

OMS version upgrade test

Test: To check if log analytics is working normally and the data is getting populated or not in the workspace as it should be. Overall checking if everything is working fine or not after upgrading the OMS version in spark and llap clusters.

Details of cluster used

A)

Cluster1: llaptestCluster2 (**interactivehive** type)

Log analytics workspace connected: llapanalytics2

B)

Cluster2: testSparkCluster (spark type)

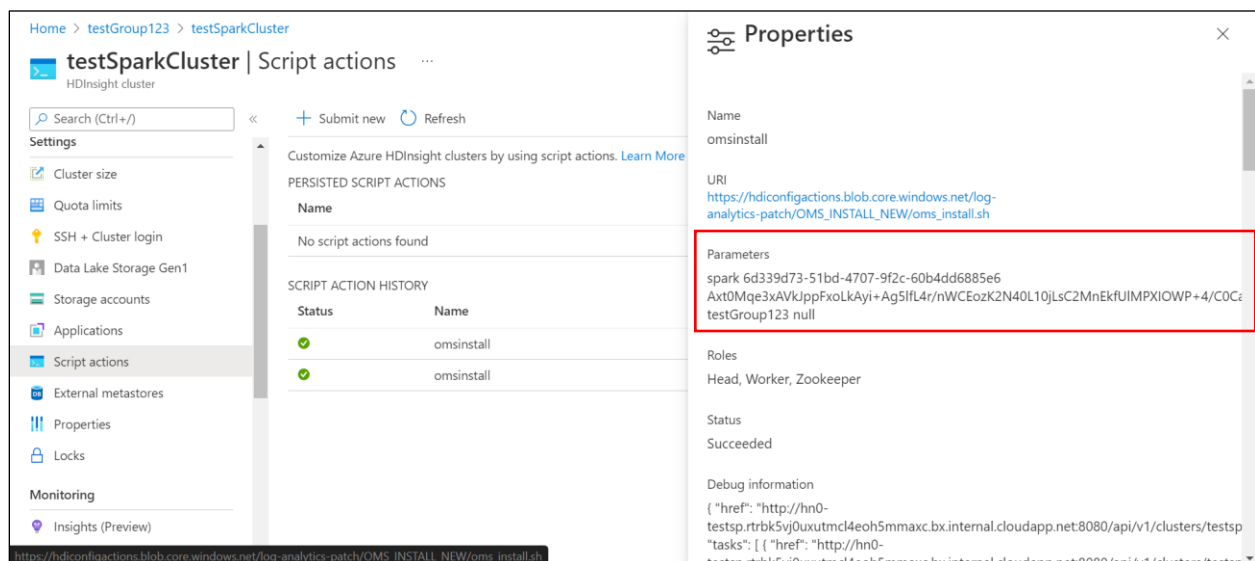
Log analytics workspace connected: sparkanalytics

Script which we are installing for upgrading the oms version:

https://hdiconfigactions.blob.core.windows.net/log-analytics-patch/OMS_INSTALL_NEW/oms_install.sh

Installing OMS script using Script Action in both the clusters (spark and llap)

A) Installed script with the name **omsinstall** at 6:30 PM local time in spark cluster.



The screenshot shows the Azure HDInsight portal interface for the 'testSparkCluster'. The left sidebar contains navigation options like 'Settings', 'Cluster size', 'Quota limits', 'SSH + Cluster login', 'Data Lake Storage Gen1', 'Storage accounts', 'Applications', 'Script actions' (selected), 'External metastores', 'Properties', 'Locks', and 'Monitoring'. The main area displays 'Script actions' for the cluster, with a search bar and buttons for 'Submit new' and 'Refresh'. Below this, there are sections for 'PERISTED SCRIPT ACTIONS' (showing 'omsinstall') and 'SCRIPT ACTION HISTORY' (showing a successful execution of 'omsinstall'). The right-hand 'Properties' pane provides details for the selected script action, including its name ('omsinstall'), URI, and parameters. The parameters section is highlighted with a red box and contains the following text:

```
spark 6d339d73-51bd-4707-9f2c-60b4dd6885e6
Axt0Mqe3xAVkppFxoLkAyi+Ag5lfl4r/nWCEozK2N40L10JLsC2MnEkUIMPXIOWP+4/COCz
testGroup123 null
```

Below the parameters, the 'Roles' section lists 'Head, Worker, Zookeeper', and the 'Status' is 'Succeeded'. The 'Debug information' section at the bottom shows a JSON object with 'href' and 'tasks' fields.

The workspace ID 6d339d73-51bd-4707-9f2c-60b4dd6885e6 is of **sparkanalytics**.

