

Hewlett Packard  
Enterprise

# HPE SUPERDOME FLEX 280 WEB MANAGEMENT INTERFACE DEMO



# Hybrid IT Demonstration : how to...

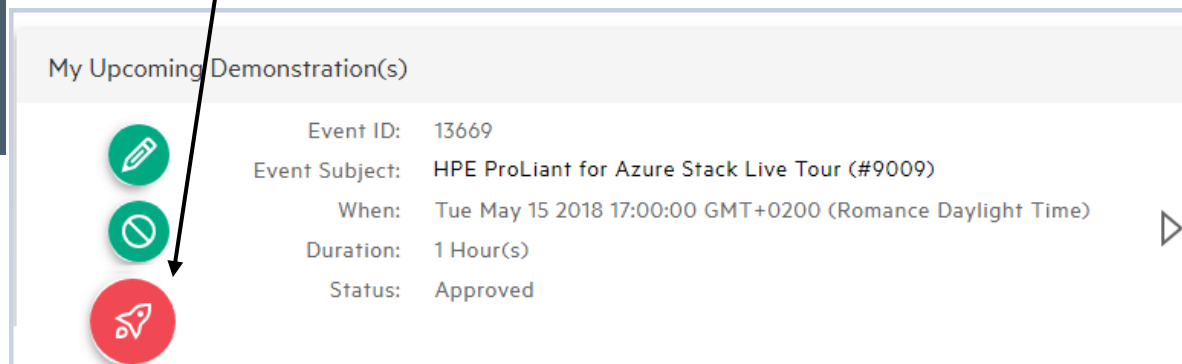
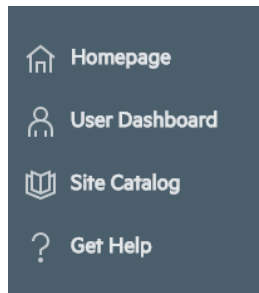
1. Request your live demo via HPE Demonstration Portal and download demonstration guide
2. This demo is automatically approved, and a **Presenter Access Instructions** email is sent with following explanation:

To connect to your environment, please click the associated  
on your [HPE Demo Portal User Dashboard](#)

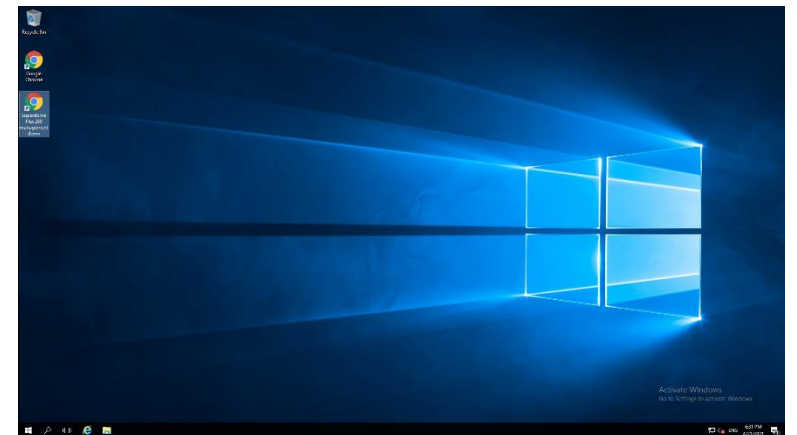
'Launch' button



3. Demo is directly accessible from HPE Demo Portal User dashboard  
Launch button will appear **at the time** of the demo




