

Quantum[®]

USER MANUAL

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Chapter 1

Login

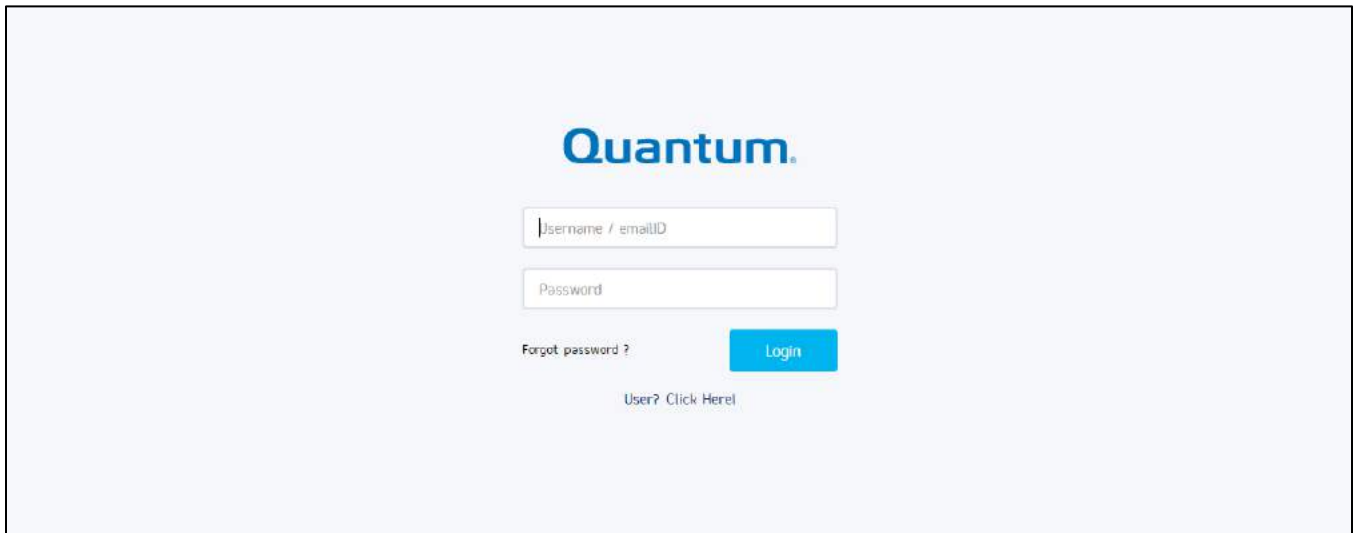


Figure 1.1: Login Page

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:

