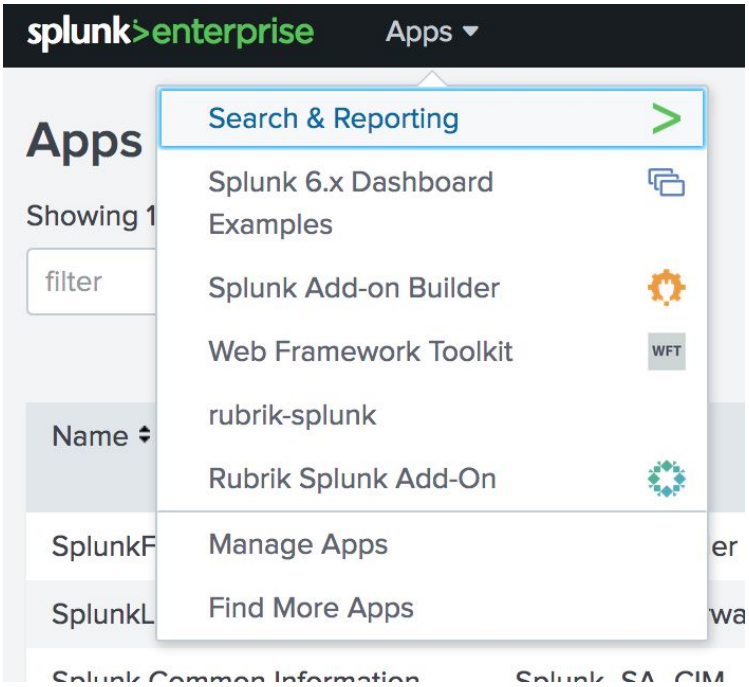
Rubrik Splunk Add-On

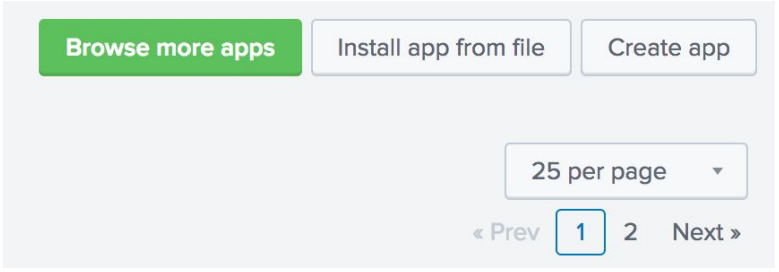
Installation and Setup Guide

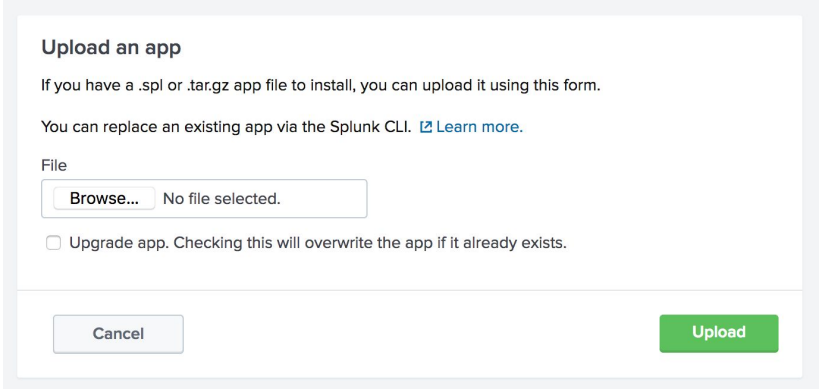
Installing the Add-On

1. Go to the ‘Manage Apps’ page in Splunk:

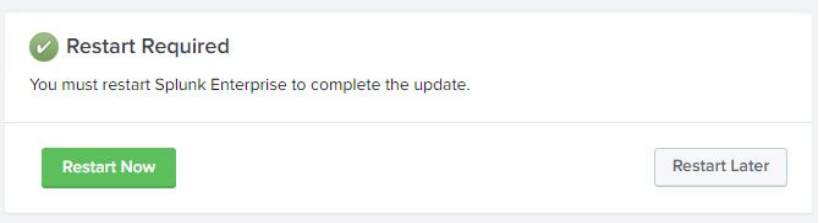


2. Select ‘Install app from File’:





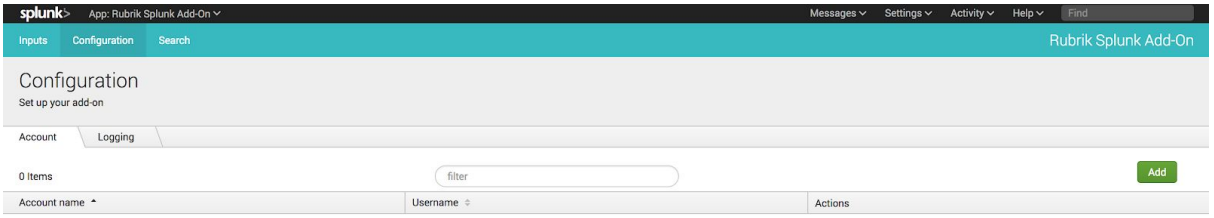
3. Click ‘Browse’ and browse to the location of the exported add-on. Select the file and click ‘Upload’. Splunk may ask to be restarted after upload.



