

Splunk4Admins

Cloud Monitoring Console

<Customer Name>



splunk>
a CISCO company

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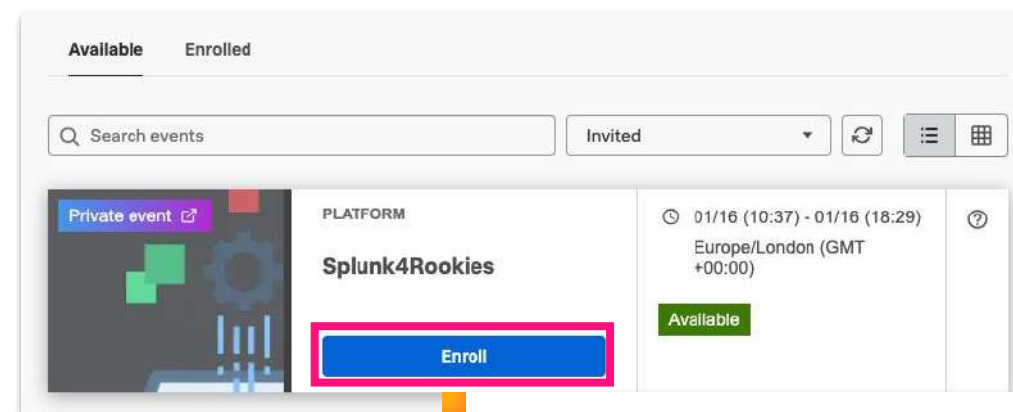
Enroll in Today's Workshop

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-CMC-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-CMC-Attendee>

Goal



Enroll in today's event

Please introduce yourself!

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



Workshop Agenda

- Discuss Who? What? Why?
- Expectations
- What is an Cloud Monitoring Console (CMC)?
- Explore Overview/Health/Maintenance/Alerts - Lab 1
- Explore Indexing - Lab 2
- Explore Search - Lab 3
- Explore Usage - Lab 4
- Explore License Usage - Lab 5
- Explore Forwarders - Lab 6
- Discover: Detect “Skipped searches” - Lab 7
- Dashboard Modification
- Summary

Audience

Who is this Workshop for?

- Those who are interested in how to observe and detect issues within Splunk ...
 - Splunk Admins
 - “Required”: Power User Certified
 - “Preferred”: Splunk Admin enabled (at least started ...), Certified

Expectations for Workshop

Hereinafter “CMC” ...

- Last roughly 60 - 75 minutes
- Effectively a short survey of what is available in the CMC
- Experience setup and configuration of CMC (forwarders)
- Understand the dashboards in CMC
 - Indexing
 - Search
 - Usage
 - Forwarders
- Understand how to use CMC to adhere more closely to Best Practices
- Discover issues with CMC

What is the CMC?

- CMC - Splunk Cloud
 - Set of dashboards providing information about customer-influenceable resources - more limited than the MC for OnPremise Enterprise
- MC - Enterprise, customer-managed cloud
 - Set of dashboards providing information about OnPremise resources
- Understanding what the CMC has available can help Admins diagnose and remediate more quickly
- Integrated on customer search head as an App

MC/CMC Overview

<https://docs.splunk.com/Documentation/Splunk/latest/DMC/DMCoverview>

How the Monitoring Console works

<https://docs.splunk.com/Documentation/Splunk/latest/DMC/HowtheDMCworks>

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Explore Dashboards



Get to Cloud Monitoring Console

Each attendee instance is in the workbook provided with the username and password indicated. This is an example ... and login with “**sc_admin**” and “**5up3rn0va**”

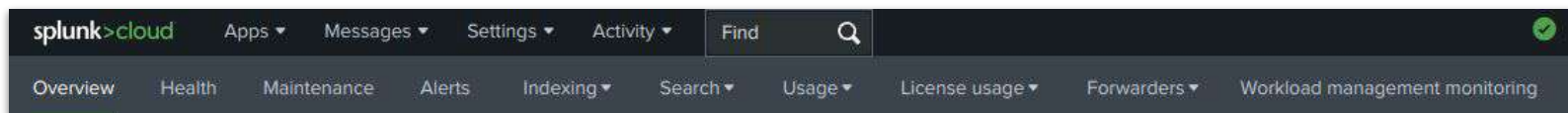
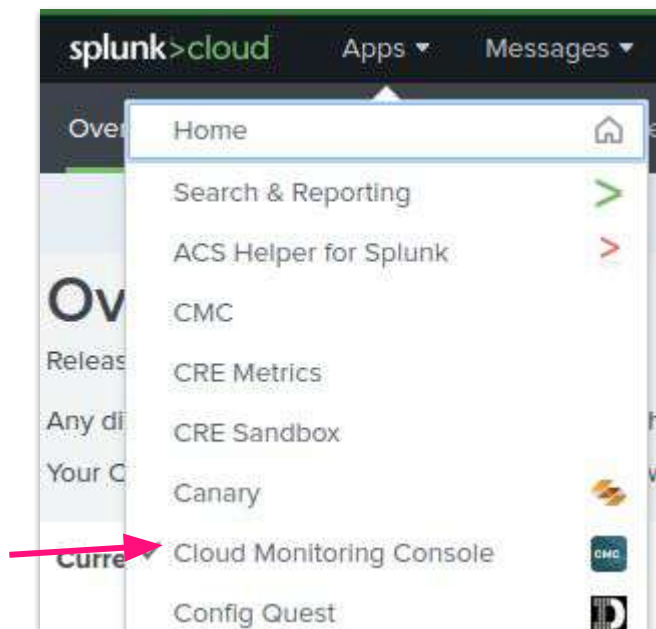


adminUsername	password	hecURL	adminPassword	username	url
admin	5up3rn0va	scb-shw-1da7a5b7181cf3.stg.splunkcloud.com:8088/service/scollect	6xJnwog7IA#Lo5u^%KV__6rcPnj#&U#ei6%u4&4ptjn#6M#6^64G^r_8u13	sc_admin	https://scb-shw-1da7a5b7181cf3.stg.splunkcloud.com

Explore Dashboards



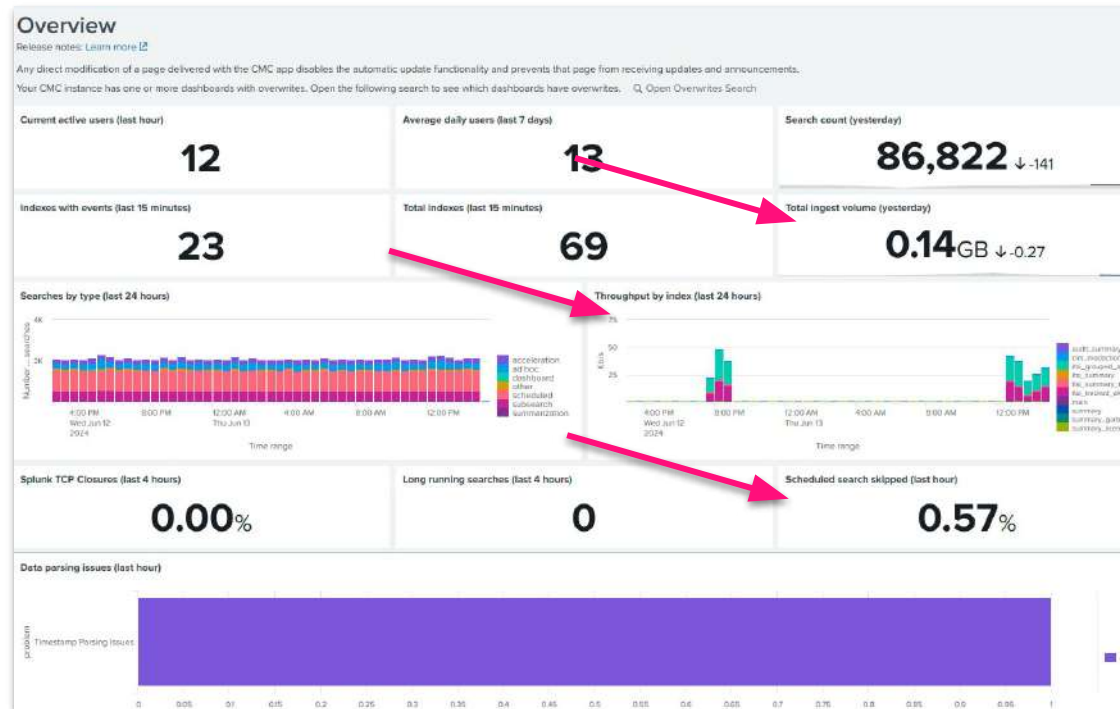
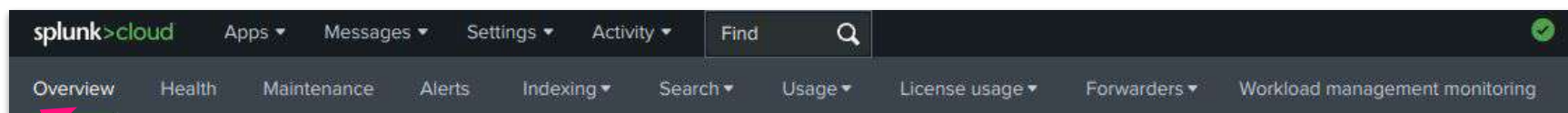
Get to Cloud Monitoring Console



Explore Dashboards



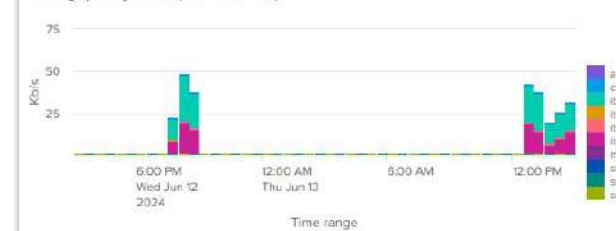
Overview



Total ingest volume (yesterday)

0.14GB ↓ -0.27

Throughput by index (last 24 hours)



Scheduled search skipped (last hour)

0.57%

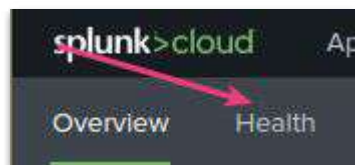
Use the Overview dashboard

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

Explore Dashboards



Health



A screenshot of the Splunk Health dashboard. The dashboard has a top navigation bar with tabs: Overview, Health (selected), Maintenance, Alerts, Indexing, Search, Usage, License usage, Forwarders, and Workload management monitoring. The "Health" tab is active. Below the navigation bar, the "Health" section displays four summary cards: "Overall health" (6 Critical, 2 Warning, 40,205 Conforming), "Data collection" (All healthy), "Data indexing" (3 Critical, 0 Warning, 0 Conforming), and "Data search" (3 Critical, 2 Warning, 40,205 Conforming). Below these cards is the "All Indicators" section, which is a table with columns: INDICATOR, CATEGORY, CHECK PERFORMED, RESULT, LAST UPDATED, and ALERT. The table lists three indicators: "Universal forwarder software version", "Heavy forwarder software version", and "Bucket size and range". Each indicator has a "Configure" link in the ALERT column. A red arrow points from the "Health" tab in the navigation bar to the "Overall health" card. Another red arrow points from the "Universal forwarder software version" row to the "Configure" link in the ALERT column.