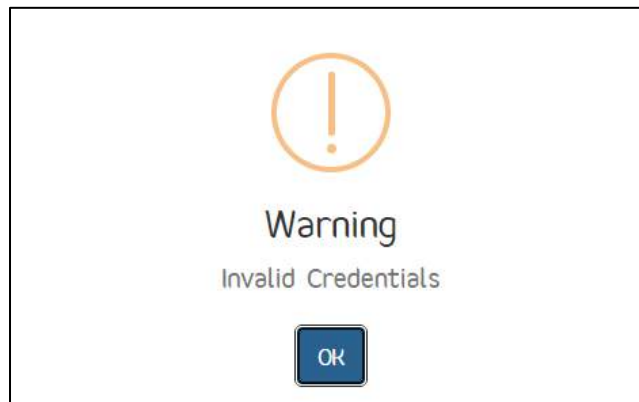


Figure 1.2: Invalid Credential Warning

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

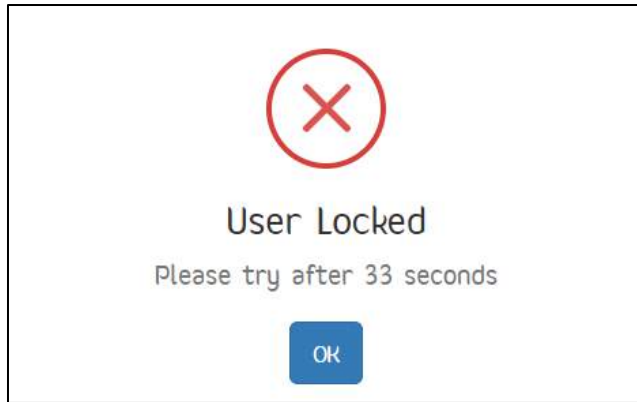


Figure 1.3: User Locked Error

Chapter 2

Landing Page

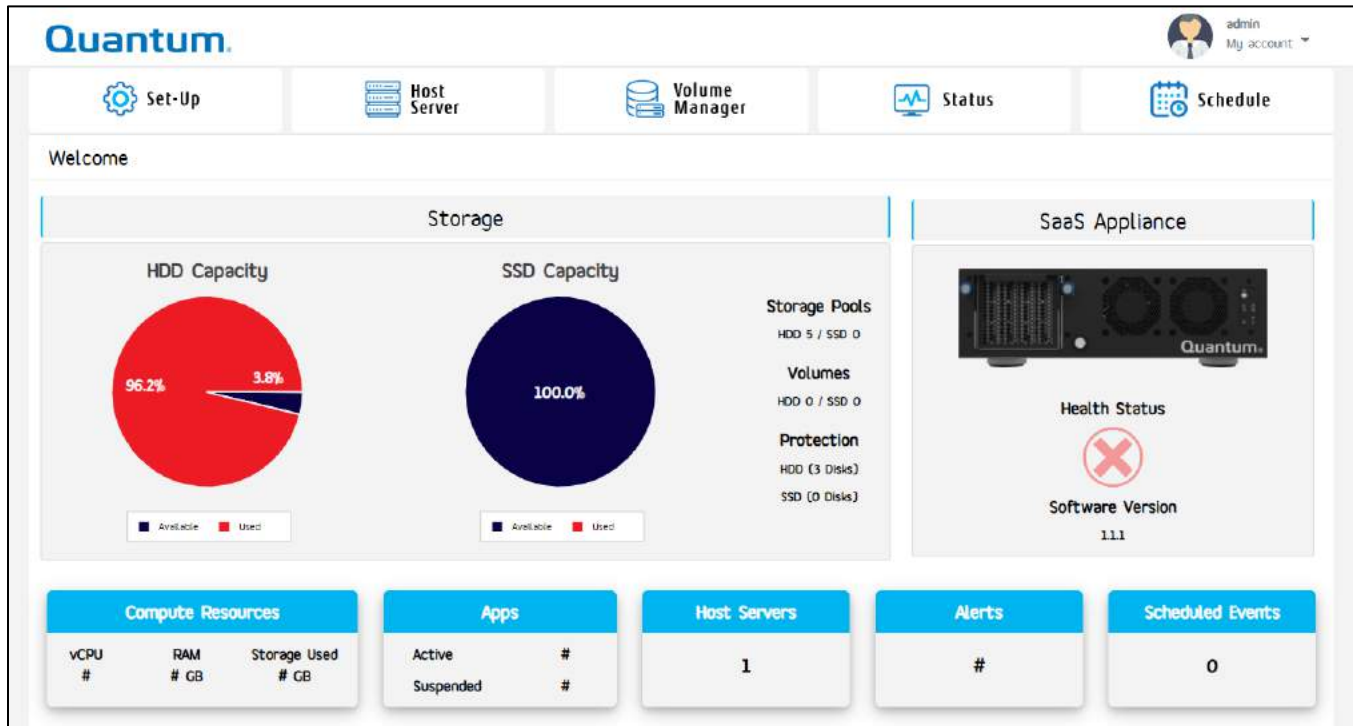


Figure 2.1: Landing Page

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

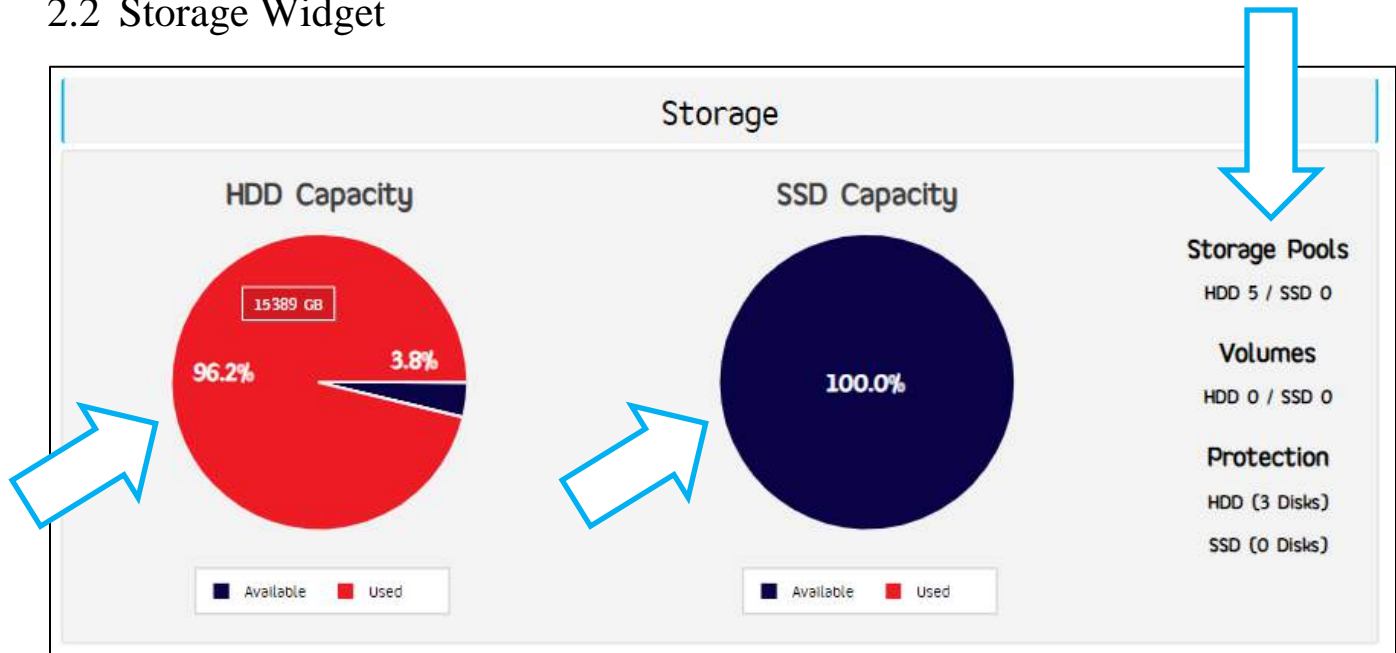


Figure 2.3: Storage Widget

This widget provides brief information on the storage pools. Details like number of pools, number of volumes associated with pools and protected pools are shown in here. Also, a chart representing the usage of the HDD & SSD capacity is shown.

On-click: Takes you to storage pool setup page

2.3 SaaS Appliance

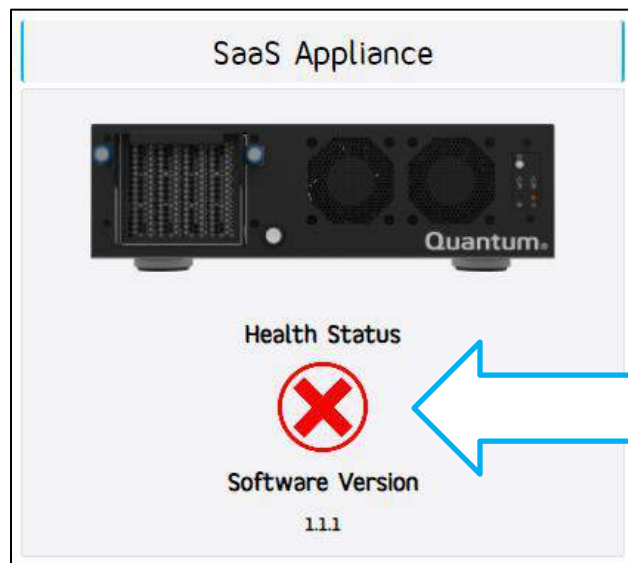


Figure 2.4: SaaS Appliance

This section provides information on the status of the SaaS Appliance. The health status icon displayed here shows the status of the appliance.

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



OK



Warning



Alert

Onclick: Takes you to the status page.

2.4 Stats



Figure 2.5: 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

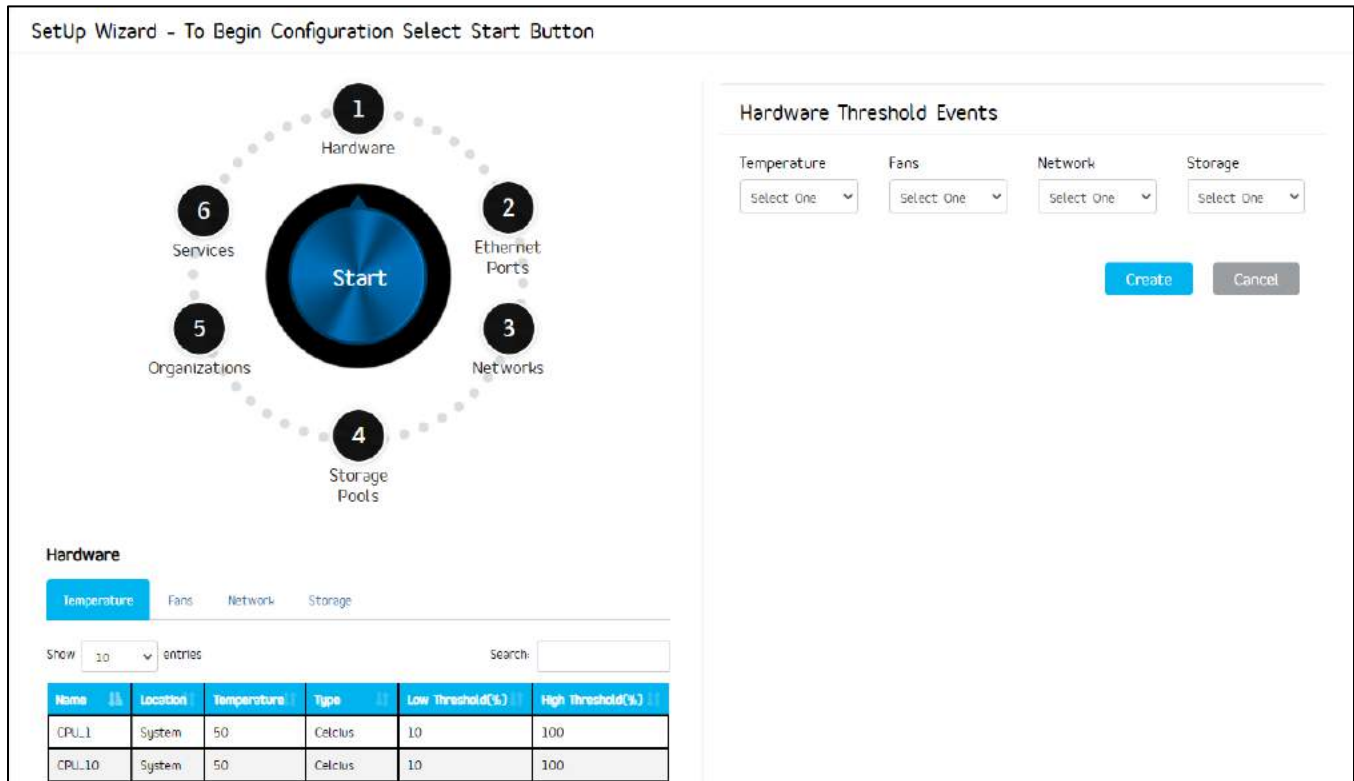


Figure 3.1: Set-Up Page

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:

