

Investigate RAID

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<https://github.com/RackHD/smi-service-dell-server-configuration-profile>

Set up this smi service

`sudo docker run -p 0.0.0.0:46018:46018 --privileged --name dell-server-configuration-profile -d rackhd/dell-server-configuration-profile:latest`

Get RAID - wsman	
Service Required	smi-service-dell-server-configuration-profile
API	/api/1.0/server/configuration/getComponents
Command	<pre>curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ "componentNames": [\ "RAID.Slot.1-1" \], \ "fileName": "getVolume.xml", \ "serverIP": "192.168.188.13", \ "serverPassword": "admin", \ "serverUsername": "admin", \ "shareAddress": "10.62.59.233", \ "shareName": "emc", \ "sharePassword": "admin", \ "shareType": 2, \ "shareUsername": "admin", \ "shutdownType": 0 \ }' 'http://192.168.128.10:46018/api/1.0/server/configuration/getComponents'</pre>
Data	getVolume.xml

update RAID - wsman	
Service Required	smi-service-dell-server-configuration-profile
API	/api/1.0/server/configuration/import
Command	<pre>curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ "componentNames": [\ "RAID.Slot.1-1" \], \ "fileName": "updateVolume.xml", \ "serverIP": "192.168.188.23", \ "serverPassword": "admin", \ "serverUsername": "admin", \ "shareAddress": "10.62.59.233", \ "shareName": "emc", \ "sharePassword": "admin", \ "shareType": 2, \ "shareUsername": "admin", \ "shutdownType": 0 \ }' 'http://192.168.128.10:46018/api/1.0/server/configuration/import'</pre>
Data	updateData.xml (from getVolume.xml with some attributes changed)

Delete RAID - wsman	
Service Required	smi-service-dell-server-configuration-profile
API	/api/1.0/server/configuration/import
Command	<pre>curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ "componentNames": [\ "RAID.Slot.1-1" \], \ "fileName": "getVolume.xml", \ "serverIP": "192.168.188.13", \ "serverPassword": "admin", \ "serverUsername": "admin", \ "shareAddress": "10.62.59.233", \ "shareName": "emc", \ "sharePassword": "admin", \ "shareType": 2, \ "shareUsername": "admin", \ "shutdownType": 0 \ }' 'http://192.168.128.10:46018/api/1.0/server/configuration/getComponents'</pre>
Data	deleteVolume.xml (From getVolume.xml with RAIDAction set as 'Delete')

Add RAID - wsman	
Service Required	smi-service-dell-server-configuration-profile
API	/api/1.0/server/configuration/import
Command	<pre>curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ "componentNames": [\ "RAID.Slot.1-1" \], \ "fileName": "addVolume.xml", \ "serverIP": "192.168.188.13", \ "serverPassword": "admin", \ "serverUsername": "admin", \ "shareAddress": "10.62.59.233", \ "shareName": "emc", \ "sharePassword": "admin", \ "shareType": 2, \ "shareUsername": "admin", \ "shutdownType": 0 \ }' 'http://192.168.128.10:46018/api/1.0/server/configuration/import'</pre>
Data	addVolume.xml (From getVolume.xml with RAIDAction set as 'Create')

Delete RAID - racadm	
Graph	/on-taskgraph/lib/graphs/delete-volume-graph.js (Graph.Delete.Volume)
Task	Task 1: on-tasks/lib/task-data/tasks/delete-volume.js Task 2: Task.Dell.Wsman.GetInventory
Base-task	on-tasks/lib/task-data/base-tasks/delete-volumes.js
Job	on-tasks/lib/jobs/delete-volume.js
Utils	on-tasks/lib/utlis/job-utlis/racadm-tool.js

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{
  "name": "Graph.Delete.Volume",
  "options": {
    "defaults": {
      "username": "admin",
      "password": "admin",
      "volumeId": "Disk.Virtual.0:RAID.Slot.1-1", (from hardware.json)
      "ipAddress": "192.168.188.13"
    }
  }
}' 'http://192.168.128.10:8080/api/2.0/nodes/59db1dc1423ad2cc0650f8bc/workflows'
```

Add RAID - racadm	
Graph	/on-taskgraph/lib/graphs/add-volume-graph.js (Graph.Add.Volume)
Task	Task 1: on-tasks/lib/task-data/tasks/add-volume.js Task 2: Task.Dell.Wsman.GetInventory
Base-task	on-tasks/lib/task-data/base-tasks/add-volume.js
Job	on-tasks/lib/jobs/add-volume.js
utils	on-tasks/lib/utlis/job-utlis/racadm-tool.js
data	hardware.json (from mongodb ; catalogs, sources: "hardware")
Command	<pre>curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ "name": "Graph.Add.Volume", "options": { "defaults": { "username": "admin", "password": "admin", "drives": "Disk.Bay.0:Enclosure.Internal.0-0:RAID.Slot.1-1,Disk.Bay.1:Enclosure.Internal.0-0:RAID.Slot.1-1", "raidLevel": "r0", "name": "testRAID", "sizeInBytes": 1, (unit: g, size: >=100MB) "ipAddress": "192.168.188.13" } } }'</pre>

	<pre>"shareType": 2, \ "shareUsername": "admin", \ "shutdownType": 0 \ }' 'http://192.168.128.10:46018/api/1.0/server/configuration/import'</pre>
Data	addVolume.xml (From getVolume.xml with RAIDaction set as 'Create')

```
"raidLevel": "R0",
"name": "testRAID",
"sizeInBytes": 1, (unit: g, size: >=100MB)
"ipAddress": "192.168.188.13"
}
}' 'http://192.168.128.10:8080/api/2.0/nodes/59db1dc1423ad2cc0650f8bc/workflows'
```

Add Hostspare - wsman	
Service Required	smi-service-dell-server-configuration-profile
API	/api/1.0/server/configuration/import
Command	<pre>curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \ "componentNames": [\ "RAID.Slot.1-1" \], \ "fileName": "addHotspare.xml", \ "serverIP": "192.168.188.13", \ "serverPassword": "admin", \ "serverUsername": "admin", \ "shareAddress": "10.62.59.233", \ "shareName": "emc", \ "sharePassword": "admin", \ "shareType": 2, \ "shareUsername": "admin", \ "shutdownType": 0 \ }' 'http://192.168.128.10:46018/api/1.0/server/configuration/import'</pre>
Data	addHotspare.xml (From getVolume.xml with attributes changed)

Add Hostspare - racadm	
Graph	/on-taskgraph/lib/graphs/add-hotspare-graph.js (Graph.Add.Hotspare)
Task	Task 1: on-tasks/lib/task-data/tasks/add-hotspare.js Task 2: Task.Dell.Wsman.GetInventory
Base-task	on-tasks/lib/task-data/base-tasks/add-hotspare.js
Job	on-tasks/lib/jobs/add-hotspare.js
utils	on-tasks/lib/utils/job-utils/racadm-tool.js

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{
  "name": "Graph.Add.Hotspare",
  "options": {
    "defaults": {
      "username": "admin",
      "password": "admin",
      "volumeld": "Disk.Virtual.0:RAID.Slot.1-1",
      "driveld": "Disk.Bay.2:Enclosure.Internal.0-0:RAID.Slot.1-1",
      "hotspareType": "ghs",
      "ipAddress": "192.168.188.13"
    }
  }
}' 'http://192.168.128.10:8080/api/2.0/nodes/59db1dc1423ad2cc0650f8bc/workflows'
```