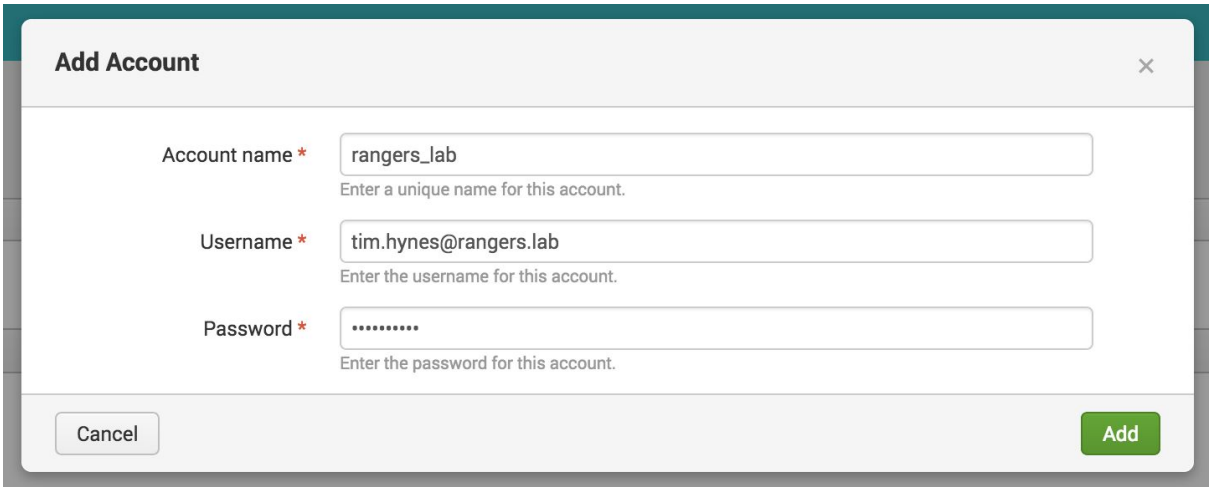
Credentials and Logging

1. Go to the ‘Rubrik Splunk Add-On’ application:

2. Click the ‘Configuration tab, and click the ‘Add’ button:

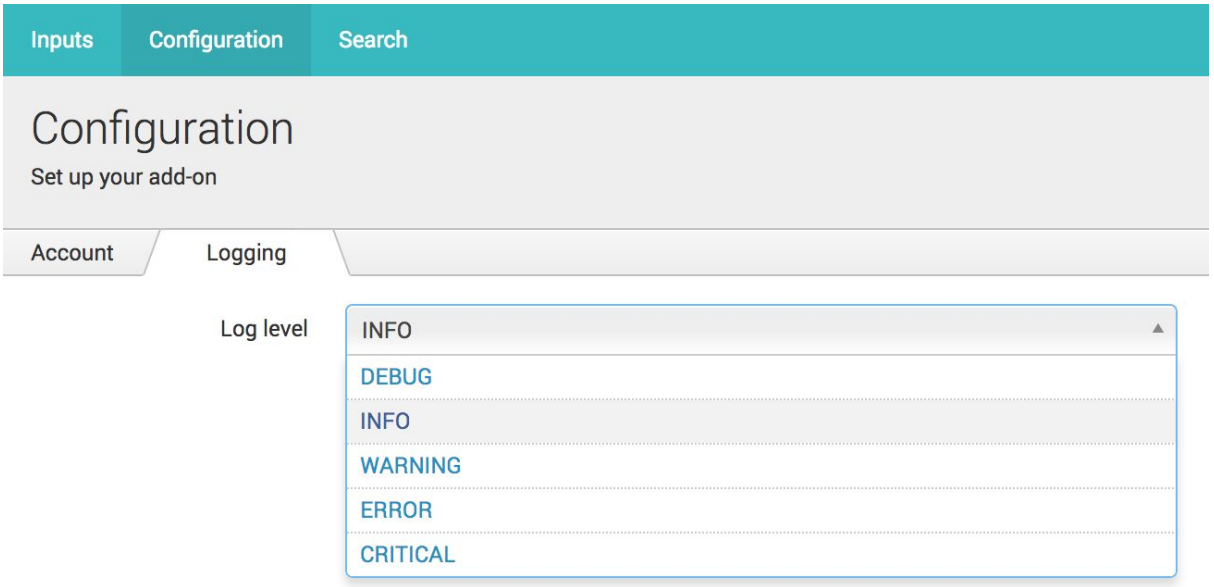


3. Enter a name for the credential, and the username and password:



4. Press Add.

5. Click on the ‘Logging’ tab, and set the desired log level (INFO is the default, and should be fine for most use cases)



Creating Inputs

Inputs will be created for each of the input types, for each cluster to be monitored, these will define the systems to collect data from using the REST API.