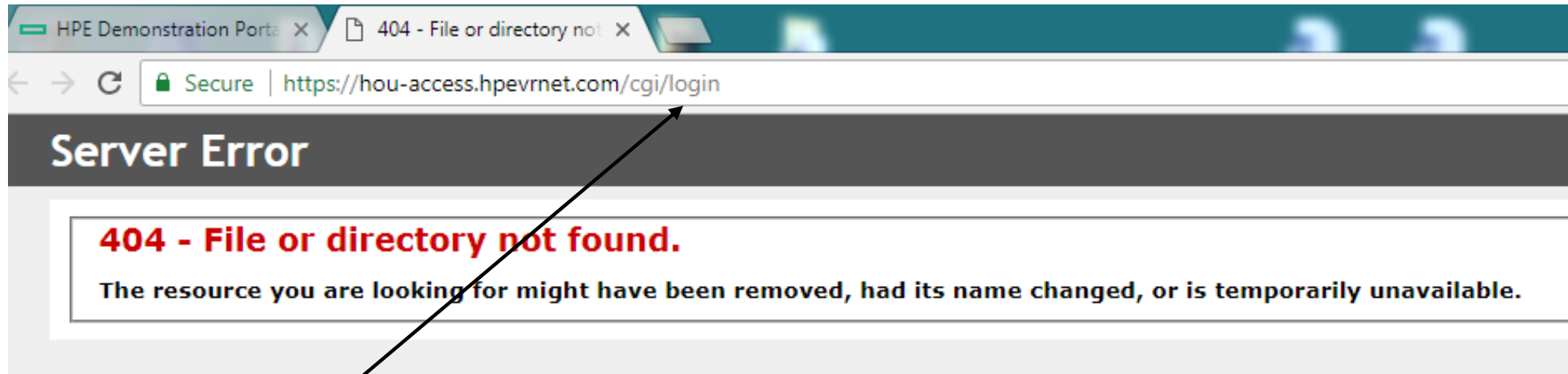
4. Run your demo by starting the Superdome Flex 280 Management Demo  
(In open Citrix session; Citrix receiver plugin installed the first time)



## Re-launching the demo

optional

When trying to launch again the demo via launch button  the following error may occur if your previous session has not been logged out correctly.



Change and run URL, replacing « login » by **logout**

<https://xxx-access.hpevrnet.com/cgi/logout>

And launch again your demo:



# RUNNING THE DEMONSTRATION

---

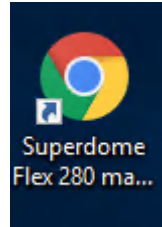


# CONNECT TO THE DEMONSTRATION

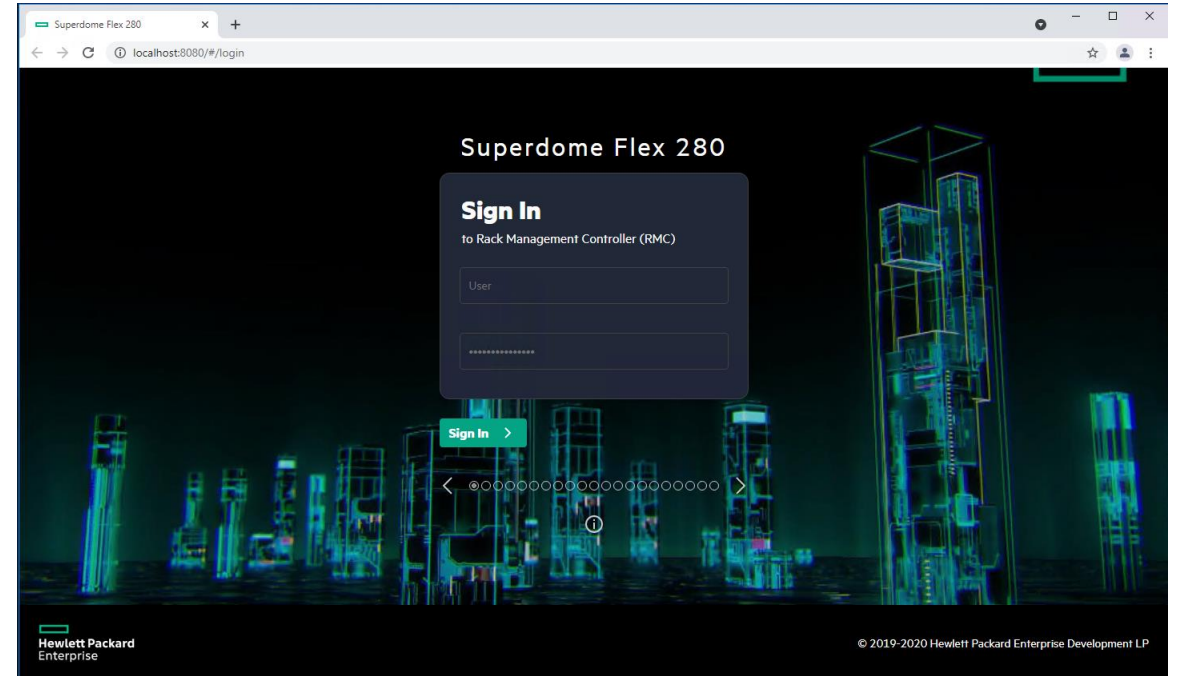
**1** Once connected to the Demonstration Jump Host, on the desktop there is a Chrome icon that states “Superdome Flex 280 management demo”. Double click that and a Chrome browser will start the connection to the management interface.

