



# Cheetah RAID

S T O R A G E

# **USER MANUAL**

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# Chapter 1

## Login

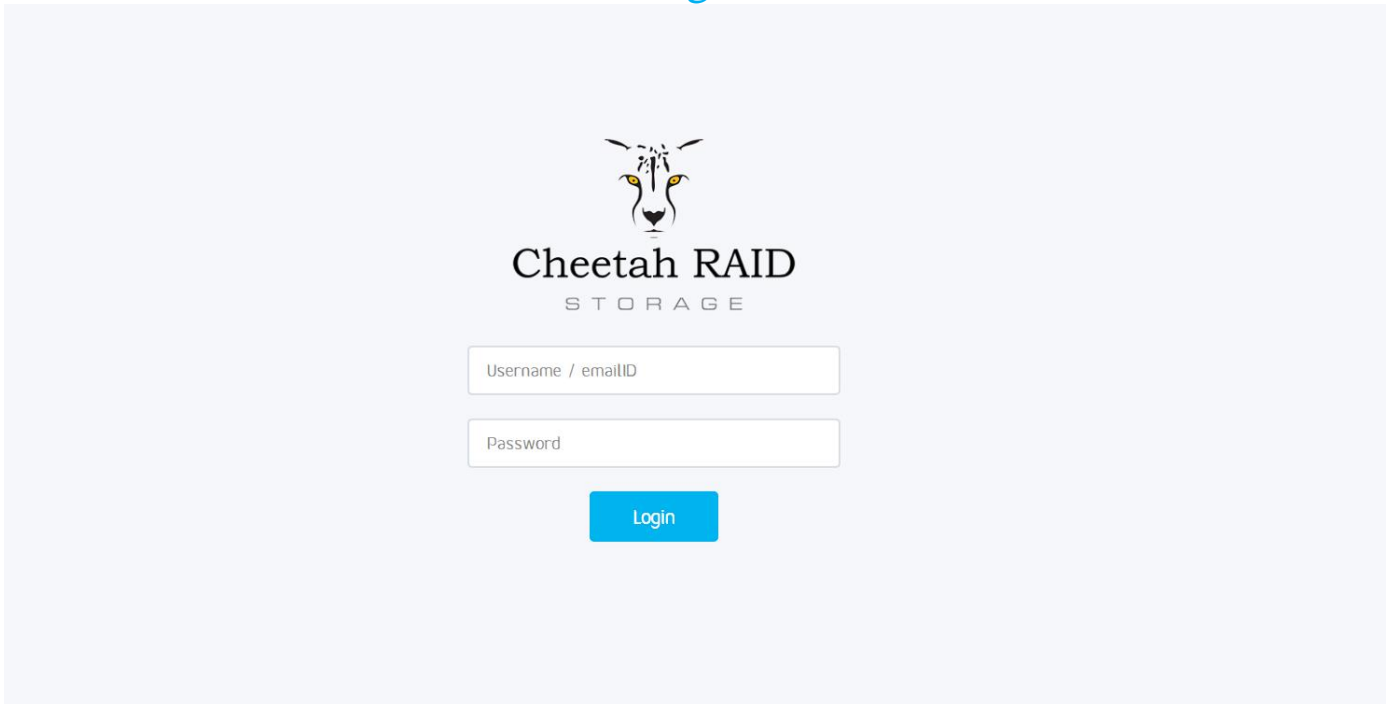
The image shows a login page for 'Cheetah RAID STORAGE'. At the top center is a logo featuring a stylized cheetah's face. Below the logo, the text 'Cheetah RAID' is displayed in a large, bold, serif font, with 'STORAGE' in a smaller, all-caps, sans-serif font underneath. There are two input fields: the first is labeled 'Username / emailID' and the second is labeled 'Password'. Below these fields is a blue rectangular button with the word 'Login' in white text.

Figure 0-1: Login Page

Enter your username or email and password in the space provided to login into the application.

On entering the wrong password, the following error is shown:

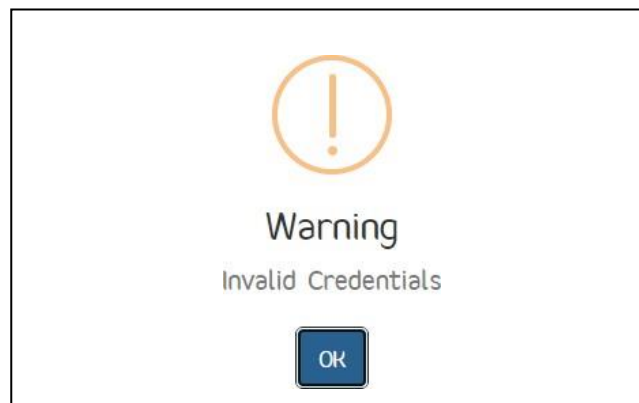
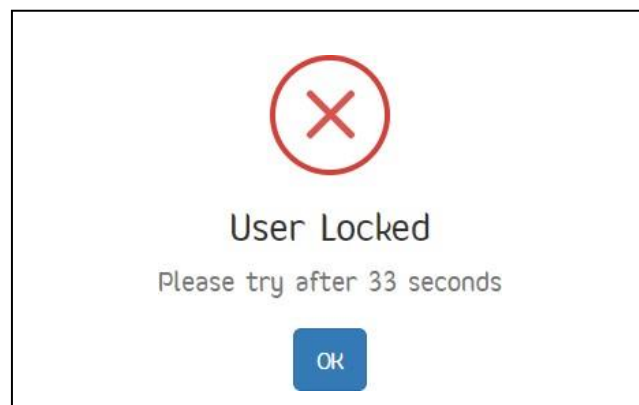


Figure 0-2: Invalid Credential Warning

And after repeated wrong password input, the following alert popup is shown:



**Figure 0-3: User Locked Error**



## Chapter 2

### Landing Page

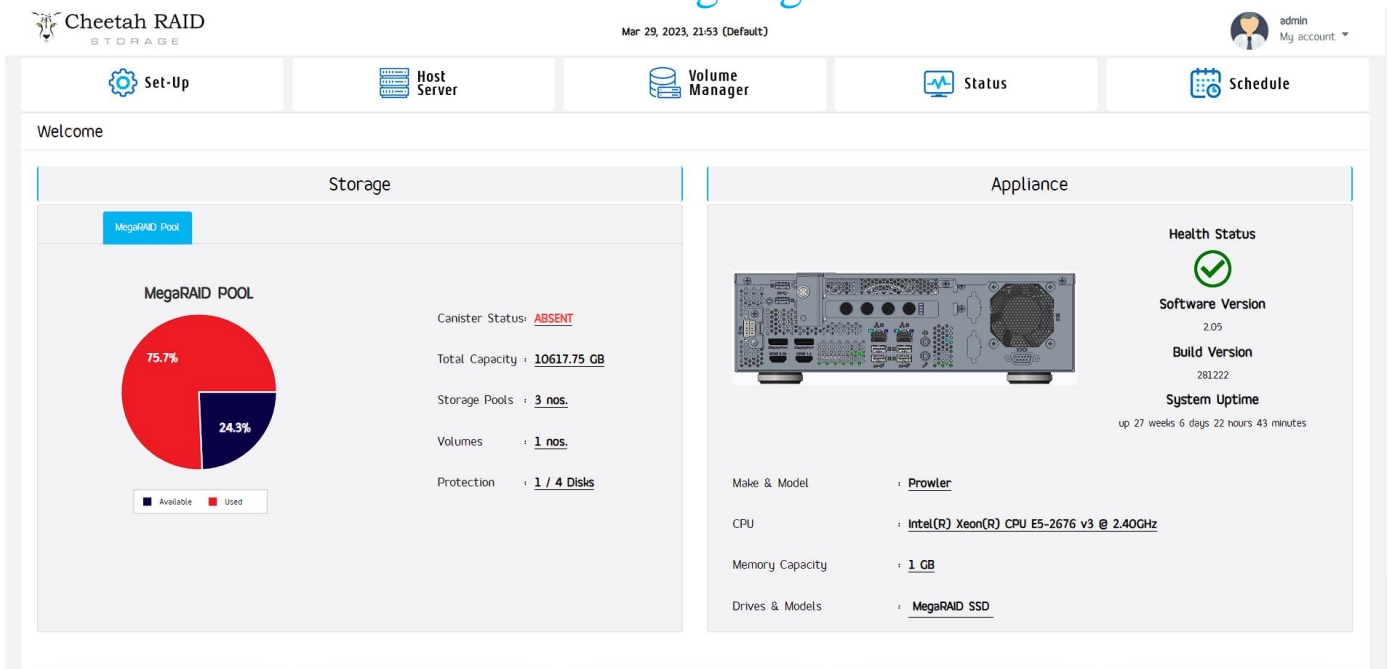


Figure 2 1: Landing Page

### 2.1 Menu Bar



Figure 2 2: Menu Bar

The page contains 5 menu icons which allows you to navigate to different page sections. The 5-page sections are:

- Setup
- Host Server
- Volume Manager
- Status
- Schedule

## 2.2 Storage Widget

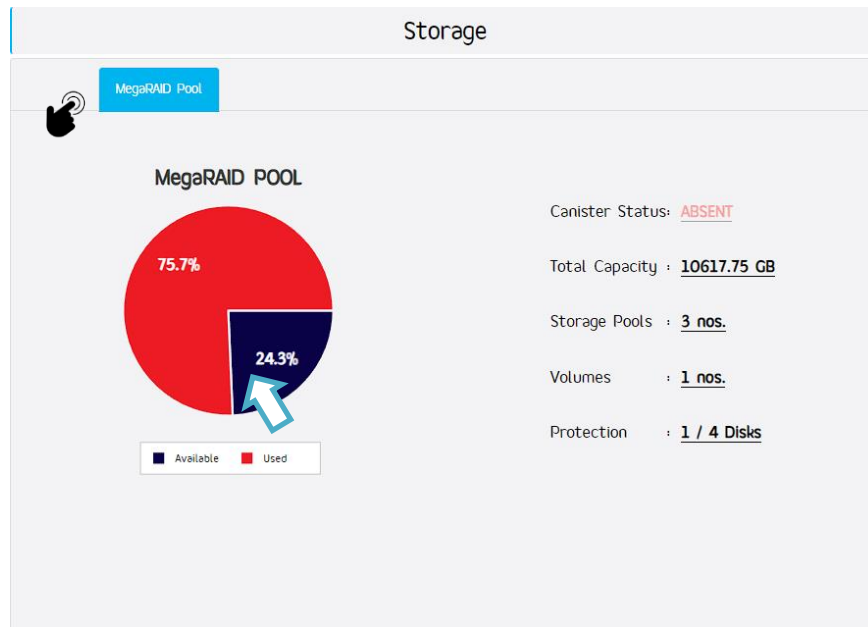


Figure 2 3: Storage Widget

This widget provides brief information on the storage pools. Details like total capacity of Disk, Status of the Canister if it's Native / Foreign / Absent, Number of pools, Number of volumes associated with pools and protected pools are shown in here. Also, a chart representing the usage of the available and used capacity is shown.

**On-click: Takes you to storage pool setup page**

## 2.3 SaaS Appliance

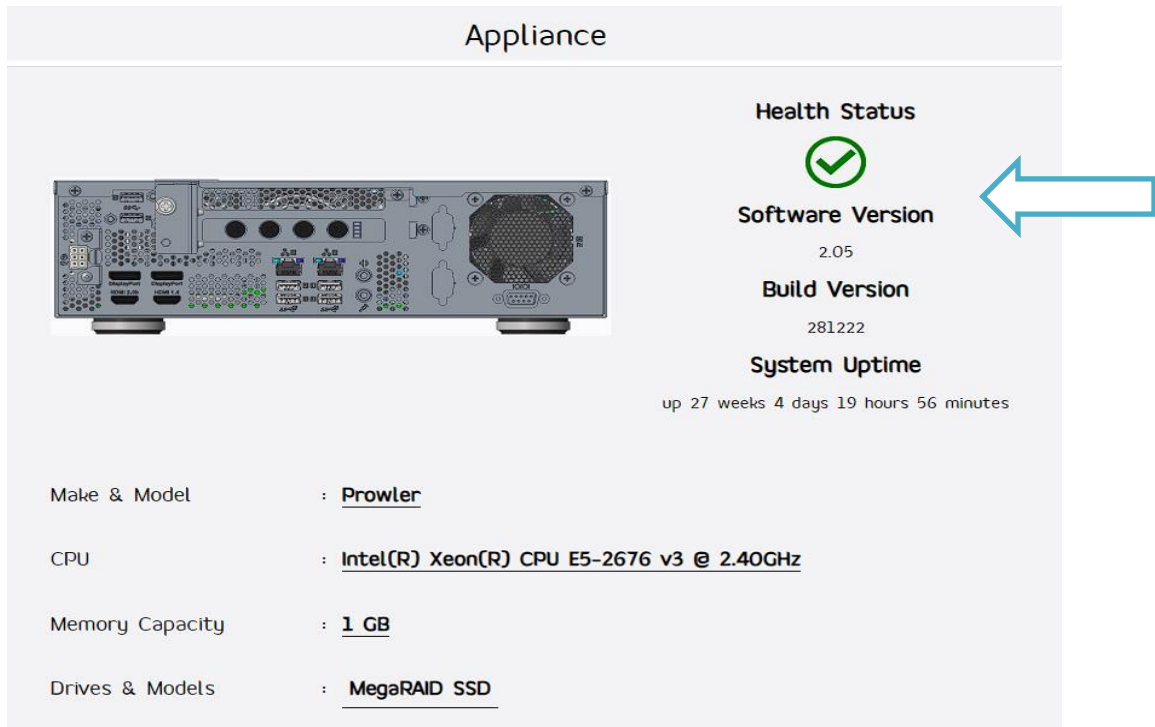


Figure 2 4: SAAS Appliance

The following are the icons that will be shown for the server status:



**OK**



**Warning**



**Alert**

**Onclick: Takes you to the status page.**

This section provides information on the status of the SaaS Appliance. The health status icon displayed here shows the status of the appliance. Also, other server information like make & model, CPU details, memory capacity and drives are shown. Along with that, when you hover over the drive mode, you get to see the drive details as shown below:

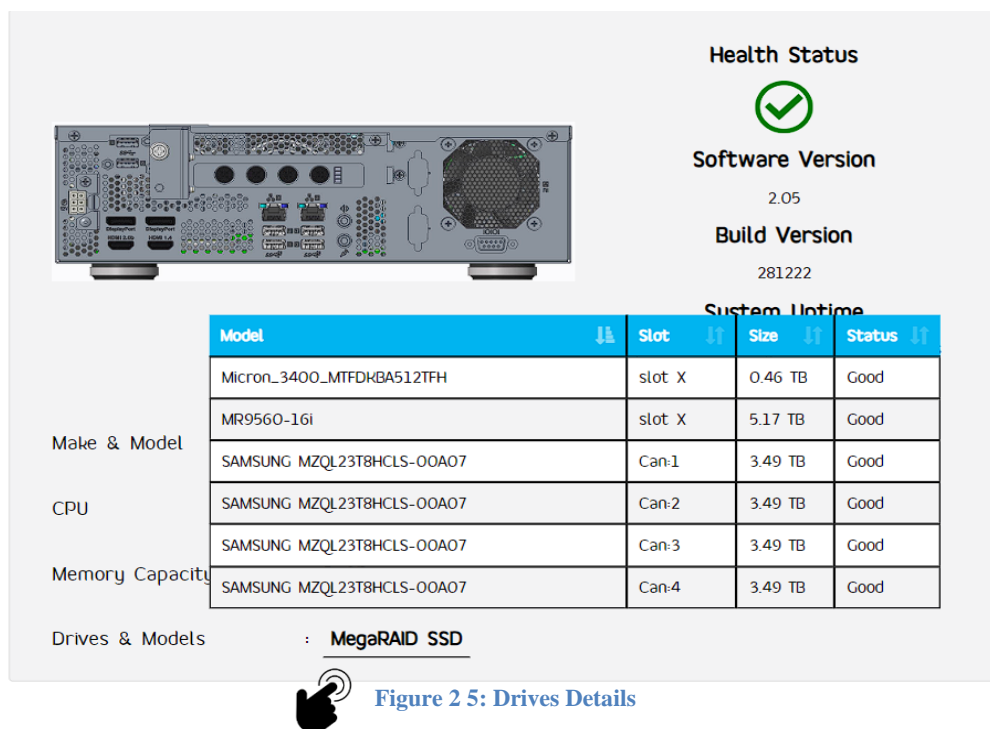


Figure 2 5: Drives Details

## 2.4 Stats

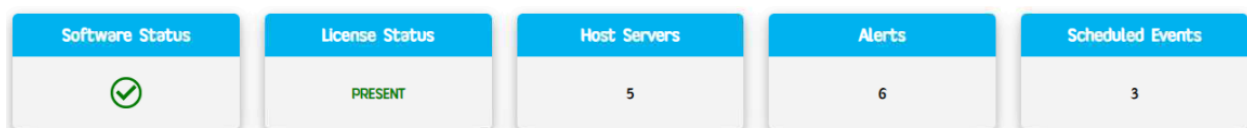


Figure 2 6: Stats

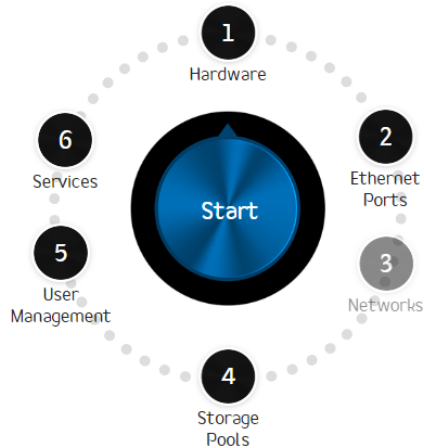
The stats section displays the status of various resources as seen above.

