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Understanding the Monitoring Console

TRU1172B

Clara Merriman

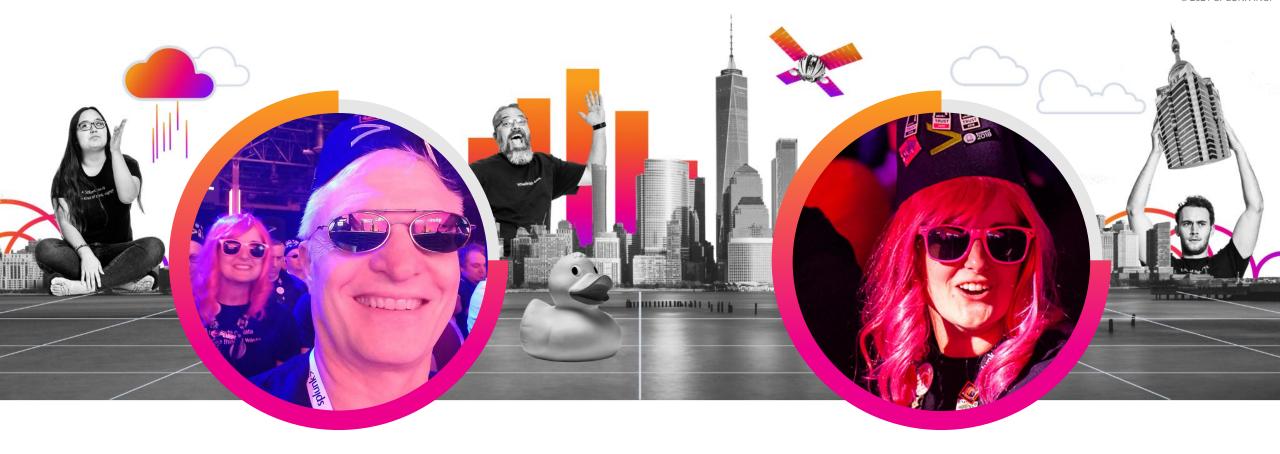
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Agenda

What you will learn

The Monitoring Console is a complex and very useful tool that will make understanding your environment much easier.



1) What Should Be Monitored?

Health of Searching & Indexing, Resource usage, etc.

2) How to Monitor?

Navigating the UI

3) Where to Run Monitoring?

Search head, License Master, or ??

4) Set Up Monitoring

Quick setup guide

5) Troubleshooting Ideas

Expanding the MC



What's Important?

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Search



- Scheduler
- Search activity Replication KV Store













Indexing



- License usage
- Inputs SmartStore
- Volumes













Resources



- Memory Disk CPU







Search



- Scheduler
- Search activity
- Replication
- KV Store

Indexing



- License
- Inputs
- SmartStore
- Volumes

Resources



- Memory
- Disk
- CPU

Forwarders



- Status
- Event counts

Instances



Status



Search



- Scheduler
- Search activity
- Replication
- KV Store

Indexing



- License
- Inputs
- SmartStore
- Volumes

Resources



- Memory
- Disk
- CPU

Forwarders



- Status
- Event

Instances



Status





Monitor? But How?

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Third Party

- Not Splunk supported
- Requires integration

Splunk Alerts

- Splunk supported
- Used for Monitoring
- Create alerts for each use case

Splunk Observability

- Splunk supported
- Developed for Observability
- Create alerts for each use case

Monitoring Console

- Splunk supported
- Developed for Monitoring
- Out of the box dashboards, healthchecks, and alerts.



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Where do I put it?

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Where Makes Sense?

So many locations

When in doubt, a Standalone SH will work.

meet SH hardware requirements

Do not host the MC on a SH used for another purpose

- ties up resources
- searches may be incomplete

Do not host the MC on a DS with more than 50 clients

interfere with each other

Instance Type	Distributed Mode?	Indexer Clustering?	Search Head Clustering
LM/DS	No	N/A	N/A
Manager Node	Yes	Yes	N/A
Standalone SH	N/A	N/A	N/A
Deployer	Yes	No	Yes



MC Setup

The WHERE and the HOW



Set Up Checklist

- For each monitored instance:
 - Unique serverName in server.conf
 - Unique host in inputs.conf
 - Enable platform instrumentation, except forwarders
 - Forward internal logs
- admin_all_objects capability is required for users setting up the Monitoring Console

Set Up

By environment type

Distributed Mode

- Set SHC and IDXC labels
- Both found in server.conf
- IDXC: While setting up the Manager node
 [clustering]
 cluster label =
- SHC: While setting up the Deployer
 [shclustering]
 shcluster label =
- Add search peers
- Set distributed mode

Standalone Mode

Set standalone mode

OPTIONS FOR BOTH:

- Configure Forwarder monitoring
- Enable platform alerts
- Customize Health Checks
- Customize Overview dashboard



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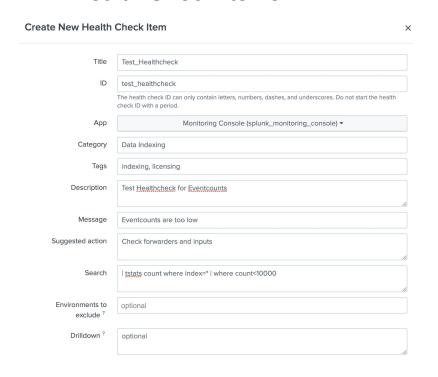


Health Checks

Environmental physicals

Create

Monitoring Console > Settings > Health Check Items



Update

Monitoring Console > Settings > Health Check Items

Update Health Checks

New Health Check Item

Monitoring Console > Health Check > Update Health Checks

Update Health Checks 🛮

Start

Use

Monitoring Console > Health Check > Start

Update Health Checks [2

Start

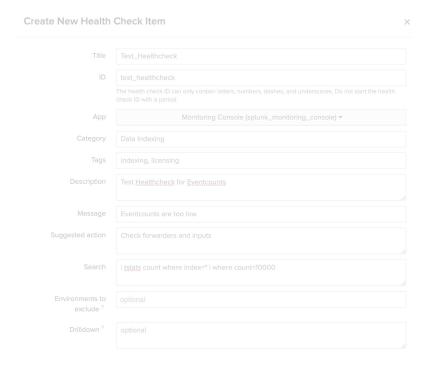


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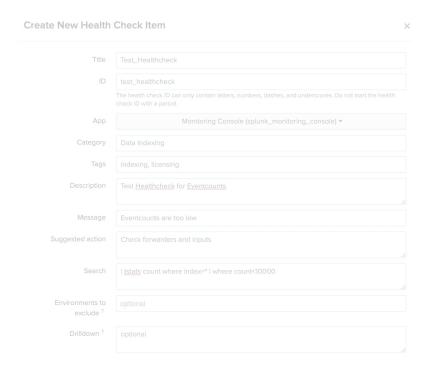


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Use

Monitoring Console > Health Check > Start

Update Health Checks [2

Start



Platform Alerts

Monitoring made easy

- Monitoring Console > Settings > Alerts Setup
- edit threshold
- go to saved search
- disable
- Settings > Searches, reports, and alerts
- edit/run search
- If creating new alert via UI in MC app, thresholds are uneditable

If adding new alerts:

Changes need to be made in:

- local/dmc_alerts.conf
- local/savedsearches.conf
- Threshold may not be reflected in the UI, unless updated there as well



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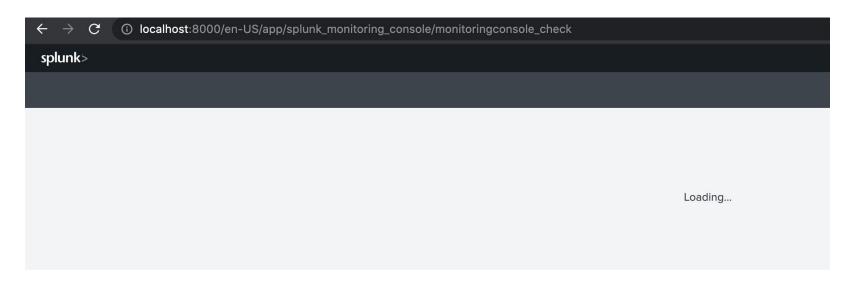
What About Issues?

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Health Check Issues

Just load already!

- Monitoring Console > Health Check stuck on Loading...
- empty checklist.conf, use btool
- Pre v7.3.6/v8.0.4, UF license in use





Health Check Issues

Where's my inventory?!

- assets.csv
- All MC searches run from this
- Settings > Distributed Search > Search Peers
- May need to update/apply changes in Monitoring Console > Settings > General Setup
- dmc_forwarder_assets.csv
- Monitoring Console > Settings > Forwarder Monitoring Setup > Rebuild forwarder assets
- Limited to 50,000 forwarders in the U

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Key Takeaways

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What to Remember

- Monitoring the critical aspects of the entire environment is crucial
- Using the Monitoring Console paired with Splunk Alerts and Splunk Observability gives an all around picture and flexibility
- Proper setup of the Monitoring Console is vital
- Health Checks and Platform Alerts are customizable

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Resources

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Resources/ Links/ Additional Help

- Where to set up a DMC
- Setup Checklist
- Single Instance Setup
- Deployment Setup
- Health Checks
- Platform Alerts
- Health Check Not Running
- New Indexers Not Updating





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Thank You

Please provide feedback via the

SESSION SURVEY