There are four inputs required for the Rubrik Splunk application, the specifications for these are detailed below, followed by instructions on how to create an input:

Required Inputs

NOTE: If you are adding multiple Rubrik clusters, then it is a good idea to include a short version of the cluster name in the ‘Name’ field, in this case, replace ‘rubrik’ with the short name of your cluster.

NOTE: It is a good idea to use a floating IP address for the ‘Rubrik Node’ value - this will ensure that in the case of a node being unavailable, the data points can still be gathered. Instructions on setting up floating IPs can be found in the Rubrik User Guide.

Name	rubrik_runway_remaining
Interval	3600
Index	main
Global Account	*<as defined in previous section>*
Rubrik Node	*<node or floating ip as desired>*

Input Type	Rubrik - Runway Remaining

Name	rubrik_storage_summary
Interval	600
Index	main
Global Account	*<as defined in previous section>*
Rubrik Node	*<node or floating ip as desired>*
Input Type	Rubrik - Storage Summary

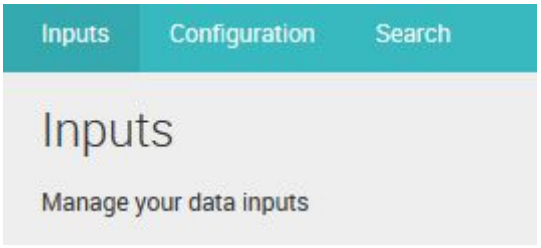
Name	rubrik_event_feed
Interval	60
Index	main
Global Account	*<as defined in previous section>*
Rubrik Node	*<node or floating ip as desired>*
Input Type	Rubrik - Event Feed

Name	rubrik_cluster_io_stats
Interval	60
Index	main
Global Account	*<as defined in previous section>*
Rubrik Node	*<node or floating ip as desired>*
Input Type	Rubrik - Cluster IO Stats

How to create an Input

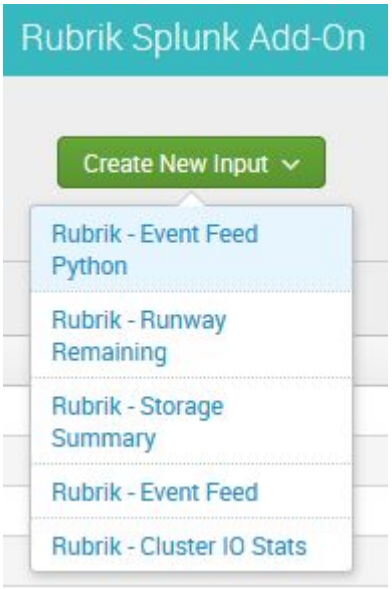
1. Go to the ‘Rubrik Splunk Add-On’ in the application picker

2. Ensure you are on the ‘Inputs’ tab

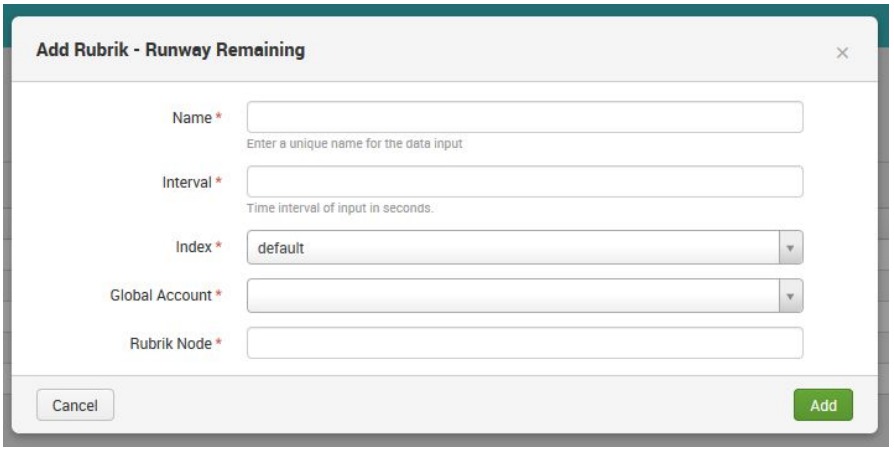


3. Click ‘Create New Input’

4. Select the input type, as defined in the table in the last section, from the dropdown



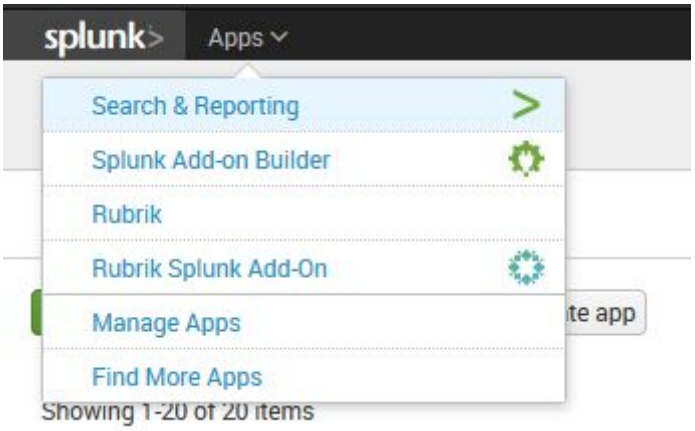
5. Enter the details as defined in the last section, and click Add



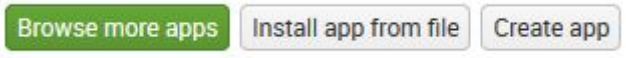
Importing the Rubrik application

The Rubrik application will be used to contain the datasets and dashboards imported through the Rubrik Add-On. The steps below detail how to import the application file.

