

Module 4: Management with Ambari

Assignment Solution

edureka!

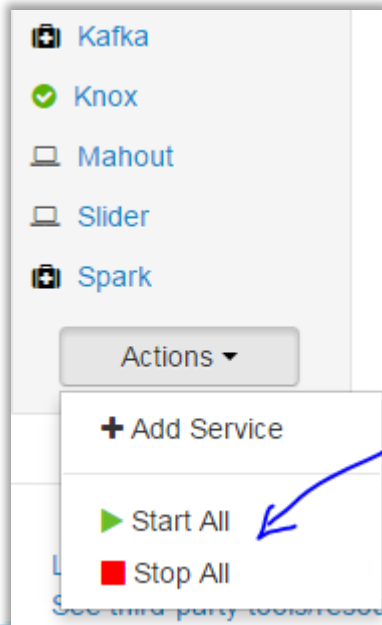
edureka!

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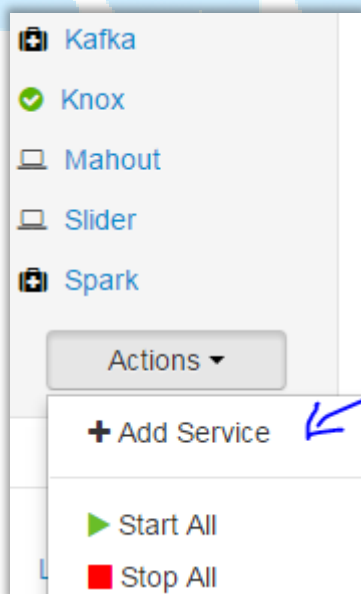
Module 4: Assignment Solution

Perform this Assignment on your Node for Ambari Management Task:

→ Start and Stop All services



→ Add Services



→ Remove Services

Identify Hosts for Service: `curl -s -u admin:admin -H "X-Requested-By: Ambari" -X GET http://localhost:8080/api/v1/clusters/LAB_CLUSTER/services/HBASE/components/HBASE_MASTER`

Stop Service & Components: `curl -s -u admin:admin -H "X-Requested-By: Ambari" -X PUT -d '{"RequestInfo":{"context":"Stop HBASE"},"Body":{"ServiceInfo":{"state":"INSTALLED"}}}' http://localhost:8080/api/v1/clusters/LAB_CLUSTER/services/HBASE`

Delete Service: `curl -s -u admin:admin -H "X-Requested-By: Ambari" -X DELETE http://localhost:8080/api/v1/clusters/LAB_CLUSTER/services/HBASE`

→ Add Hosts

The screenshot shows the Ambari interface with the 'Hosts' tab selected. The top navigation bar includes 'Dashboard', 'Services', 'Hosts', 'Alerts', and 'Admin'. The 'Hosts' tab is active, showing a table of hosts. The sidebar on the left has a menu with 'Add New Hosts' selected, and a list of 'Selected Hosts (0)', 'Filtered Hosts (1)', and 'All Hosts (1)'. The main table has columns for IP Address, Rack, Cores, RAM, Disk Usage, Load Avg, Versions, and Components. One host is listed with IP 192.168.23.134, Rack /default-rack, 2 Cores, 3.74GB RAM, and 42 Components.

IP Address	Rack	Cores	RAM	Disk Usage	Load Avg	Versions	Components
192.168.23.134	/default-rack	2 (2)	3.74GB		7.55	HDP-2.3.0.0-2557	42 Components

Add Host Wizard

ADD HOST WIZARD

- Install Options
- Confirm Hosts
- Assign Slaves and Clients
- Configurations
- Review
- Install, Start and Test
- Summary

Install Options

Enter the list of hosts to be included in the cluster and provide your SSH key.

Target Hosts

Enter a list of hosts using the Fully Qualified Domain Name (FQDN), one per line. Or use [Pattern Expressions](#)

host names

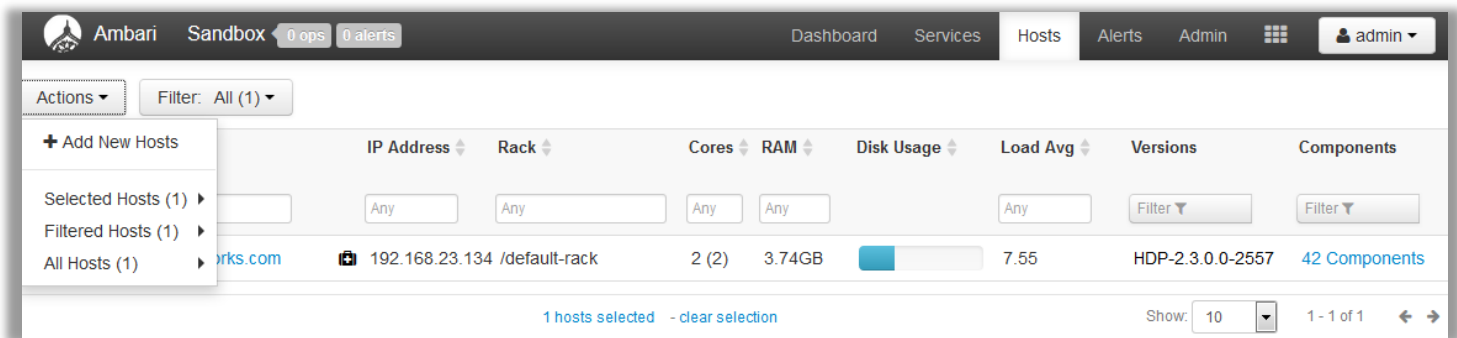
Host Registration Information

☒ Provide your [SSH Private Key](#) to automatically register hosts

No file selected.