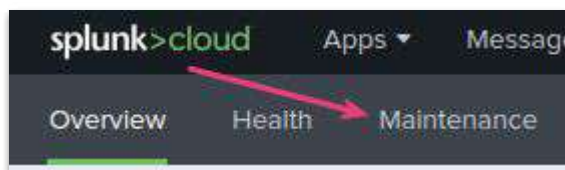
Use the Health dashboard

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

Explore Dashboards



Maintenance



Maintenance

This dashboard shows upcoming and past maintenance windows for Splunk initiated changes. Maintenance status updates daily around 7pm PST, and does not reflect the real time status. [Learn more](#)

Maintenance window and change freeze

Maintenance Change freeze ▼ All ▼

ID	Maintenance type	Start time	Status	Duration	Last updated	Operations
f4cdf501-d998-4171-af3e-470b59c9f9b2	Service Update	15-Jan-2024 9:00 PM MST	Completed	3h0m0s	1-Feb-2024 9:52 AM MST	1
3b042a1e-494a-44a0-8dcf-e31d4ef42ec1	Service Update	23-Jan-2024 9:00 PM MST	Completed	3h0m0s	24-Jan-2024 7:07 PM MST	1
b5143da0-049b-442c-8949-17a9a28dad2b	Service Update	2-Feb-2024 9:00 PM MST	Canceled	3h0m0s	1-Feb-2024 11:24 AM MST	1
9e962411-77f8-414d-8976-9f93a37534cc	Service Update	14-Feb-2024 9:00 PM MST	Completed	3h0m0s	19-Mar-2024 5:09 PM MDT	1
9fcd49fc-de2d-4e4d-a6e4-	Service	19-Mar-2024	Completed	3h0m0s	21-Mar-2024	1

Request change freeze

Detail of f4cdf501-d998-4171-af3e-470b59c9f9b2

Operations Timeline

Description: Splunk Cloud Upgrade Version 9.1.2308

Operation type: Splunk Upgrade

Operation status: Completed

Target version: 9.1.2308.201

Request change freeze

To select the maintenance type this change freeze request will apply to please reference the [Splunk Cloud Platform maintenance policy](#)

☐ Please acknowledge you have read the Splunk Maintenance policy linked above.

The change freeze will begin at 00:00 UTC and end at 23:59 UTC.

Start date:

End date:

Reason:

Applies to: ☐ Splunk Initiated Changes Only ☐ Customer and Splunk Initiated Changes

Cancel **Request**

Button "Request change freeze"

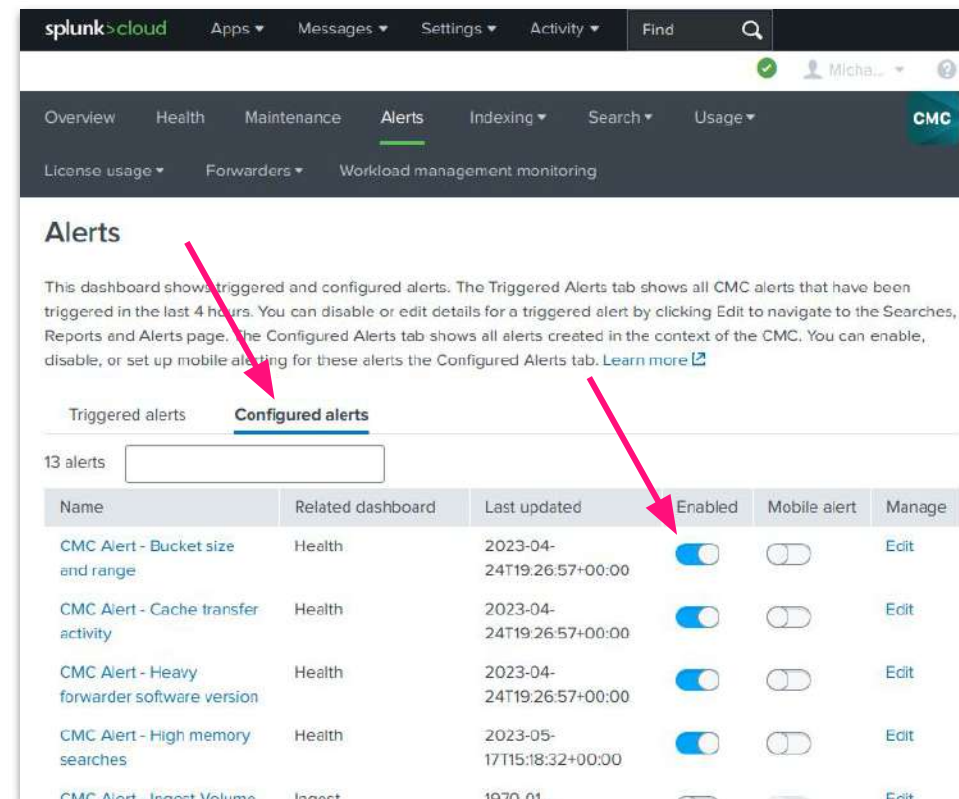
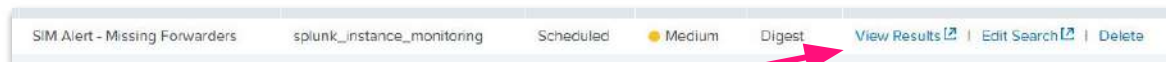
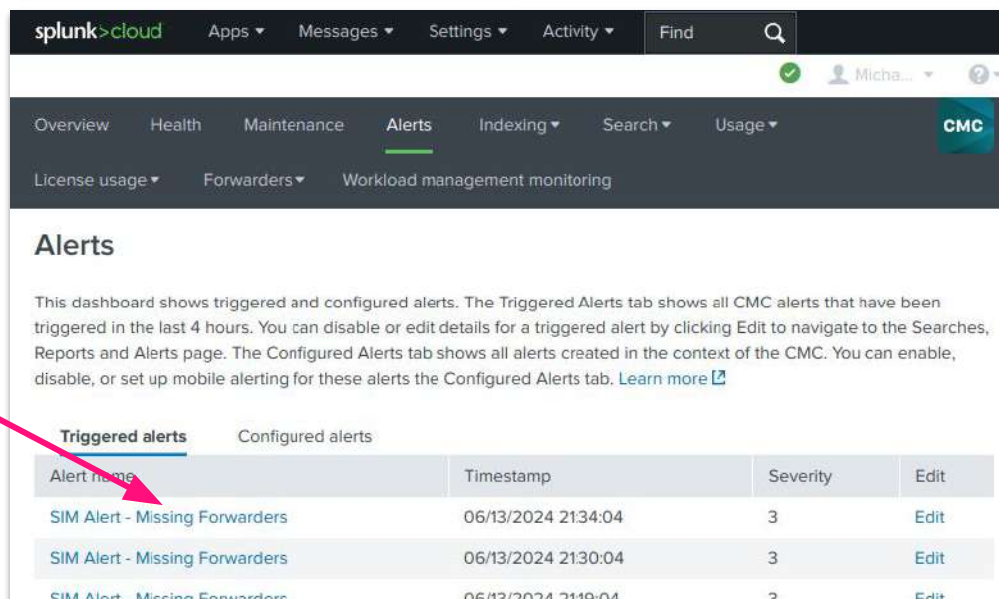
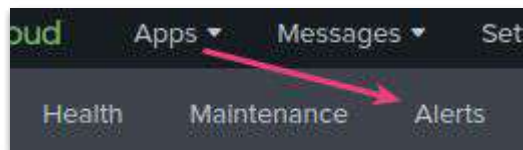
Use the Maintenance dashboard

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

Explore Dashboards



Alerts



Use the Alerts dashboard

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

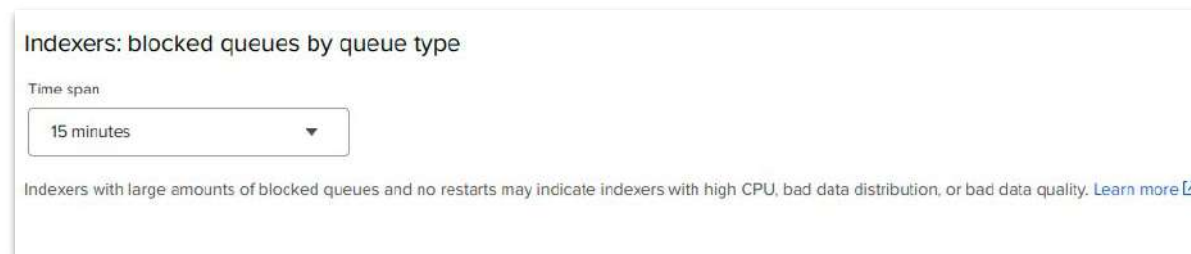
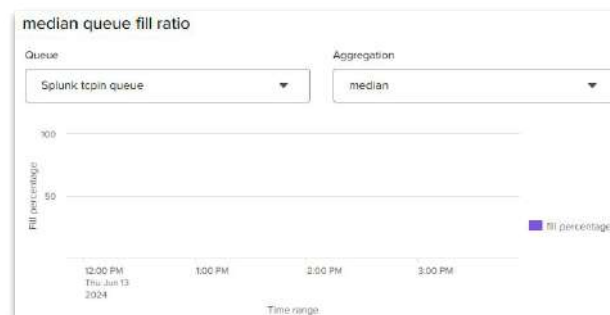
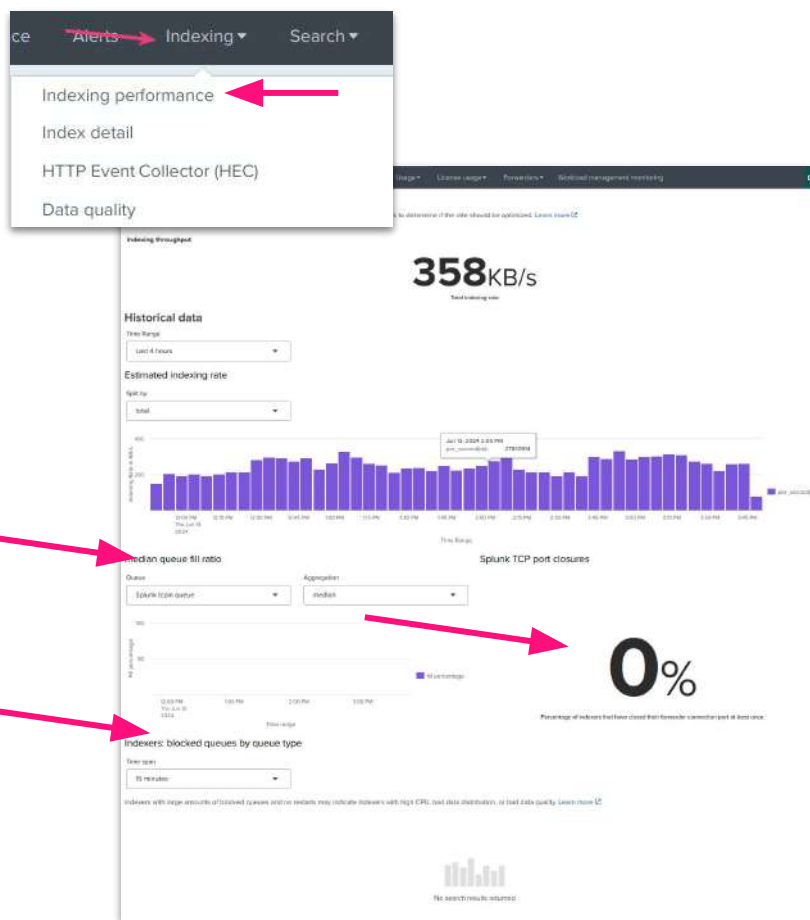
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Indexing - Indexing performance