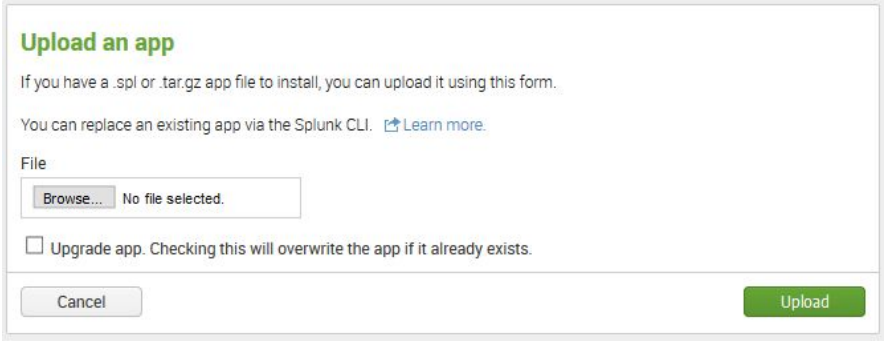
1. Go to ‘Manage Apps’ under the application picker



2. Click the ‘Install app from file’ button



3. Click ‘Browse’ and select the ‘Rubrik.spl’ file, click ‘Upload’



Creating Datasets

Datasets are used to store the gathered data in a table in Splunk. These need to be created once the add-on and application have been imported so that the dashboards can consume the filtered data.

There are five datasets required for the Rubrik Splunk application, the specifications for these are detailed below, followed by instructions on how to create a dataset:

Required Datasets

The following datasets are required:

Table Title	Rubrik - Backup Job Events
Search String	(index="main") (sourcetype="rubrik_rest_event_feed") | where eventType="Backup" and (eventStatus="Success" or eventStatus="Failure") | dedup id
Table ID	rubrik_dataset_backup_job_events
Fields	_time eventInfo eventStatus objectId objectName objectType time _raw

Table Title	Rubrik - Runway Remaining
Search String	(index="main") (sourcetype="rubrik_rest_runway_remaining")
Table ID	rubrik_dataset_runway_remaining
Fields	_time remaining_days _raw

Table Title	Rubrik - Security Audit Events
Search String	(index="main") (sourcetype="rubrik_rest_event_feed") | where eventType="Audit" | table

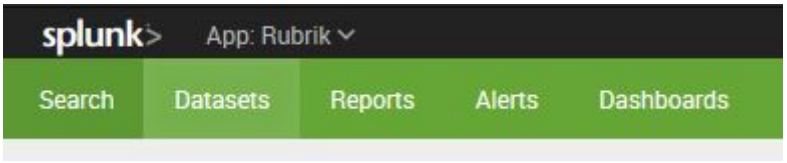
	time,id,eventInfo,eventStatus,eventType,objectName,objectType | sort 0 + time | dedup id
Table ID	rubrik_dataset_security_audit_events
Fields	eventInfo eventStatus eventType id objectName objectType time

Table Title	Rubrik - Storage Summary
Search String	(index="main") (sourcetype="rubrik_rest_storage_summary")
Table ID	rubrik_dataset_storage_summary
Fields	available lastUpdateTime total used _raw

Table Title	Rubrik - Cluster IO Stats
Search String	(index="main") (sourcetype="rubrik_rest_cluster_io_stats") | rename iops.readsPerSecond{}.stat AS iopsRead, iops.writesPerSecond{}.stat AS iopsWrite, ioThroughput.readBytePerSecond{}.stat AS tpRead, ioThroughput.writeBytePerSecond{}.stat AS tpWrite | table _time,iopsRead,iopsWrite,tpRead,tpWrite
Table ID	rubrik_dataset_cluster_io_stats
Fields	_time iopsRead iopsWrite tpRead tpWrite

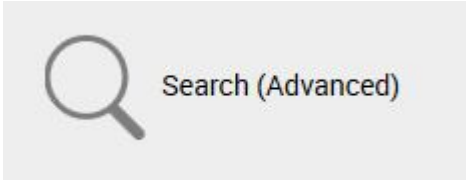
How to create a Dataset

1. If you do not have the ‘Splunk Datasets Add-on’ installed or enabled, you will need to install this from the app store in Splunk and enable it, or download and install it from here.
2. Go to the ‘Datasets’ tab under the ‘Rubrik’ application