B) Installed script with the name **omsinstall** at 6:30 PM in the llap cluster

llaptestCluster2 | Script actions

Settings

- Cluster size
- Quota limits
- SSH + Cluster login
- Data Lake Storage Gen1
- Storage accounts
- Applications
- Script actions
- External metastores
- Properties
- Locks

Monitoring

- Insights (Preview)

Submit new Refresh

Customize Azure HDInsight clusters by using script actions. [Learn More](#)

PERSISTED SCRIPT ACTIONS

Name
No script actions found

SCRIPT ACTION HISTORY

Status	Name
✓	omsinstall
✗	omsAgentScript

Parameters

interactivehive 456f54cb-a456-4ea9-ab1f-707551d041f1
S2nQbfOxiK4YzeQTgeLV0ypvGwRN3hUec1ZQLtCo84uZeV1t9+43tDHY6PKbQleMzjUEOc
testGroup123 null

Roles

Head, Worker, Zookeeper

Status

Succeeded

Debug information

{ "href": "http://hn0-llapte.5ymsj3muf5cuxnp5edvocquhh.bx.internal.cloudapp.net:8080/api/v1/clusters/llapte/tasks"/ }

The workspace ID 456f54cb-a456-4ea9-ab1f-707551d041f1 is of **llapanalytics2** in the screenshot.

Checking data in the the log analytics workspace

A) Data in spark log analytics for spark workload.

Home > testGroup123 > sparkanalytics

sparkanalytics | Logs

New Query 1*

sparkanalytics Select scope Run Time range: Set in query Save Share New alert rule Export Pin to

Tables Queries Functions

Search Filter Group by: Solution Collapse all

Custom Logs

- application_stats_apps_CL
- log_ambari_audit_CL
- log_auth_CL
- log_hivemetastore_CL
- log_hiveserver2_CL
- log_jupyter_CL
- log_mrjobsummary_CL

Results Chart

TimeGenerated [Local Time] ↑↓	ClusterName_s	HostName_s	ClusterType_s	Type	ResourceId
> 6/2/2022, 10:57:26.632 AM	testsparkcluster	hn0-testsp	spark	application_stats_apps_CL	/subscriptions/ce657
> 6/2/2022, 10:57:26.632 AM	testsparkcluster	hn0-testsp	spark	application_stats_apps_CL	/subscriptions/ce657
> 6/2/2022, 10:57:10.375 AM	testsparkcluster	hn0-testsp	spark	application_stats_apps_CL	/subscriptions/ce657
> 6/2/2022, 10:57:10.375 AM	testsparkcluster	hn0-testsp	spark	application_stats_apps_CL	/subscriptions/ce657
> 6/2/2022, 10:57:02.242 AM	testsparkcluster	hn1-testsp	spark	application_stats_apps_CL	/subscriptions/ce657

We are getting tables and data getting populated in them as well for the spark cluster.

B) Data in llap log analytics for llap workload.

The screenshot displays the 'llapanalytics2 | Logs' interface. On the left, a sidebar lists 'Custom Logs' including 'application_stats_apps_CL', 'llap_metrics_buddy_allocator_...', 'llap_metrics_cache_CL', 'llap_metrics_deamon_jvm_CL', 'llap_metrics_executor_metrics...', 'llap_metrics_hiveserver2_CL', 'llap_metrics_hs2_metrics_sub...', and 'llap_metrics_io_CL'. The main area shows a query editor with the following SQL:

```
where TimeGenerated > ago(24h)
limit 10

application_stats_apps_CL
where TimeGenerated > ago(24h)
limit 10

llap_metrics_buddy_allocator_info_CL
where TimeGenerated > ago(24h)
limit 10
```

Below the query editor, the 'Results' tab is active, showing a table with the following data:

TimeGenerated [Local Time] ↑↓	name_s	modelerType_s	IsDirect_b	MinAlk
> 6/1/2022, 6:50:46.274 PM	Hadoop:service=LlapDaemon,n...	org.apache.hadoop.hive.llap.ca...	true	4,096
> 6/1/2022, 6:50:43.995 PM	Hadoop:service=LlapDaemon,n...	org.apache.hadoop.hive.llap.ca...	true	4,096
> 6/1/2022, 6:50:10.140 PM	Hadoop:service=LlapDaemon,n...	org.apache.hadoop.hive.llap.ca...	true	4,096
> 6/1/2022, 6:50:07.630 PM	Hadoop:service=LlapDaemon,n...	org.apache.hadoop.hive.llap.ca...	true	4,096
> 6/1/2022, 6:49:46.593 PM	Hadoop:service=LlapDaemon,n...	org.apache.hadoop.hive.llap.ca...	true	4,096

We are getting tables and data getting populated in them as well for the llap cluster.

Result: Hence both the clusters are generating data and they are populated in their respective tables as