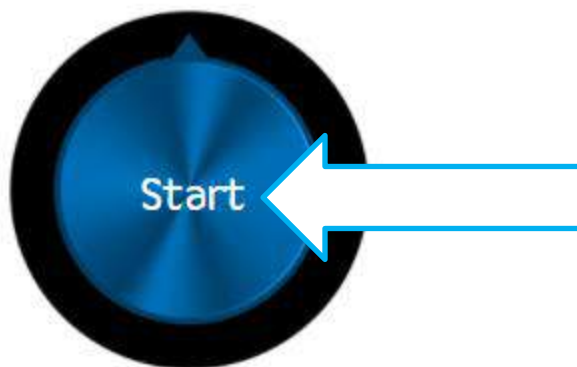


Figure 3.2: Start Dial

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

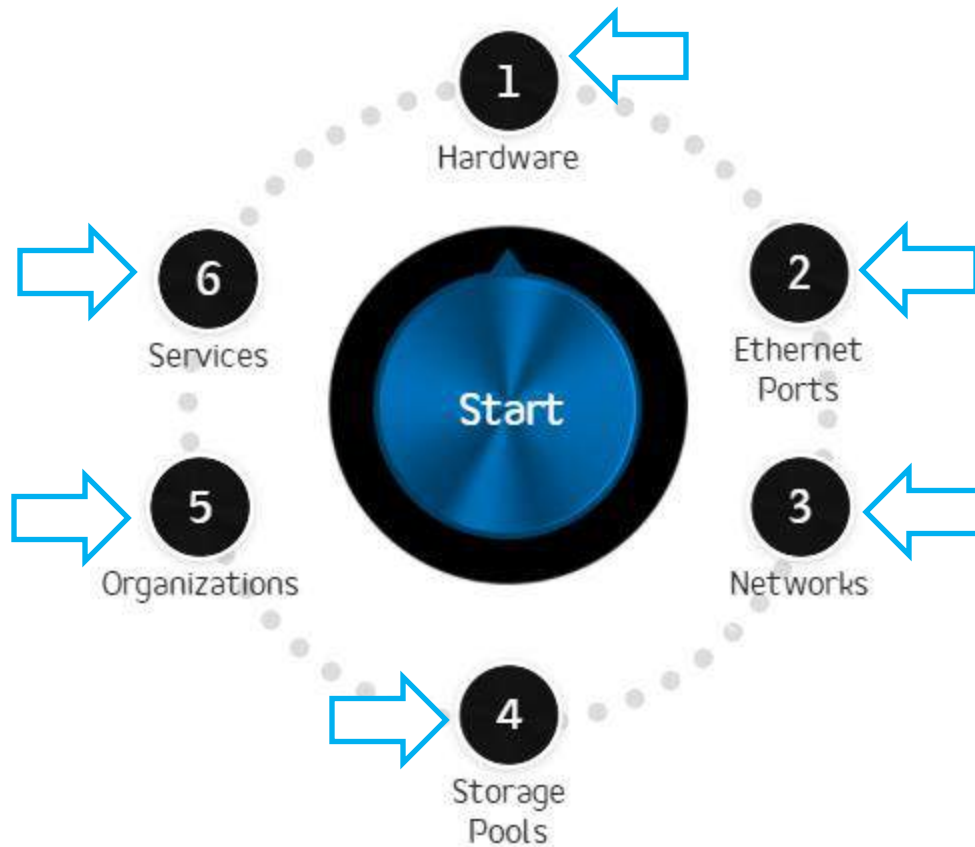


Figure 3.3: Set-Up Sections

3.1 Hardware

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

Hardware Threshold Events

Temperature

Select One ▾

Fans

Select One ▾

Network

Select One ▾

Storage

Select One ▾

Create

Cancel

Figure 3.4: Hardware Set-Up

- 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**.

Temperature - CPU_21
✕

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

Confirm
Cancel

Figure 3.5: Hardware Pop-Up

3.2 Ethernet Ports

In this section we configure the ethernet ports with the following inputs for **Management Port**:

- IP Address
- Subnet Mask
- Default Gateway
- DNS Server
- Enabling DHCP

For **LAN and WAN ports**, we input:

- IP Address
- Netmask
- whether to enable ports or not
- whether to enable DHCP or not

MGT Port

LAN Port

WAN Port

Admin Port

Management Port



IP Address

Subnet Mask

Default Gateway

DNS Server

Enable DHCP ☐ Yes ☒ No

Confirm

Cancel

Next

Figure 3.6: Ethernet Ports Set-Up

3.3 Networks

In this section we add, edit and delete networks. Each network has the following attributes:

- Name
- CIDR - Classless Inter-Domain Routing
- DHCP - Dynamic Host Configuration Protocol

Setup Wizard - Networks - Add

Add a Network ?

Name

CIDR

Enable DHCP ☐ Yes ☒ No

Figure 3.7: Networks Set-Up

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: One of HDD, MegaRAID, NVMeOF, SSD or iSCSI
- Name of the pool
- Compression
- SSD Acceleration
- Deduplication
- Storage Percentage
- SSD Percentage
- Storage Protection

Setup Wizard - Storage Pools Add Edit Delete

Select Pool ▼ Pool Alias Name

☐ Compression ☐ SSD acceleration ☐ Deduplication

HDD Percentage

SSD % Used For HDD Pool Acceleration/Cache

Single Double
None Triple

Figure 3.8: Storage Pools Set-Up

3.5 Organization

In this section we organize the organization by creating, editing and deleting groups, roles and people. For organizing the organization, there are 4 sections.

- Groups
- Organize
- Role
- People

3.5.1 Groups

Used to configure groups within the organization.