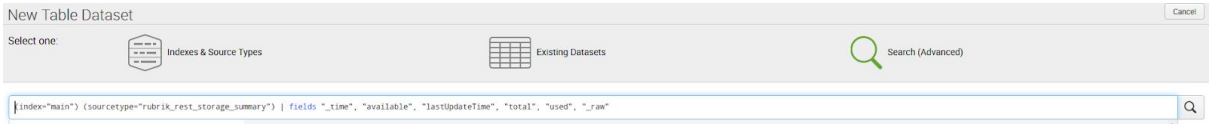


3. Click the ‘Create New Table Dataset’ button (if you do not have the Splunk Datasets Add-on enabled or installed you will not see this button)

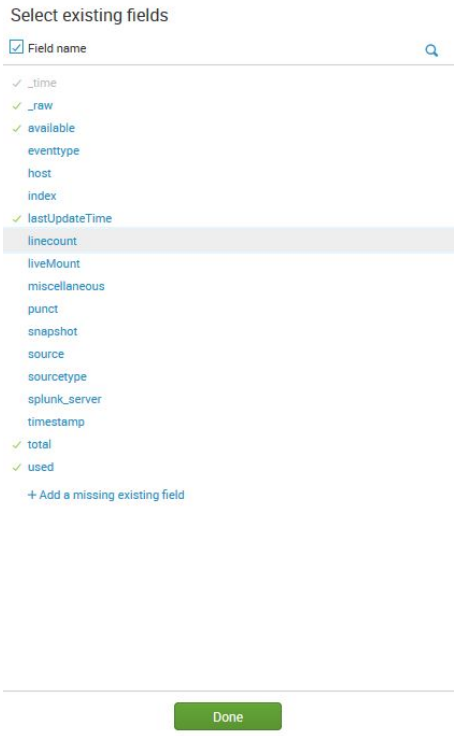
4. Click the ‘Search (Advanced)’ link



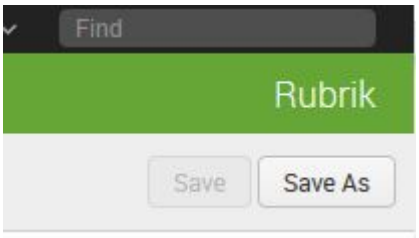
5. Enter the search string as defined in the tables in the last section, and hit the search button on the far right



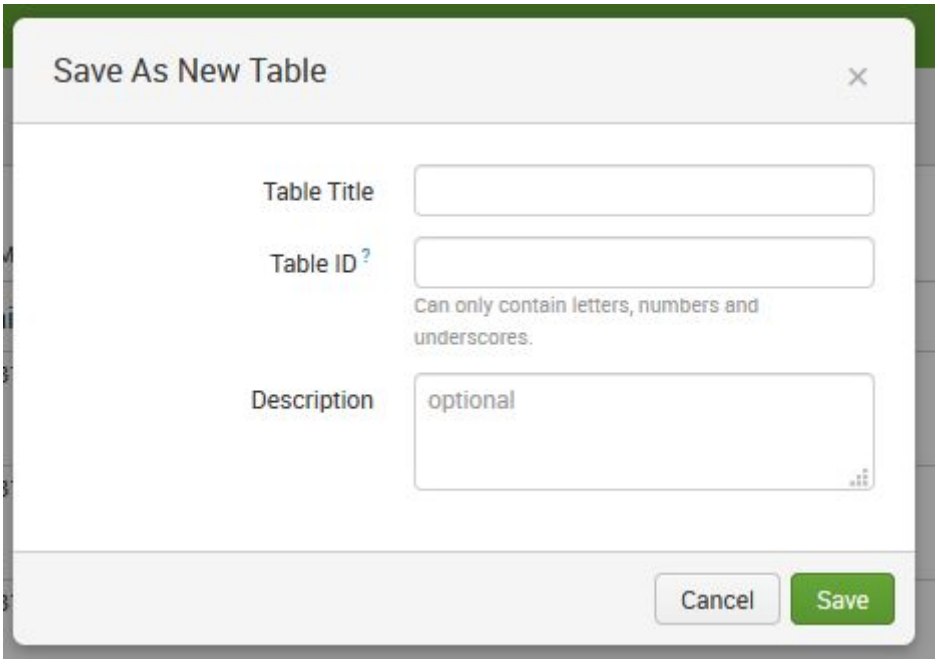
6. Select the fields as defined in the ‘Fields’ section of the tables in the last section, click ‘Done’



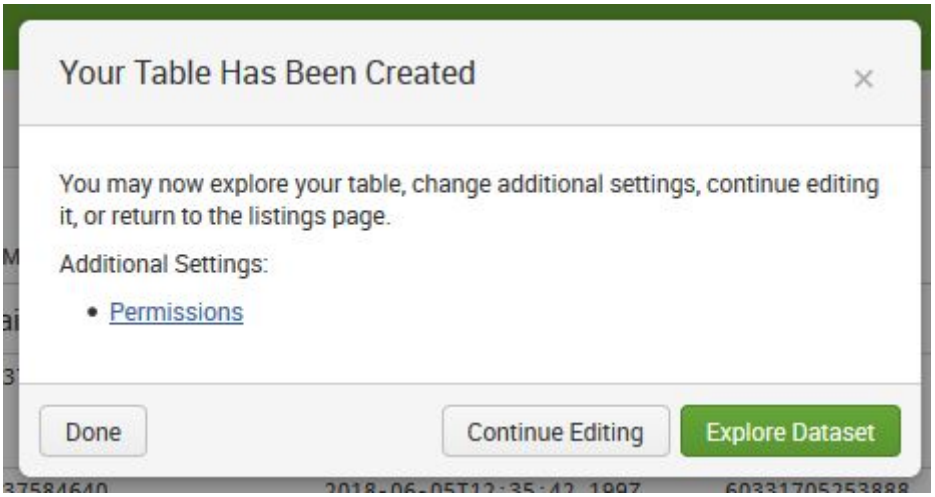
7. Click the ‘Save As’ button in the top right hand side



