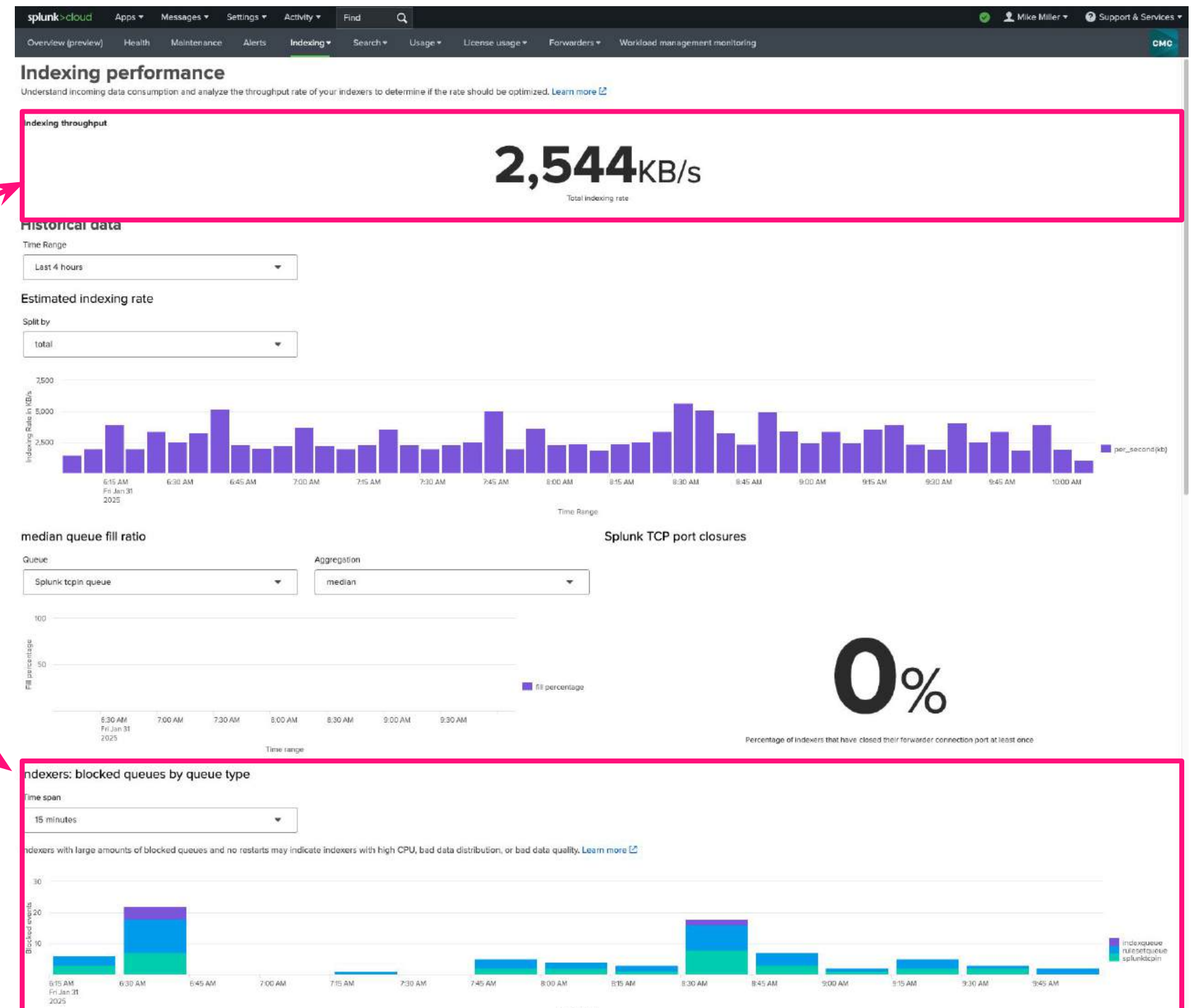
### Indexing Performance:

While the Indexing Performance dashboard does not directly address storage, it is critical to understand your Splunk Cloud instances throughput.

### Key Sections to monitor:

- Indexing Performance
- Indexers: blocked queues by type

If your throughput volume is higher than expected it could negatively impact your storage forecasting and performance.