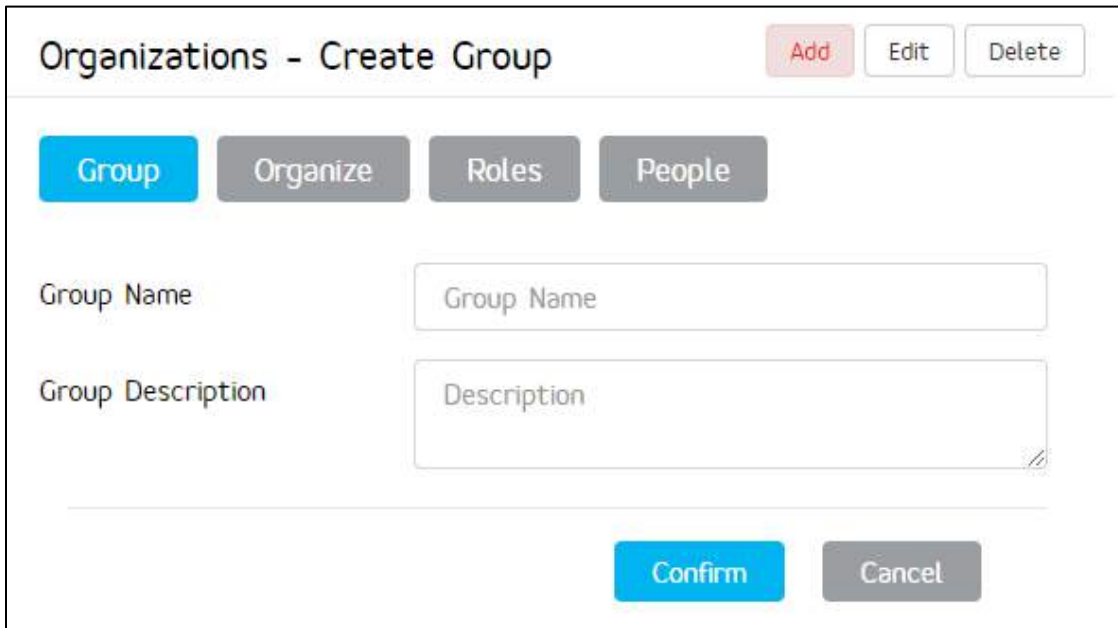


Figure 3.9: Group Set-Up

3.5.2 Organize

Used to organize different groups, roles and people. It is used to create an organization chart as shown below.

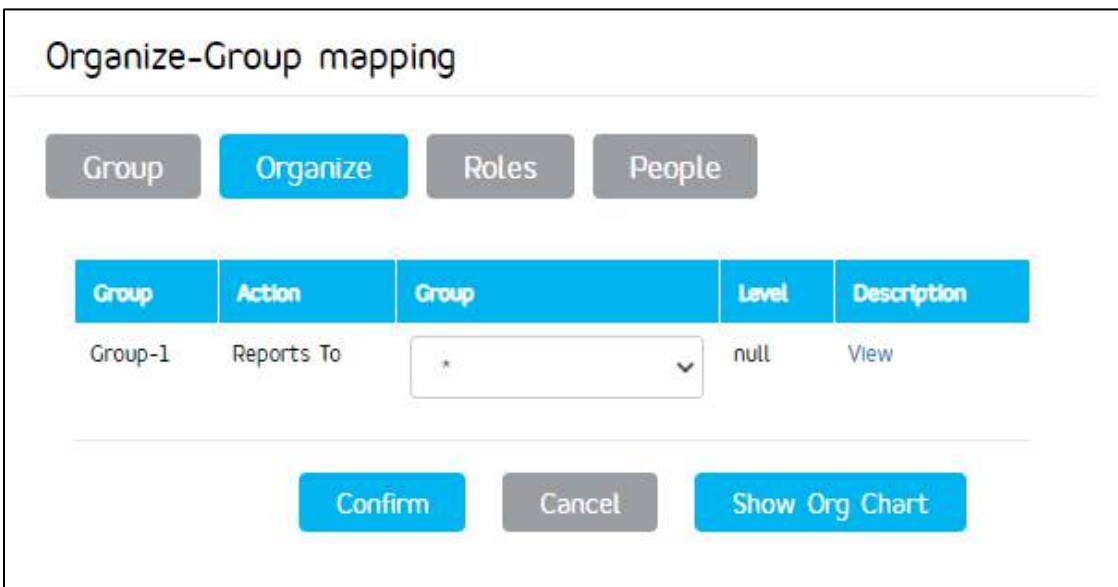


Figure 3.10: Group Mapping Set-Up

3.5.2.1 Organization chart



Figure 3.11: Organization Chart

3.5.3 Roles

Used to create roles and link it with a group.

Figure 3.12: Role Set-Up

3.5.4 People

Used to create different users and organize them appropriately into the company.

Organizations - Create People
Add Edit Delete

Group Organize Roles People

Select User username-Firstname-Lastname


First Name Firstname

Middle Name Middle

Last Name Lastname

Profile Image

Choose File - username.png



User Name username

Password

Role Role-1 Add to Role

Group Role-1@Group-1 Add to Group

Manager admin-admin-A Show Roles

Contact Email email@email.com

Contact Phone 9876543211

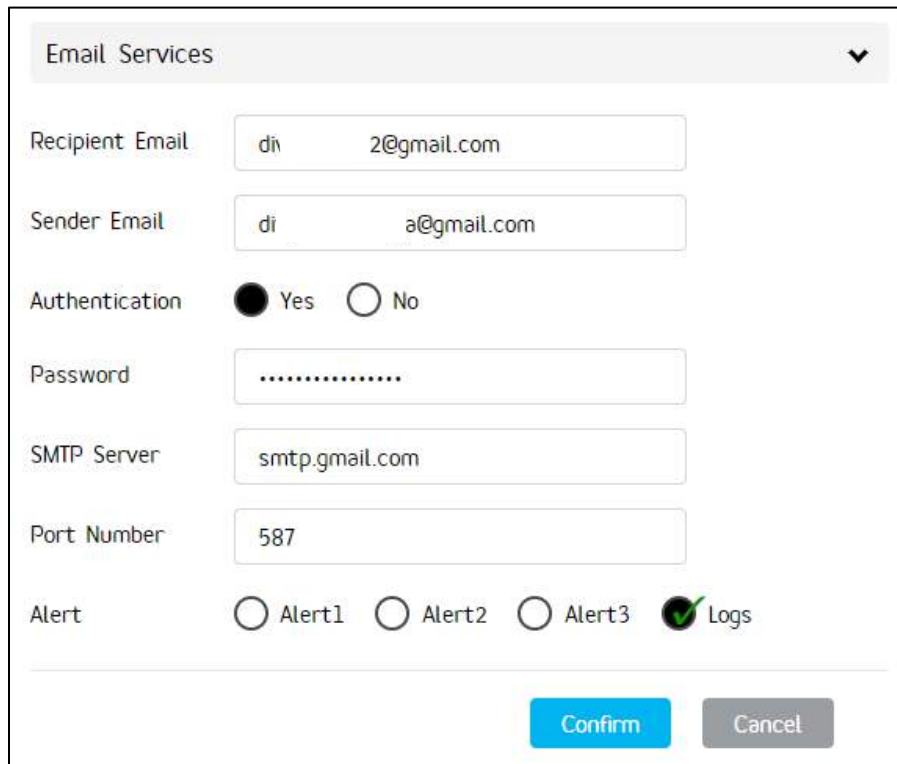
Figure 3.13: Person Set-Up

3.6 Services

Used to configure multiple services like email, backup, CBA, KMIP and time services.

3.6.1 Email Services

Configure email to get alerts and log details.



The 'Email Services' dialog box contains the following fields and options:

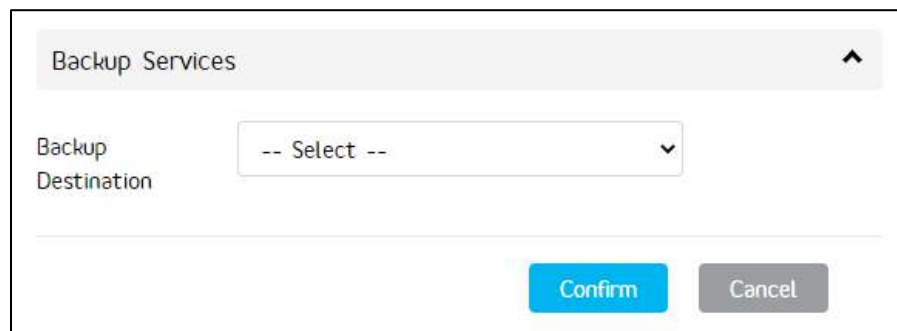
- Recipient Email:** di 2@gmail.com
- Sender Email:** di a@gmail.com
- Authentication:** ☒ Yes ☐ No
- Password:**
- SMTP Server:** smtp.gmail.com
- Port Number:** 587
- Alert:** ☐ Alert1 ☐ Alert2 ☐ Alert3 ☒ Logs

Buttons: Confirm, Cancel

Figure 3.14: Email Services

3.6.2 Backup Services

Used to configure the backup services.