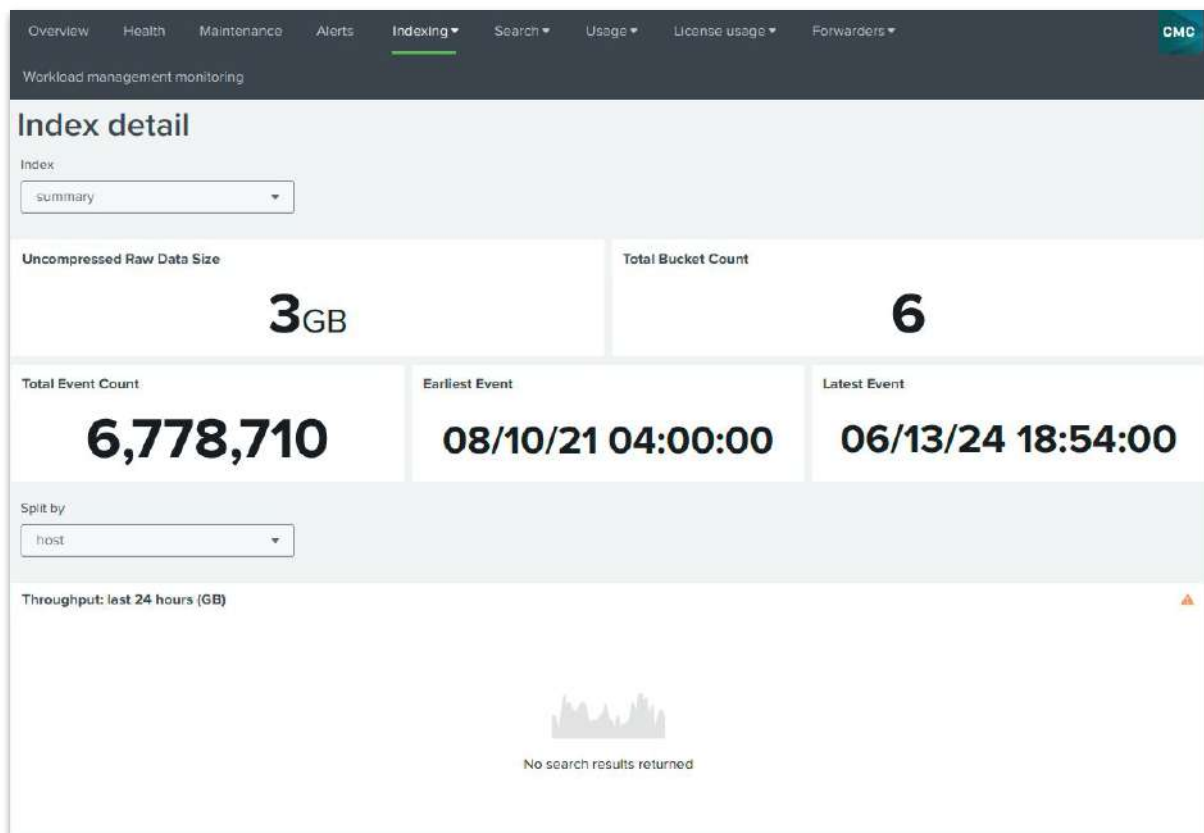
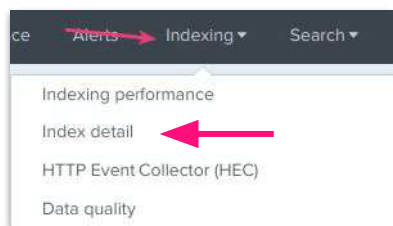
Use the Indexing dashboards

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

Explore Dashboards



Indexing - Index detail



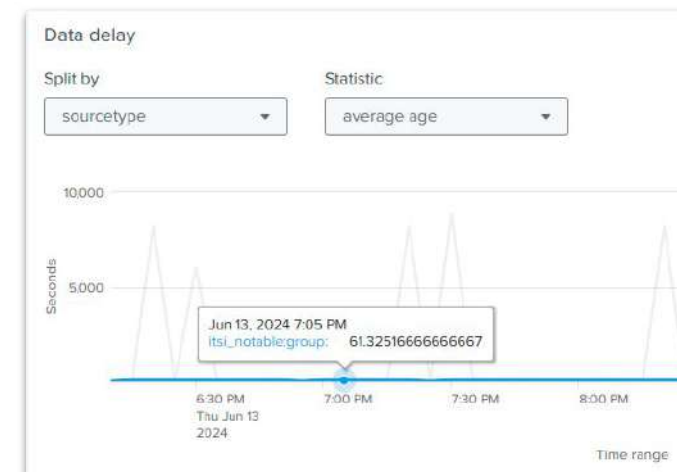
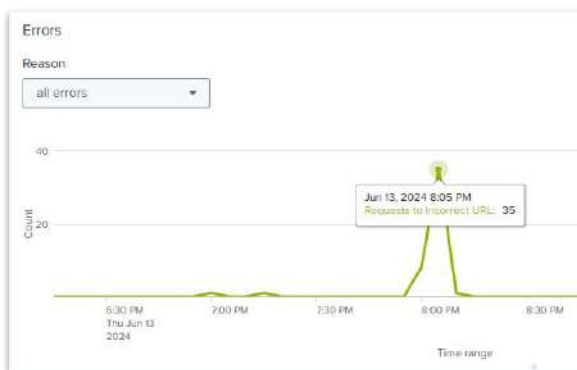
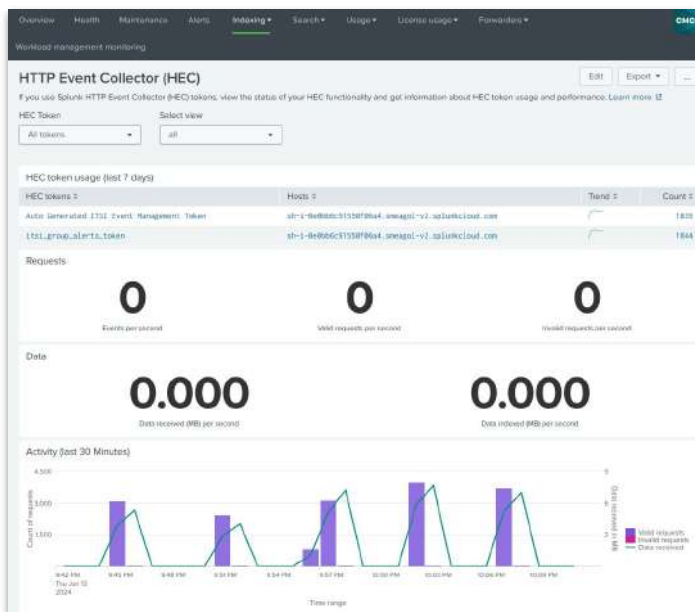
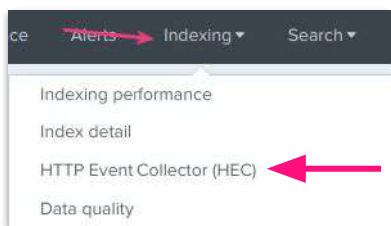
Use the Indexing dashboards

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

Explore Dashboards



Indexing - HTTP Event Collector (HEC)



Use the Indexing dashboards

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

Explore Dashboards



Indexing - Data quality

The screenshot shows the Splunk Cloud Indexing dashboard. The 'Indexing' menu is open, and 'Data quality' is highlighted with a red arrow. Below, the 'Data quality' section is visible, showing a table of event processing issues by source type. A red arrow points to the table.

Sourcetype	Total Issues	Source Count	Line Breaking Issues	Timestamp Parsing Issues	Aggregation Issues
audit_ingest-3	542	1	0	542	0
splunk_web_service	264	1	264	0	0
audit_ingest-4	229	1	0	229	0
bootstrap	34	3	0	14	20
splunk_elasticsearch-too-small	33	1	0	33	0
audit_ingest_log-2	20	1	0	20	0
splunkd_conf	20	1	20	0	0
history-too_small	19	1	0	19	0
splunk_cloud_telemetry	18	1	18	0	0
tera-too_small	16	1	0	16	0

The screenshot shows the 'Issues for Source Type audit_ingest-3 by Source' dashboard. A red arrow points to the 'Source' column header. The dashboard displays three panels: Event Line Count, Event size, and Event time disparity.

Source	Total Issues	Line Breaking Issues	Timestamp Parsing Issues	Aggregation Issues
/opt/splunk/var/log/splunk/audit_ingest.log	542	0	542	0

Event Line Count

Line Count	Event Count
1	1438101
6	5381

Event size

Bar chart showing Event count vs Event size in bytes. The x-axis categories are 128-256, 32-64, 512-1024, and 64-128. The y-axis ranges from 0 to 2,000,000.

Event time disparity

Bar chart showing Event Count vs Observed Latency in Hours. The x-axis categories are -1.0 and 0-1. The y-axis ranges from 0 to 1,500,000.

Use the Indexing dashboards

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

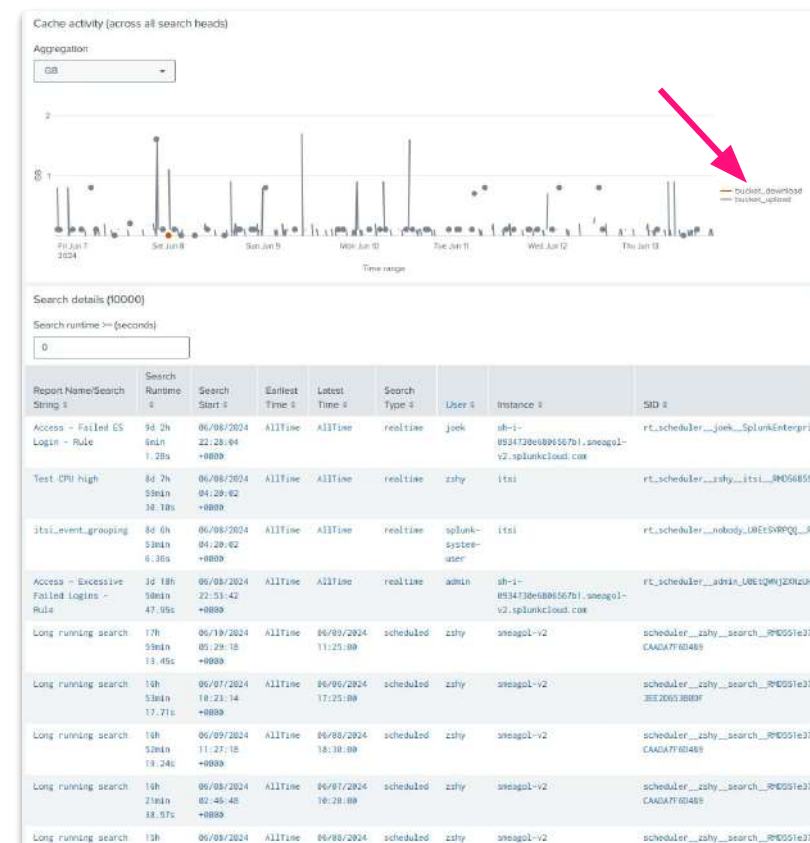
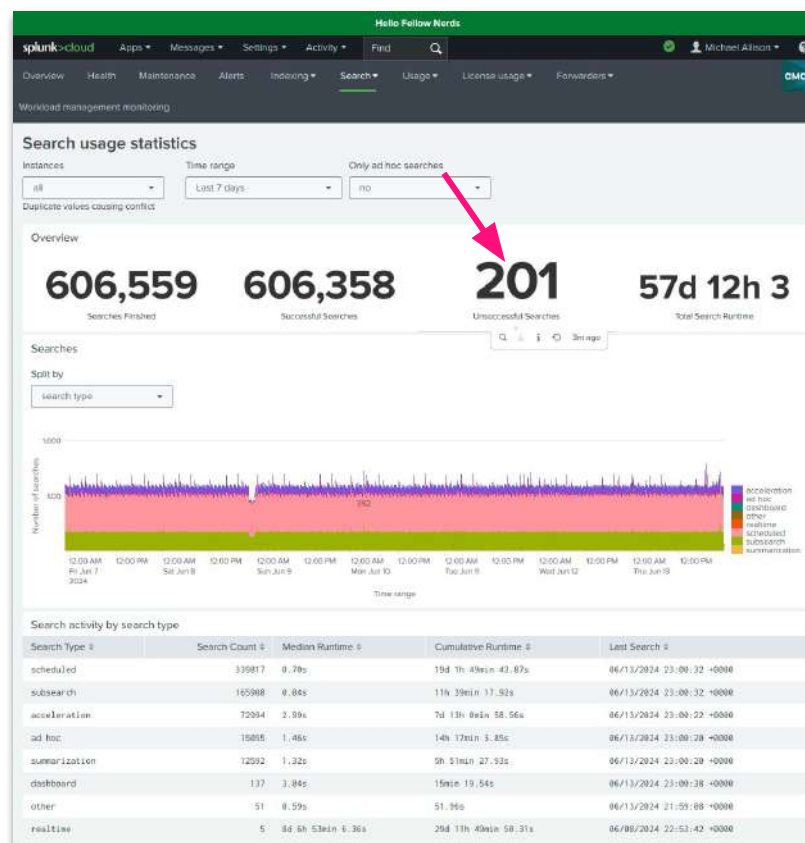
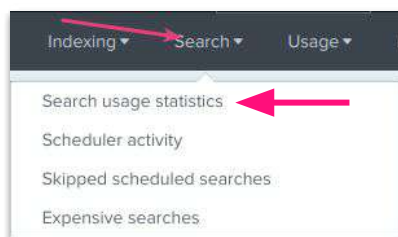
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Search - Search usage statistics