**On-click: Takes you the respective resources' details page.**

## Chapter 3

### Set-Up

SetUp Wizard - To Begin Configuration Select Start Button



Setup - Hardware

Hardware Admin

Upload Prowler License

Upload Certificate

Upload Prowler OS Package

Hardware Threshold Events

Temperature	Fans	Network	Storage
<input type="text" value="Select One"/>	<input type="text" value="Select One"/>	<input type="text" value="Select One"/>	<input type="text" value="Select One"/>

Figure 3 1: Set-Up Page

Used for setting up hardware components, ethernet ports, networks, storage pools, organizations and services.

To start the set-up section to activate we need to initially click on the start button:

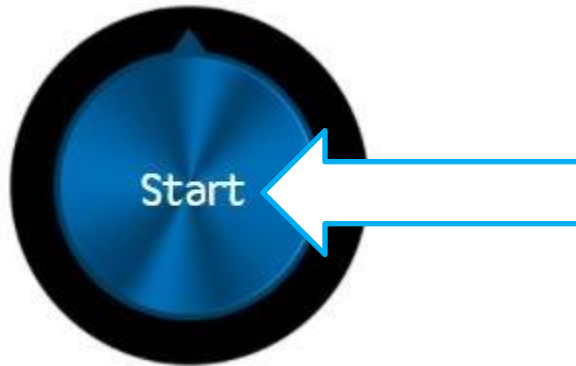


Figure 3 2: Start Dial

The set-up page consists of 6 different sections as seen around the dial:

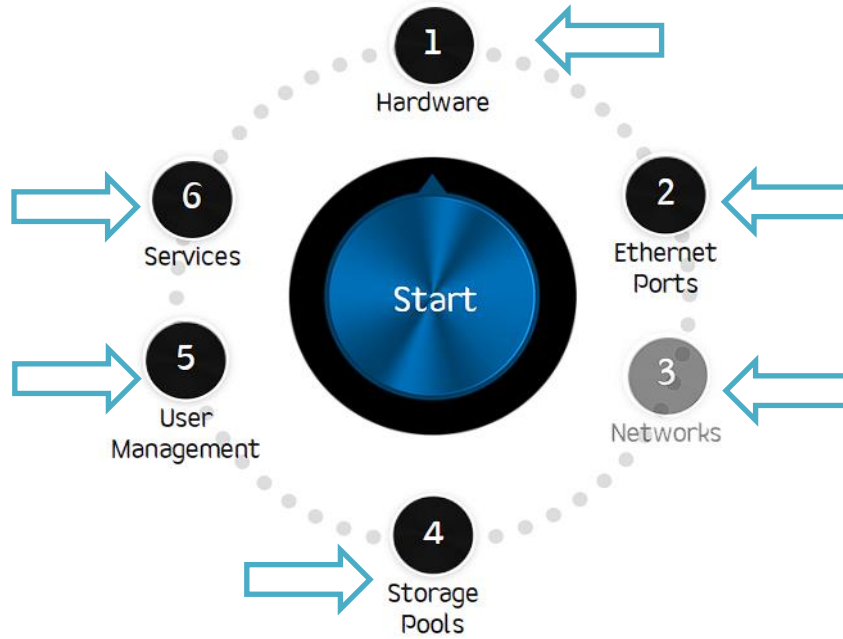


Figure 3 3: Set-Up Sections

### 3.1 Hardware

#### 3.1.1 Hardware Admin - In this section there are 3 tabs:

- Upload Prowler License
- Upload Certificate
- Upload Prowler OS Package

##### Upload Prowler License

SetUp Wizard - To Begin Configuration Select Start Button

The screenshot displays the 'Setup - Hardware' configuration page. On the left is a navigation dial with sections 1 through 6. The main content area is titled 'Setup - Hardware' and contains a 'Hardware Admin' section with three tabs: 'Upload Prowler License', 'Upload Certificate', and 'Upload Prowler OS Package'. The 'Upload Prowler License' tab is active, showing an 'Upload' button. Below this is a 'Hardware Threshold Events' section with four sub-sections: 'Temperature', 'Fans', 'Network', and 'Storage', each with a 'Select One' dropdown menu.

Figure 3 4: Upload Prowler License

In this section user can Upload Prowler License under Setup – Hardware.

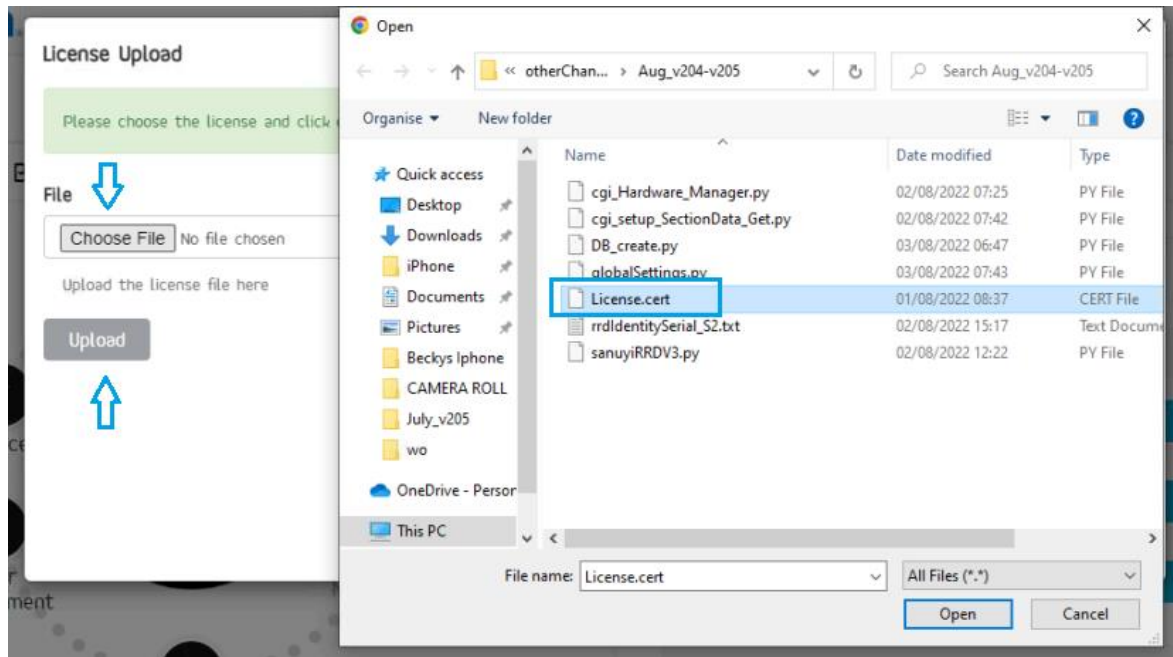


Figure 3 5: License Upload Popup

Choose License.cert file from local computer and hit Upload.

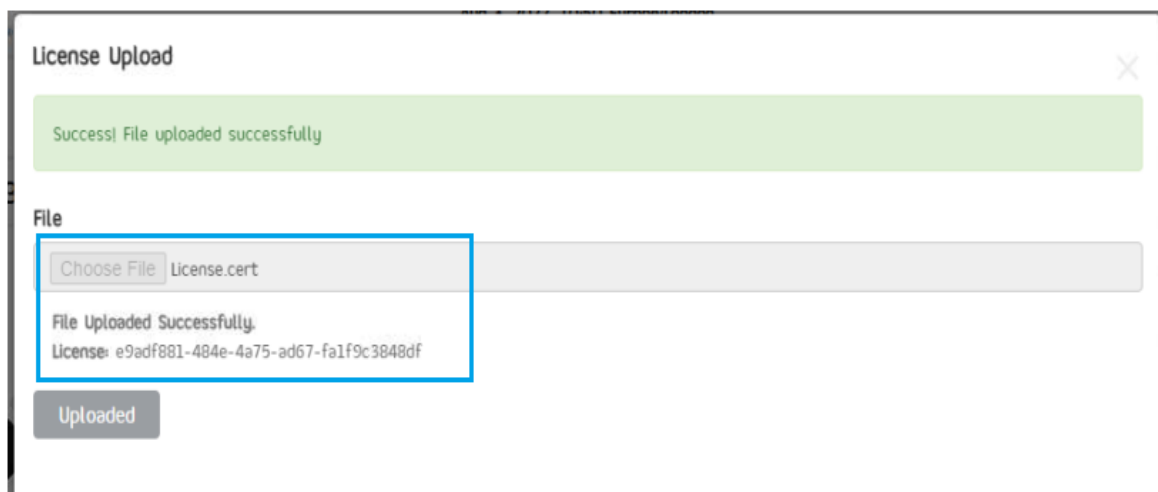


Figure 3 6: License Upload popup with Success message

Once .cert file is uploaded there will be a success message and 'Upload' button will be disabled and the button text will be changed to 'Uploaded'

### License Upload

Error! license couldn't be uploaded

#### File

Choose File Architecture.txt

Couldn't decrypt file!

Upload

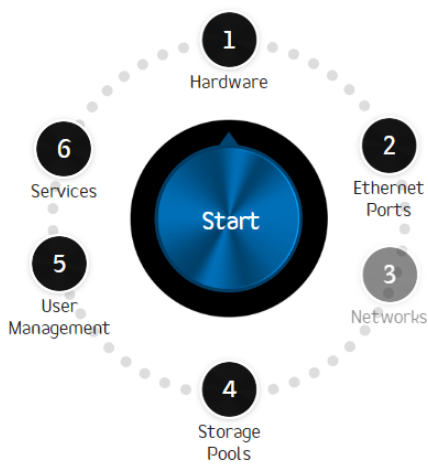
Figure 3 7: License Upload popup with Error message

User should upload the correct License file. The Cert file which is uploaded should match the System ID's - otherwise License will not be uploaded, throws an error.

- Upload Certificate – Same process as License Upload

- Upload Prowler OS Package

SetUp Wizard - To Begin Configuration Select Start Button



Setup - Hardware

Hardware Admin

Upload Prowler License
Upload

Upload Certificate
Upload

Upload Prowler OS Package
Upload

Hardware Threshold Events

Temperature
Select One

Fans
Select One

Network
Select One

Storage
Select One

Figure 3 8: Upload Prowler FW / ISO

In this section user can Upload R6000 FW / ISO under Setup - Hardware section.



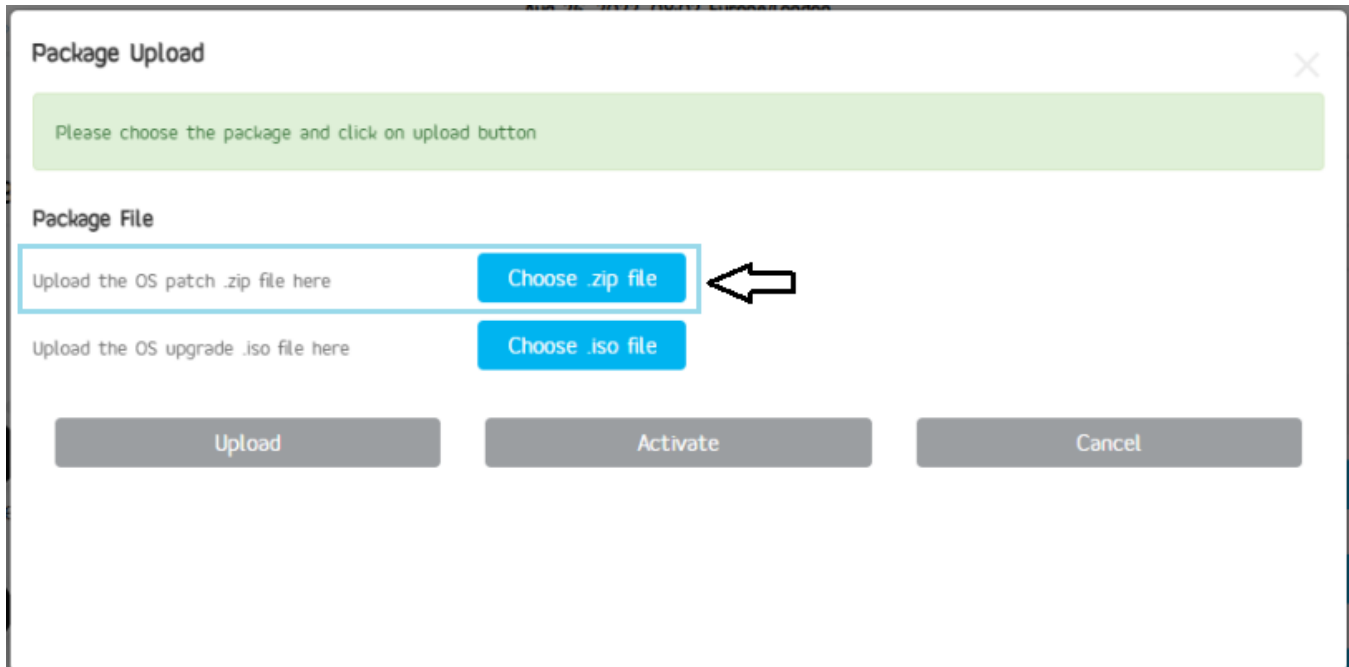


Figure 3 9: FW / ISO Upload popup

Choose FW.zip from local computer and hit Upload.

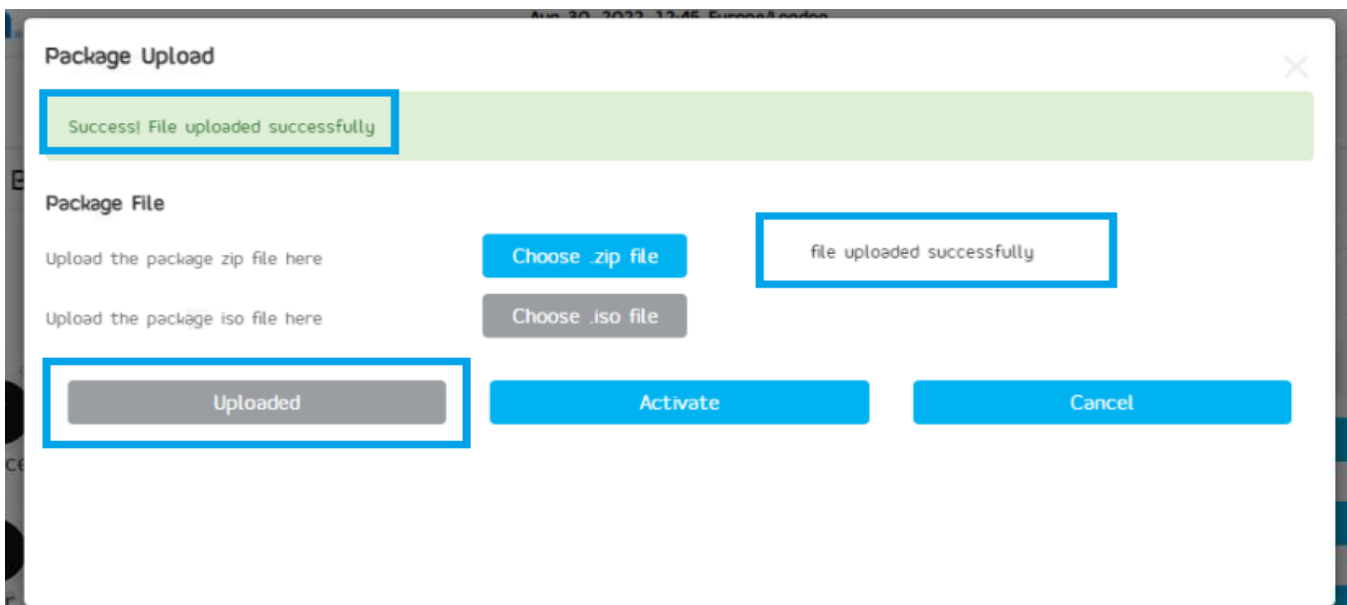


Figure 3 10: FW Upload popup with Success message

Once .zip file is uploaded there will be a success message and 'Upload' button will be disabled and the button text will be changed to 'Uploaded'

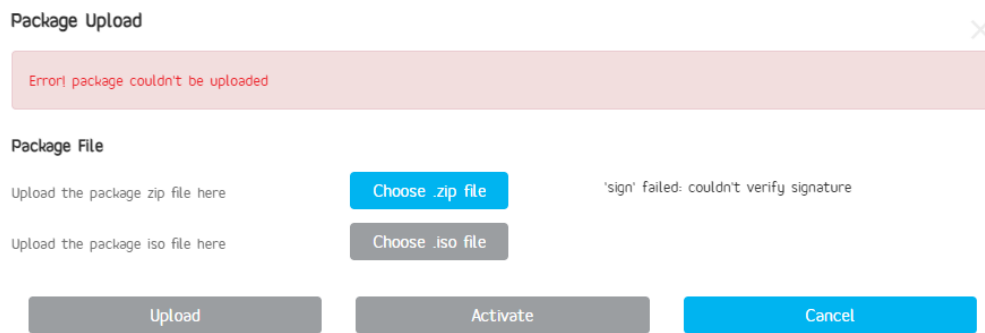


Figure 3 11: FW Upload popup with Error message

User should upload the correct FW package file and make sure that the 'main' is active / running.