ssh private key

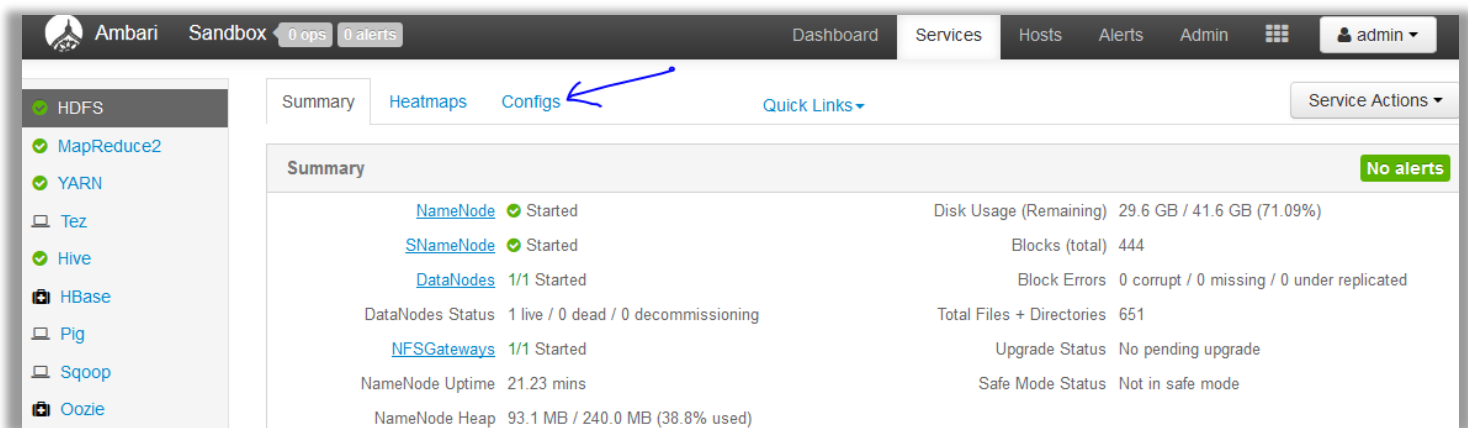
→ Remove Hosts



The screenshot shows the Ambari interface with the 'Hosts' tab selected. A dropdown menu is open under the 'Actions' button, showing options: '+ Add New Hosts', 'Selected Hosts (1)', 'Filtered Hosts (1)', and 'All Hosts (1)'. The main table lists host details for '192.168.23.134 / default-rack'. The table columns are: IP Address, Rack, Cores, RAM, Disk Usage, Load Avg, Versions, and Components. The bottom of the table shows '1 hosts selected' and a 'clear selection' link.

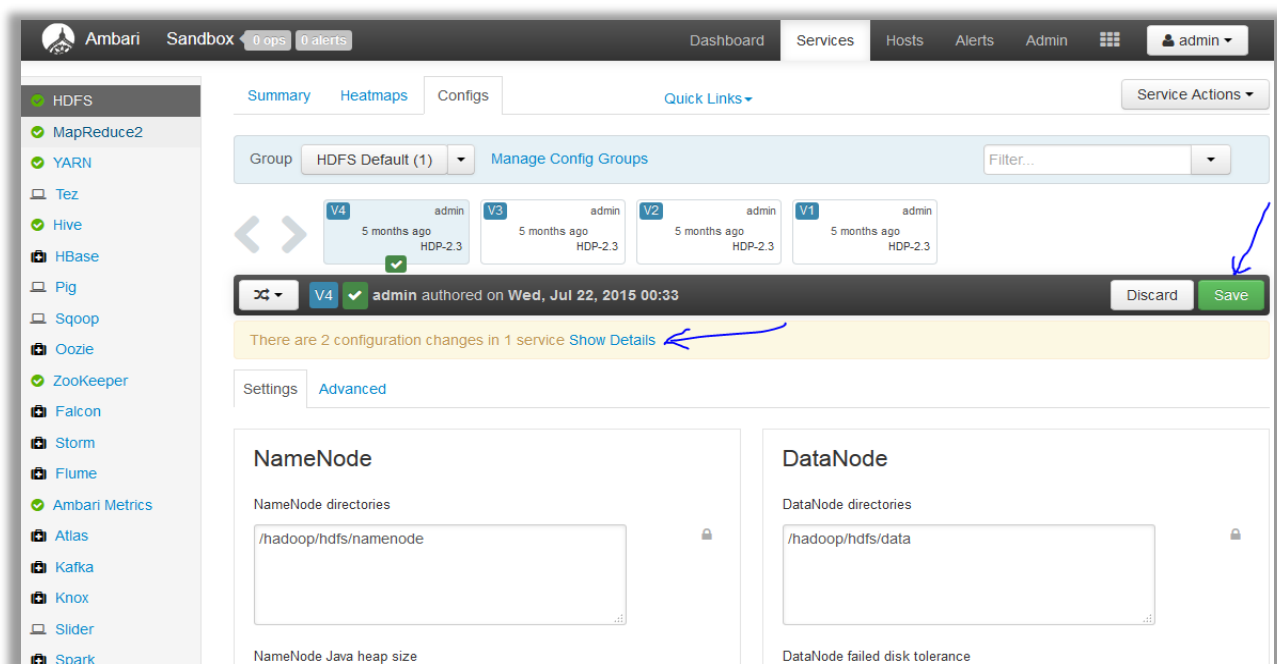
Selected Host -> Datanode -> Decommission

