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Steve's Notes

UM Cluster in 188-R-010

Athena | VP1 | DQ2 | Wire Sag | UM Cluster

Introduction

These are a few notes on how to login and check the status of the UM Cluster in 188-R-010.

Login to the Cluster

1. Connect to the machine (afs login):

```
> ssh -Y atums3.cern.ch
```

Using omreport

General syntax: `omreport`

1. Retrieve system summary:

```
> omreport system summary
```

2. Retrieve log file of system alerts:

```
> omreport system alertlog
```

3. Retrieve log file of ESM messages:

```
> omreport system esmlog
```

4. Retrieve status of storage controller:

```
> omreport storage controller
```

5. Example specific query for a fan problem

```
> omreport storage enclosure controller=0 enclosure=0:0 info=fans
```

Controller can have values 0, 1, 2. Enclosure can have values 0:0 or 1:0.

Retrieving Maintenance Information

Here is how to view status and retrieve the Service Tags for a maintenance call.

1. Backplane:

```
> omreport storage enclosure controller=0
Enclosure(s) on Controller PERC 6/i Integrated (Embedded)
ID                  : 0:0
Status              : Ok
Name                 : Backplane
State                : Ready
```

```
Connector          : 0
Target ID          : Not Applicable
Configuration      : Not Applicable
Firmware Version   : 1.05
Service Tag        : 8B700YF
Asset Tag          : Not Applicable
Asset Name         : Not Applicable
Backplane Part Number : Not Applicable
Split Bus Part Number : Not Applicable
Enclosure Part Number : Not Applicable
SAS Address        : 500220908119C700
Enclosure Alarm    : Not Applicable
```

2. MD1000 Storage Vault (Note the "Degraded" state, due to a bad fan):

```
> omreport storage enclosure controller=1 enclosure=0:0
Details of Enclosure MD1000 on Controller PERC 6/E Adapter (Slot 3)

Enclosure(s) on Controller PERC 6/E Adapter (Slot 3)
ID              : 0:0
Status          : Non-Critical
Name            : MD1000
State           : Degraded
Connector       : 0
Target ID       : Not Applicable
Configuration    : Unified
Firmware Version : A.04
Service Tag     : 3C3Y34J
Asset Tag       :
Asset Name      : MD1000
Backplane Part Number : 0JH544A04
Split Bus Part Number : Not Applicable
Enclosure Part Number : Not Applicable
SAS Address     : 50022192A3F6D20C
Enclosure Alarm : Disabled
```

3. MD1000 Storage Vault (also "Degraded", due to bad fan):

```
> omreport storage enclosure controller=1 enclosure=1:0
Details of Enclosure MD1000 on Controller PERC 6/E Adapter (Slot 3)

Enclosure(s) on Controller PERC 6/E Adapter (Slot 3)
ID              : 1:0
Status          : Non-Critical
Name            : MD1000
State           : Degraded
Connector       : 1
Target ID       : Not Applicable
Configuration    : Unified
Firmware Version : A.04
Service Tag     : 4C3Y34J
Asset Tag       :
Asset Name      : MD1000
Backplane Part Number : 0JH544A04
Split Bus Part Number : Not Applicable
Enclosure Part Number : Not Applicable
SAS Address     : 50022192A3D8590C
Enclosure Alarm : Disabled
```

4. MD1000 Storage Vault (Ready):

```
> omreport storage enclosure controller=2 enclosure=0:0
Details of Enclosure MD1000 on Controller PERC 6/E Adapter (Slot 2)

Enclosure(s) on Controller PERC 6/E Adapter (Slot 2)
ID              : 0:0
```

```
Status           : Ok
Name             : MD1000
State            : Ready
Connector        : 0
Target ID        : Not Applicable
Configuration     : Unified
Firmware Version : A.04
Service Tag      : 6HLY34J
Asset Tag        :
Asset Name       : MD1000
Backplane Part Number : 0JH544A04
Split Bus Part Number : Not Applicable
Enclosure Part Number : Not Applicable
SAS Address      : 50022192A3EEEE0C
Enclosure Alarm   : Disabled
```

5. MD1000 Storage Vault (Ready):

```
> omreport storage enclosure controller=2 enclosure=1:0
Details of Enclosure MD1000 on Controller PERC 6/E Adapter (Slot 2)
```

```
Enclosure(s) on Controller PERC 6/E Adapter (Slot 2)
```

```
ID              : 1:0
Status          : Ok
Name            : MD1000
State           : Ready
Connector       : 1
Target ID       : Not Applicable
Configuration    : Unified
Firmware Version : A.04
Service Tag     : 5HLY34J
Asset Tag       :
Asset Name      : MD1000
Backplane Part Number : 0JH544A04
Split Bus Part Number : Not Applicable
Enclosure Part Number : Not Applicable
SAS Address     : 50022192A3F1200C
Enclosure Alarm  : Disabled
```

6. Specific check of fan status for "Degraded" MD1000:

```
> omreport storage enclosure controller=1 enclosure=0:0 info=fans
List of Fans in Enclosure 0
```

```
ID      : 1
Status   : Critical
Name     : Fan 1
State    : Failed
Part Number :
Speed    : Fast

ID      : 2
Status   : Ok
Name     : Fan 2
State    : Ready
Part Number : 0MX838A01
Speed    : Fast

ID      : 3
Status   : Ok
Name     : Fan 3
State    : Ready
Part Number : 0MX838A01
Speed    : Fast

ID      : 4
```

```
Status      : Ok
Name        : Fan 4
State       : Ready
Part Number : 0MX838A01
Speed       : Fast
```

Web Interface

1. The URL: <https://atums3.cern.ch:1311>
2. Login as root.

Creating a log with omconfig

1. Open a su bash shell:

```
sudo /bin/bash
```

2. Create the log file:

```
omconfig storage controller controller=1 action=exportlog
```

3. Look for the log file:

```
ls -l /var/log/lsi_*.log
```

Creating a report with dset

1. Open a su bash shell:

```
sudo /bin/bash
```

2. Create the log file:

```
cd /root
./delldset_v1.8.0.130.bin
```

3. The file appears in the user's home directory.

References

Dell Switzerland	
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Sales Person	Ibtissam Jaafari

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