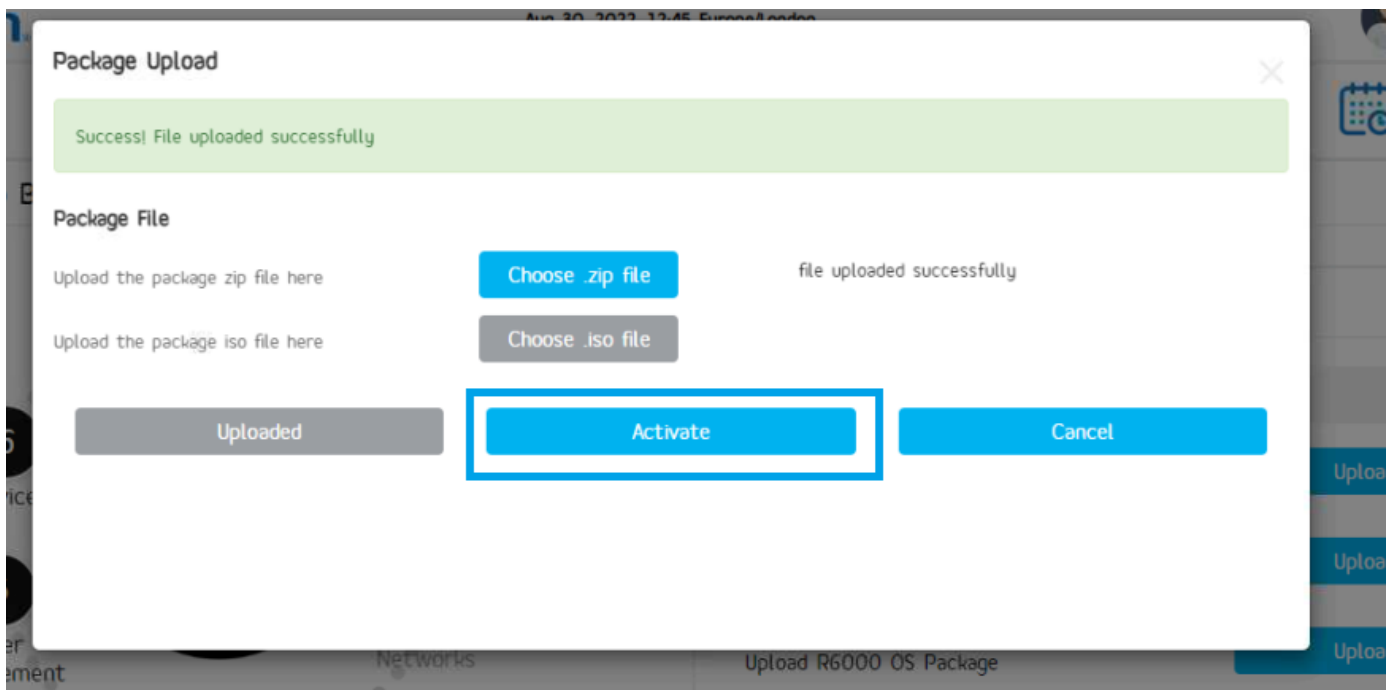


Figure 3 12: Activate Firmware

Once the .zip file is uploaded successfully user can hit 'Activate' button

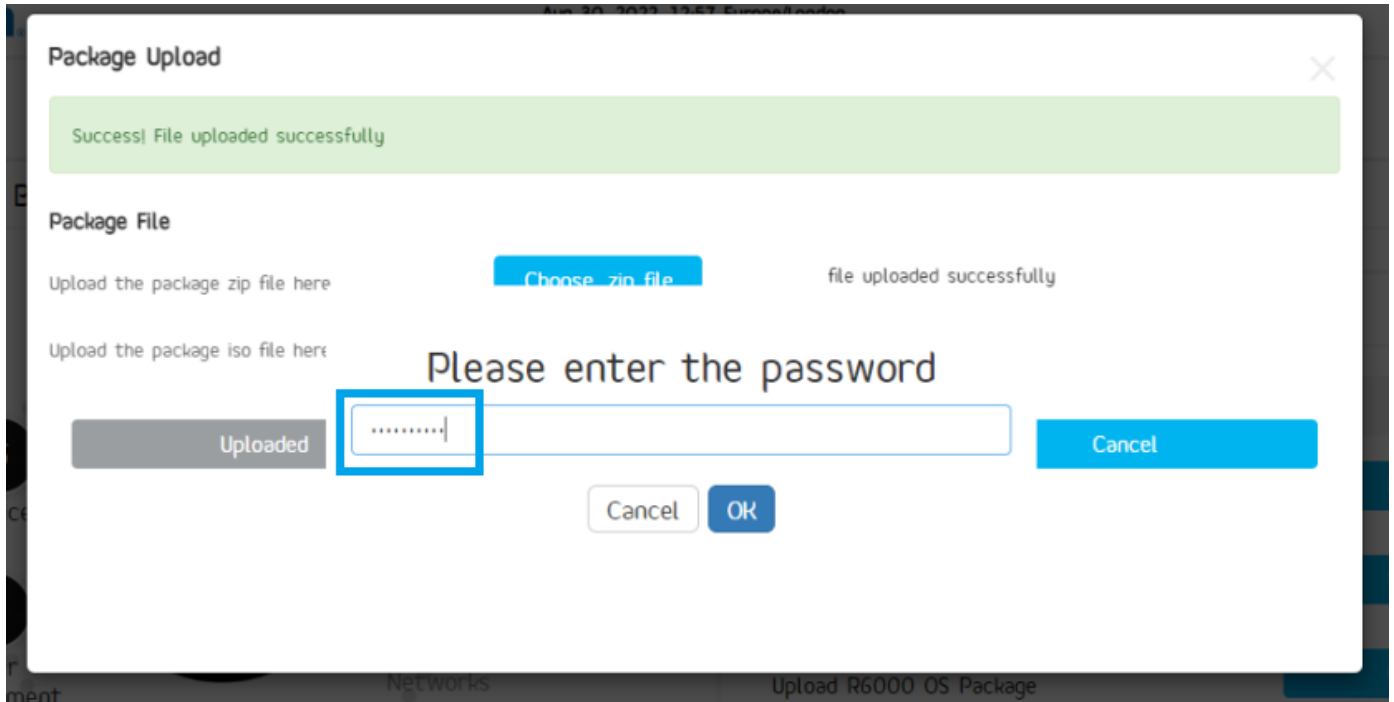


Figure 3 13: Enter Password

After clicking 'Activate' button – User has to enter the password and click 'OK' to initiate the Activation process

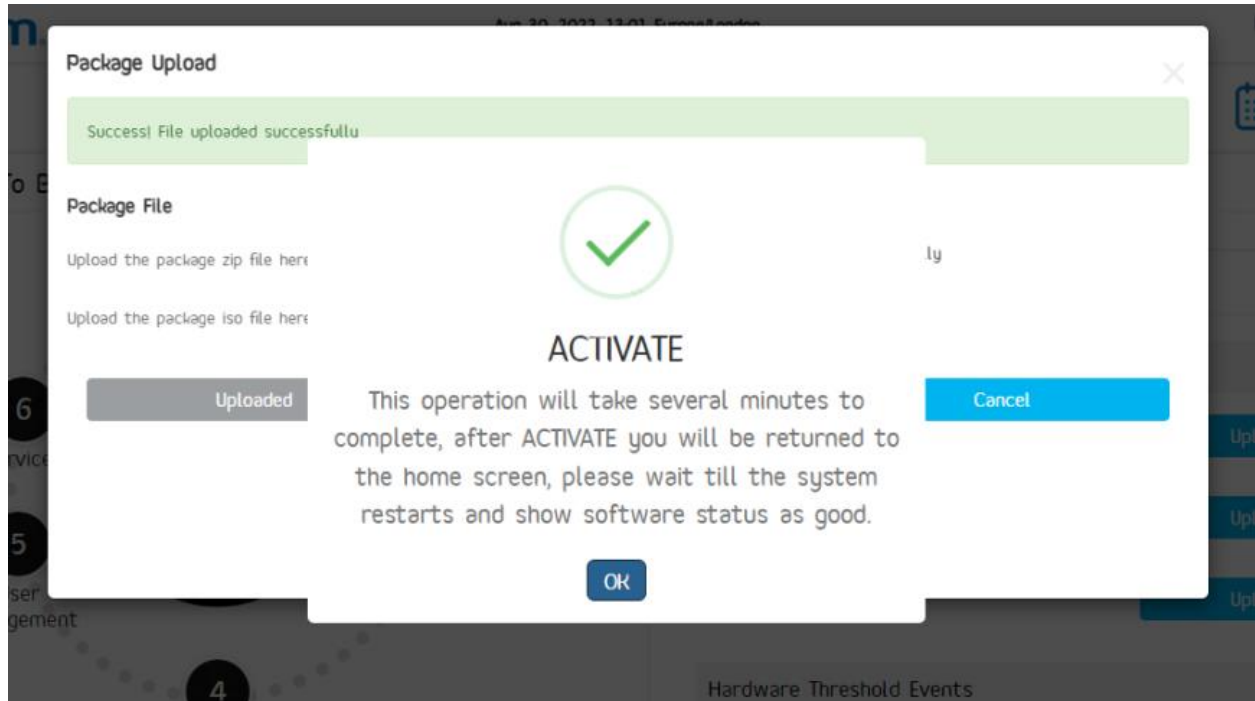


Figure 3 14: Activation Message

After entering Password – the above confirmation message will appear – User has to click 'OK' to proceed for Activation process



## This site can't be reached

■■■■■■■■■■ refused to connect.

Try:

- Checking the connection
- [Checking the proxy and the firewall](#)

ERR\_CONNECTION\_REFUSED

Reload

Figure 3 15: Page redirection

Once 'Activation' process finishes the screen / page will redirect to index / Splash Page – Verify build version once login / splash page is loaded

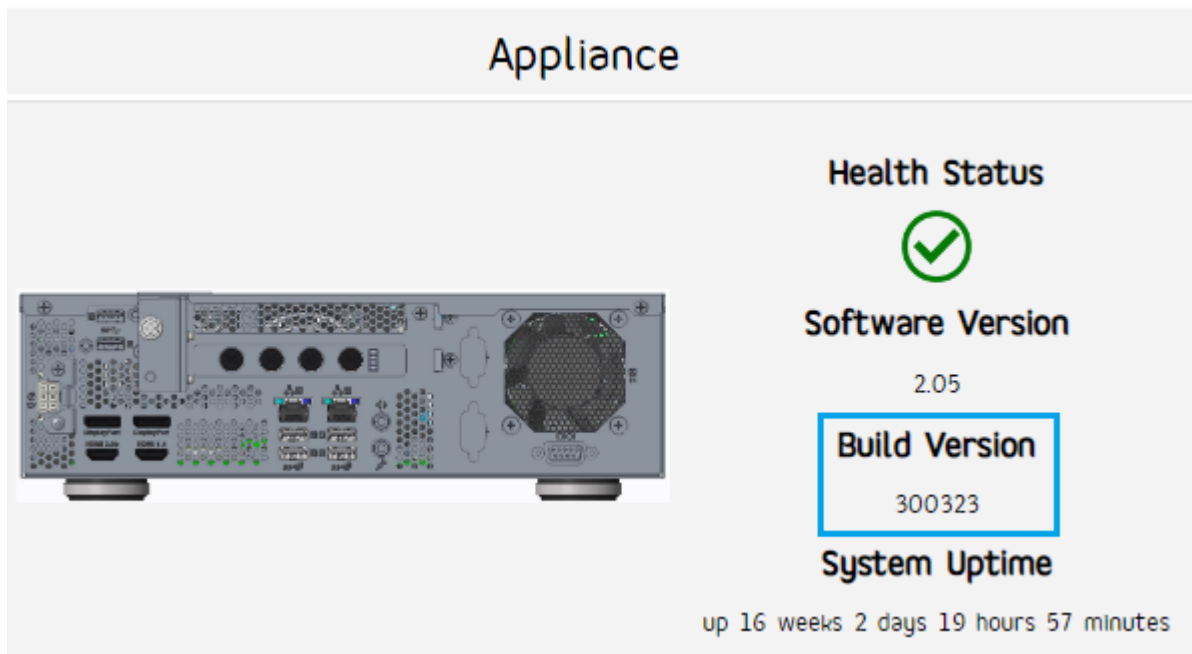


Figure 3 16: FW build verification

Once 'Activation' process finishes the screen will redirect to Splash Page – User should verify the build version if the Name / Build Version / Date is matching with the uploaded FW.zip / .iso file.

### 3.1.2 Hardware Threshold Events

In the hardware threshold section, we update the threshold values for different hardware devices like cpu, ethernet ports, fans, disks, temperature probes and storage pools.

- Temperature: update high & low thresholds for **CPU, temperature probes and disks**.
- Fans: update high & low thresholds for **fan speed**.
- Network: update error threshold and monitor for **ethernet ports**.
- Storage: update error threshold and monitor for **storage pools**.

The screenshot displays the 'Setup - Hardware' interface. At the top, there's a section titled 'Hardware Admin' with a dropdown arrow. Below it are three 'Upload' buttons corresponding to 'Upload Prowler License', 'Upload Certificate', and 'Upload Prowler OS Package'. Further down is the 'Hardware Threshold Events' section, also with a dropdown arrow. This section is highlighted with a blue border and contains four columns: 'Temperature', 'Fans', 'Network', and 'Storage'. Each column has a dropdown menu currently set to 'Select One'.