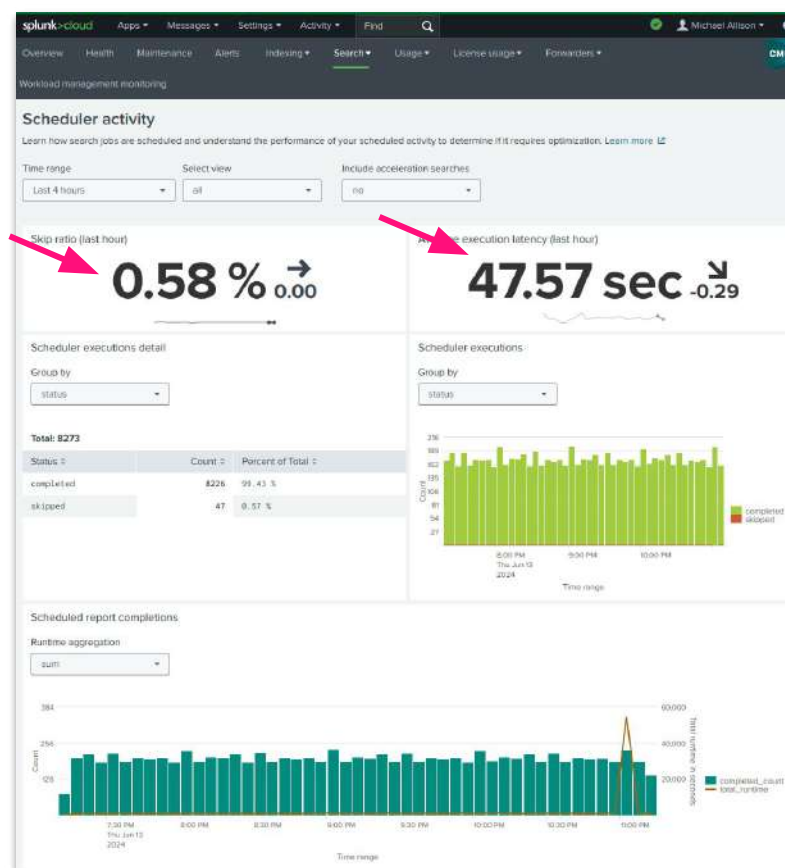
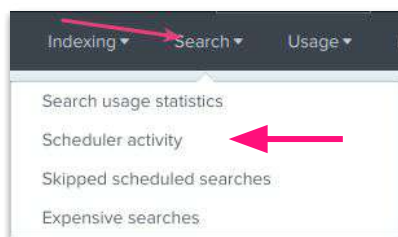
Use the Search dashboards

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

Explore Dashboards



Search - Search activity



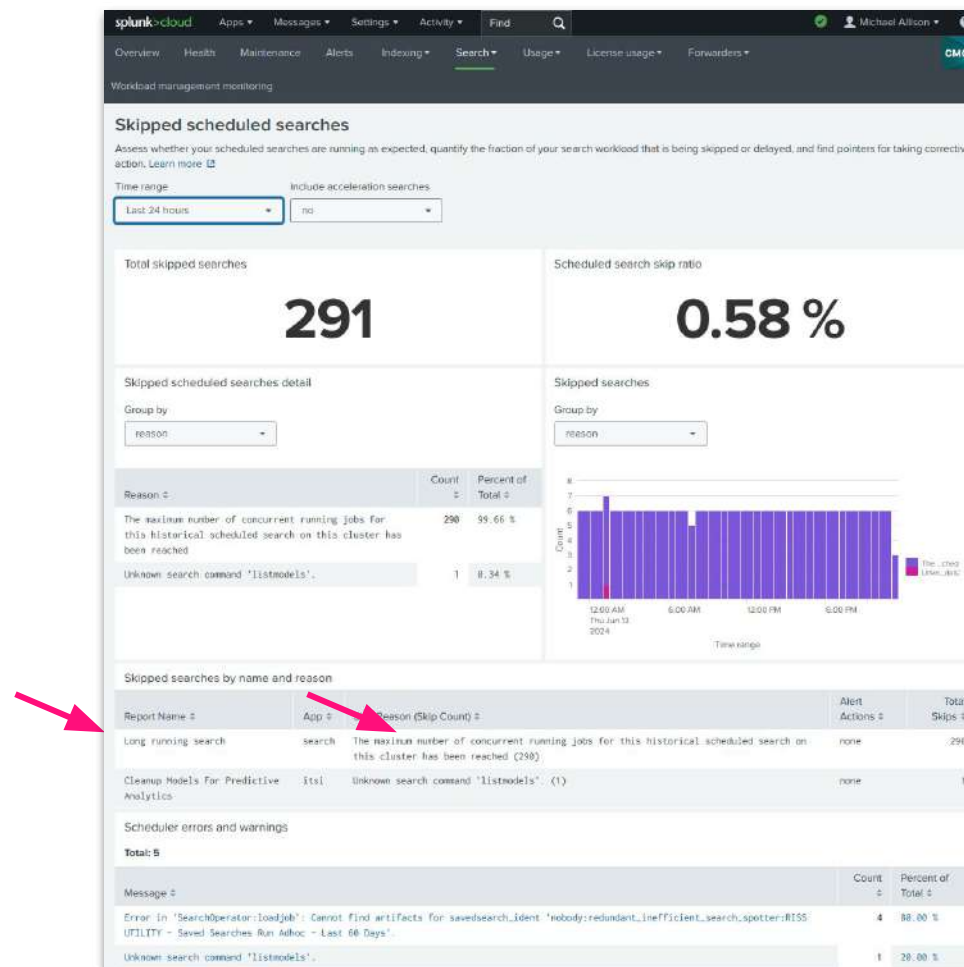
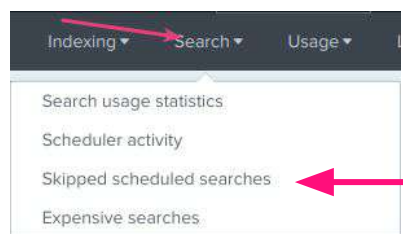
Use the Search dashboards

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Explore Dashboards



Search - Skipped scheduled searches



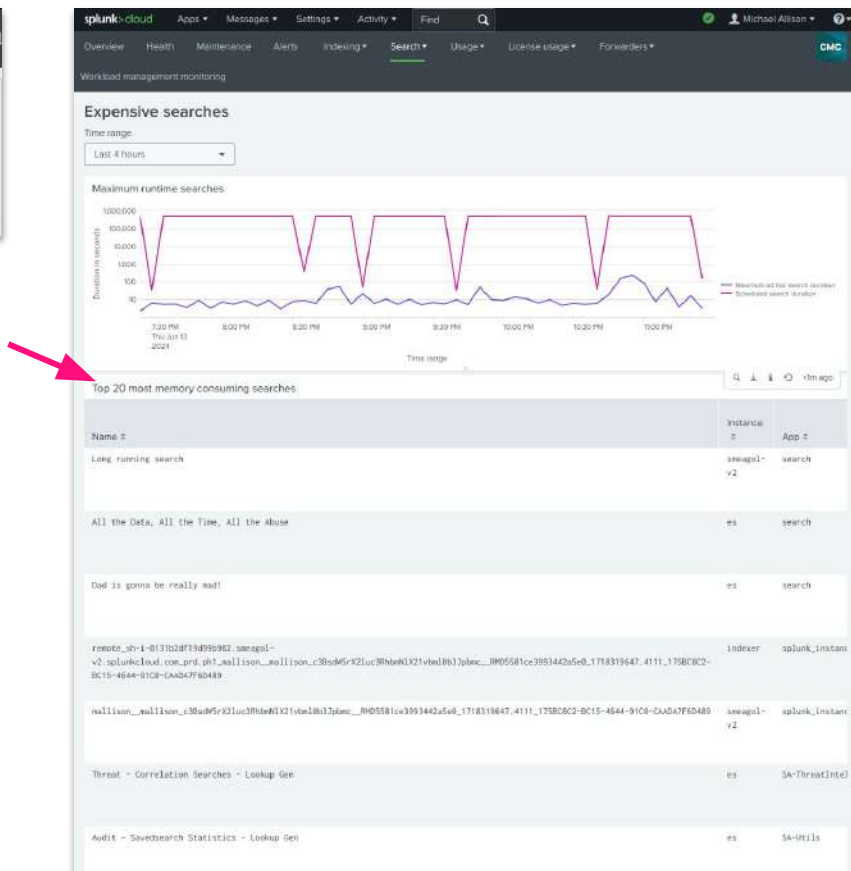
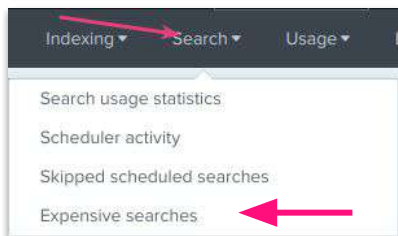
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Explore Dashboards



Expensive searches



Search Time	User	Time Range Start	Time Range End	Search Duration	Search Result Count	Events Scanned	Search
2024-13-06 22:57:08	mallison	2024-14-05 00:00:00	2024-13-06 22:53:01	00:03:45.44	33159	1,443,482	'search (index=* OR index=*) source="/opt/splunk/var/log/splunk/audit_ingest.log" sourcetype="audit_ingest-3" _index_earliest=-30d _index_latest=now search splunk_server=* eval event_size = len(_raw) eval time_disparity = (_indextime - _time) / 36000 stats count by linecount, event_size, time_disparity'

Search Time	User	Scheduled Time	Status	Search Duration	Percentage Memory Used	Search Result Count	Saved Search Name
2024-06-13 23:24:54	zshy	2024-06-08 04:19:33	completed	5+19:04:41.332	N/A	66	Test CPU high
2024-06-13 23:17:46	zshy	2024-06-08 04:19:33	completed	5+18:57:33.042	N/A	62	Test CPU high
2024-06-13 23:12:12	zshy	2024-06-08 04:19:33	completed	5+18:51:44.232	N/A	5089	Test CPU high
2024-06-13 23:06:59	zshy	2024-06-08 04:19:33	completed	5+18:46:31.448	N/A	5148	Test CPU high

User	Search SPL	Events Scanned	Search Time Range (days)	Search Duration	Splunk Query Score	Potentially Inefficient Behavior
zshy	'search index=* sourcetype=* stats count by host' search index=* sourcetype=* stats count by host	21,298,423	31	00:07:12.53	29	Long Search Window Missing Host Wildcard in Index
zshy	'search index=* sourcetype=* stats count by host' search index=* sourcetype=* stats count by host	21,412,295	31	00:07:10.97	29	Long Search Window Missing Host Wildcard in Index