**2** On the Superdome Flex 280 log in page enter “administrator” as the user. You can use any text as the password. You will be logged in with the administrator role.

**1**

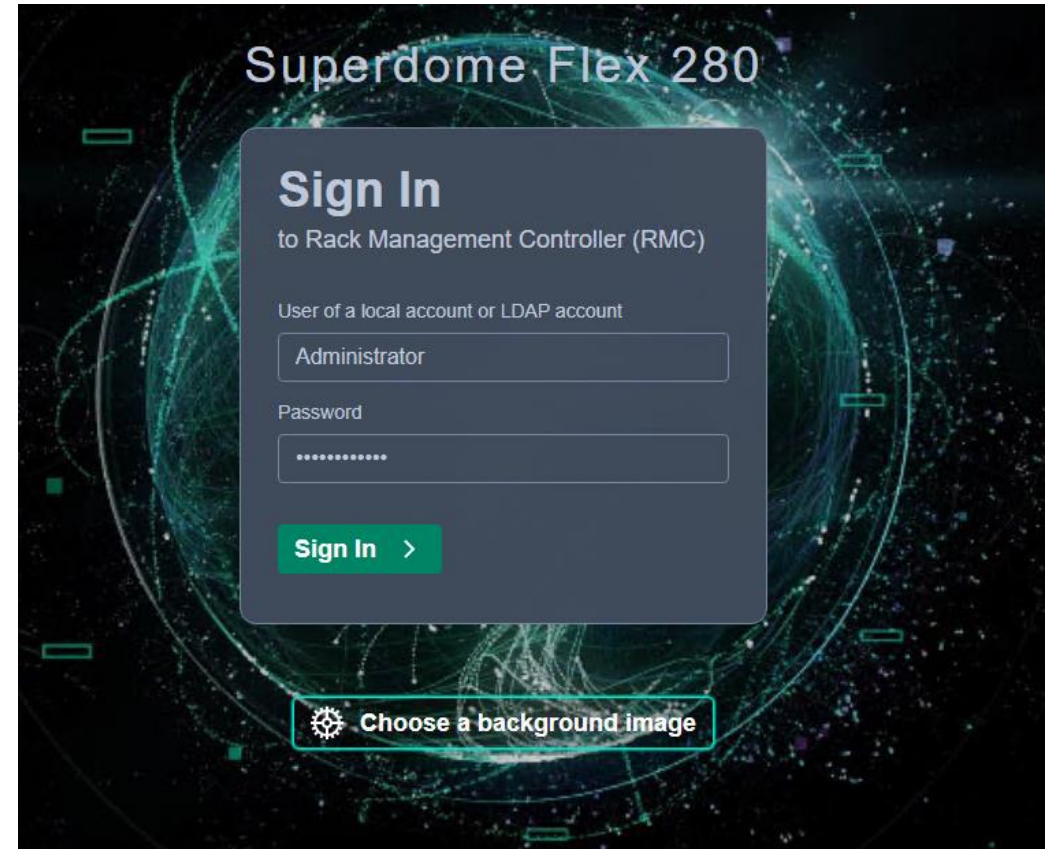
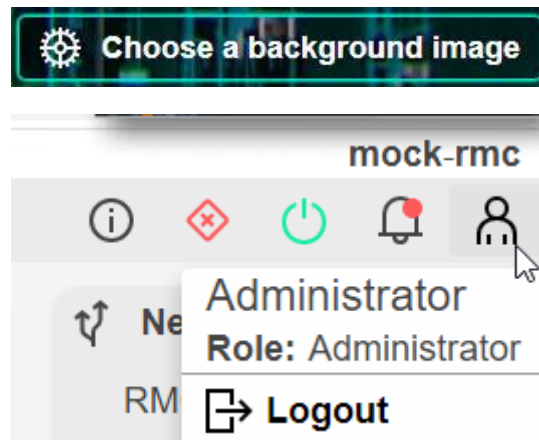