Figure 3 17: Hardware Set-Up

Temperature - CPU\_21 ✕

Name	Location	F/C	Default	Low Threshold(%)	High Threshold(%)
CPU_21	System	Celcius <span>▼</span>	0°F/-18°C	10	100

Confirm
Cancel

Figure 3 18: Temperature Pop-Up

Storage Pools

Hardware

Temperature

Fans

Network

Storage

Sensor

Show 10 entries

Search:

Name	Location	Temperature	Type	Low Threshold	High Threshold
Card	System	20° C	Celcius	10	65
CPU	System	39° C	Celcius	10	65
DDR-A1	System	28° C	Celcius	10	65
DDR-A2	System	25° C	Celcius	10	65
DDR-B1	System	26° C	Celcius	10	65
DDR-B2	System	27° C	Celcius	10	65
MotherBoard	System	27° C	Celcius	10	65
mra	Can:1	31° C	Celcius	5	65

Temperature

Select One ▼

Select One

CPU

Temp Probes

Card

DDR-A1

DDR-A2

DDR-B1

DDR-B2

MotherBoard

TF4

X570

Disks

mra

mrh

mrc

mrh

nvme0n1

Fans

Select One ▼

Network

Select One ▼

Storage

Select One ▼

Create

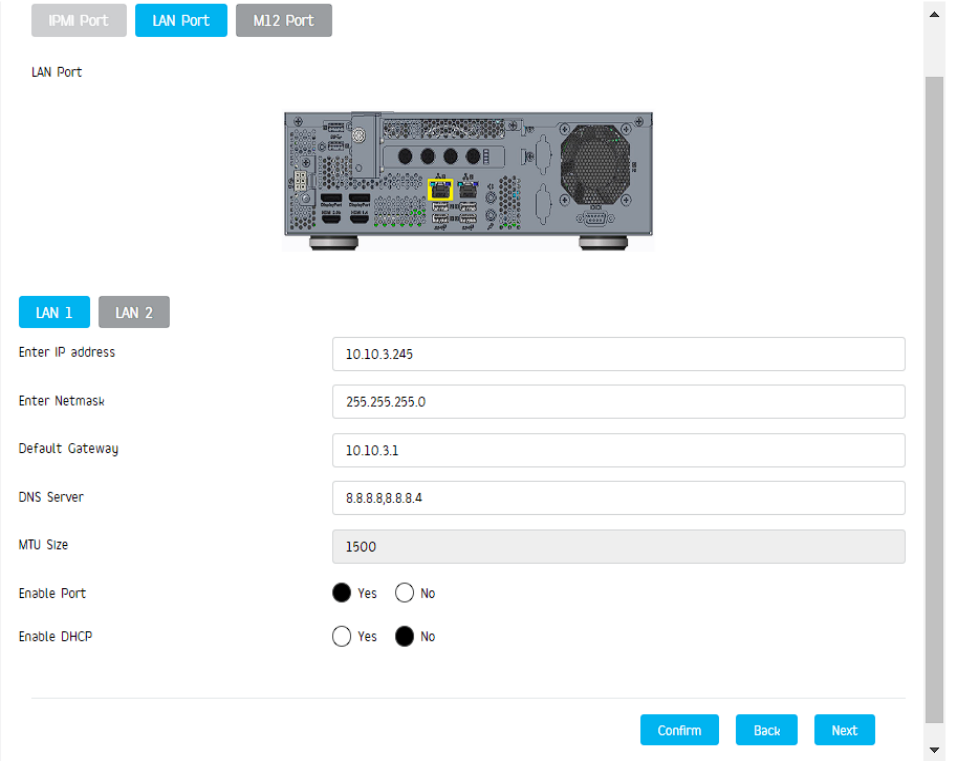
Cancel

Figure 3 19: Temperature drop down and Temp element table

## 3.2 Ethernet Ports

In this section we configure the ethernet ports with the following inputs for **LAN1, 2 and M12 ports**:

- IP Address
- Netmask
- Default Gateway
- DNS Server
- MTU Size
- whether to enable ports or not
- whether to enable DHCP or not



IPMI Port LAN Port M12 Port

LAN Port

LAN 1 LAN 2

Enter IP address 10.10.3.245

Enter Netmask 255.255.255.0

Default Gateway 10.10.3.1

DNS Server 8.8.8.8, 8.8.4.4

MTU Size 1500

Enable Port ☒ Yes ☐ No

Enable DHCP ☐ Yes ☒ No

Confirm Back Next


Figure 3 20: LAN Ports Set-Up

IPMI Port

LAN Port

M12 Port

M12 Port



M12 1

M12 2

M12 3

M12 4

Enter IP address

0.0.0.8

Enter Netmask

255.255.0.0

Default Gateway

0.0.0.0

DNS Server

8.8.8.8, 8.8.4.4

MTU Size

1500

Enable Port

☐ Yes ☒ No

Enable DHCP

☐ Yes ☒ No

Figure 3 21: M12 Ports Set-Up

### 3.3 Network – Not applicable

### 3.4 Storage Pools

In this section we configure the storage pools. We have an option to add, edit and delete them. The following are the attributes we need to configure:

- **Type of pool: MegaRAID**
- **Name of the pool**
- **Encryption**
- **Disk Percentage**
- **Storage Protection**



**Storage Pools**

Show 5 entries Search:

Pool	Type	Raw Storage	Protected Storage	Status	Raid Level	#Disks	Dedup	Encryp	Compr	Acc
p1	MegaRAID POOL	6751 GB	0 GB	Good	0	4	false	n/a	false	N/A

**Setup - Storage Pools** Add Edit Delete

Select Pool Pool Alias Name

☐ ENCRYPT

DISK Percentage Storage Protection

RAID 5 RAID 0

Confirm Cancel

Figure 3 22: Storage Pool Set-up

## 3.5 Services

Used to configure multiple services like email, machine setup, CBA, and time services.

**Cheetah RAID STORAGE** Mar 31, 2023, 18:26 Asia/Calcutta (Default) admin My account

Set-Up Host Server Volume Manager Status Schedule

SetUp Wizard - To Begin Configuration Select Start Button

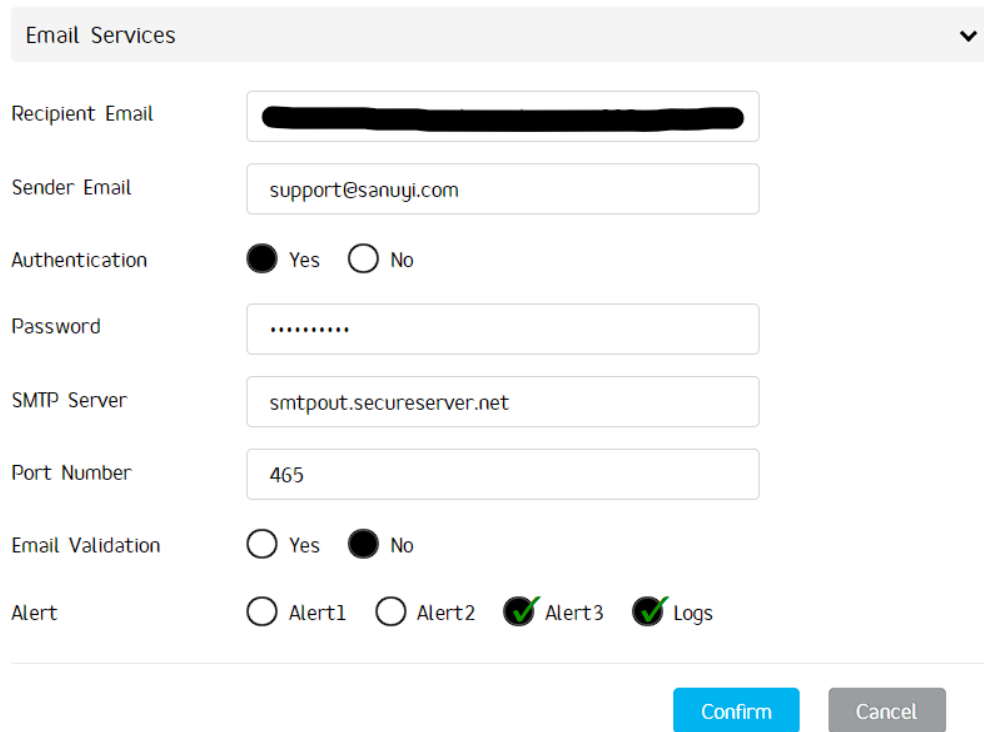
**Logging & Alerts**

- Email Services
- Machine Setup
- CBA & SSH Services
- Time Services

Figure 3 23: Services

### 3.5.1 Email Services

Configure email to get alerts and log details.



The screenshot shows the 'Email Services' configuration form. It includes fields for Recipient Email (redacted), Sender Email (support@sanuyi.com), Authentication (Yes selected), Password (redacted), SMTP Server (smtpout.secureserver.net), Port Number (465), Email Validation (No selected), and Alert selection (Alert3 and Logs selected). At the bottom are 'Confirm' and 'Cancel' buttons.

Email Services	
Recipient Email	[Redacted]
Sender Email	support@sanuyi.com
Authentication	<input checked="" type="radio"/> Yes <input type="radio"/> No
Password	.....
SMTP Server	smtpout.secureserver.net
Port Number	465
Email Validation	<input type="radio"/> Yes <input checked="" type="radio"/> No
Alert	<input type="radio"/> Alert1 <input type="radio"/> Alert2 <input checked="" type="radio"/> Alert3 <input checked="" type="radio"/> Logs
<div>Confirm Cancel</div>	

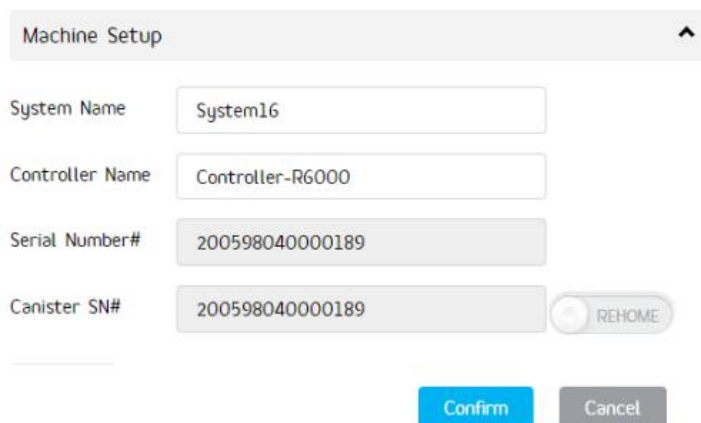
Figure 3 24: Email Services

### 3.5.2 Machine Setup

Used to setup Machine and Controller name.

Foreign Canister ReHome button –

When same System and Canister serial numbers - The 'Rehome' button is disabled.



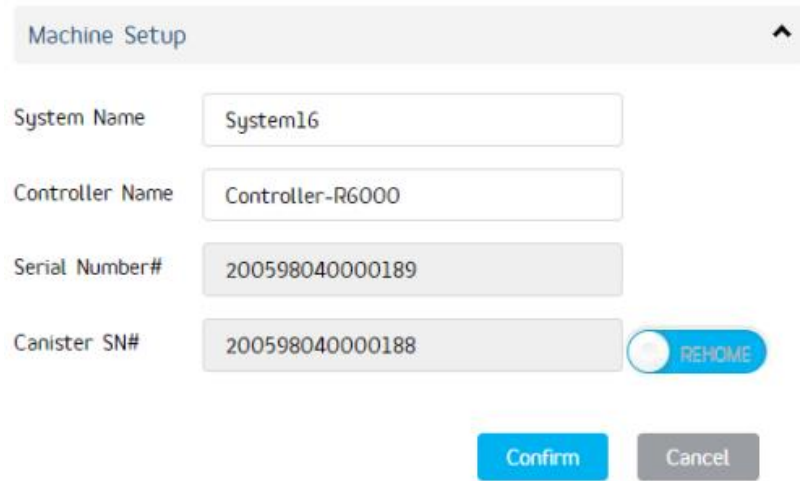
The screenshot shows the 'Machine Setup' form. It includes fields for System Name (System16), Controller Name (Controller-R6000), Serial Number# (200598040000189), and Canister SN# (200598040000189). A 'REHOME' button is disabled (greyed out) because the System and Canister serial numbers are identical. At the bottom are 'Confirm' and 'Cancel' buttons.

Machine Setup	
System Name	System16
Controller Name	Controller-R6000
Serial Number#	200598040000189
Canister SN#	200598040000189
<div>REHOME</div>	
<div>Confirm Cancel</div>	

Figure 3 25: Machine Setup

When different System and Canister serial numbers - The 'Rehome' button is enabled.

On click of ReHome button – Password popup appears – on entering the correct password the canister SN# will match the Serial Number# and the button will be disabled.



The image shows a 'Machine Setup' form with a dropdown menu at the top. Below the dropdown are four input fields: 'System Name' with the value 'System16', 'Controller Name' with the value 'Controller-R6000', 'Serial Number#' with the value '200598040000189', and 'Canister SN#' with the value '200598040000188'. To the right of the 'Canister SN#' field is a blue button labeled 'REHOME'. At the bottom of the form are two buttons: 'Confirm' (blue) and 'Cancel' (grey).

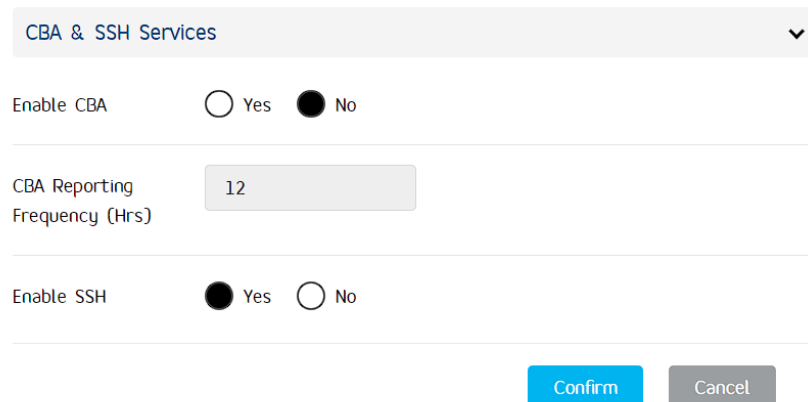
Figure 3 26: Machine Setup - ReHome

### 3.5.3 CBA and SSH Services

Used to configure:

CBA to be able to send reports and be able to select the frequency of reporting

Enable SSH services Yes or No



The image shows a 'CBA & SSH Services' form with a dropdown menu at the top. Below the dropdown are three sections: 'Enable CBA' with radio buttons for 'Yes' (selected) and 'No', 'CBA Reporting Frequency (Hrs)' with a text input field containing the value '12', and 'Enable SSH' with radio buttons for 'Yes' (selected) and 'No'. At the bottom of the form are two buttons: 'Confirm' (blue) and 'Cancel' (grey).

Figure 3 27: CBA & SSH

### 3.5.4 Time Services

Used to configure the time services to synchronize server time with desired time-zone.

Time Services

Time Zone

Europe/Dublin

NTP Server

ie.pool.ntp.org

Confirm

Cancel

Figure 3 28: Time Services

## Chapter 4

### Host Server

Used to manage and configure different host servers.



Host Server

Show5entries

Search:

	Name	Host Type	Protocol	User Name / IQN	Password	IPs	WWN	URL
<input type="radio"/>	test123	Single Host	CIFS	navee	Naveen@123			
<input type="radio"/>	kellele	Single Host	NFS			192.168.30.14		
<input type="radio"/>	rajesh	Storage Manager	CIFS	admin	*****	1.1.1.1		
<input type="radio"/>	ra111	Storage Manager	NFS			127.1.1.2		
<input type="radio"/>	ravall	Storage Manager	ISCSI-Chap	admin	*****	127.1.1.1		

Showing 1 to 5 of 14 entries

Previous

1

2

3

Next

Figure 4 1: Host Server

### 4.1 Add Host Server

For creating a new host server, we have to configure the following attributes:

- **Host type:** One of Single Host, Group Host, Storage Manager, Download Server or Backup Server
- **Host name: Rules**

Protocol	StandardHostName	ShortHostName	LongHostName	Shrt_PWD	LongPWD	Validations for Names
NFS	1> Name <12	<1	>12	<6	MAX is Set to FALSE if TRUE >16(NA)	1. LowerCase Alphs 2. numeric 3. - char
CIFS	1> Name <12	<1	>12	<6	MAX is Set to FALSE if TRUE >16(NA)	1.Alpha(a-z,A-Z) 2. numeric 3. - char 4. !@#\$\$%&'~(){}
iSCSI Chap	1> Name <12	<1	>12	<6	MAX is Set to FALSE if TRUE >16(NA)	1. LowerCase Alpha 2. numeric 3. - char is not allowed
iSCSI No Chap	1> Name <12	<1	>12	<6	MAX is Set to FALSE if TRUE >16(NA)	1. LowerCase Alpha 2. numeric 3. - char is not allowed

- **Protocol:** One of CIFS, NFS, iSCSI-Chap, iSCSI-NoChap, S3 Object Storage
- **Username / Access Key/IQN,**
- **Password / Secret Key**
- **Allowed IPs**
- **WWN**
- **URL**

Host Server

Add

Edit

Delete

Host Server (Field Config / Value)

Host Type

--Select--

Host Name

Name

Protocol

-- Select --

User Name / Access Key / IQN

User Name

Password / Secret Key

Password

Allowed IPs

IPs

URL

URL

WWN

WWN

Confirm

Cancel

Show 5 entries

Search:

	Name	Host Type	Protocol	User Name / IQN	Password	IPs	WWN	URL
<input type="radio"/>	test123	Single Host	CIFS	naeve	Naveen@123			
<input type="radio"/>	kelkele	Single Host	NFS			192.168.90.14		
<input type="radio"/>	rajesh	Storage Manager	CIFS	admin	*****	1111		
<input type="radio"/>	ra111	Storage Manager	NFS			127.11.2		
<input type="radio"/>	rava11	Storage Manager	iSCSI-Chap	admin	*****	127.11.1		

Showing 1 to 5 of 14 entries

Previous

1

2

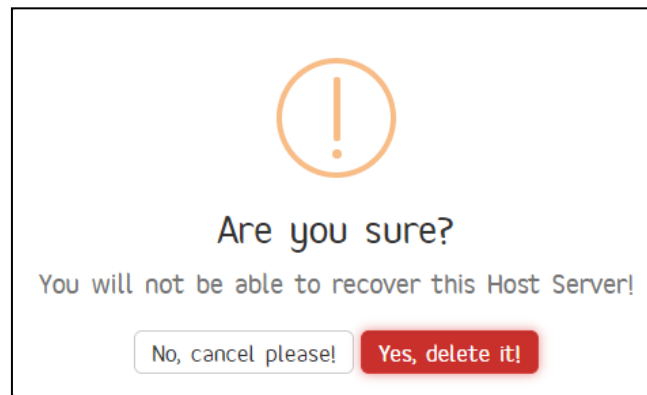
3

Next

Figure 4 2: Adding Host Server

## 4.2 Delete Host Server

The following pop-up is displayed when trying to delete any host server



**Figure 4 3: Deleting Host Server**

# Chapter 5



Volume Manager

Add

Edit

Delete

Show

5

entries

	Name	Type	Volume/App	Size(GB)	Pool	Pool Type	LUN	Backup Device	Protocol	Used by	Port	Action
<input type="radio"/>	backup19	Native	Volume	20	p1	MegaRAID	15	Yes	NFS	localhost	LAN4	<div>Go</div> <div>Info</div> <div>On</div>

Showing 1 to 1 of 1 entries

Previous

1

Next

### Figure 5 1: Volume Manager

## 5.1 Add Volume Manager

To add and configure a new volume, we have to specify the following values:

- **Volume Name: Rules**

Protocol	StandardHostName	ShortHostName	LongHostName	Shrt_PWD	LongPWD	Validations for Names
NFS	1> Name <12	<1	>12	<6	MAX is Set to FALSE if TRUE >16(NA)	1. LowerCase Alphas 2. numeric 3. - char
CIFS	1> Name <12	<1	>12	<6	MAX is Set to FALSE if TRUE >16(NA)	1.Alpha(a-z,A-Z) 2. numeric 3. - char 4. !@#\$%&'~(){}
iSCSI Chap	1> Name <12	<1	>12	<6	MAX is Set to FALSE if TRUE >16(NA)	1. LowerCase Alpha 2. numeric 3. - char is not allowed
iSCSI No Chap	1> Name <12	<1	>12	<6	MAX is Set to FALSE if TRUE >16(NA)	1. LowerCase Alpha 2. numeric 3. - char is not allowed

- **Size**
- **LUN (Logical unit number)**
- **Deduplication, Compression, Backup Device, Thin Volume**
- **Pool:** Dropdown of pools shown from the ones created on setup page
- **Protocol:** Same as the ones from Host Server protocols.
- **Host:** Shown **based on the protocol selected**



- **Port:** Dropdown of Ethernet ports shown.