Use the Search dashboards

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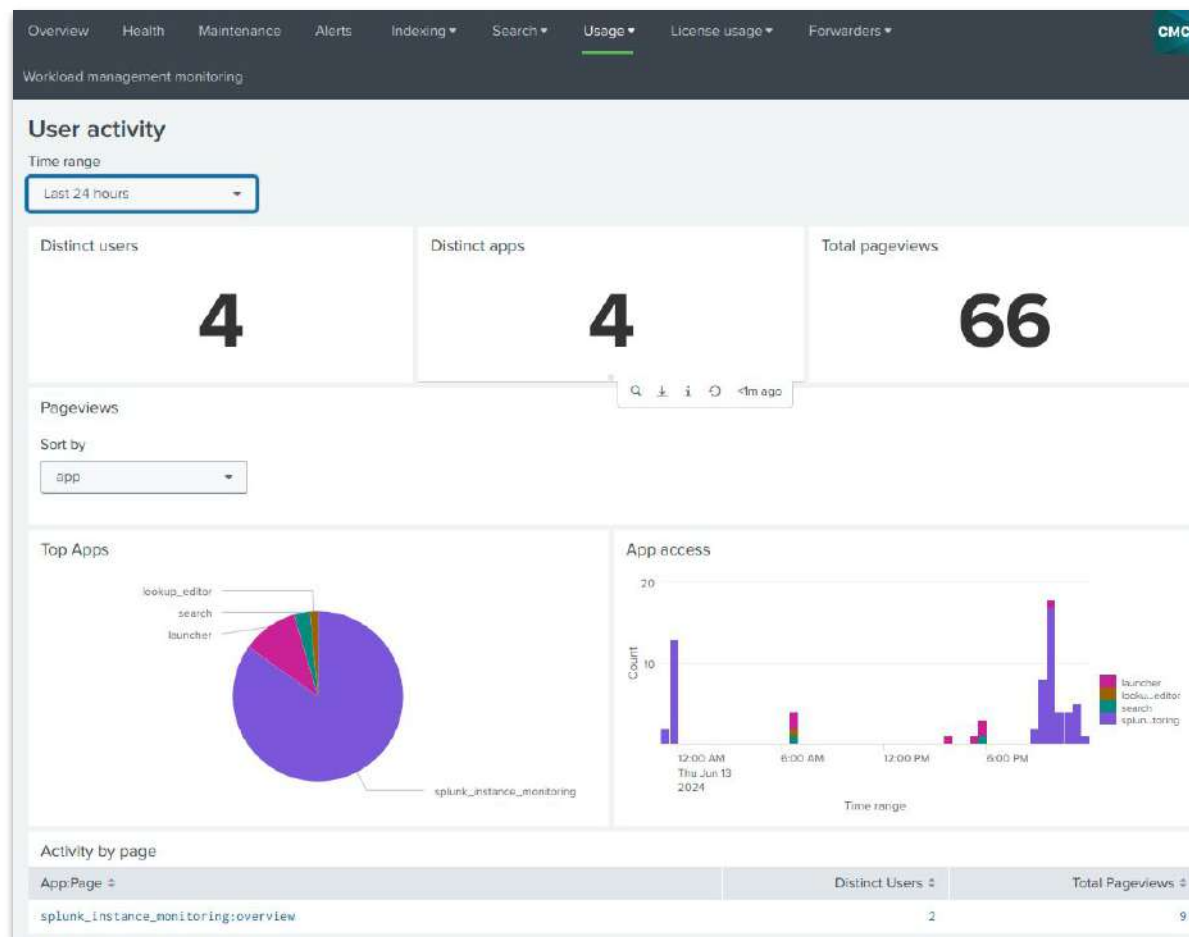
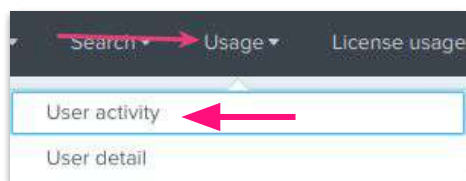
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Usage - User activity



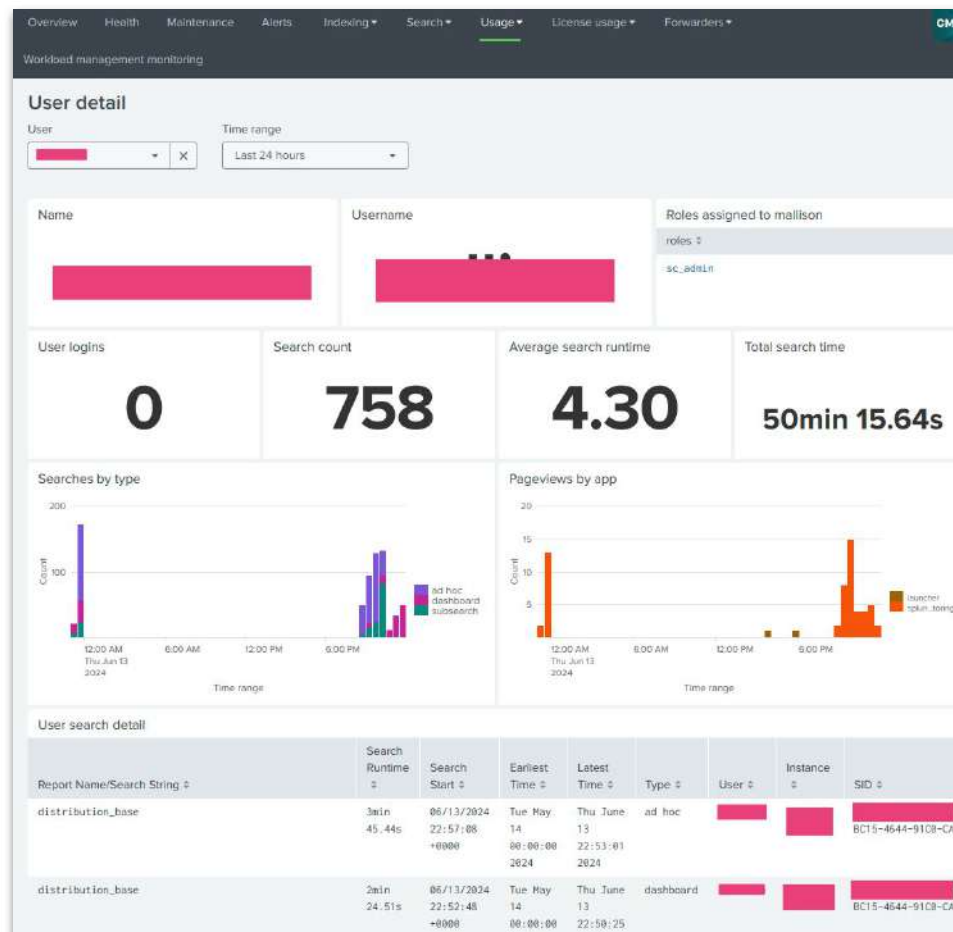
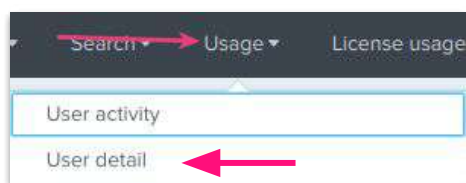
Use the Usage dashboards

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

Explore Dashboards



Usage - User detail



Use the Usage dashboards

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

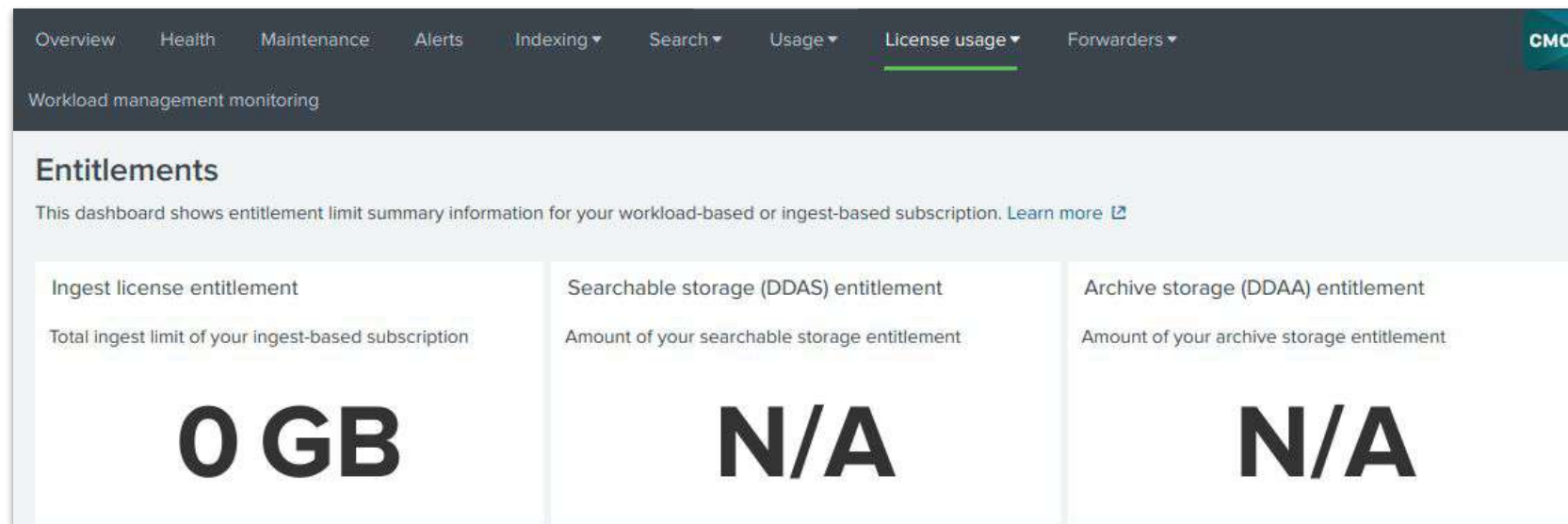
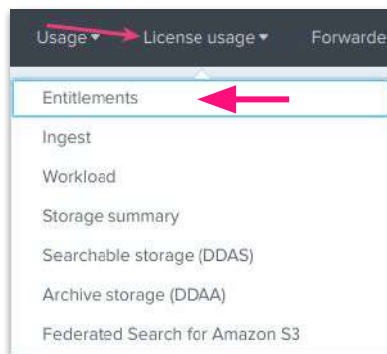
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License Usage - Entitlements

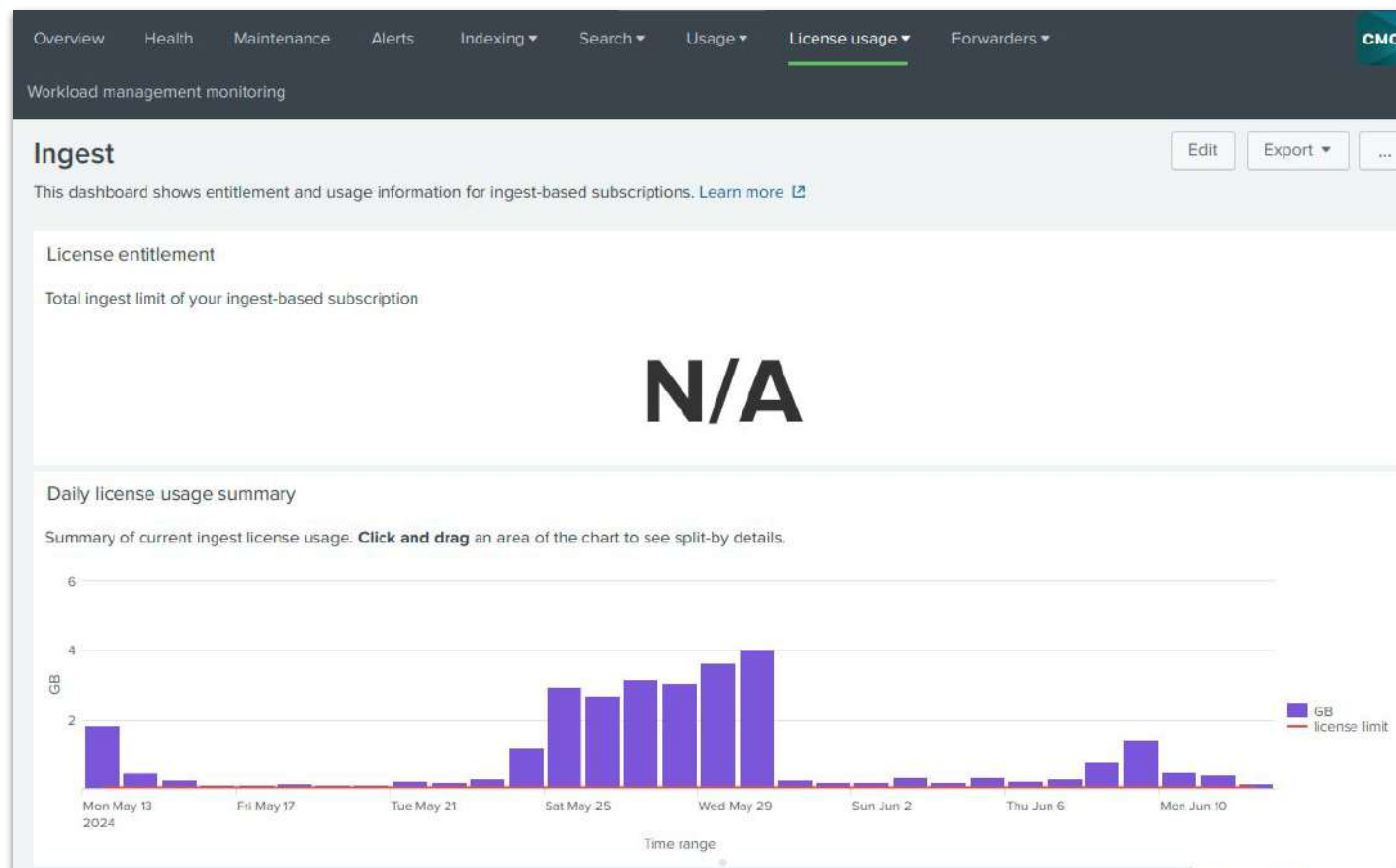
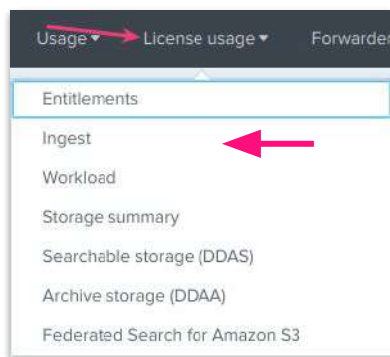