# Cloud Monitoring Console

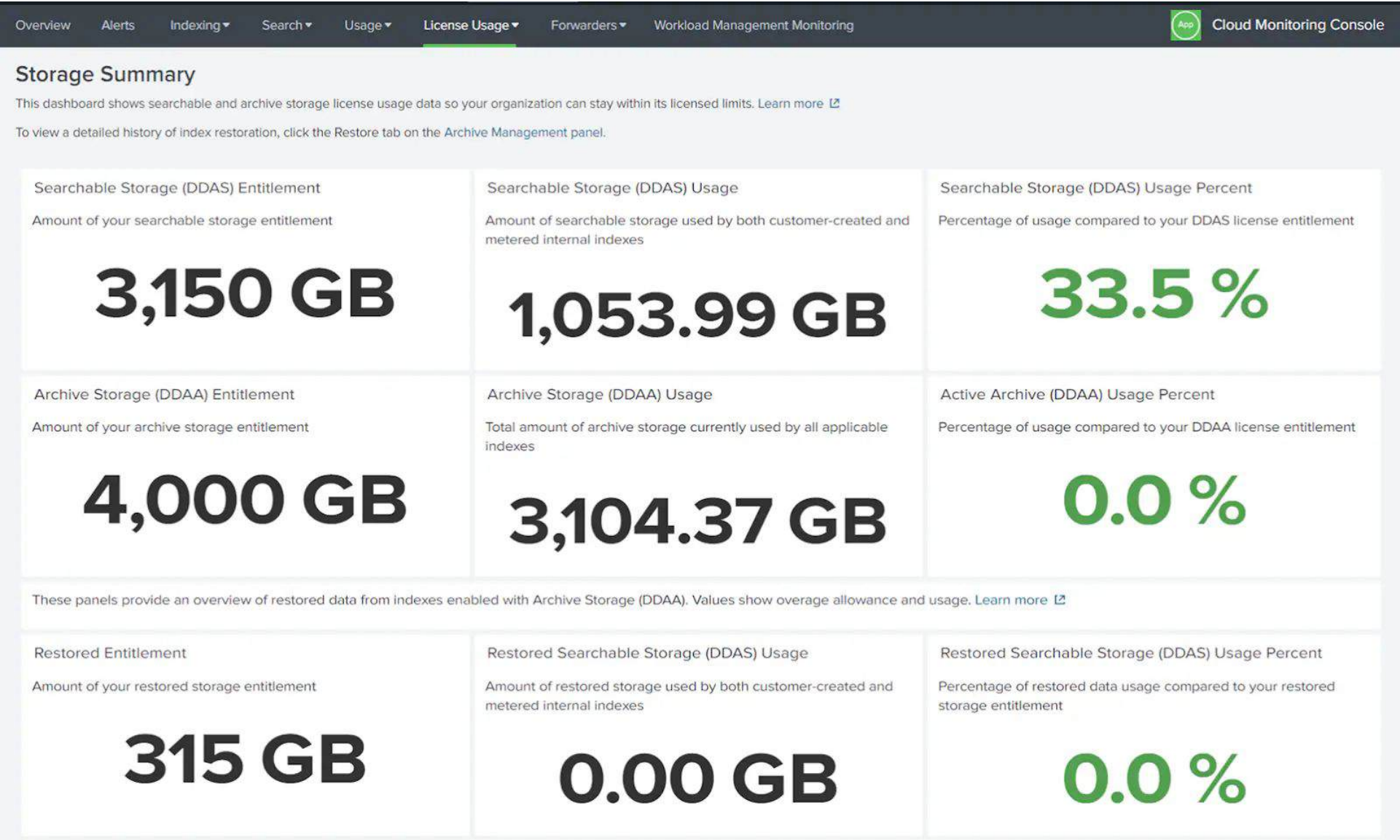
## Storage Summary Dashboard

### Location:

Cloud Monitoring Console>Licensing  
Usage>Storage Summary

### Overview:

The screenshot shows an example of the Dynamic Data Active Searchable (DDAA) dashboard. The Storage Summary dashboard highlights important information that also displays on the Entitlements, Searchable Storage (DDAS), and Archive Storage (DDAA) dashboards. This dashboard provides insights into your data retention based on the uncompressed data you have indexed.