→ Modify Configurations



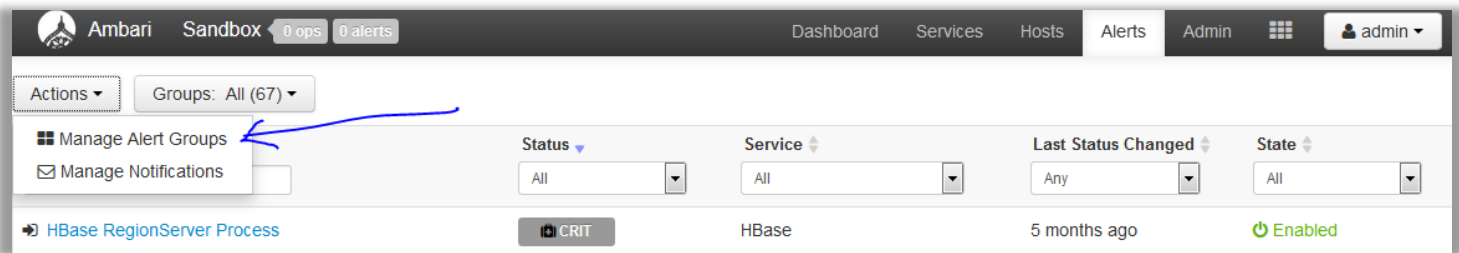
The screenshot shows the Ambari interface with the 'Services' tab selected. The 'Configs' link is highlighted with a blue arrow. The 'Summary' section shows the status of various services: NameNode (Started), SNameNode (Started), DataNodes (1/1 Started), NFSGateways (1/1 Started), NameNode Uptime (21.23 mins), and NameNode Heap (93.1 MB / 240.0 MB (38.8% used)). The right side shows disk usage and other metrics.

→ Change and Update in settings



The screenshot shows the Ambari interface with the 'Configs' tab selected. The 'Manage Config Groups' section shows a list of config groups. A blue arrow points to the 'Save' button. Below the config groups, there is a message: 'There are 2 configuration changes in 1 service Show Details'. The 'Settings' section shows the 'Advanced' settings for NameNode and DataNode, including directories and Java heap size.

→ Add / Remove Alerts



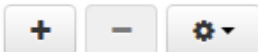
The screenshot shows the Ambari Alerts Management interface. At the top, there's a navigation bar with 'Ambari', 'Sandbox', '0 ops', '0 alerts', and tabs for 'Dashboard', 'Services', 'Hosts', 'Alerts', and 'Admin'. The 'Alerts' tab is active. Below the navigation bar, there's a section with 'Actions' and 'Groups: All (67)'. A blue arrow points to the 'Manage Alert Groups' link. Below this, there are filters for 'Status' (All), 'Service' (All), 'Last Status Changed' (Any), and 'State' (All). A table below shows a single alert group: 'HBase RegionServer Process' with status 'CRIT', service 'HBase', last status changed '5 months ago', and state 'Enabled'.

Manage Alert Groups

You can manage alert groups for each service in this dialog. View the list of alert groups and the alert definitions configured in them. You can also add/remove alert definitions, and pick notification for that alert group.

AMBARI Default (3)
AMBARI_METRICS Default (6)
ATLAS Default (2)
FALCON Default (2)
FLUME Default (1)
HBASE Default (5)
HDFS Default (19)
HIVE Default (3)
KAFKA Default (1)
KNOX Default (1)
MAPREDUCE2 Default (4)
OOZIE Default (2)
PIG Default (0)
SLIDER Default (0)
SPARK Default (4)

Ambari Agent Disk Usage
Ambari Agent Heartbeat
Ambari Server Alerts



☒ Notifications

Add

Cancel

Save

→ Add and Remove Monitoring widgets - Hover to any metric and you will see a cross in left corner just click on that