Use the License Usage dashboards <https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringLicenseUsage>

Explore Dashboards



License Usage - Ingest

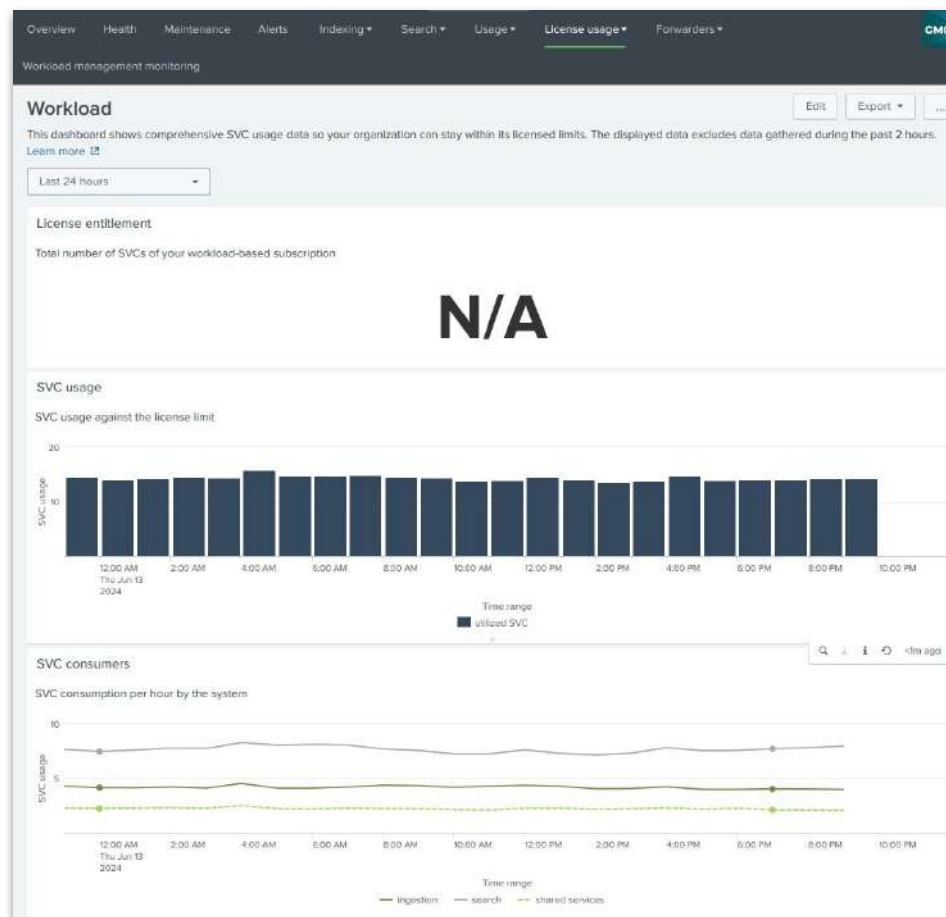
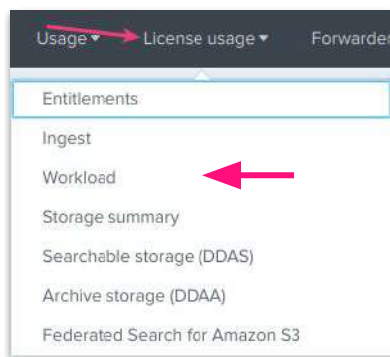


Use the License Usage dashboards <https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringLicenseUsage>

Explore Dashboards



License Usage - Ingest



Use the Workload (preview) dashboard

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

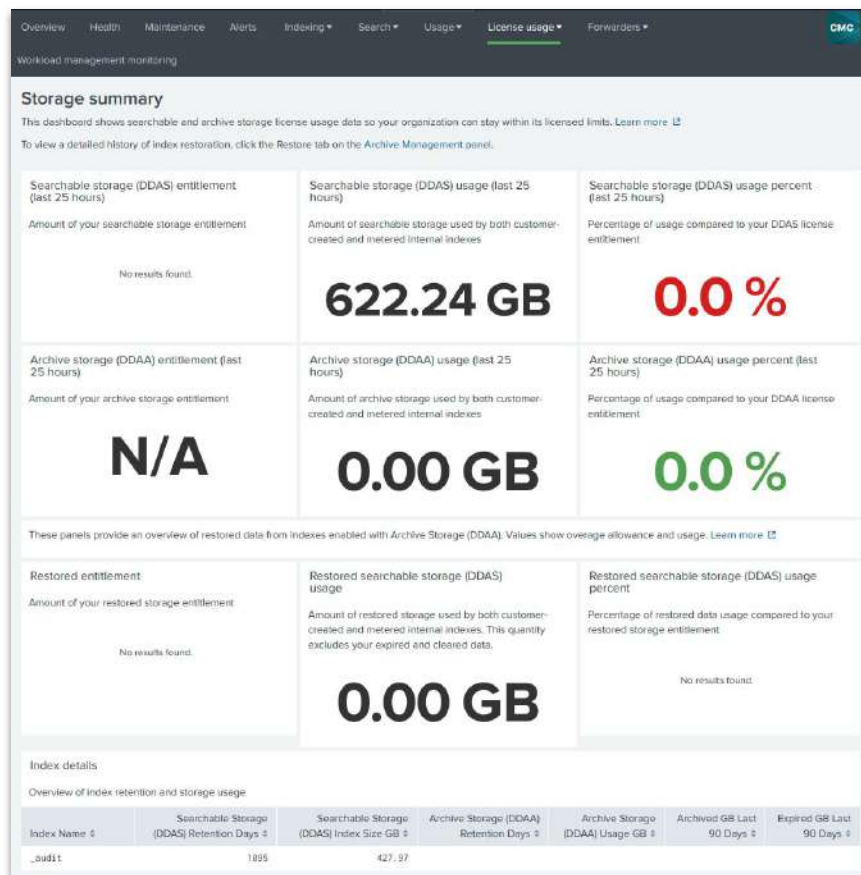
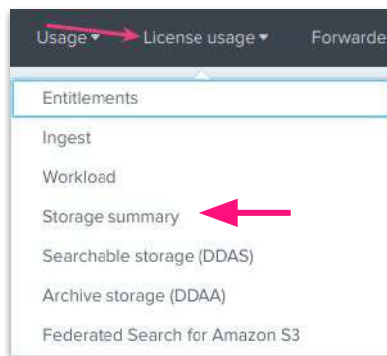
How is SVC Utilization Measured

[What is Splunk Virtual Compute \(SVC\)?](#)

Explore Dashboards



License Usage - Storage summary



Use the License Usage dashboards

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

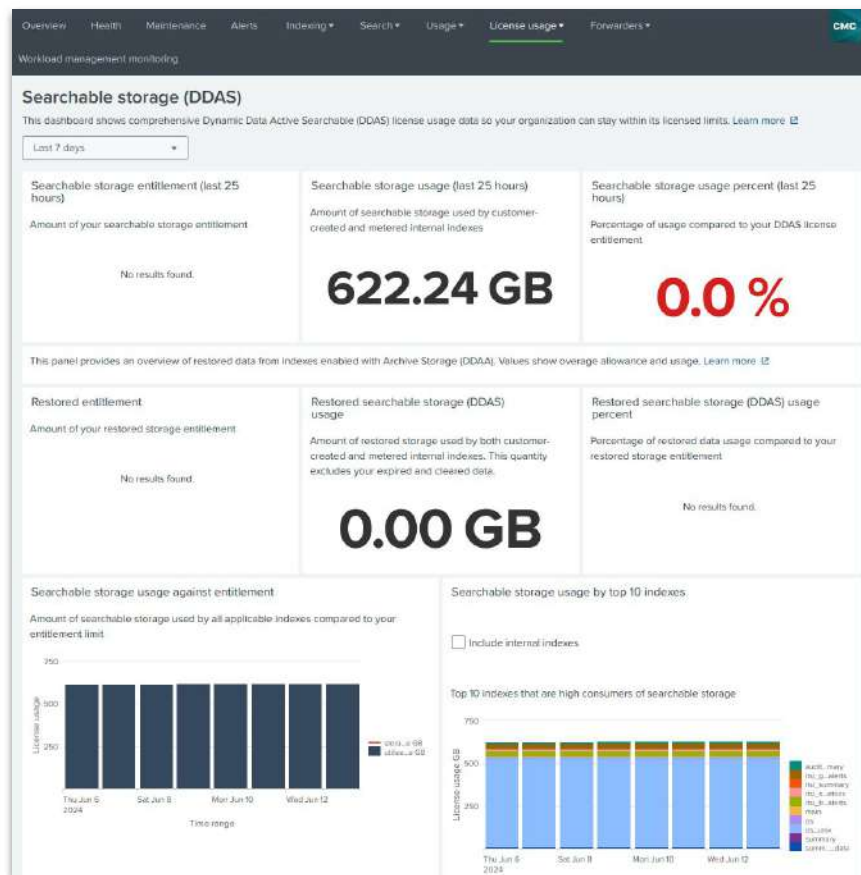
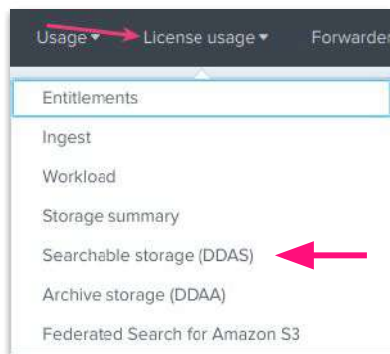
How is SVC Utilization Measured

[What is Splunk Virtual Compute \(SVC\)?](#)

Explore Dashboards



License Usage - Archive storage (DDAS)