**2**



# DIFFERENCES RMC/ERMC

- SDF Options
  - RMC: Physical Management Node, mandatory for Partition Server and >8Skt Scalable server
  - eRMC: Accessible via connection on SDF Base Chassis
- SDF280 Options
  - eRMC only (Embedded RMC)
  - Accessible via connection on SDF280 Base Chassis
  - Referred to typically as RMC
- New look and feel
- Choose a background image for this RMC
- Login as Administrator
- Enter any password
- View your role
- View other widgets



# HOW TO CABLE/CONNECT THE RMC

- SDF280 RMC network setup via USB
  - Accessible via connection on SDF280 Base Chassis
  - Connect a Micro USB cable from CNSL to your laptop
  - Connect a management LAN connection to eRMC RJ45 port
- Login using the credentials on the information pull-tab
  - The pull-tab is located in the centre of the Base Chassis
- Run the “set network” command to allocate an IP Address
  - show network
  - set network addressing=*METHOD* gateway=*GATEWAY\_IP*  
hostname=*HOSTNAME* ipaddress=*HOST\_IP* netmask=*SUBNETMASK*
- Now access the RMC GUI
  - <https://HOSTNAME/>
- Check and modify network settings in the RMC GUI

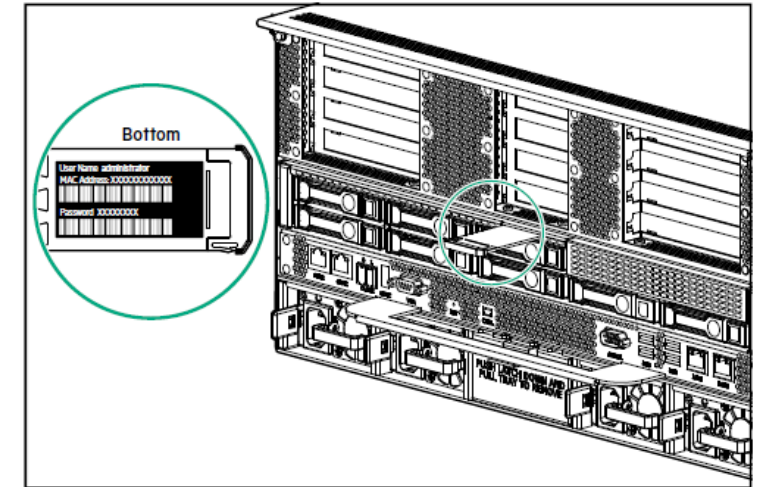
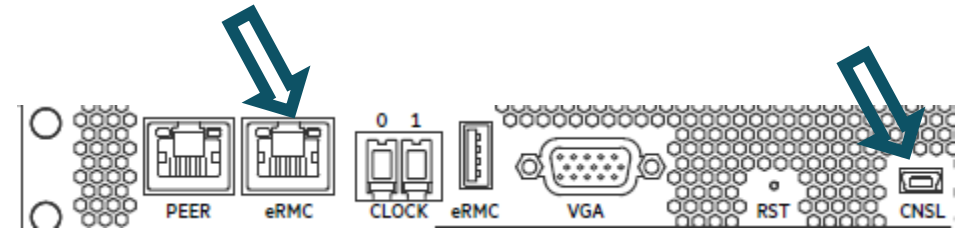
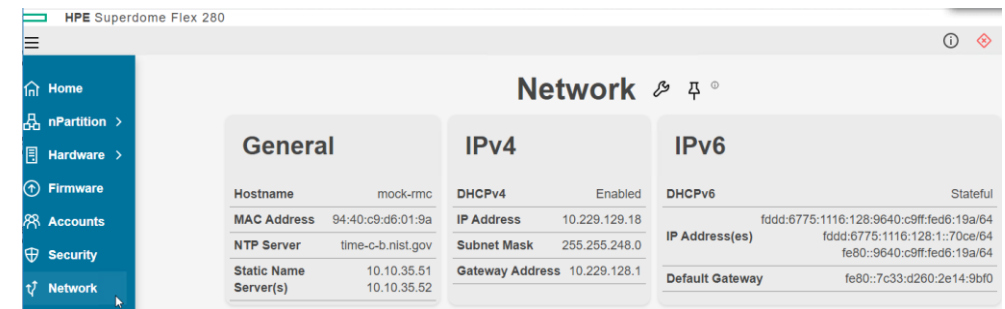