Volume Manager

AddEditDelete

Volume Manager (Field Config / Value)

Name

Name

Pool

p4

Remaining Capacity

1745 GB

Size(GB)

Size(GB)

LUN

0-128

Backup device

☐

Protocol

-- Select --

Host

-- Select --

Port

-- Select --

Confirm

Cancel

Show 5 entries

	Name	Type	Volume/App	Size(GB)	Pool	Pool Type	LUN	Backup Device	Protocol	Used by	Port	Action
<input type="radio"/>	backup19	Native	Volume	20	p1	MegaRAID	15	Yes	NFS	localhost	LAN4	<div><div>Go</div><div>Info</div><div>On</div></div>

Showing 1 to 1 of 1 entries

Previous

1

Next

Figure 5 2: Adding Volume Manager

- **Action buttons:**
  - Snapshot – N/A,
  - i – Info about the volume,
  - On / Off button – To turn On / Off the volume
    - “TURN ON” the volume to get it started / mounted so it can be used and seen from an external system

Cheetah RAID STORAGE

Sep 11, 2023, 18:05 Asia/Calcutta (Default)

adminMy account

Set-Up

Host Server

Volume Manager

Status

Schedule

Volume Manager

AddEditDelete

Show 5 entries

vol12

Native

Volume

10

volTest1

Native

Volume

10

backup

Native

Volume

20

test2

Native

Volume

20

rick

Native

Volume

200

Success

Volume is ON

OK

	Name	Type	Volume/App	Size(GB)	Pool	Pool Type	LUN	Backup Device	Protocol	Used by	Port	Action
<input type="radio"/>	vol12	Native	Volume	10					CIFS	localCIFS	LAN1	<div><div>Go</div><div>Info</div><div>On</div></div>
<input type="radio"/>	volTest1	Native	Volume	10					CIFS	localCIFS	LAN1	<div><div>Go</div><div>Info</div><div>On</div></div>
<input type="radio"/>	backup	Native	Volume	20					SCSI-NoChap	localSCSI	LAN1	<div><div>Go</div><div>Info</div><div>On</div></div>
<input type="radio"/>	test2	Native	Volume	20					SCSI-NoChap	localSCSI	LAN1	<div><div>Go</div><div>Info</div><div>On</div></div>
<input type="radio"/>	rick	Native	Volume	200	p2	MegaRAID	10	No	NFS	localVolume	LAN1	<div><div>Go</div><div>Info</div><div>On</div></div>

Showing 1 to 5 of 7 entries

Previous

1

2

Next

Figure 5 3: Volume On / Off popup

27

## 5.2 Delete Volume Manager

A confirmation pop-up is shown as shown below when you try to delete a volume.

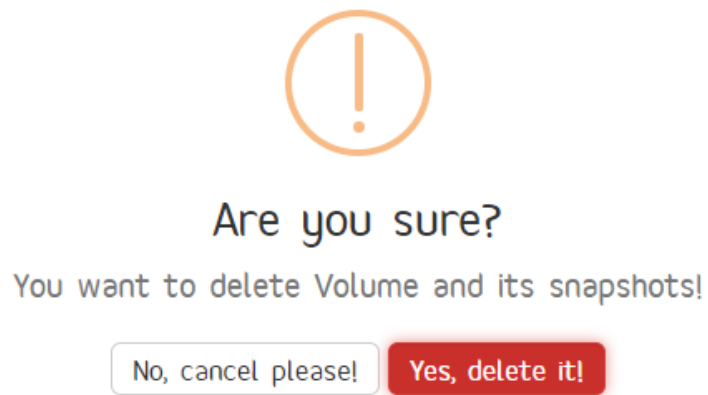


Figure 5 4: Deleting Volume Manager

## Chapter 6

### Status

#### 6.1 Server Status

In this section, we monitor the status of the server. On clicking any of the small icons that are shown above the server, we get a more detailed view of various components status. The detailed view of all components can be seen as depicted in the following sections.

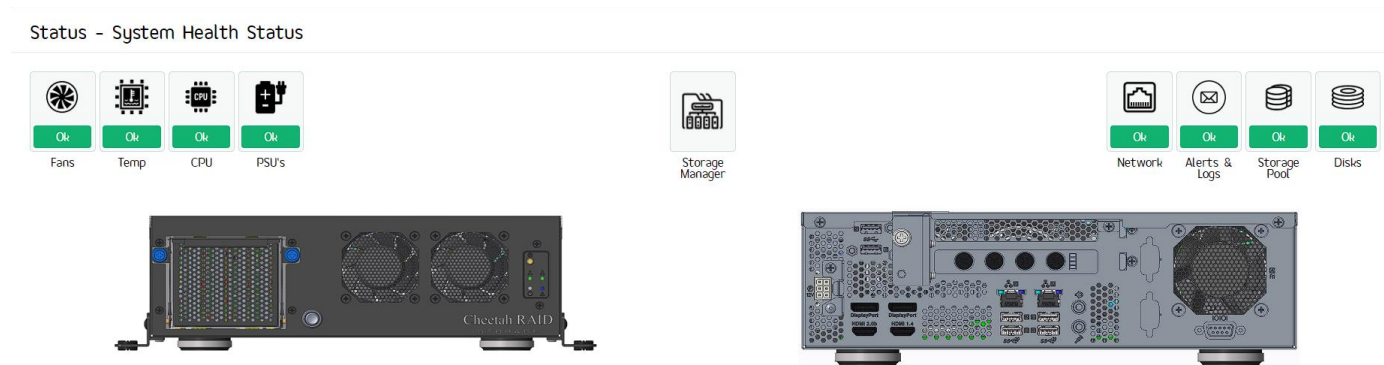


Figure 6 1: Server Status

#### Various Status Icons



**OK**



**WARNING**



**ALERT**

- **OK:** Indicates that everything is under control
- **WARNING:** Indicates that user attention is required.
- **ALERT:** Indicates that one or more components is in critical stage.

## 6.2 Fan Status

Fan Status View

Show  entriesSearch: 

Fan	State	Name	Speed	Location	Low Threshold	High Threshold
1		Fan#CPU	2200	CPU-Fan	1000	7000
2		Fan#F1	6300	front-right	1000	7000
3		Fan#F2	6500	front-left	2000	9000
4		Fan#R1	7920	rear-right	2000	17000

Showing 1 to 4 of 4 entries

Previous **1** Next

Figure 6 2: Fan Status

## 6.3 Temp Status

Temperature Status View

Show  entriesSearch: 

Temp	State	Name	Temp	Low Threshold	High Threshold
1		MotherBoard	35° C	10	65
2		Card	28° C	10	65
3		DDR-A1	36° C	10	65
4		DDR-A2	34° C	10	65
5		DDR-B1	33° C	10	65
6		DDR-B2	35° C	10	65
7		X570	41° C	10	65
8		TF4	29° C	10	65

Showing 1 to 8 of 8 entries

Previous **1** Next

Figure 6 3: Temperature Status

## 6.4 CPU Status

CPU Status View

Show  entriesSearch: 

CPU	State	Name	Controller	Location	Cores	Cache Size	Temperature	Vendor	Model Number	Cpu(mhz)
1		CPU_1	Controller-R6000	N/A	16	512 KB	50	AuthenticAMD	AMD Ryzen 9 3950X 16-Core Processor	2351.063
2		CPU_2	Controller-R6000	N/A	16	512 KB	50	AuthenticAMD	AMD Ryzen 9 3950X 16-Core Processor	2009.822
3		CPU_3	Controller-R6000	N/A	16	512 KB	50	AuthenticAMD	AMD Ryzen 9 3950X 16-Core Processor	2199.887
4		CPU_4	Controller-R6000	N/A	16	512 KB	50	AuthenticAMD	AMD Ryzen 9 3950X 16-Core Processor	2007.508
5		CPU_5	Controller-R6000	N/A	16	512 KB	50	AuthenticAMD	AMD Ryzen 9 3950X 16-Core Processor	2193.481

Showing 1 to 5 of 33 entries

[Previous](#)
[1](#)
[2](#)
[3](#)
[4](#)
[5](#)
[6](#)
[7](#)
[Next](#)

Figure 6 4: CPU Status

## 6.5 PSU Status

PSU Status View



PSU	State	Name	AC Status	DC Status
1		PSU_1	null	OK
2		PSU_2	null	OK

Showing 1 to 2 of 2 entries

Figure 6 5: PSU Status

## 6.6 Network Status

Network Status View

⌂ ×

Show 

25

 entries

Search:

Port	State	Name	Speed	IP	Netmask	Monitor	Link
1	●	IPMI	0	10.10.3.131	255.255.255.0	No	down
2	●	LAN1	1000	10.10.3.115	255.255.255.0	No	up
3	●	LAN2	-1	192.168.31.16	255.255.255.0	No	down
4	●	M12-1	0	0.0.0.0	0.0.0.0	No	0
5	●	M12-2	0	0.0.0.0	0.0.0.0	No	0
6	●	M12-3	0	0.0.0.0	0.0.0.0	No	0
7	●	M12-4	0	0.0.0.0	0.0.0.0	No	0

Showing 1 to 7 of 7 entries

Previous

1

Next

Figure 6 6: Network Status

## 6.7 Alerts & Logs

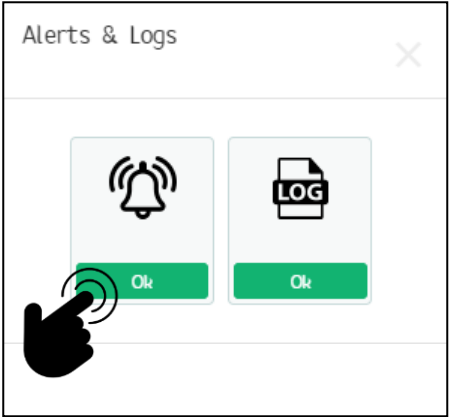


Figure 6 7: Alerts & Logs

## 6.7.1 Alerts

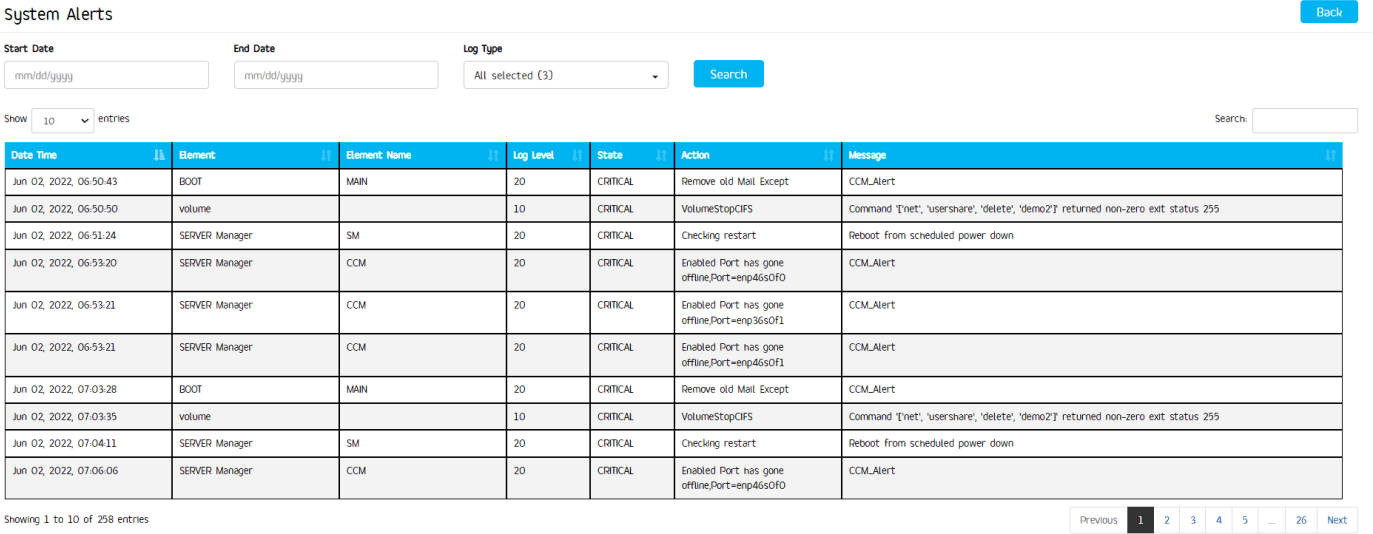


Figure 6 8: Alerts

## 6.7.2 Logs

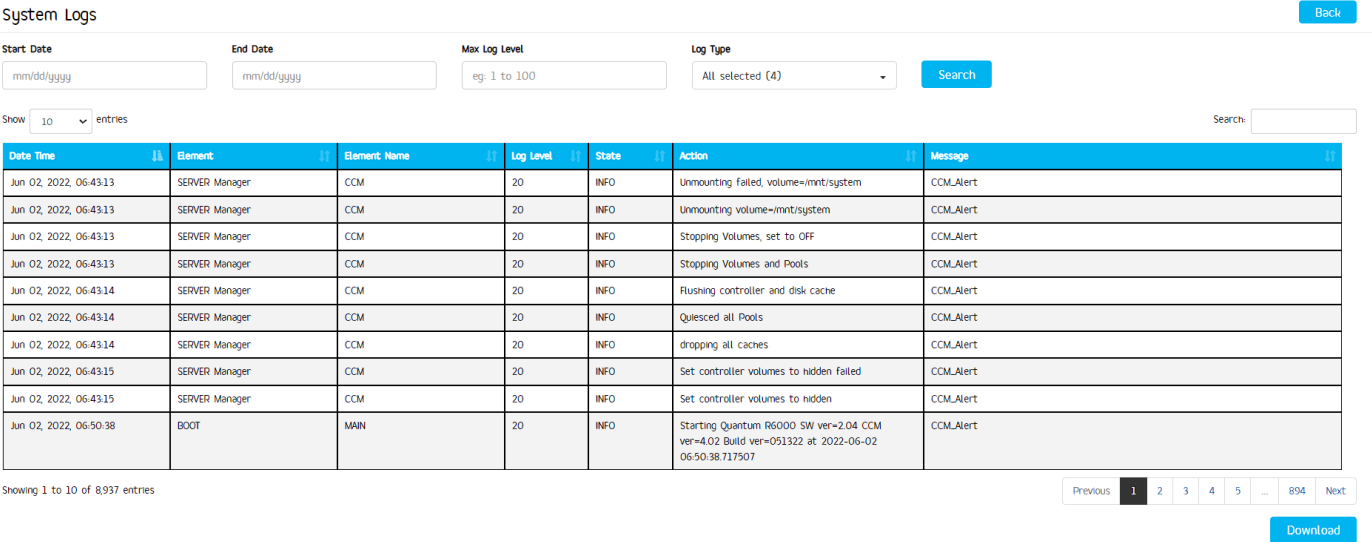


Figure 6 9: Logs

## 6.8 Storage Pools

### Storage Pool View



Show  entries

Pool	State	Redundancy	#Disks	Raid Level	Disk missing	Storage Capacity	Used Storage	Remaining Capacity	Cache Read	Cache Write	Type
p1	<span style="color: green;">●</span>	1	4	5	0	5200 GB	20 GB	5180 GB	N/A	N/A	MegaRAID POOL
s1	<span style="color: green;">●</span>	0	4	0	0	238 GB	0 GB	238 GB	N/A	N/A	SSD POOL
fdfdfd	<span style="color: green;">●</span>	0	4	0	0	10000 GB	0 GB	10000 GB	N/A	N/A	NVMeOF POOL
p21	<span style="color: green;">●</span>	0	4	0	0	1090 GB	0 GB	1090 GB	N/A	N/A	MegaRAID POOL
p4	<span style="color: green;">●</span>	0	4	0	0	1745 GB	0 GB	1745 GB	N/A	N/A	MegaRAID POOL

Showing 1 to 5 of 5 entries

Previous **1** Next

Figure 6 10: Storage Pool Status

## 6.9 Disks

The following table shows the disks status. To get SMART data just click on the disk as shown in the image.