8. Enter the title and ID as defined in the table in the last section, and click ‘Save’



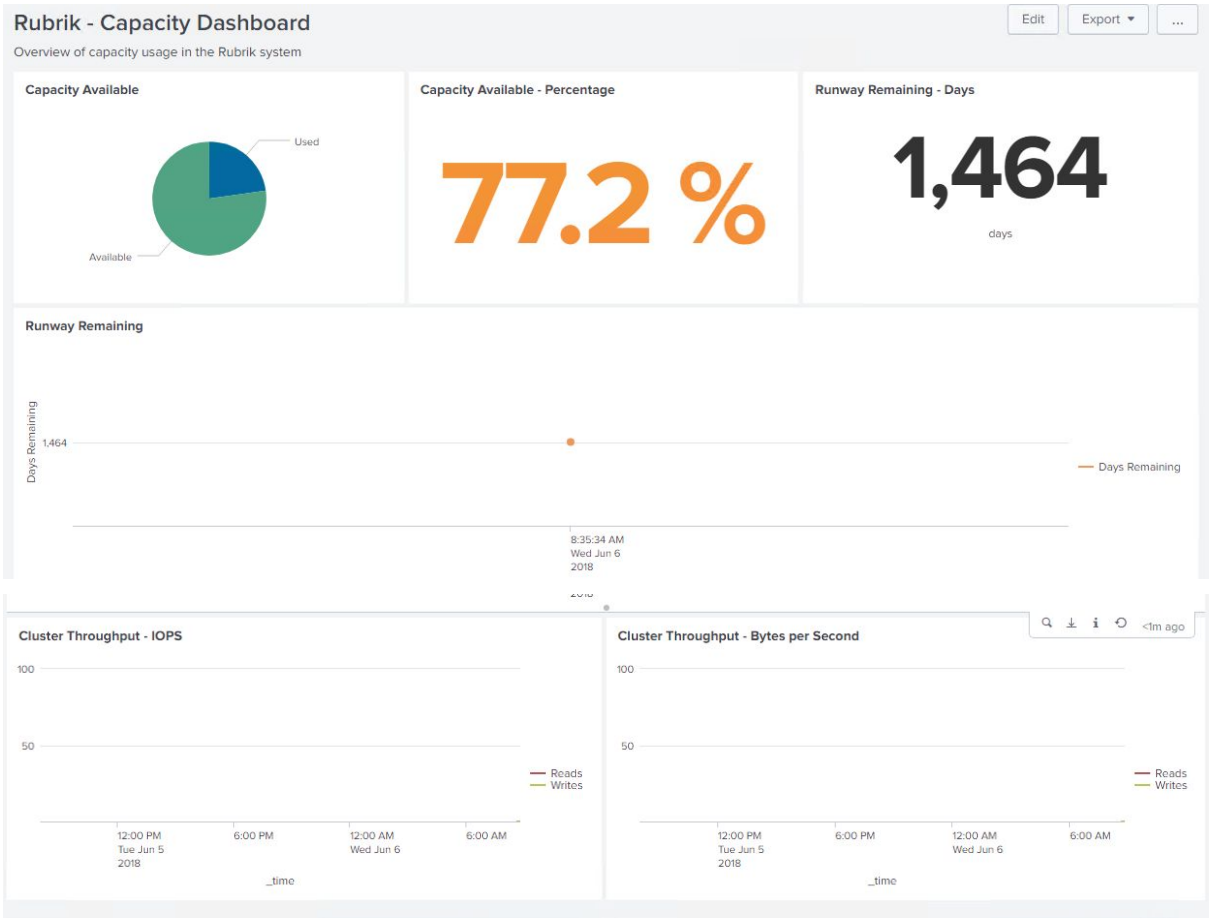
9. Click ‘Done’