Use the License Usage dashboards

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

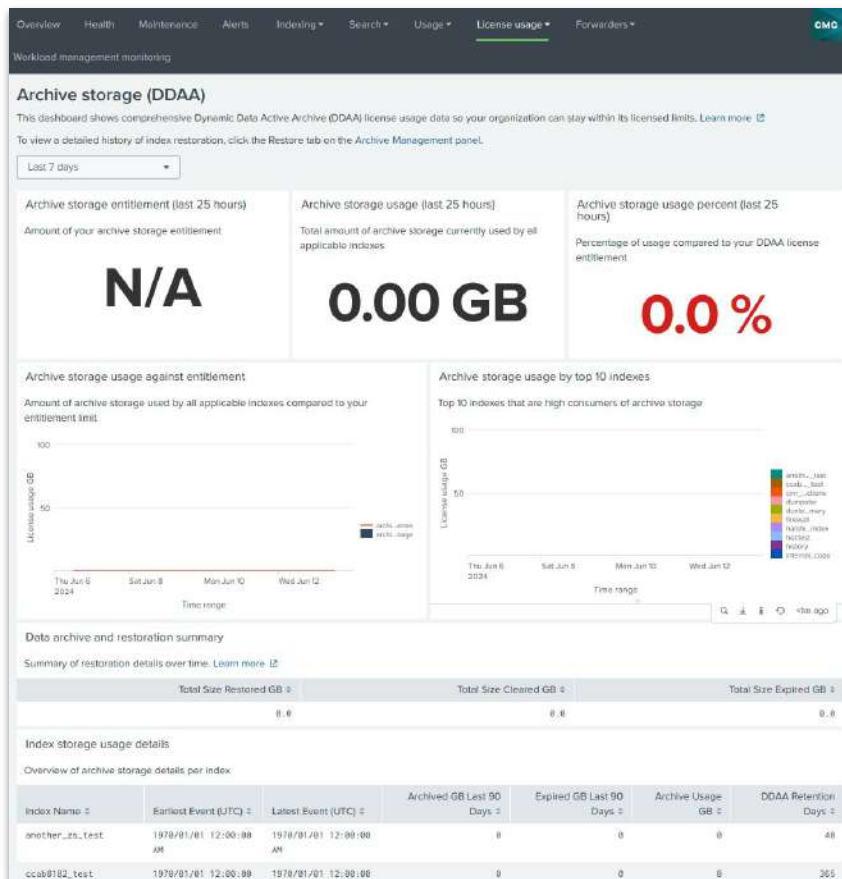
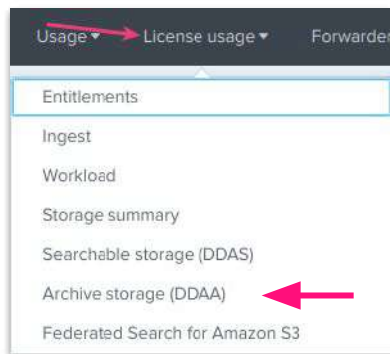
How is SVC Utilization Measured

[What is Splunk Virtual Compute \(SVC\)?](#)

Explore Dashboards



License Usage - Searchable storage (DDAA)



Use the License Usage dashboards

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

How is SVC Utilization Measured

[What is Splunk Virtual Compute \(SVC\)?](#)

Explore Dashboards



License Usage - Federated Search for Amazon S3

The image shows a screenshot of the Splunk interface. On the left, a navigation menu is open under the 'Usage' dropdown, showing options like 'Entitlements', 'Ingest', 'Workload', 'Storage summary', 'Searchable storage (DDAS)', 'Archive storage (DDAA)', and 'Federated Search for Amazon S3'. A red arrow points to the 'Federated Search for Amazon S3' option. The main dashboard area is titled 'Federated Search for Amazon S3' and includes a description: 'This dashboard shows comprehensive Federated Search for Amazon S3 license usage data so your organization can stay within its licensed limits. Your Federated Search for Amazon S3 license size is measured in Data Scan Units (DSUs). 10 TB equals one DSU. Learn more'. Below this, there are three key metrics: 'Total data scan entitlement' with a value of 'N/A TB', 'Data scan entitlement usage' with a value of '0.000 TB', and 'Percentage of data scan entitlement usage' with a value of '0.000%'. The dashboard also features a top navigation bar with tabs for Overview, Health, Maintenance, Alerts, Indexing, Search, Usage, License usage (selected), and Forwarders. A 'CMC' logo is visible in the top right corner.

Use the License Usage dashboards	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringLicenseUsage
How is SVC Utilization Measured	What is Splunk Virtual Compute (SVC)?

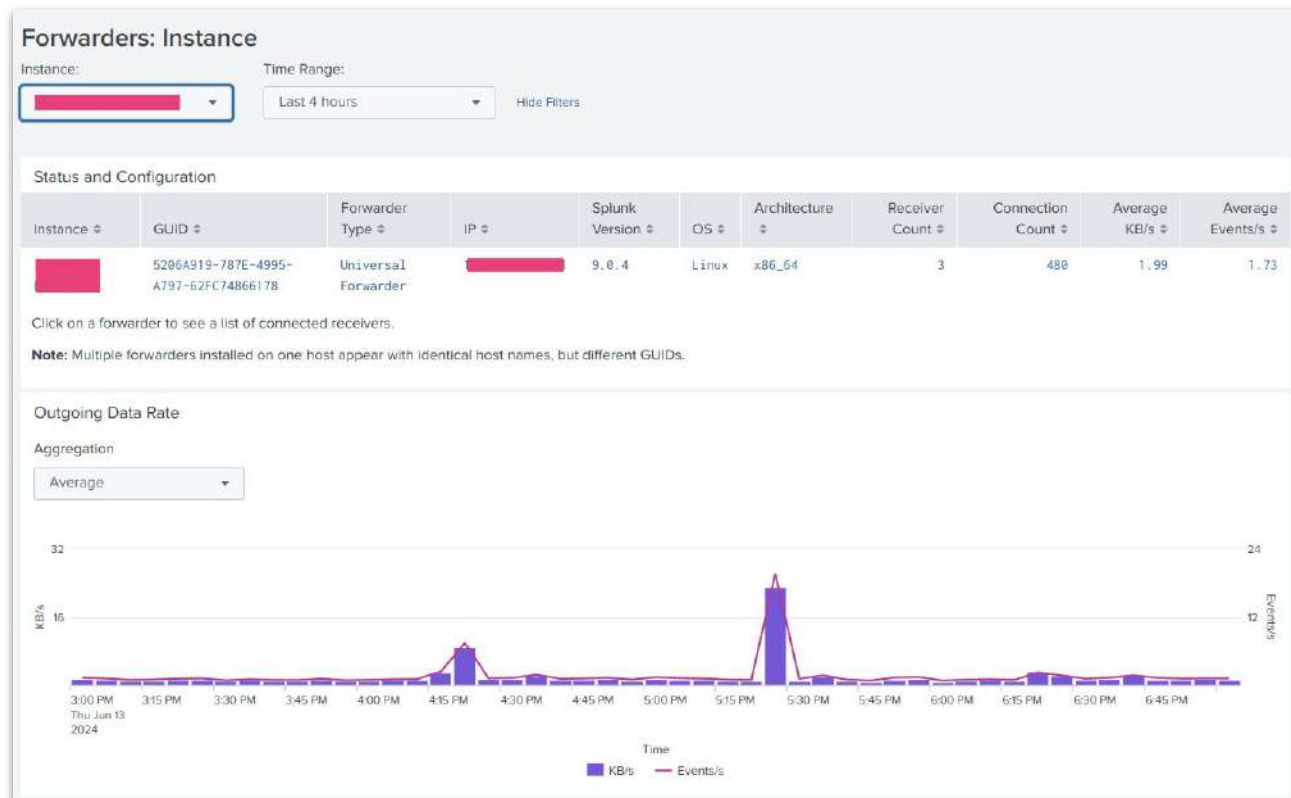
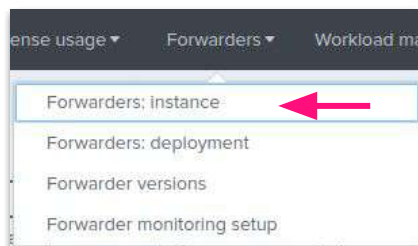
Workshop Agenda

- Discuss Who? What? Why?
- Expectations
- What is an Cloud Monitoring Console (CMC)?
- Explore Overview/Health/Maintenance/Alerts - Lab 1
- Explore Indexing - Lab 2
- Explore Search - Lab 3
- Explore Usage - Lab 4
- Explore License Usage - Lab 5
- **Explore Forwarders - Lab 6**
- Dashboard Modification
- Summary

Explore Dashboards



Forwarders: Instance



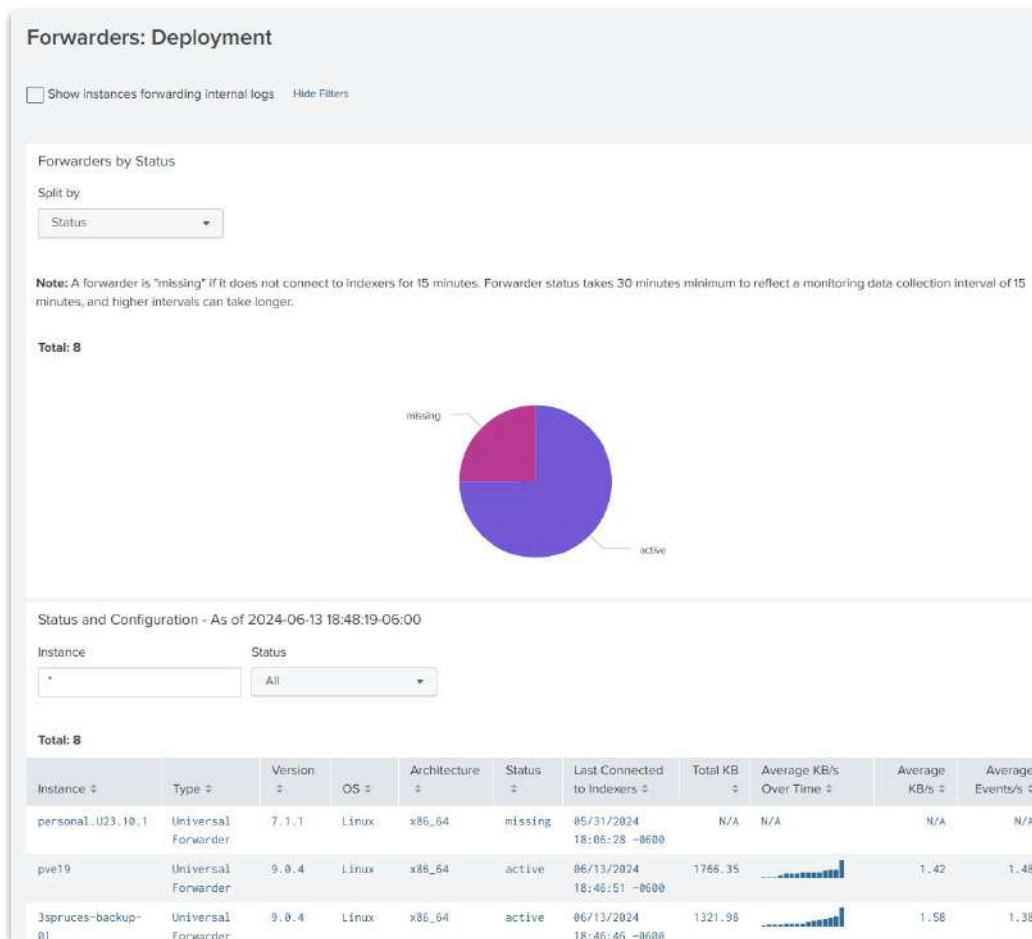
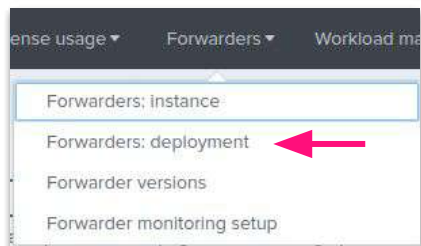
Use the Forwarder dashboards