Monitoring License Usage:

<https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringLicenseUsage>

# Cloud Monitoring Console

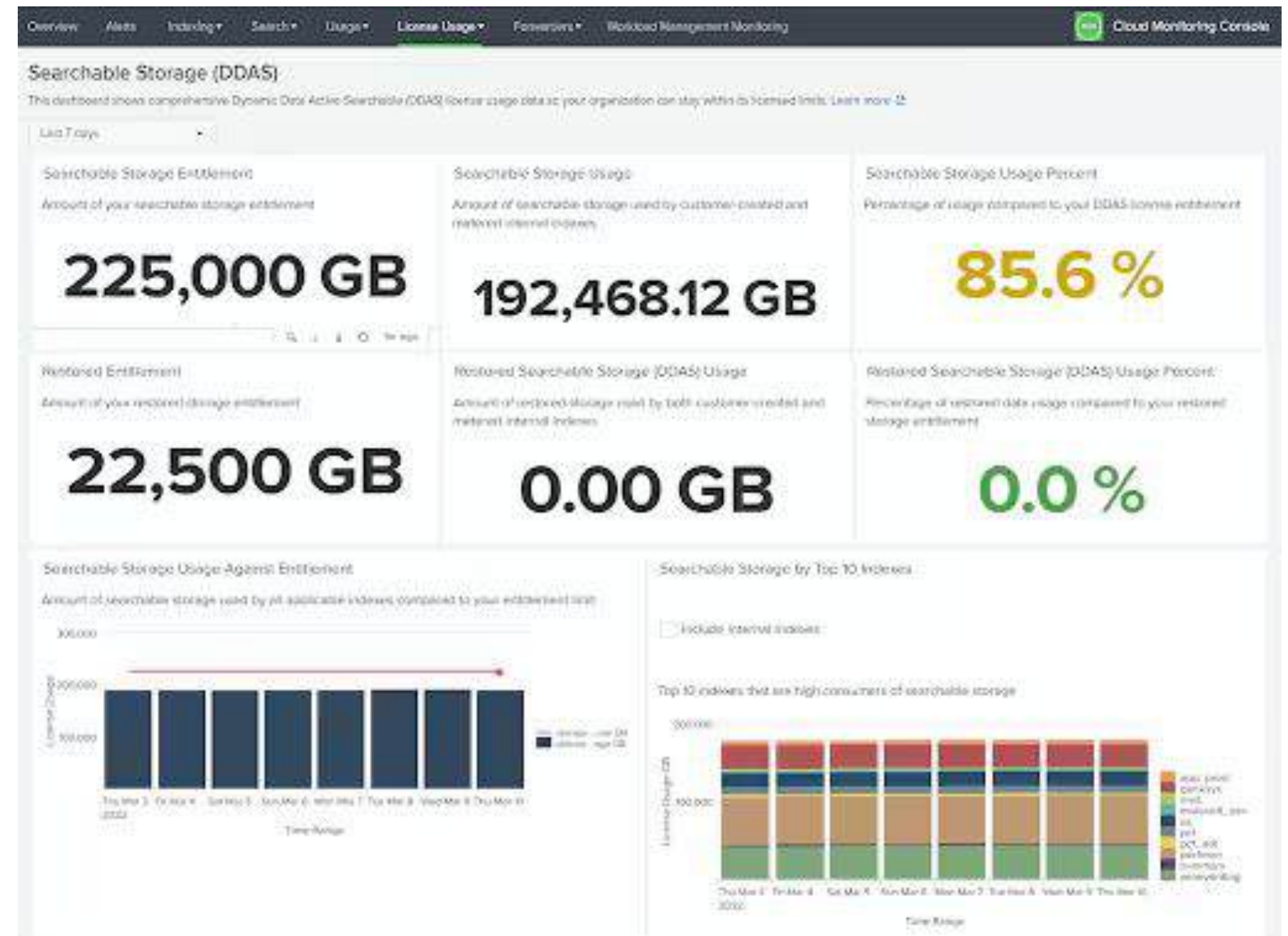
## Search Storage (DDAS)

### Location:

Cloud Monitoring Console>Licensing  
Usage>Searchable Storage (DDAS)

### Overview:

The screenshot shows an example of the Dynamic Data Active Searchable (DDAA) dashboard. This dashboard shows details about your DDAS storage entitlement in GB.