The 'Backup Services' dialog box contains the following field:

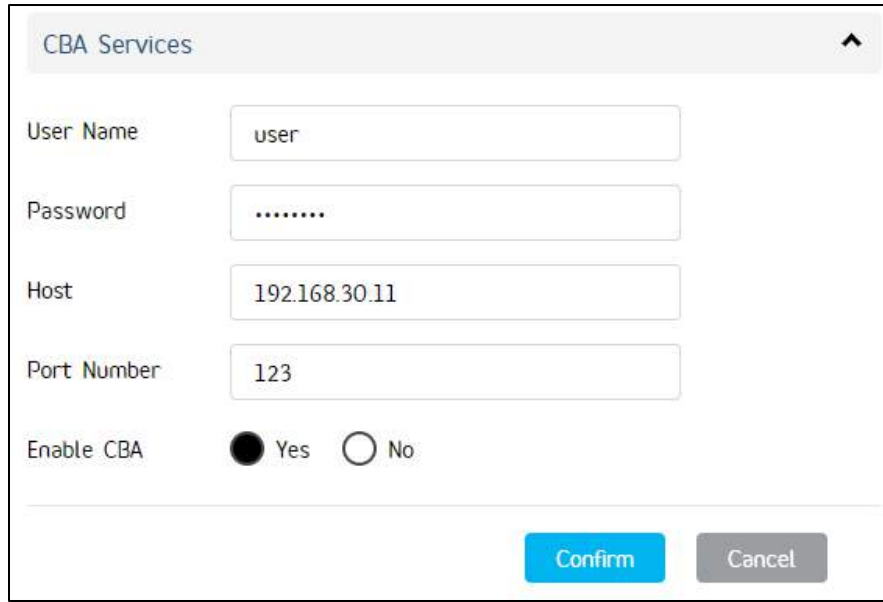
- Backup Destination:** -- Select --

Buttons: Confirm, Cancel

Figure 3.15: Backup Services

3.6.3 CBA Services

Used to configure the CBA to be able to send reports.

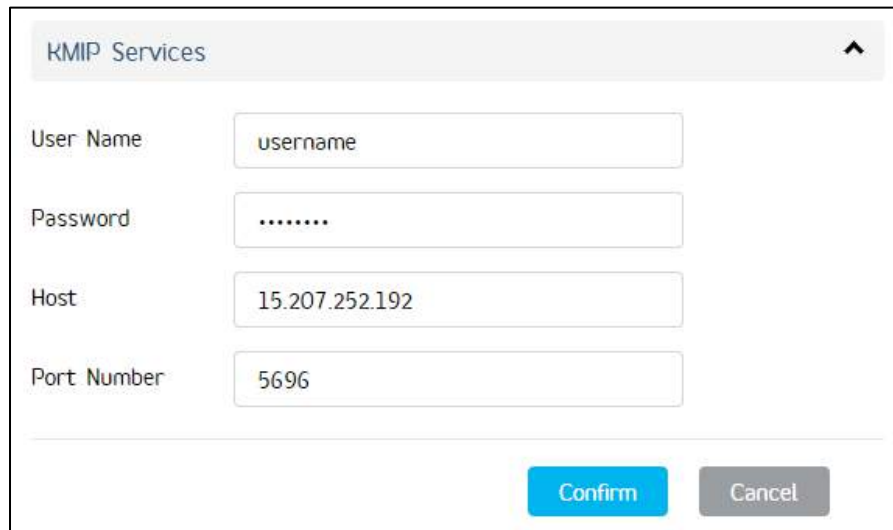


A configuration dialog titled "CBA Services" with a close button (upward arrow) in the top right corner. It contains five input fields: "User Name" with the value "user", "Password" with masked characters ".....", "Host" with the value "192.168.30.11", and "Port Number" with the value "123". Below these is a radio button group for "Enable CBA" with "Yes" selected. At the bottom right are "Confirm" and "Cancel" buttons.

Figure 3.16: CBA Services

3.6.4 KMIP Services

Used to configure the KMIP services for key management.

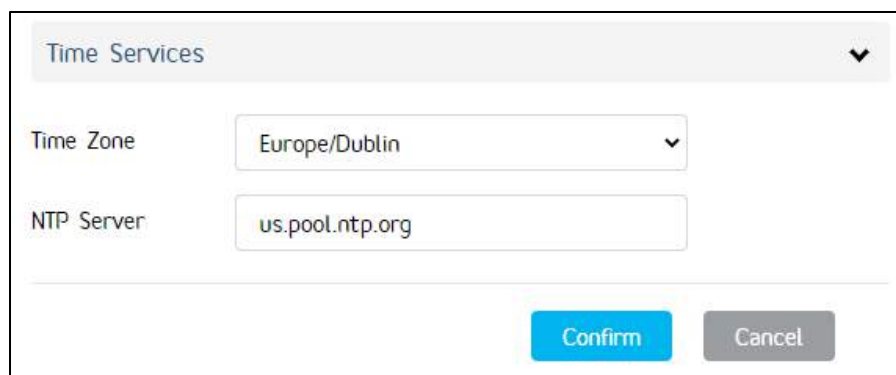


A configuration dialog titled "KMIP Services" with a close button (upward arrow) in the top right corner. It contains four input fields: "User Name" with the value "username", "Password" with masked characters ".....", "Host" with the value "15.207.252.192", and "Port Number" with the value "5696". At the bottom right are "Confirm" and "Cancel" buttons.

Figure 3.17: KMIP Services

3.6.5 Time Services

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



The image shows a configuration window titled "Time Services" with a dropdown arrow on the right. Inside the window, there are two settings: "Time Zone" with a dropdown menu showing "Europe/Dublin" and a small downward arrow, and "NTP Server" with a text input field containing "us.pool.ntp.org". At the bottom right of the window are two buttons: a blue "Confirm" button and a grey "Cancel" button.

Time Services	
Time Zone	Europe/Dublin
NTP Server	us.pool.ntp.org
<div>Confirm Cancel</div>	

Figure 3.18: Time Services

Chapter 4

Host Server



Used to manage and configure different host servers.