- Action buttons:
1. Info icon will be shown Disk information
  2. On / Off – Disk can be turned Off / On
  3. Eject – Disk can be ejected
  4. Upload – User is able to upload a config file for the Disk

Disk Status View 🔄 ✕

Show  entries Search:

Disk	State	Name	Type	Size	Pool	Status	Action
slot X	<span style="color: green;">●</span>	wwn-0x600062b20...	NVMe	7423	n/a	OK	
slot X	<span style="color: green;">●</span>	wwn-eui.00000000...	NVMe	512	n/a	OK	
Can-1	<span style="color: green;">●</span>	wwn-3B5C7ADDD6D...	NVMe	3492	n/a	OK	
Can-2	<span style="color: green;">●</span>	wwn-3B5C7AE0D8D...	NVMe	3492	n/a	OK	
Can-3	<span style="color: green;">●</span>	wwn-3B5C7EE0D8D...	NVMe	3492	n/a	OK	

Showing 1 to 5 of 6 entries Previous **1** 2 Next

Figure 6 11: Disks Status



## 6.9.1 Smart Data

Health Status		Temperature		Self Test Result		Sector Error count	
Normal		39deg C		PASSED		n/a	
Name	Value	Raw	Threshold	Worst	Type	Assessment	
Raw_Read_Error_Rate	81	141674428	44	63	Pre-fail	OK	
Spin_Up_Time	98	0	0	90	Pre-fail	OK	
Start_Stop_Count	100	498	20	100	Old_age	OK	
Reallocated_Sector_Ct	100	4294967297	36	100	Pre-fail	OK	
Seek_Error_Rate	70	12914945158	30	60	Pre-fail	OK	

Figure 6 12: Disks Smart Data

## 6.10 Storage Manager

Storage Manager												
												<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
Show <input type="text" value="5"/> entries												<input type="button" value="Back"/>
	Name	Status	Size	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	Action
<input type="radio"/>	istor_stor	Offline	-	-	-	-	-	-	-	-	-	<input type="button" value="Devices"/>
<input type="radio"/>	nfs_stor	Offline	-	-	-	-	-	-	-	-	-	<input type="button" value="Devices"/>
Showing 1 to 2 of 2 entries												<input type="button" value="Previous"/> <input type="button" value="1"/> <input type="button" value="Next"/>

Figure 6 13: Storage Manager

To add a storage manager, we need to configure the following details:

- **Name**
- **Protocol:** Same as the ones from Host Server protocols.
- **Storage Target (Host Server):** Shows host servers based on the protocol selected
- **Remote directory share:** Path to remote directory that is shared

Storage Manager

Add

Edit

Delete

Back

Storage manager

Name

Protocol

Storage Target

Remote Directory Share

Name

Select

-- Select --

Remote Directory Share

Confirm

Cancel

Show

5

entries

	Name	Status	Size	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	Action
<input type="radio"/>	istor_stor	Offline	-	-	-	-	-	-	-	-	-	-	<div>Devices</div>
<input checked="" type="radio"/>	nfs_stor	Offline	-	-	-	-	-	-	-	-	-	-	<div>Devices</div>

Showing 1 to 2 of 2 entries

Previous

1

Next

Figure 6 14: Storage Manager - Add

6.10.1 Devices

Shows devices associated with a storage manager.

Storage Manager: iscsi15

X

Show

5

entries

Device Name	Size(GB)	Protocol	TBD	TBD	TBD	TBD	Action
iqn.2018-04....	undefined	iSCSI-NoChap	-	-	-	-	<div><div>i</div><div>ON</div></div>
iqn.2018-04....	undefined	iSCSI-NoChap	-	-	-	-	<div><div>i</div><div>ON</div></div>

Showing 1 to 2 of 2 entries

Previous

1

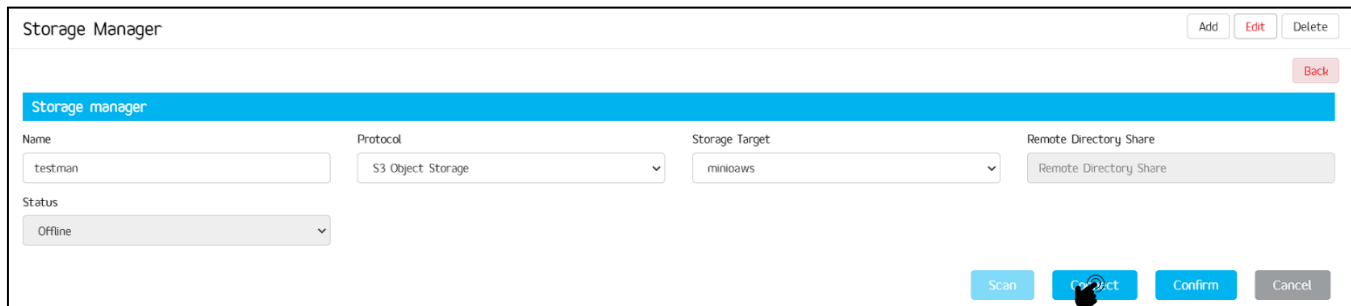
Next

Close

Figure 6 15: Storage Manager - Devices

## 6.10.2 Connect / Disconnect

When clicked on edit – User can update all the fields except Remote Dir share  
 User can connect or disconnect storage managers  
 User can Scan and see whichever Storeman's are available



The screenshot shows the 'Storage Manager' interface. At the top right are buttons for 'Add', 'Edit', and 'Delete'. Below these is a 'Back' button. The main form has a blue header 'Storage manager'. It contains four input fields: 'Name' (text box with 'testman'), 'Protocol' (dropdown menu with 'S3 Object Storage'), 'Storage Target' (dropdown menu with 'minioaws'), and 'Remote Directory Share' (text box with 'Remote Directory Share'). Below these is a 'Status' dropdown menu with 'Offline'. At the bottom right are four buttons: 'Scan', 'Connect' (highlighted with a mouse cursor), 'Confirm', and 'Cancel'.

Figure 6 16: Storage Manager – Connect / Disconnect

## 6.10.3 Delete Storage Manager

The following error is displayed when trying to delete a storage manager.

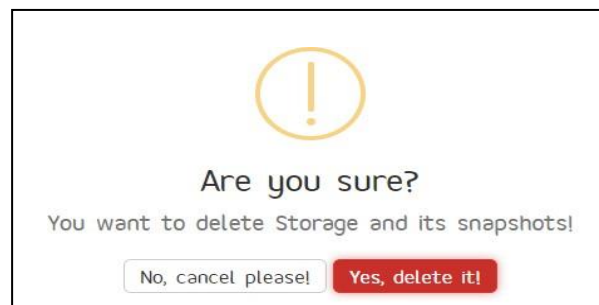


Figure 6 17: Delete Storage Manager

## 6.11 Server Statistics

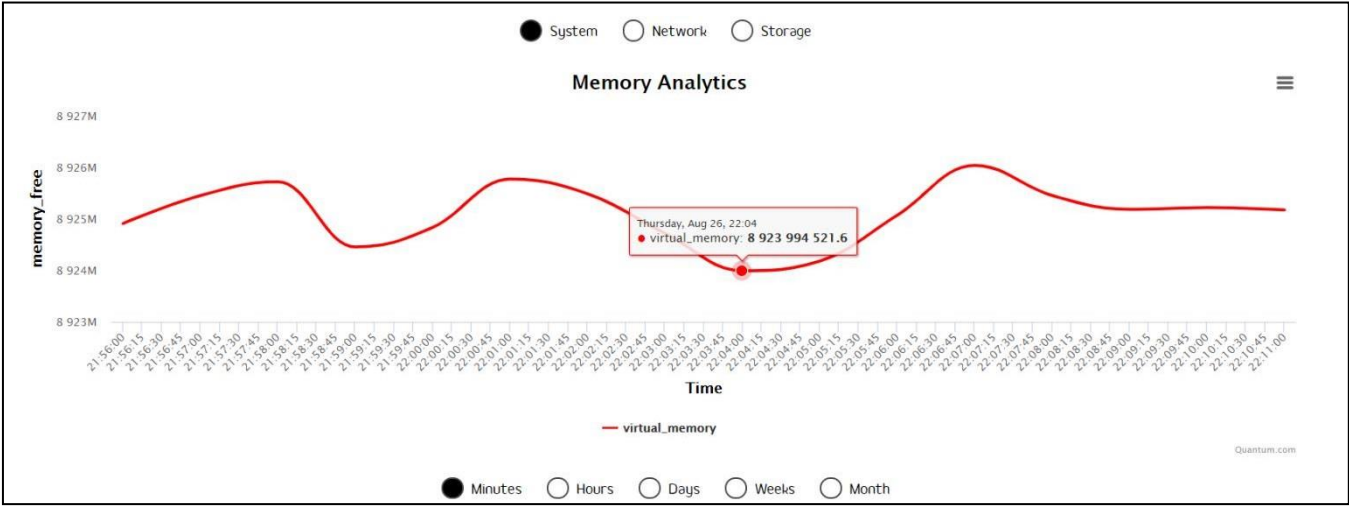


Figure 6 18: Server Stats Graph

### 6.11.1 System

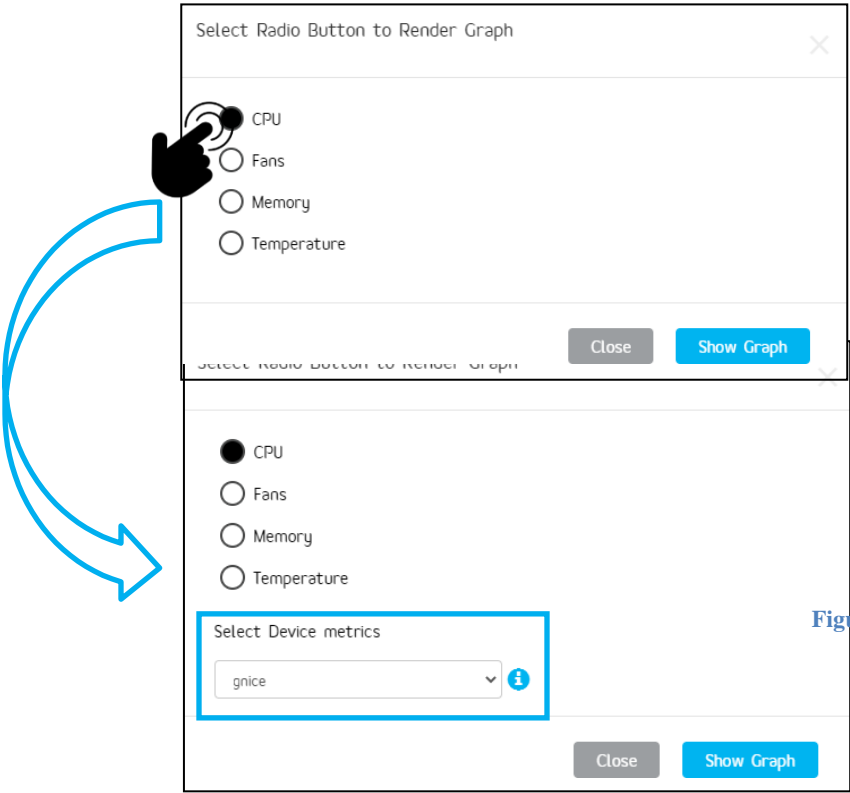
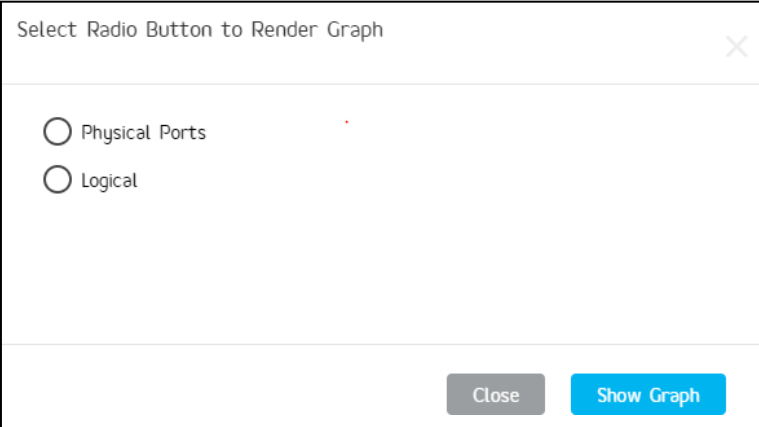


Figure 6 19: System Options for Graph

## 6.11.2 Network



A dialog box titled "Select Radio Button to Render Graph" with a close button (X) in the top right corner. It contains two radio button options: "Physical Ports" and "Logical". At the bottom right, there are two buttons: "Close" (grey) and "Show Graph" (blue).

Select Radio Button to Render Graph

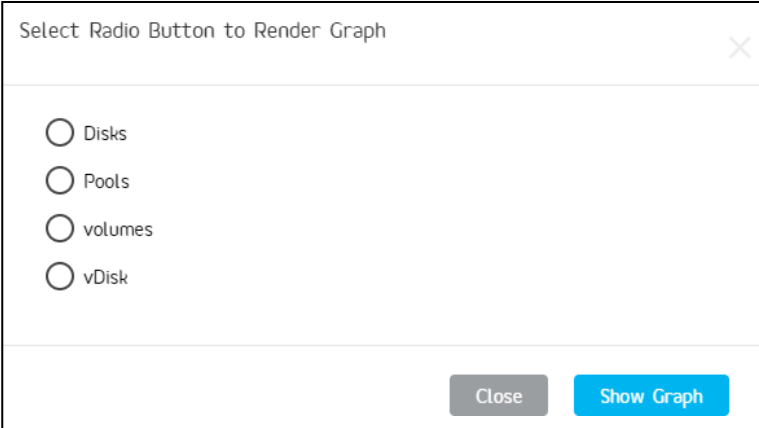
☐ Physical Ports

☐ Logical

Close Show Graph

Figure 6 20: Network Options for Graph

## 6.11.3 Storage



A dialog box titled "Select Radio Button to Render Graph" with a close button (X) in the top right corner. It contains four radio button options: "Disks", "Pools", "volumes", and "vDisk". At the bottom right, there are two buttons: "Close" (grey) and "Show Graph" (blue).

Select Radio Button to Render Graph

☐ Disks

☐ Pools

☐ volumes

☐ vDisk

Close Show Graph

Figure 6 21: Storage Options for Graph

## Chapter 7

### Schedule

This section allows you to schedule a task at any desired time. Further in this chapter, we will see how to add a schedule and how to view the schedule history.