Dashboards

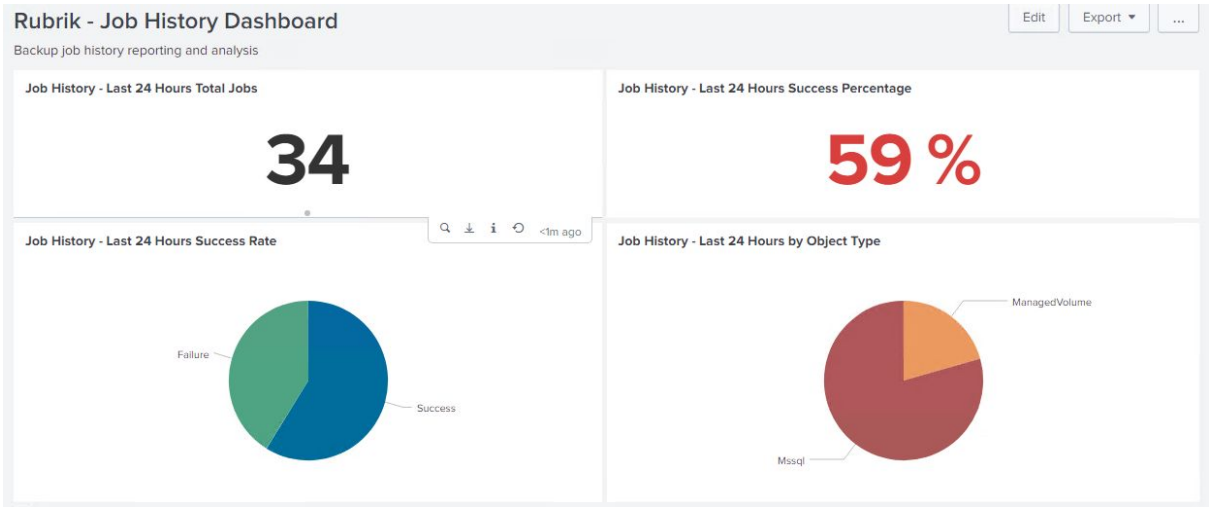
There are three dashboards which should now be populated in the Rubrik application, these are as follows:

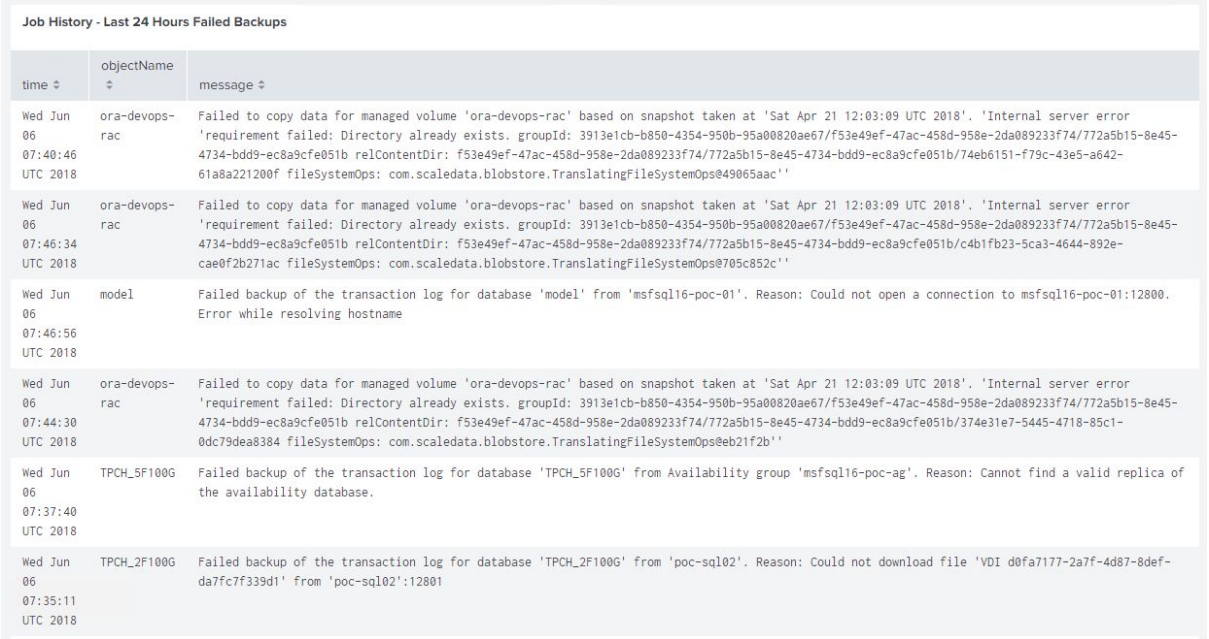
Capacity Dashboard



This dashboard shows capacity and throughput statistics for the cluster.