Figure 7: Information pull tab bottom: account, password, MAC address

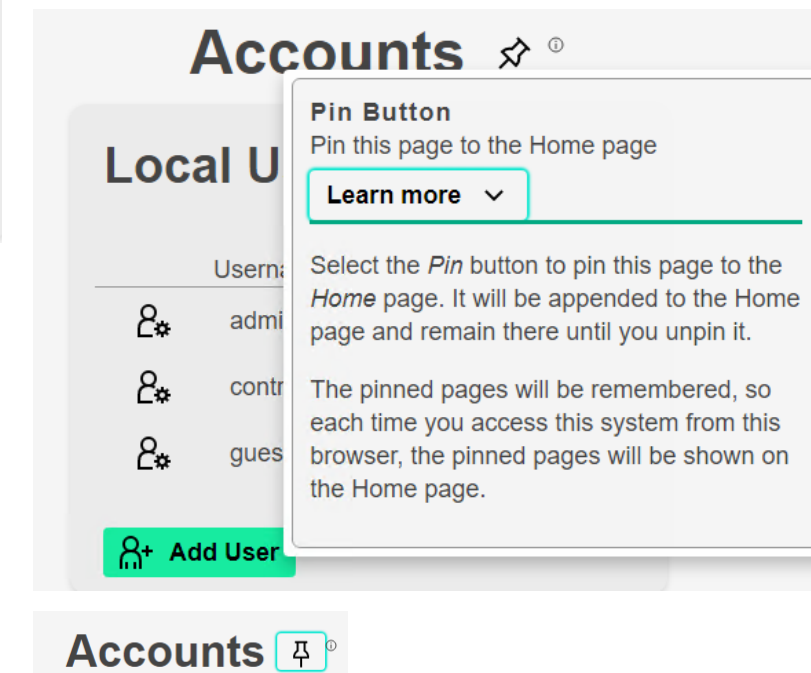
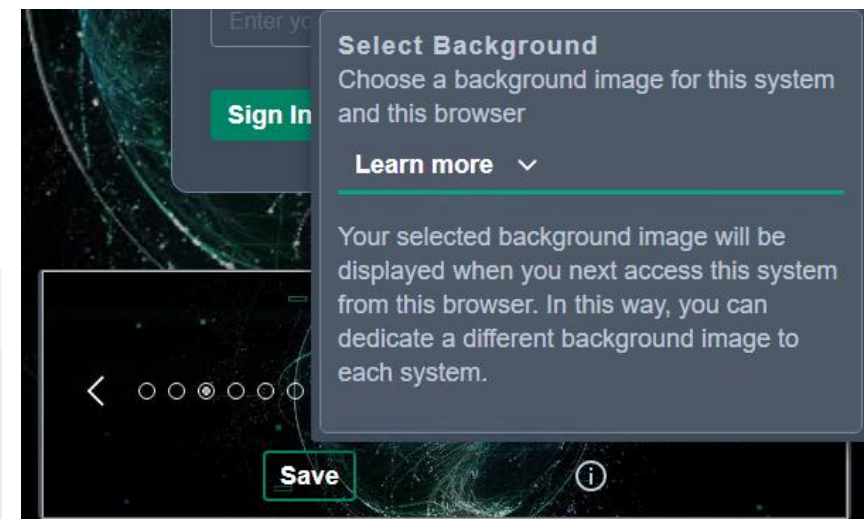
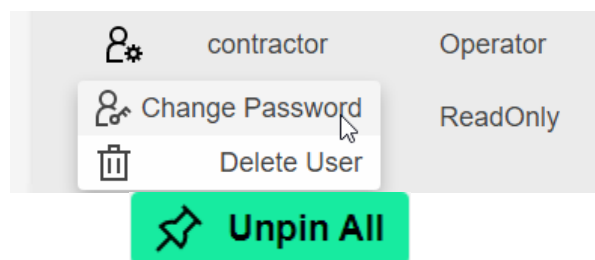
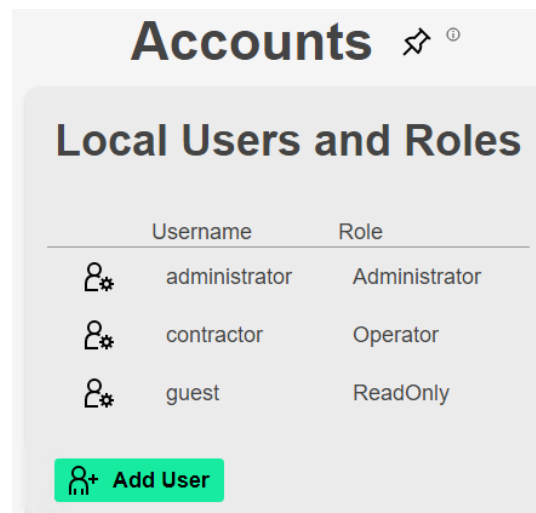