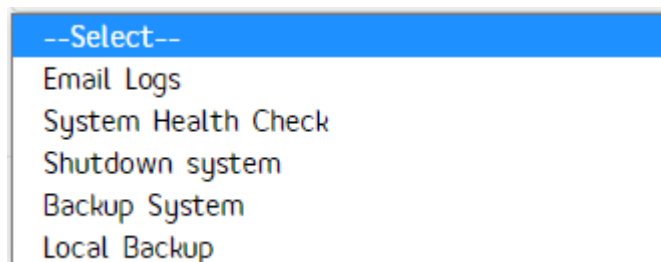
Scheduler List <span>Add</span>											
Select Time zone <span>Local</span>											
Show <span>10</span> entries <span>Search:</span>											
Name	Start Time	Start Date	End Date	Type	Source Vol	Dest Vol	Server	Frequency	Status	%Status	Actions
schedule1	15:50	06/08/2021	06/08/2021	Backup System	Vol2	null		Once Only	stopped	0	<a>Edit</a> <a>Delete</a> <a>Info</a>
schedule2	15:50	06/07/2021	06/07/2021	Start File Backup Schedule	Vol2	Vol1		Once Only	stopped	0	<a>Edit</a> <a>Delete</a> <a>Info</a>
Showing 1 to 2 of 2 entries										<a>Previous</a> <span>1</span> <a>Next</a>	

Figure 7 1: Scheduler list

### 7.1 Adding Schedule

To add a new schedule, we need to specify the following attributes:

- **Schedule Name**
- **Frequency:** One of – Once only, Hourly, Daily, Weekly, Monthly
- **Start Time**
- **Start Date**
- **End Date**
- **Action:** Actions to choose from are shown below



User can perform any action from the above – Email logs, SHC, Shutdown and Backup system actions are simple to Schedule.

Scheduler	
Schedule Name	Email_LOGS
Frequency	Daily
Start Time	14:36
Start Date	04/01/2023
End Date	04/01/2023
Action	Email Logs

Figure 7 2: Add Schedule

Email Logs – Logs will be emailed to the email addresses based on the Emails configured in the Setup – Email services.

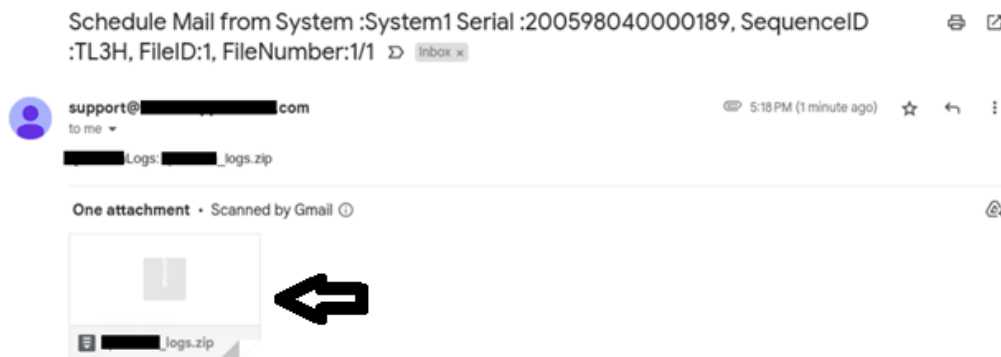


Figure 7 3: Logs in Email

System Health Check – System will check for the Health of all the elements information and sends an email with a report generated.

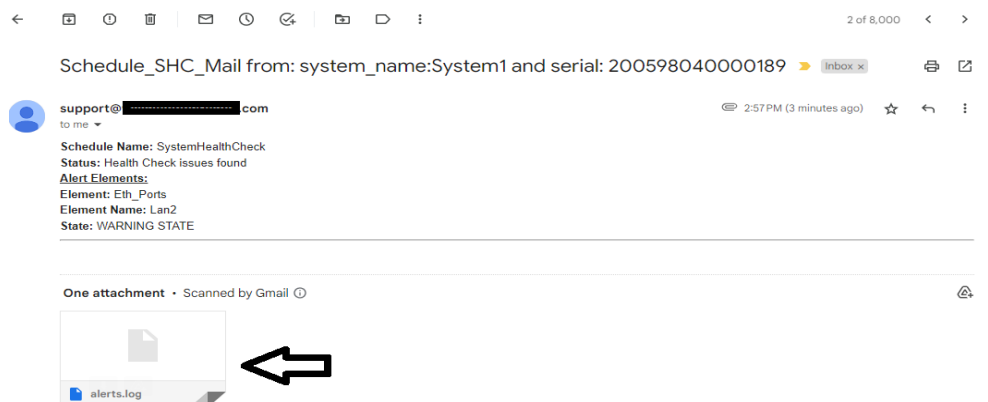


Figure 7 4: Email SHC

### 7.1.1 Add Schedule Local Backup

This section allows user to schedule a local backup task at any desired time.

**Cheetah RAID STORAGE** Apr 2, 2023, 20:33 Europe/London admin My account

**Set-Up** **Host Server** **Volume Manager** **Status** **Schedule**

**Scheduler** [Scheduler List](#)

Schedule Name:

Frequency:

Start Time:

Start Date:

End Date:

Action:

Show 10 entries Search:

Name	Type	Created Date	Status	Source Vol	Destination Vol
backup	Native	2023-03-31	Running		<input checked="" type="checkbox"/> backup
nfs1	Native	2023-03-31	Running	<input checked="" type="checkbox"/> nfs1	
rick	Native	2023-03-31	Running	<input type="checkbox"/> rick	
test	Native	2023-03-31	Running	<input type="checkbox"/> test	
test2	Native	2023-03-31	Running	<input type="checkbox"/> test2	

Showing 1 to 5 of 5 entries [Previous](#) **1** [Next](#)

[Confirm](#) [Cancel](#)

Figure 7 5: Add local backup schedule

To add a new schedule, user need to specify the following attributes:

- **Schedule Name**
- **Frequency:** One of – Once only, Hourly, Daily, Weekly, Monthly
- **Start Time:** Start time should not be before current time
- **Start Date:** Start Date should not be before current date
- **End Date:**
- **Action:** Local Backup
- **Source Volume:** Select a source volume and select single or multiple Dir's which needs backup.
- **Destination Volume:** Select a destination volume – User won't be able to select the Dir's here.



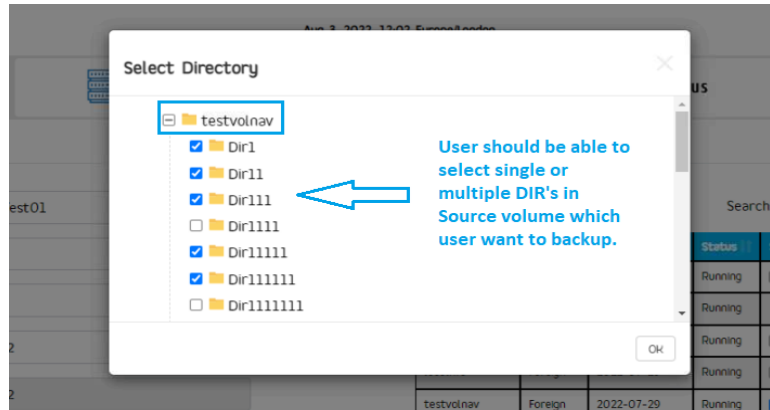


Figure 7 6: Source Volume popup with Dir's listed

### 7.1.2 Edit Scheduler 'Local Backup'

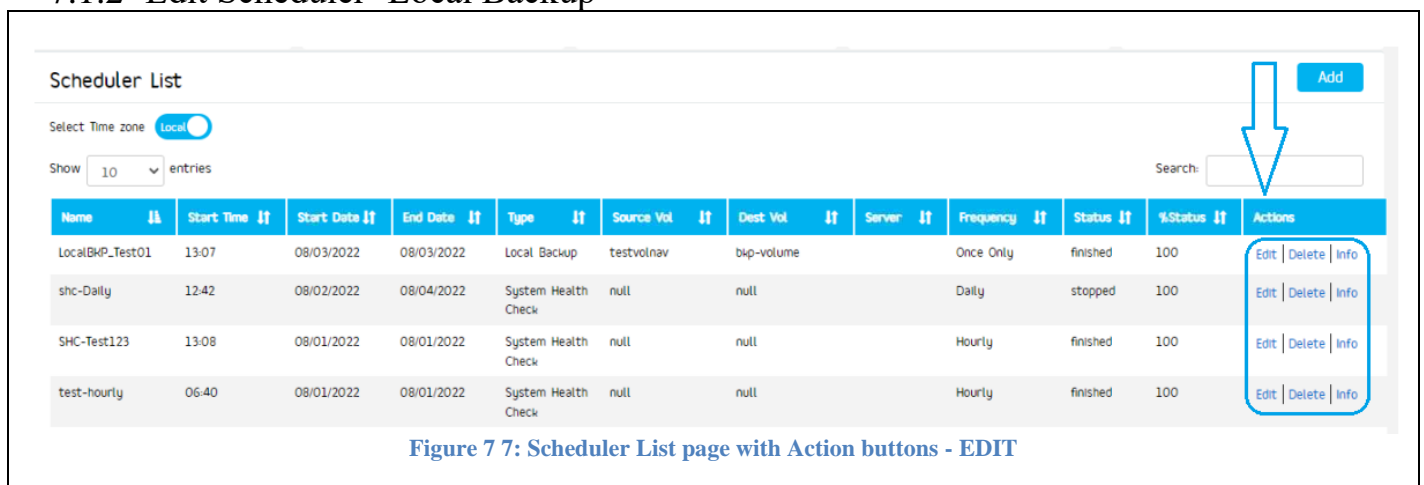


Figure 7 7: Scheduler List page with Action buttons - EDIT

This page has access to view Schedule details and Action buttons Edit, Delete and Info of a Schedule

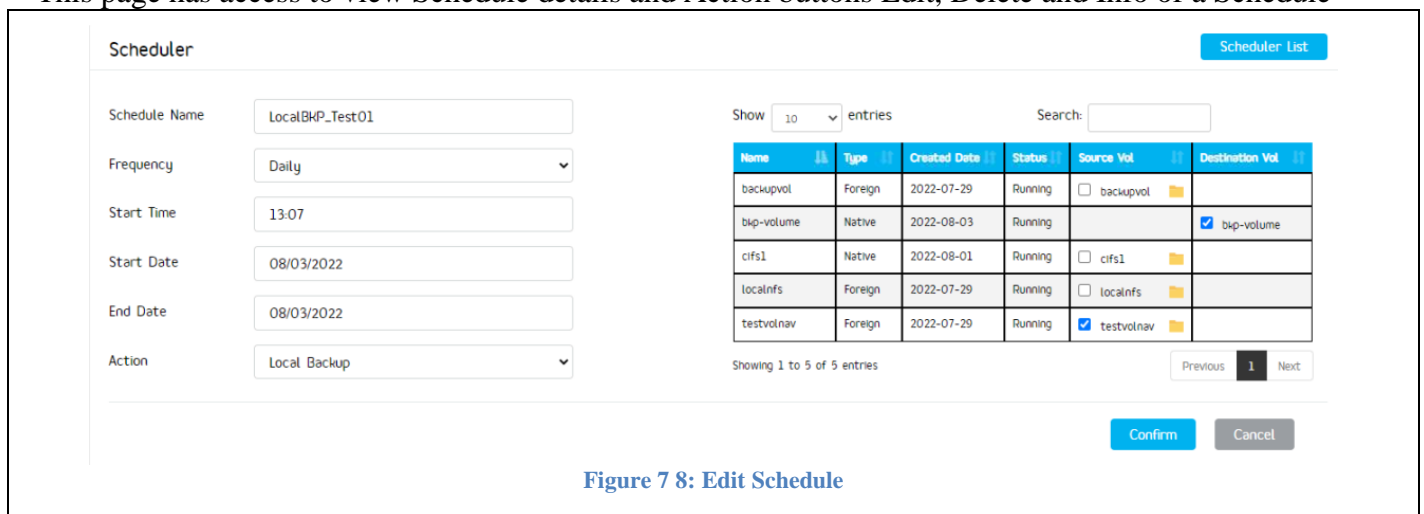
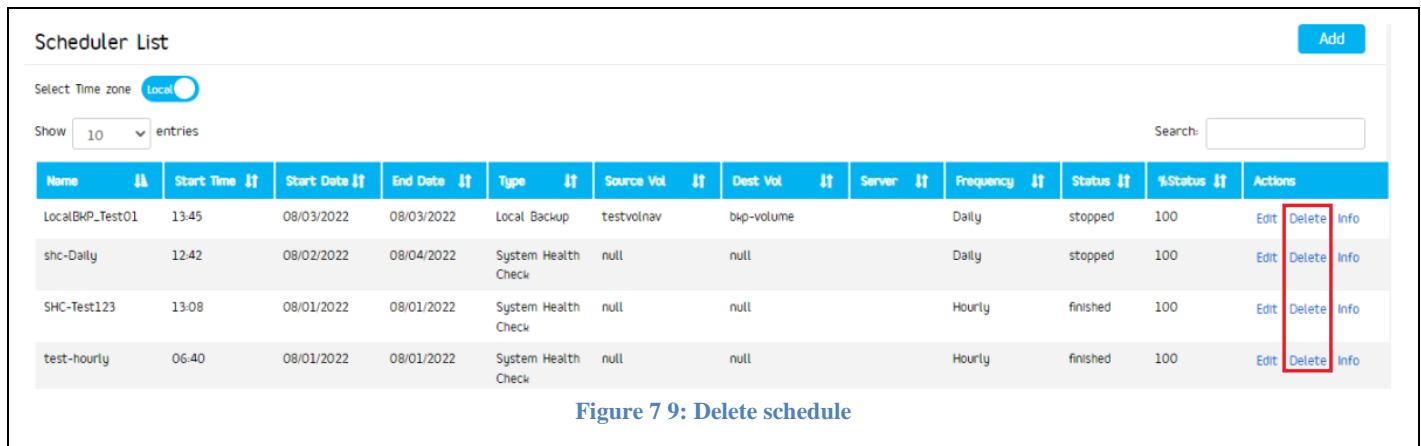


Figure 7 8: Edit Schedule

User can Edit whichever field they want to and Source and Destination volumes

### 7.1.3 Delete Scheduler ‘Local Backup’



**Scheduler List**

Select Time zone: Local

Show 10 entries

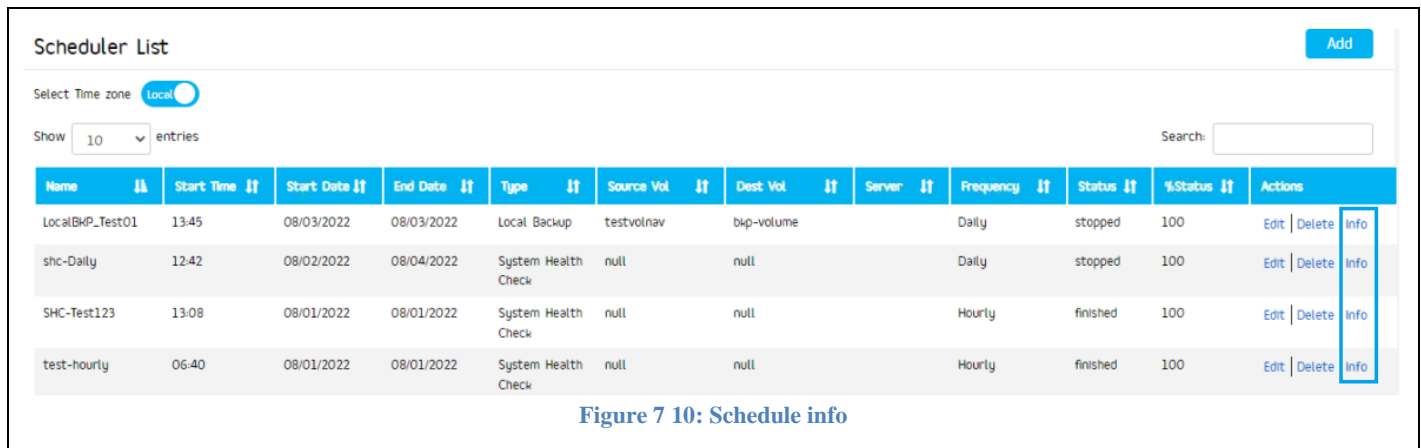
Search:

Name	Start Time	Start Date	End Date	Type	Source Vol	Dest Vol	Server	Frequency	Status	%Status	Actions
LocalBKP_Test01	13:45	08/03/2022	08/03/2022	Local Backup	testvolnav	bip-volume		Daily	stopped	100	Edit   <b>Delete</b>   Info
shc-Daily	12:42	08/02/2022	08/04/2022	System Health Check	null	null		Daily	stopped	100	Edit   Delete   Info
SHC-Test123	13:08	08/01/2022	08/01/2022	System Health Check	null	null		Hourly	finished	100	Edit   Delete   Info
test-hourly	06:40	08/01/2022	08/01/2022	System Health Check	null	null		Hourly	finished	100	Edit   Delete   Info

**Figure 7 9: Delete schedule**

This page has access to view Schedule details and Action buttons Edit, Delete and Info of a Schedule