Host Server

Show 5 entries

Search:

	Name	Host Type	Protocol	User Name / IQN	Password	IPs	WWN	URL
<input type="radio"/>	tstbip	Backup Server	NFS	test	test			
<input type="radio"/>	testHost	Storage Manager	NFS	User	Pass			

Showing 1 to 2 of 2 entries

Previous 1 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**
- **Protocol:** One of CIFS, NFS, iSCSI-Chap, iSCSI-NoChap, FTP or FC
- **Username / IQN, Password**
- **Allowed IPs**
- **URL**
- **WWN**

Host Server

Add Edit Delete

Host Server (Field Config / Value)

Host Type: --Select--

Host Name: Name

Protocol: -- Select --

User Name / IQN: User Name

Password: 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"/>	tstbip	Backup Server	NFS	test	test			
<input type="radio"/>	testHost	Storage Manager	NFS	User	Pass			

Showing 1 to 2 of 2 entries

Previous 1 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

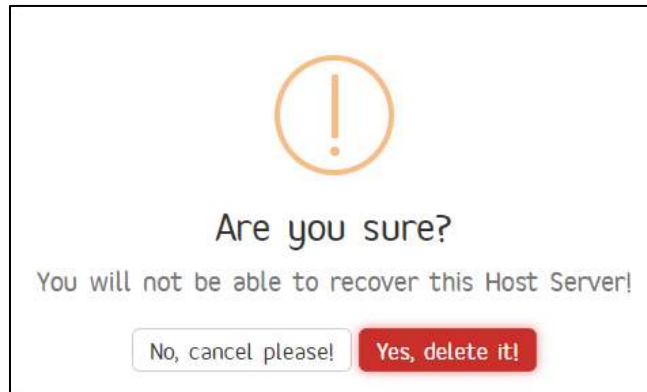


Figure 4.3: Deleting Host Server

Chapter 5

Volume Manager



Volume Manager

Show 5 entries

	Name	Type	Volume/App	Size(GB)	Pool	LUN	Dedup	Compress	Backup Device	Protocol	Used by	Port	Action
<input type="radio"/>	Vol2	Native	Volume	10	p1	0	Yes	Yes	No	NFS	testHost	LAN1	OFF
<input type="radio"/>	Vol1	Native	Volume	10	p1	0	Yes	No	Yes	NFS	testHost	Management	ON

Showing 1 to 2 of 2 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:

- **Name**
- **Size**
- **LUN (Logical unit number)**
- **Deduplication, Compression, Backup Device**
- **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

Add Edit Delete

Volume Manager (Field Config / Value)

Name: Size(GB): Pool: LUN: Dedup: ☐ Compress: ☐ Backup device: ☐

Protocol: Host: Port:

Confirm Cancel

Show 5 entries

	Name	Type	Volume/App	Size(GB)	Pool	LUN	Dedup	Compress	Backup Device	Protocol	Used by	Port	Action
<input type="radio"/>	Vol2	Native	Volume	10	p1	0	Yes	Yes	No	NFS	testHost	LAN1	OFF
<input type="radio"/>	Vol1	Native	Volume	10	p1	0	Yes	No	Yes	NFS	testHost	Management	ON

Showing 1 to 2 of 2 entries

Previous 1 Next

Figure 5.2: Adding Volume Manager

5.2 Delete Volume Manager

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

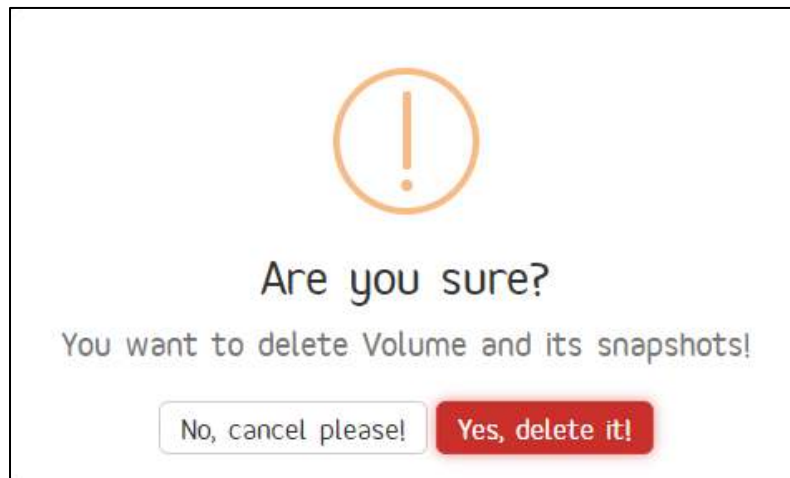


Figure 5.3: Deleting Volume Manager

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.

6.1.1 Fan Status

Fan Status View 🔄 ✕

Show entries Search:

Fan	State	Name	Speed	Location	Low Threshold	High Threshold
1	●	Fan#F1	1700	front-left	1000	1500
2	●	Fan#F2	5600	front-right	1000	1500
3	●	Fan#R1	5700	rear-right	1000	1500

Showing 1 to 3 of 3 entries Previous **1** Next

Figure 6.2: Fan Status

6.1.2 Temp Status

Temperature Status View 🔄 ✕

Show entries Search:

Temp	State	Name	Temp	Low Threshold	High Threshold
1	●	MotherBoard	29	10	65
2	●	Card	22	10	65
3	●	CPU	35	10	65
4	●	DDR-A1	27	10	65
5	●	DDR-A2	26	10	65
6	●	DDR-B1	27	10	65
7	●	DDR-B2	27	10	65
8	●	X570	41	10	65

Showing 1 to 8 of 8 entries Previous **1** Next

Figure 6.3: Temperature Status

6.1.3 CPU Status

CPU Status View 🔄 ✕

Show entries Search:

CPU	State	Name	Controller	Location	Cores	Cache Size	Temperature	Vendor	Model Number	Cpu(mhz)
1	●	CPU_1	Controller1	N/A	16	512 KB	50	AuthenticAMD	AMD Ryzen 9 3950X 16-Core Processor	2196.926
2	●	CPU_2	Controller1	N/A	16	512 KB	50	AuthenticAMD	AMD Ryzen 9 3950X 16-Core Processor	2199.774
3	●	CPU_3	Controller1	N/A	16	512 KB	50	AuthenticAMD	AMD Ryzen 9 3950X 16-Core Processor	2197.515
4	●	CPU_4	Controller1	N/A	16	512 KB	50	AuthenticAMD	AMD Ryzen 9 3950X 16-Core Processor	2198.104
5	●	CPU_5	Controller1	N/A	16	512 KB	50	AuthenticAMD	AMD Ryzen 9 3950X 16-Core Processor	2208.022

Showing 1 to 5 of 32 entries

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Figure 6.4: CPU Status

6.1.4 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

6.1.5 Network Status

Network Status View 🔄 ✕

Show entries Search:

Port	State	Name	Speed	IP	Netmask	Port id
1	●	LAN2	1000	192.168.30.13	255.255.255.0	1
2	●	LAN3	1000	192.168.30.10	255.255.255.0	1
3	●	LAN1	1000	192.168.30.12	255.255.255.0	1
4	●	Management	1000	192.168.30.13	255.255.255.0	1
5	●	LAN4	1000	192.168.30.11	255.255.255.0	1

Showing 1 to 5 of 7 entries Previous **1** 2 Next

Figure 6.6: Network Status

6.1.6 Alerts & Logs

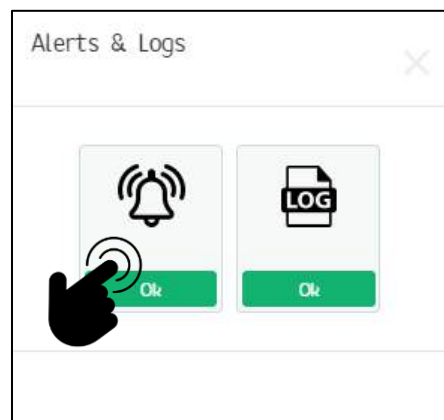


Figure 6.7: Alerts & Logs

6.1.6.1 Alerts

System Alerts Back

Start Date End Date Log Type Search

Show entries Search:

Date Time	Element	Element Name	Log Level	State	Action	Message
20/05/2021-11:47:37	server	timer	70	ERROR	received	Cannot operate on a closed cursor.
20/05/2021-11:47:39	ftp		10	CRITICAL	ftp_thread	list index out of range
20/05/2021-11:48:10	ftp		10	CRITICAL	ftp_thread	list index out of range
20/05/2021-11:48:40	ftp		10	CRITICAL	ftp_thread	list index out of range
20/05/2021-11:49:41	ftp		10	CRITICAL	ftp_thread	list index out of range
20/05/2021-11:52:01	ftp		10	CRITICAL	ftp_thread	list index out of range