# ACCESS & LOGIN

- Modify the background on the RMC login screen
  - When/why/how is the image saved?
- View the screen in “Dark Mode”



 Dark Mode

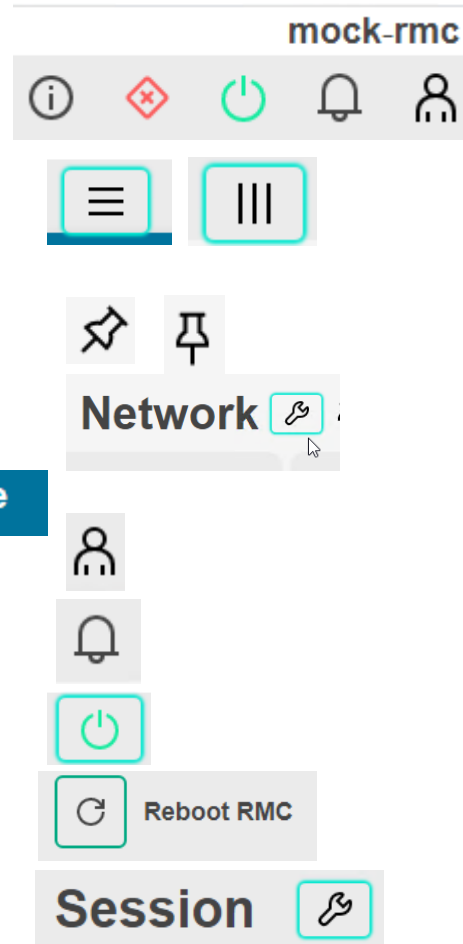
- Login using Administrator account
- View the default Users
- Add yourself as a User with a role
  - (“Submit” will generate an error)
- Change the password for User contractor
- Pin “Accounts” to the Home page
  - Now view the Home page
  - Now “Unpin-All from the Home page
- View the screen in “Dark Mode”