### 7.1.4 Scheduler Info ‘Local Backup’



**Scheduler List**

Select Time zone: Local

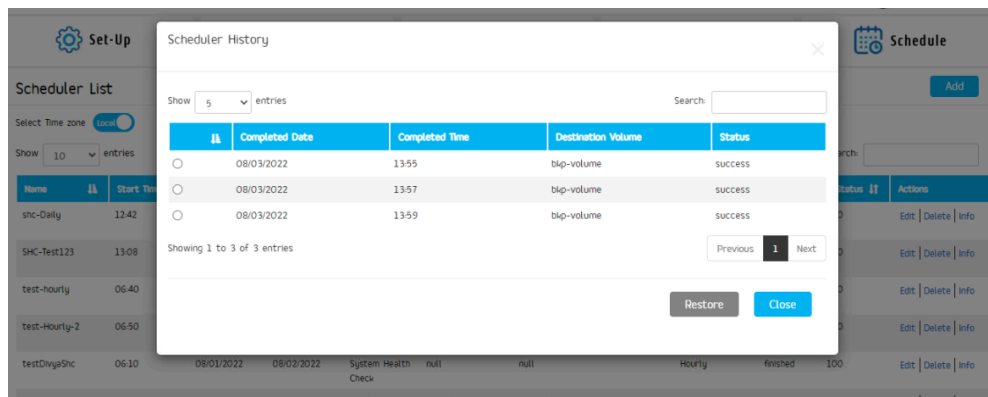
Show 10 entries

Search:

Name	Start Time	Start Date	End Date	Type	Source Vol	Dest Vol	Server	Frequency	Status	%Status	Actions
LocalBKP_Test01	13:45	08/03/2022	08/03/2022	Local Backup	testvolnav	bip-volume		Daily	stopped	100	Edit   Delete   <b>Info</b>
shc-Daily	12:42	08/02/2022	08/04/2022	System Health Check	null	null		Daily	stopped	100	Edit   Delete   Info
SHC-Test123	13:08	08/01/2022	08/01/2022	System Health Check	null	null		Hourly	finished	100	Edit   Delete   Info
test-hourly	06:40	08/01/2022	08/01/2022	System Health Check	null	null		Hourly	finished	100	Edit   Delete   Info

**Figure 7 10: Schedule info**

This page has access to view Schedule details and Action buttons Edit, Delete and Info of a Schedule to get the schedule history



**Scheduler History**

Show 5 entries

Search:

	Completed Date	Completed Time	Destination Volume	Status
<input type="radio"/>	08/03/2022	13:55	bip-volume	success
<input type="radio"/>	08/03/2022	13:57	bip-volume	success
<input type="radio"/>	08/03/2022	13:59	bip-volume	success

Showing 1 to 3 of 3 entries

Previous 1 Next

Restore Close

## Chapter 8

### My Account

User has three options Profile, Documentation and Logout.

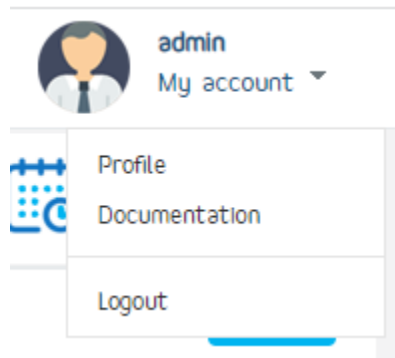


Figure 8 1: My Account dropdown

#### 8.1 Profile

User able to update the fields below in this page except User name and SystemID.

##### My Profile

User Name	admin
First Name	admin
Last Name	A
Email Address	user@example.com
Password	.....
Phone	1234512345
System Id	206744530000298

Figure 8 2: Profile page

## 8.2 Documentation

Documentation button will open up the document in a new window.

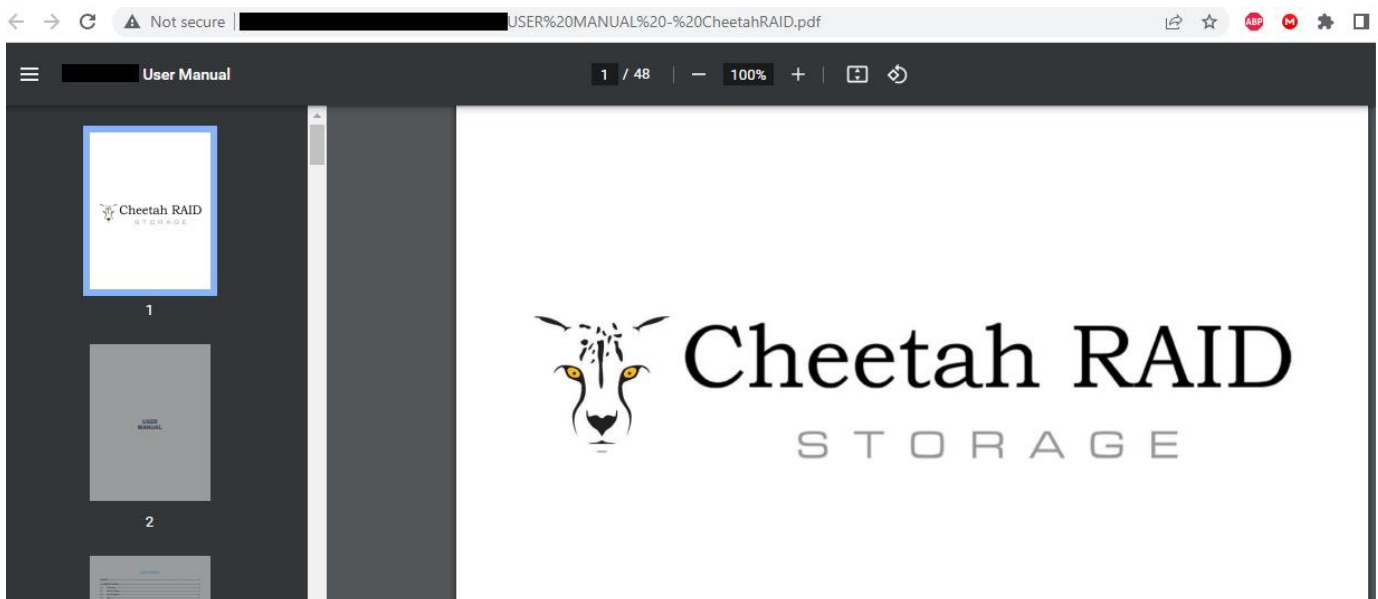


Figure 8 3: Document

## 8.3 Logout

User will be logged out of the portal and redirected back to the Login screen.

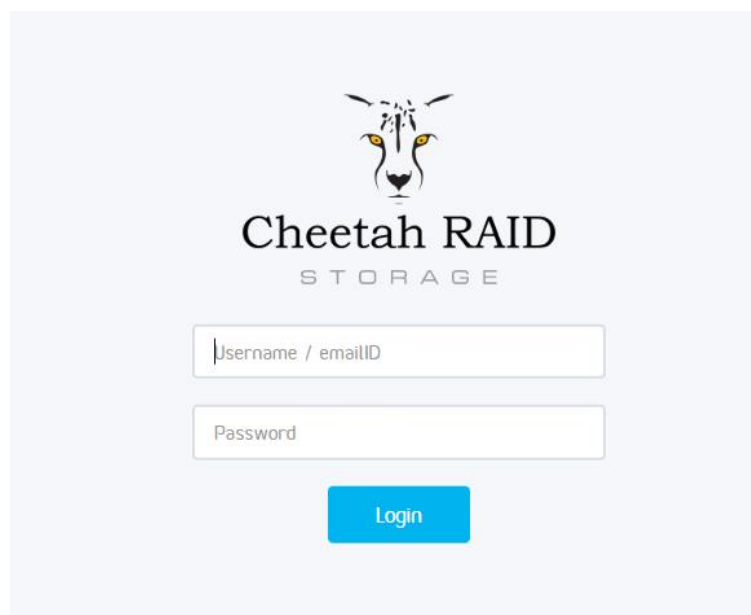


Figure 8 4: Login screen

## Chapter 9

### Frequently Asked Questions

#### 9.1 Default BMC IP Address and Login Credentials

BMC IP Address is 192.168.30.5

Username – admin

Password – superuser

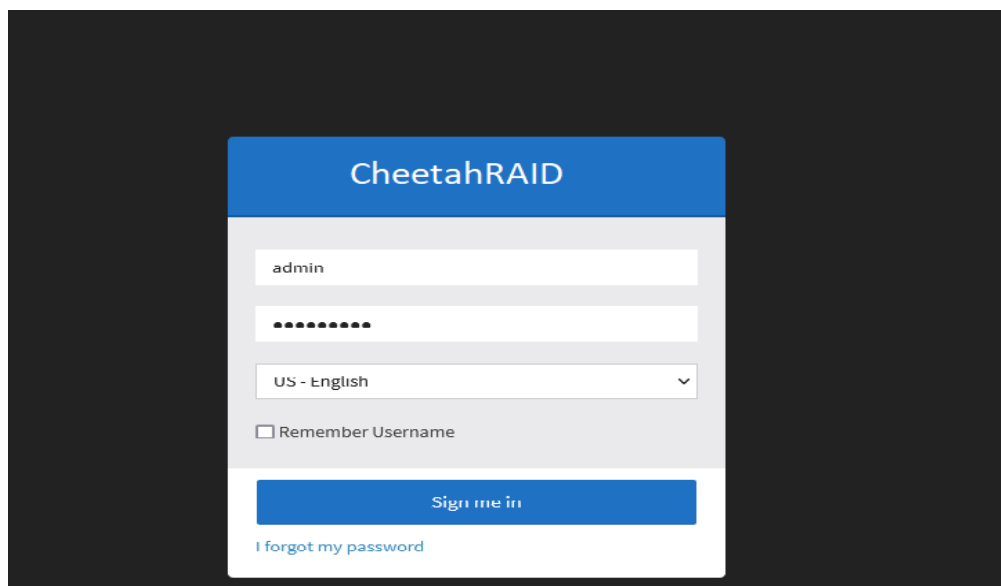


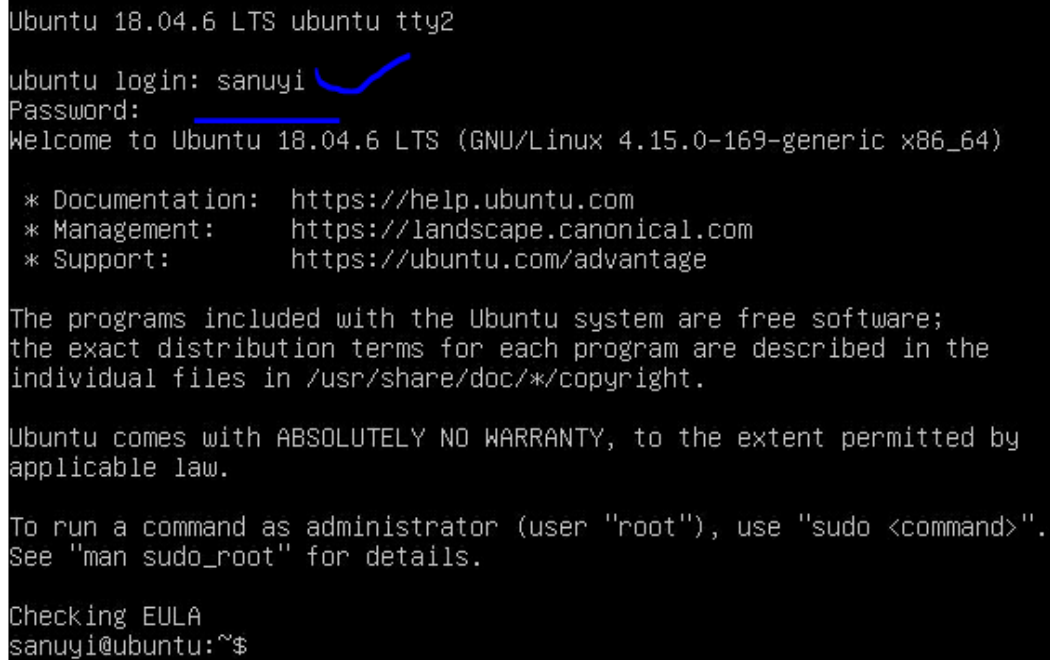
Figure 9 1: BMC Login screen

## 9.2 SSH Login Credentials

SSH user credentials are always valid

Username – sanuyi

Password – hello123



```
Ubuntu 18.04.6 LTS ubuntu tty2
ubuntu login: sanuyi
Password:
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 4.15.0-169-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

Checking EULA
sanuyi@ubuntu:~$
```

Figure 9 2: SSH Login screen

## 9.3 Default GUI Login Credentials

Username – admin

Password – p13as3h1d3m3

Once the user logs in with the default user/password, they should acknowledge EULA and forced to change the password. Once this password is changed the default password is no longer valid.

Agree EULA

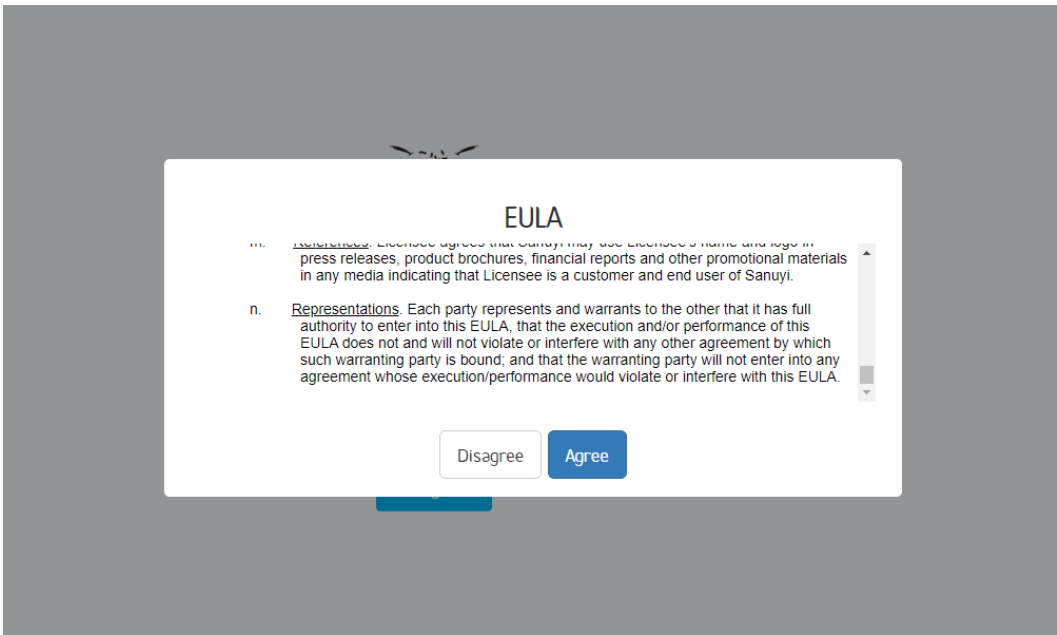


Figure 9 3: EULA screen

Reset Password

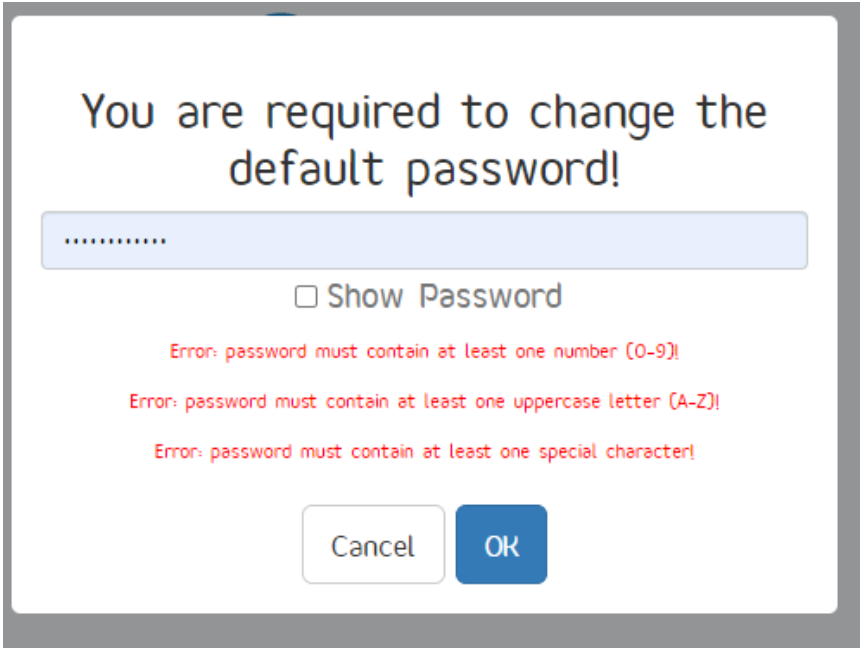


Figure 9 4: Password reset popup