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

Explore Dashboards



Forwarders: Deployment



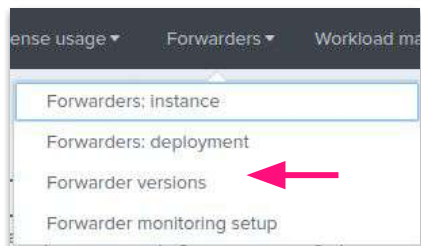
Use the Forwarder dashboards

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

Explore Dashboards



Forwarder versions



**NEED WORKING LAB FOR THIS, TEST
SYSTEM DIDN'T HAVE ANYTHING**

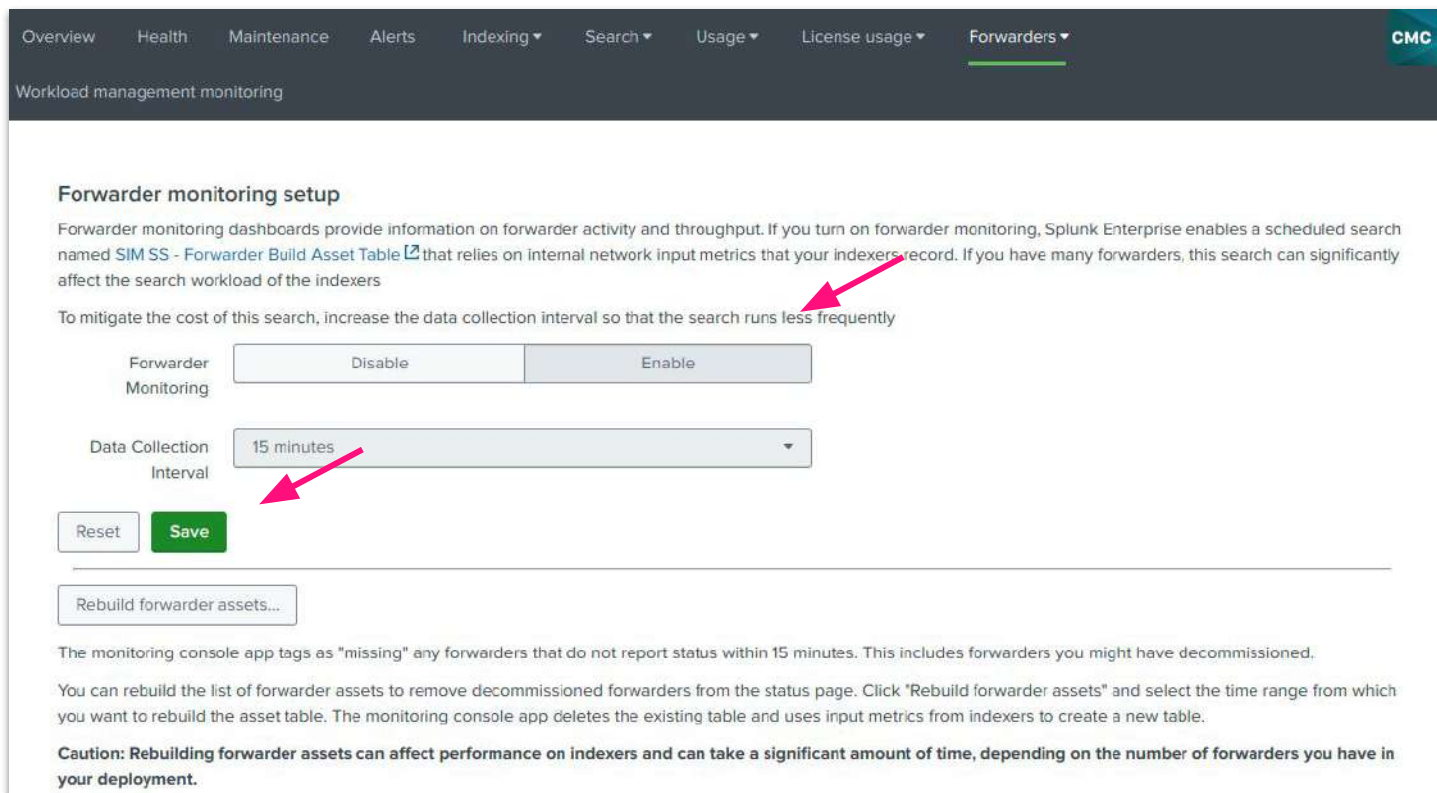
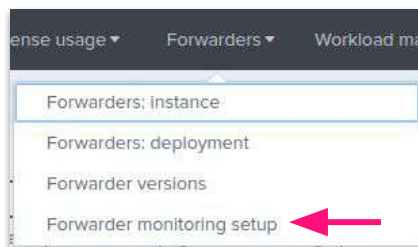
Use the Forwarder dashboards

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

Explore Dashboards



Forwarder versions



Use the Forwarder dashboards

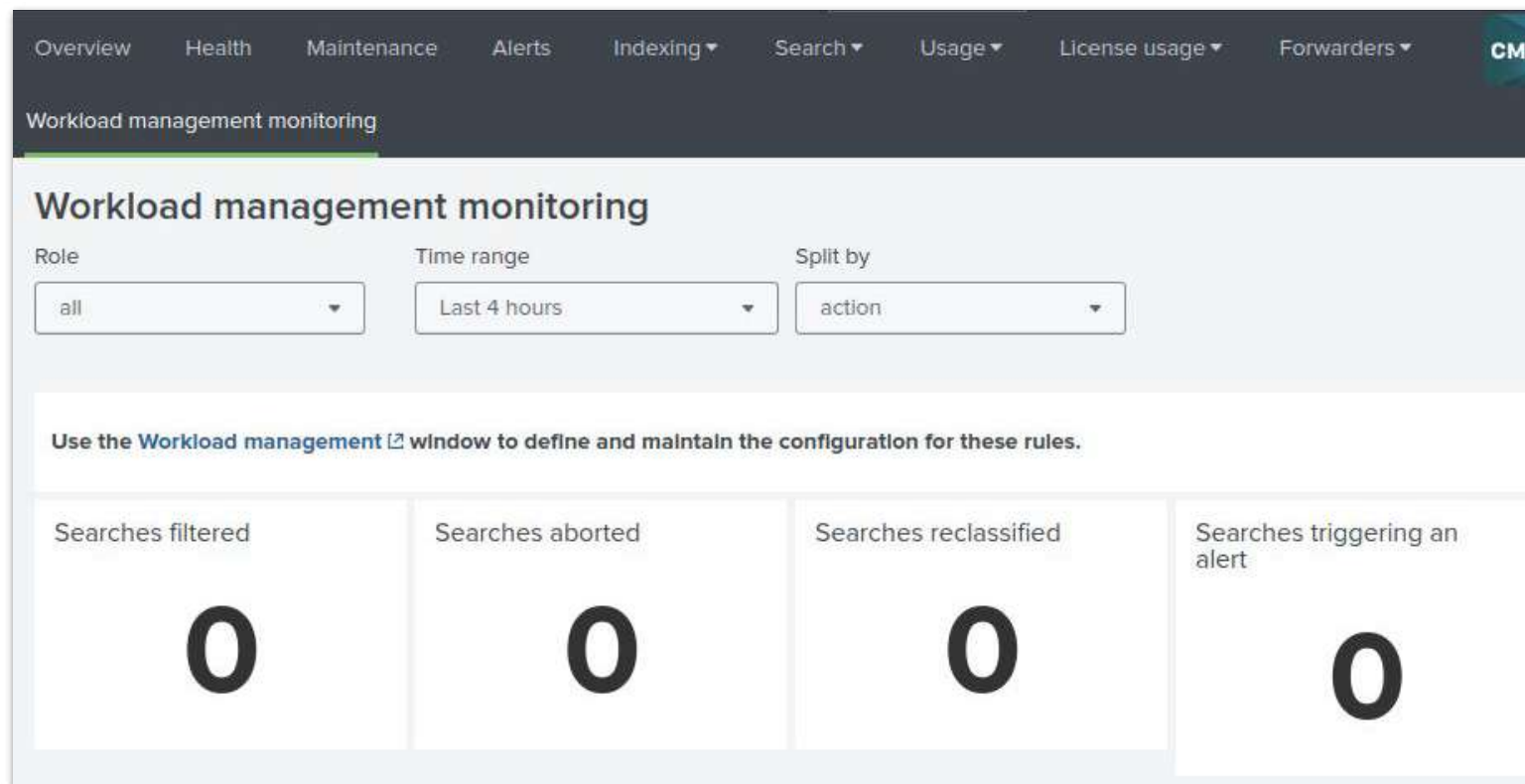
<https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringForwarders>

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- Explore Search - Lab 3
- Explore Usage - Lab 4
- Explore License Usage - Lab 5
- Explore Forwarders - Lab 6
- Explore Workload management monitoring - Lab 7
- **Dashboard Modification**
- Summary

Explore Dashboards

Workload management monitoring



Use the Workload Management Monitoring dashboard <https://docs.splunk.com/Documentation/SplunkCloud/9.2.2403/Admin/MonitoringWrkldMgmt>

Workshop Agenda

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- Explore Forwarders - Lab 6
- Explore Workload management monitoring - Lab 7
- **Dashboard Modification**
- Summary

Dashboard Modification

Localization

- Optimize a master CMC for your needs
 - Each dashboard/panel is cloneable (do not modify the existing in CMC)
 - Build a MC that is specific to your environment requirements
 - The app that hosts the MC is called “**Cloud Monitoring Console (splunk_instance_monitoring)**”
 - All dashboards, panels, and searches are in that app
 - Copy and modify as necessary
- Reiterate - **Do not modify any dashboards in the “Cloud Monitoring Console (splunk_instance_monitoring)” app**

MC/CMC Overview	https://docs.splunk.com/Documentation/Splunk/latest/DMC/DMCoverview
How the Monitoring Console works	https://docs.splunk.com/Documentation/Splunk/latest/DMC/HowtheDMCworks
Clone and manage dashboards	https://docs.splunk.com/Documentation/Splunk/latest/Viz/DashboardCloneHome

Workshop Agenda

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- Explore Forwarders - Lab 6
- Dashboard Modification
- Summary

Summary

Covered a great deal ...

- Learn CMC to understand your environment
 - Overview
 - Health Check
 - Indexing Performance
 - Search - Activity
 - Forwarders
- Difference between “deployment” and “instance”
 - Deployment provides overall - detect where potential issues are
 - Instance - determine specifically what is causing issue
- Clone and customize as necessary

Links

Also in the Lab Guide

Title	Link
Introduction to the Cloud Monitoring Console	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringIntro
Use the Overview dashboard	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringOverview
Use the Health dashboard	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringHealth
Use the Maintenance dashboard	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringComms
Use the Alerts dashboard	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringAlerts
Use the Indexing dashboards	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringIndexing
Check indexing performance	Use the Indexing dashboards - Splunk Documentation
Check index detail	Use the Indexing dashboards - Splunk Documentation
Verify data quality	Use the Indexing dashboards - Splunk Documentation
Check the status of HTTP event collection	Use the Indexing dashboards - Splunk Documentation
Use the Search dashboards	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringSearch
Use the Usage dashboards	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringUsage
Use the License Usage dashboards	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringLicenseUsage
Use the Workload (preview) dashboard	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/Workload
Use the Forwarder dashboards	https://docs.splunk.com/Documentation/SplunkCloud/latest/Admin/MonitoringForwarders
How is SVC Utilization Measured	What is Splunk Virtual Compute (SVC)?
Optimizing Search	https://lantern.splunk.com/Splunk_Platform/Product_Tips/Searching_and_Reporting/Optimizing_search
Write better searches	https://docs.splunk.com/Documentation/Splunk/latest/Search/Writebettersearches
Remediate long-running searches	https://community.splunk.com/t5/Knowledge-Management/help-optimize-a-long-running-search/m-p/551040
Search Optimization	https://docs.splunk.com/Documentation/Splunk/latest/Search/Built-inoptimization
Search Head Clustering	https://docs.splunk.com/Documentation/Splunk/latest/DistSearch/SHCarchitecture
Communities: Skipped Searches	https://community.splunk.com/t5/Splunk-Search/Skipped-Searches/m-p/563180
Reducing skipped searches	https://lantern.splunk.com/Splunk_Platform/Product_Tips/Searching_and_Reporting/Reducing_skipped_searches
Communities: Skipped Saved Searches	https://community.splunk.com/t5/Reporting/Skipped-Saved-Searches/td-p/55288
Are You Skipping? Please Read!	https://www.splunk.com/en_us/blog/tips-and-tricks/are-you-skipping-please-read.html
About search optimization	https://docs.splunk.com/Documentation/Splunk/latest/Search/Aboutoptimization
Identify and triage indexing performance problems	https://docs.splunk.com/Documentation/Splunk/latest/Troubleshooting/Troubleshootindexingperformance
Clone and manage dashboards	https://docs.splunk.com/Documentation/Splunk/latest/Viz/DashboardCloneHome
Splunk Supported Versions: Core and Forwarder	https://www.splunk.com/en_us/legal/splunk-software-support-policy.html#:~:text=in%20English%20only,-Core,-Splunk%20Enterprise%20/%20Splunk

Thank you