Job History Dashboard



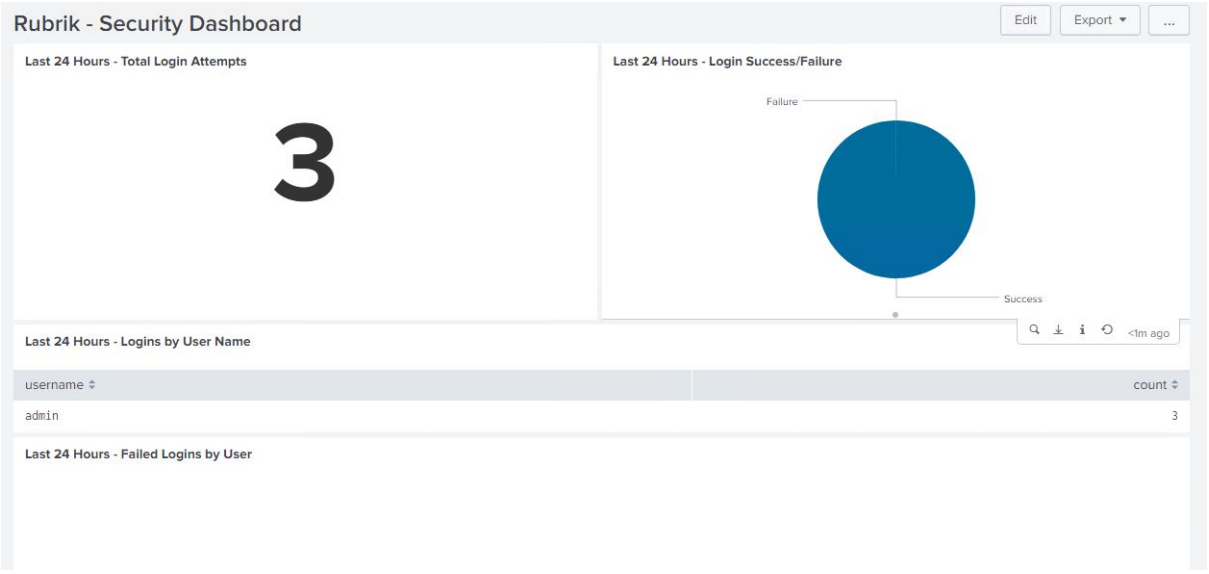


Job History - Last 24 Hours Failed Backups

time	objectName	message
Wed Jun 06 07:40:46 UTC 2018	ora-devops-rac	Failed to copy data for managed volume 'ora-devops-rac' based on snapshot taken at 'Sat Apr 21 12:03:09 UTC 2018'. 'Internal server error 'requirement failed: Directory already exists. groupId: 3913e1cb-b850-4354-950b-95a00820ae67/f53e49ef-47ac-458d-958e-2da089233f74/772a5b15-8e45-4734-bdd9-ec8a9cfe051b relContentDir: f53e49ef-47ac-458d-958e-2da089233f74/772a5b15-8e45-4734-bdd9-ec8a9cfe051b/74eb6151-f79c-43e5-a642-61a8a221200f fileSystemOps: com.scaledata.blobstore.TranslatingFileSystemOps@49065aac''
Wed Jun 06 07:46:34 UTC 2018	ora-devops-rac	Failed to copy data for managed volume 'ora-devops-rac' based on snapshot taken at 'Sat Apr 21 12:03:09 UTC 2018'. 'Internal server error 'requirement failed: Directory already exists. groupId: 3913e1cb-b850-4354-950b-95a00820ae67/f53e49ef-47ac-458d-958e-2da089233f74/772a5b15-8e45-4734-bdd9-ec8a9cfe051b relContentDir: f53e49ef-47ac-458d-958e-2da089233f74/772a5b15-8e45-4734-bdd9-ec8a9cfe051b/c4b1fb23-5ca3-4644-892e-cae0f2b271ac fileSystemOps: com.scaledata.blobstore.TranslatingFileSystemOps@705c852c''
Wed Jun 06 07:46:56 UTC 2018	model	Failed backup of the transaction log for database 'model' from 'msfsql16-poc-01'. Reason: Could not open a connection to msfsql16-poc-01:12800. Error while resolving hostname
Wed Jun 06 07:44:30 UTC 2018	ora-devops-rac	Failed to copy data for managed volume 'ora-devops-rac' based on snapshot taken at 'Sat Apr 21 12:03:09 UTC 2018'. 'Internal server error 'requirement failed: Directory already exists. groupId: 3913e1cb-b850-4354-950b-95a00820ae67/f53e49ef-47ac-458d-958e-2da089233f74/772a5b15-8e45-4734-bdd9-ec8a9cfe051b relContentDir: f53e49ef-47ac-458d-958e-2da089233f74/772a5b15-8e45-4734-bdd9-ec8a9cfe051b/374e31e7-5445-4718-85c1-0dc79dea8384 fileSystemOps: com.scaledata.blobstore.TranslatingFileSystemOps@eb21f2b''
Wed Jun 06 07:37:40 UTC 2018	TPCH_5F100G	Failed backup of the transaction log for database 'TPCH_5F100G' from Availability group 'msfsql16-poc-ag'. Reason: Cannot find a valid replica of the availability database.
Wed Jun 06 07:35:11 UTC 2018	TPCH_2F100G	Failed backup of the transaction log for database 'TPCH_2F100G' from 'poc-sql02'. Reason: Could not download file 'VDI d0fa7177-2a7f-4d87-8def-da7fc7f339d1' from 'poc-sql02':12801

This shows the last 24 hours of backup histories, breaking them down by succeeded and failed, and by object type, as well as showing failure logs for any missed backup jobs.

Security Dashboard



This dashboard shows the last 24 hours of login information, breaking down the top 10 logins by name and count, and the top 10 failed logins by name and count