Figure 6.8: Alerts

6.1.6.2 Logs

System Logs

Back

Start Date

End Date

Max Log Level

Log Type

mm/dd/yyyy

mm/dd/yyyy

eg: 1 to 100

All

Search

Show

10

entries

Search:

Date Time	Element	Element Name	Log Level	Status	Action	Message
09/06/2021-18:00:44	server		21	INFO	test log	test
09/06/2021-18:01:40	Disk Thread	Disk	10	INFO	Disk_manager	Poll End
09/06/2021-18:04:15	Disk Thread	Disk	10	INFO	Task exceeded maximum timeout value (180 seconds)	Exception
09/06/2021-18:04:44	Disk Thread	Disk	10	INFO	Disk_manager	Poll End
09/06/2021-18:07:18	Disk Thread	Disk	10	INFO	Task exceeded maximum timeout value (180 seconds)	Exception
09/06/2021-18:07:48	Disk Thread	Disk	10	INFO	Disk_manager	Poll End

Figure 6.9: Logs

6.1.7 Storage Pools

Storage Pool View													Refresh
Show	5	entries											
Pool	State	Redundancy	Raid Level	Disk missing	Storage Capacity	Used Storage	Remaining Capacity	Compression	Dedup	Cache Read	Cache Write	Type	
Pool1	●	0.8	n/a	n/a	7680 GB	n/a	n/a	Yes	No	No	No	HDD POOL	
Showing 1 to 1 of 1 entries													Previous 1 Next











Figure 6.10: Storage Pool Status

6.1.8 Disks

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

Disk Status View ↻ ✕

Show entries Search:

Disk	State	Name	Type	Size	Vendor ID	Product ID	Pri	Serial#	Status	Action
slot X	●	wwn-0x600062b20...	SSD	14305	BROADCOM	MR9560-16i	5.16	600062b207...	OK	<input type="checkbox"/> OFF  
slot X	●	wwn-eui.0000000...	SSD	238	null	null	null	19382BE2F8...	OK	<input type="checkbox"/> OFF  
Can-1	●	wwn-3B5C80DED8D...	SSD	3575	NA	SAMSUNG MZWL...	EPK9AB5Q	S4YPNCOR20...	OK	<input type="checkbox"/> OFF  
Can-2	●	wwn-3B5C7EDED8D...	SSD	3575	NA	SAMSUNG MZWL...	EPK9AB5Q	S4YPNCOR20...	OK	<input type="checkbox"/> OFF  
Can-3	●	wwn-3B5C7FDED8D...	SSD	3575	NA	SAMSUNG MZWL...	EPK9AB5Q	S4YPNCOR20...	OK	<input type="checkbox"/> OFF  

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

Figure 6.11: Disks Status

6.1.8.1 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

6.2 Server Statistics

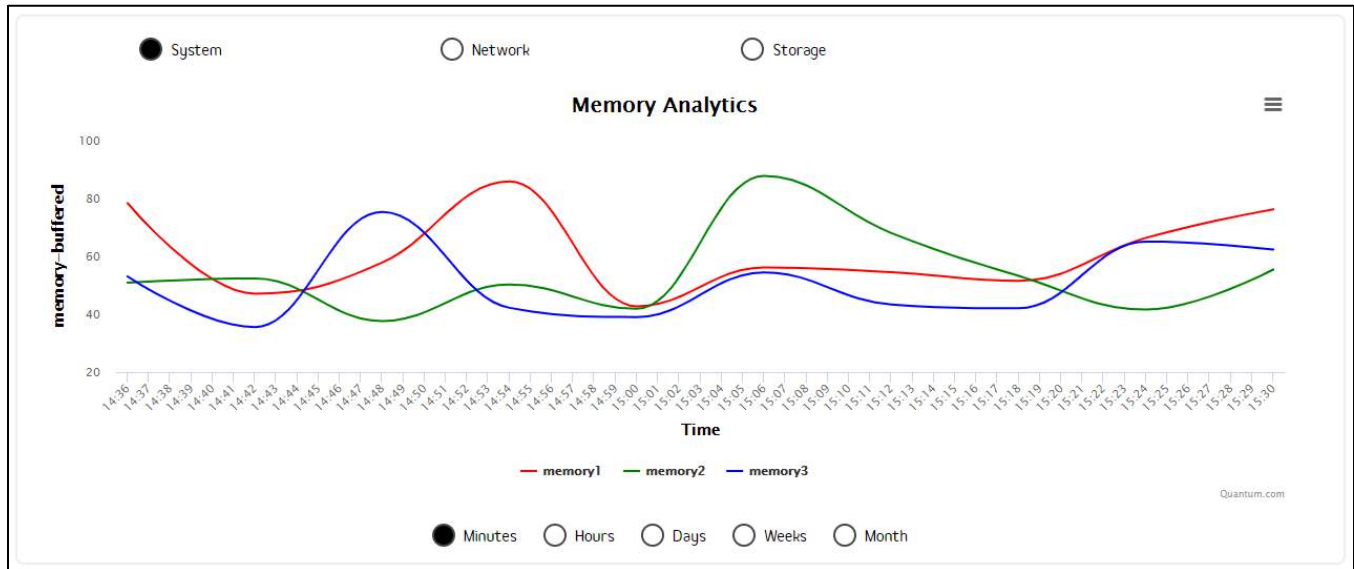


Figure 6.13: Server Stats Graph

6.2.1 System

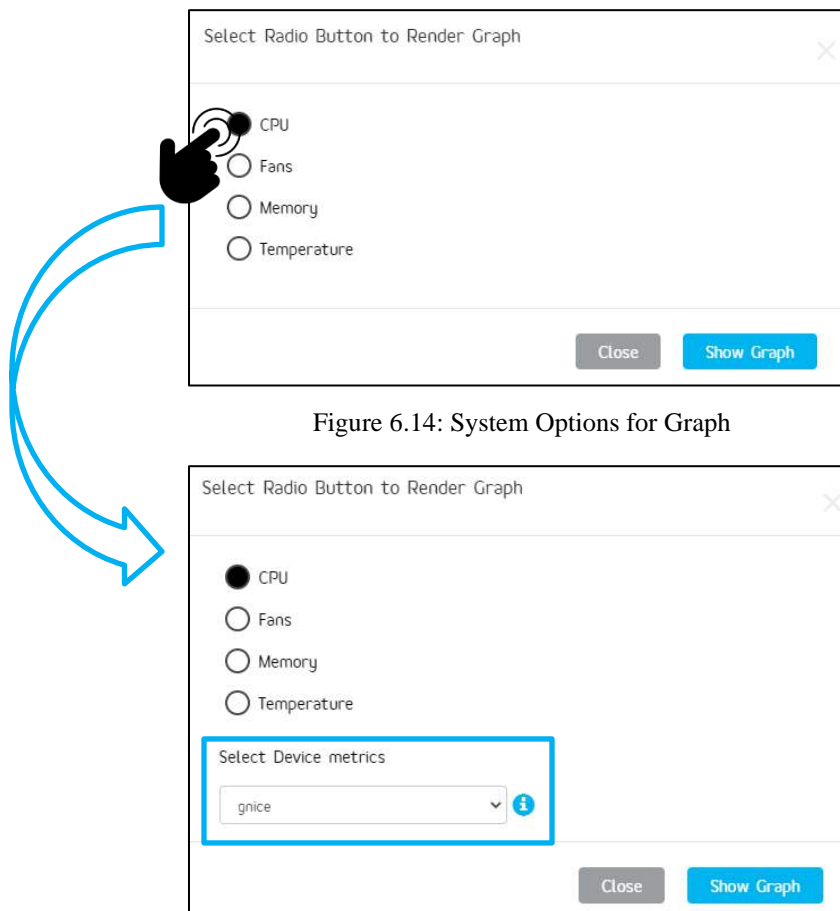
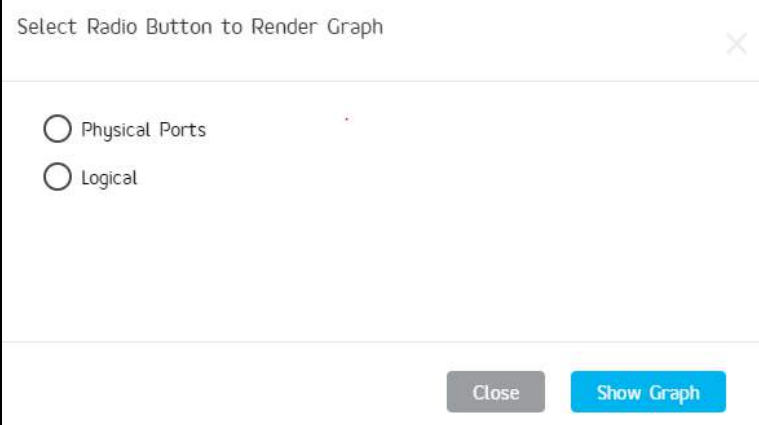