Monitoring License Usage:

<https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringLicenseUsage>



# Cloud Monitoring Console

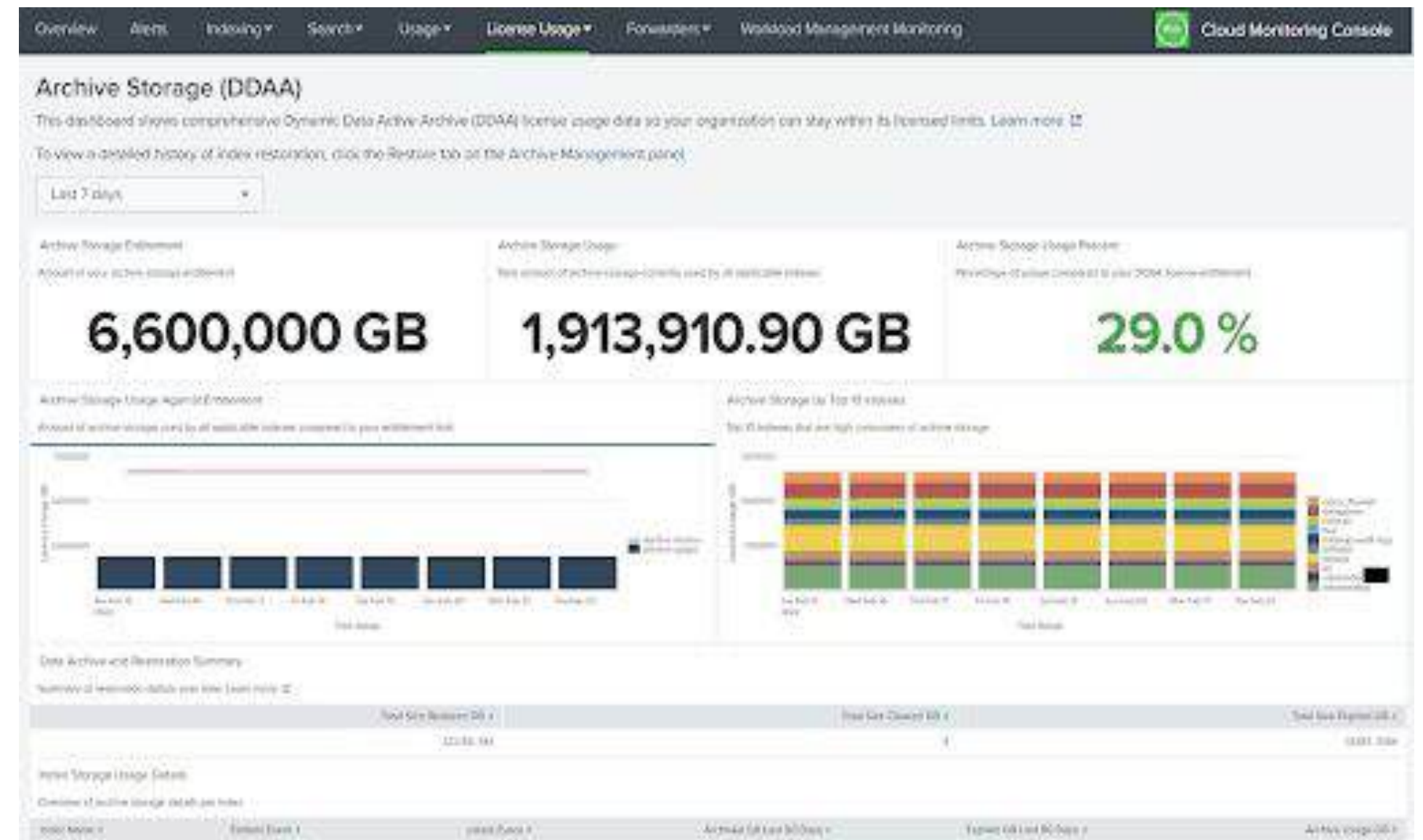
## Archive Storage (DDAA)

### Location:

Cloud Monitoring Console>Licensing  
Usage>Archive Storage (DDAA)

### Overview:

The screenshot shows an example of the Dynamic Data Active Archive (DDAA) dashboard. This dashboard shows details about your DDAA storage entitlement in GB.



Monitoring License Usage:

<https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringLicenseUsage>

# Exercise 3

## Reviewing the Splunk Cloud - Cloud Monitoring Console

In this exercise you will:

- Navigate to the storage and indexing related CMC dashboards
- Review the data associated with each of the dashboards.

# Workshop Agenda

- **Overview**
- **Storage Options for Splunk Cloud**
- **Dynamic Data: Active Searchable (DDAS)**
- **Dynamic Data: Active Archive (DDAA)**
- **Dynamic Data: Self Storage (DDSS)**
- **Best Practices for Splunk Cloud Storage**
- **Monitoring and Troubleshooting**
- **Summary**



# Summary

- Review of Splunk Cloud Storage Options
- Storage Use Case reviews
- Retention calculation
- Best practices for Splunk Cloud Storage
- Monitoring and troubleshooting of Splunk Cloud storage

# Links

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

# Thank you