Figure 6.14: System Options for Graph

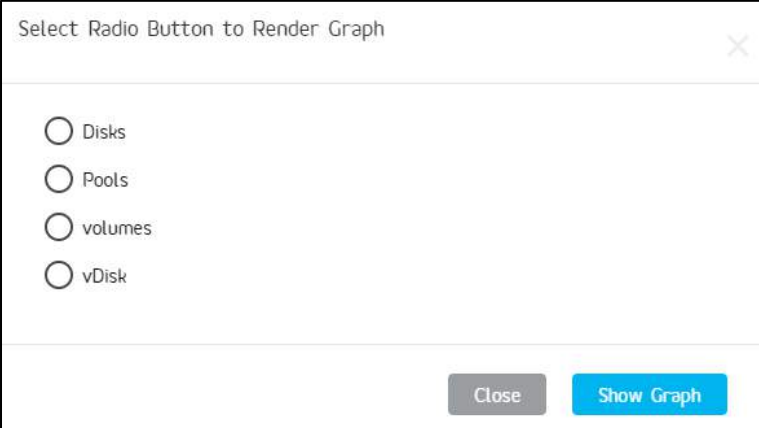
6.2.2 Network



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).

Figure 6.15: Network Options for Graph

6.2.3 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).

Figure 6.16: 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.



The screenshot shows a web interface titled "Scheduler List" with an "Add" button in the top right. Below the title, there is a "Select Time zone" dropdown set to "Local" and a "Show 10 entries" dropdown. A search bar is located on the right. The main content is a table with the following columns: Name, Start Time, Start Date, End Date, Type, Source Vol, Dest Vol, Server, Frequency, Status, %Status, and Actions. Two entries are listed: "schedule1" and "schedule2".

Name	Start Time	Start Date	End Date	Type	Source Vol	Dest Vol	Server	Frequency	Status	%Status	Actions
schedule1	15:50	05/08/2021	06/08/2021	Backup System	Vol2	null		Once Only	stopped	0	Edit Delete Info
schedule2	15:50	06/07/2021	06/07/2021	Start File Backup Schedule	Vol2	Vol1		Once Only	stopped	0	Edit Delete Info

Showing 1 to 2 of 2 entries

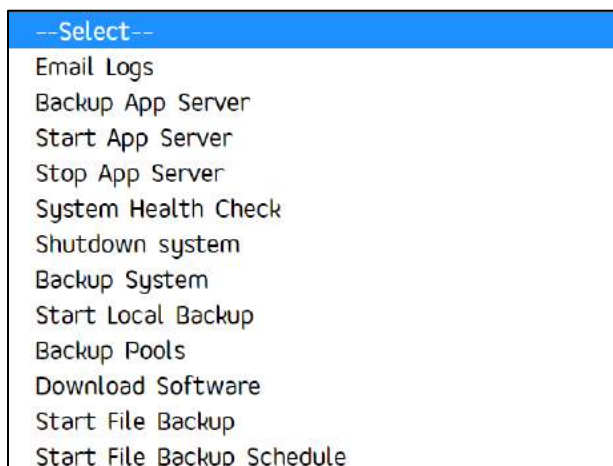
Previous 1 Next

Figure 7.1: Schedule 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



The screenshot shows a dropdown menu with the following options:

--Select--
Email Logs
Backup App Server
Start App Server
Stop App Server
System Health Check
Shutdown system
Backup System
Start Local Backup
Backup Pools
Download Software
Start File Backup
Start File Backup Schedule

- **Destination Server:** Dropdown showing host Servers created by the user.

Scheduler Scheduler List

Schedule Name:

Frequency:

Start Time:

Start Date:

End Date:

Action:

Destination Server:

Confirm Cancel

On clicking the destination server, we get a table on the right side of the page, as shown below

Scheduler Scheduler List

Schedule Name:

Frequency:

Start Time:

Start Date:

End Date:

Action:

Destination Server:

Show entries Search:

Name	Type	Created Date	Status	Source Vol	Destination Vol
/mnt/R6000nf...	Native	2021-05-19	OFF		<input type="checkbox"/> /mnt/R6000nf...
Localvol	Native	2021-05-18	OFF	Localvol	
Minivol	Native	2021-05-18	Runn		<input type="checkbox"/> Minivol

Showing 1 to 3 of 3 entries

Previous 1 Next

Confirm Cancel

Figure 7.2: Adding Schedule

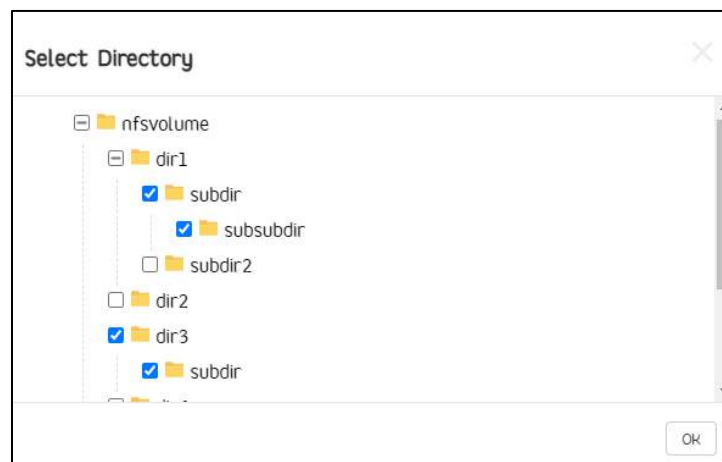


Figure 7.3: On clicking any source volume

7.2 Schedule History


Actions

Edit | Delete | Info

Edit | Delete | Info

Edit | Delete | Info

To get the schedule history, just click on the **info** link on the **schedule list** page. Consequently, edit and delete can also be done in the same way.



Scheduler History

Show entries Search:

	Completed Date	Completed Time	Destination Volume	Status
<input type="radio"/>	05/19/2021	14:35	Miniovol	success

Showing 1 to 1 of 1 entries

Previous **1** Next

Restore Close

Figure 7.4: Schedule History Pop-up