# HOW TO NAVIGATE INTERFACE

- Practise navigating the RMC GUI
- View the Page widgets
- Close & Re-open the Menu pane
- View Help 
- Try Pinning Menus to the Home page
- View Network Setting
- Do you prefer Dark Mode? 
- How do you Logout?
- Do you have any Notifications?
- How would you power-off the Server?
- How would you reboot the RMC?
- Change the RMC session timeout
- Visit each Menu pane in turn



# HOW TO NAVIGATE INTERFACE

- Learn about nPartition features
  - SDF280 has 1 nPar
  - Browse the Boot Attributes
    - Note PCIe Boot slot options enabled
    - Workload profile deployed
- Boot Order
  - Change boot order

Chassis	Info
r001u11b  	Hostname ch-057
r001u16b  	CPU8 8
	Cores 144
	DIMMs 48
	I/O Cards 13
	Volatile Memory 3071 GiB
	Persistent Memory 0 GiB

nPar 0 Boot Order ⓘ

✕

\* Change the boot order, by selecting from the pull down lists.

0

▼

UEFI Internal Shell

1

▼

Kingston DataTraveler 3.0 60A44C4138D1F241571ED03A

2

▼

Virtual CDROM Device 0 LUN 0

3

▼

Virtual CDROM Device 0 LUN 1

4

▼

Virtual CDROM Device 0 LUN 2

5

▼

Virtual CDROM Device 0 LUN 3

6

▼

Virtual HardDisk Device 0 LUN 0

7

▼

Virtual HardDisk Device 0 LUN 1

Submit

nPar 0 Attributes ⓘ

Attributes ⓘ

nPartition BIOS Configuration Options

Name	Current	Pending ⓘ
Boot Slots	3,8	same
Allow PCIe Slot Option ROMs	Enabled	same
USB Control	Built-in USB Ports Enabled	same
WHEA Error Injection Support	Disabled	same

Workload Optimization Options

Name	Current	Pending ⓘ
Workload Profile	Mission Critical	same

# USE REMOTE CONSOLE AND COMMAND LINE ACCESS

- Two ways to access remote console (not possible on simulator)
  - Use “nPartition” and “Remote Console & Media”
  - Launch Remote Web Console
- or
- SSH to RMC IP address for CLI
- connect npar pnun=0
- Use “help” in CLI
- Use “apropos” command in CLI

The image displays the nPar 0 Remote Console & Media interface and a terminal window showing CLI commands and output.

**Remote Console & Media Interface:**

- Remote Web Console:** Access nPartition console and configure remote media. Launch Remote Web Console. RMC command: connect npar pnun=0.
- Remote Media Application:** Configure remote media via the application (requires Java). Download Application.
- File Server:** Configure the BMC to access remote media files on a file server. Share Type: CIFS. File Server IP Address: 10.234.81.247. Folder Path: /media. Domain: . Username: operator. Connection Status: Connected.
- Media Files:** Select media files to insert or eject. RHEL-8.0.0-20190404.2-x86\_64-dvd1.iso. Eject. Select Media Files. Insert.

**Terminal Window (sdf100-rmc):**

```
sdf100 eRMC:r001u03c cli> show npar

Partitions: 1

Par Run Health Chassis CPUs CPU Cores DIMMs Memory (GiB) IO Cards
Num State Status OK/In OK/In OK/In OK/In RAM/PMem OK/In
=====
p0 OS Boot OK 2/2 8/8 224/224 96/96 6143/0 8/8

* OK/In = OK/Installed

sdf100 eRMC:r001u03c cli> help

Commands (type "help <command>" for more information):
=====
acquit clear deconfig exit ipmi power save test
add collect disable generate modify reboot search update
apropos commands download help ping remove set upload
cancel connect enable indict ping6 restore show

sdf100 eRMC:r001u03c cli> apropos indict

indict
indict physloc=HEXADECIMAL_STR
show indict [chassis=GEIOD | pnun=0]

sdf100 eRMC:r001u03c cli> show indict chassis=r001i03b

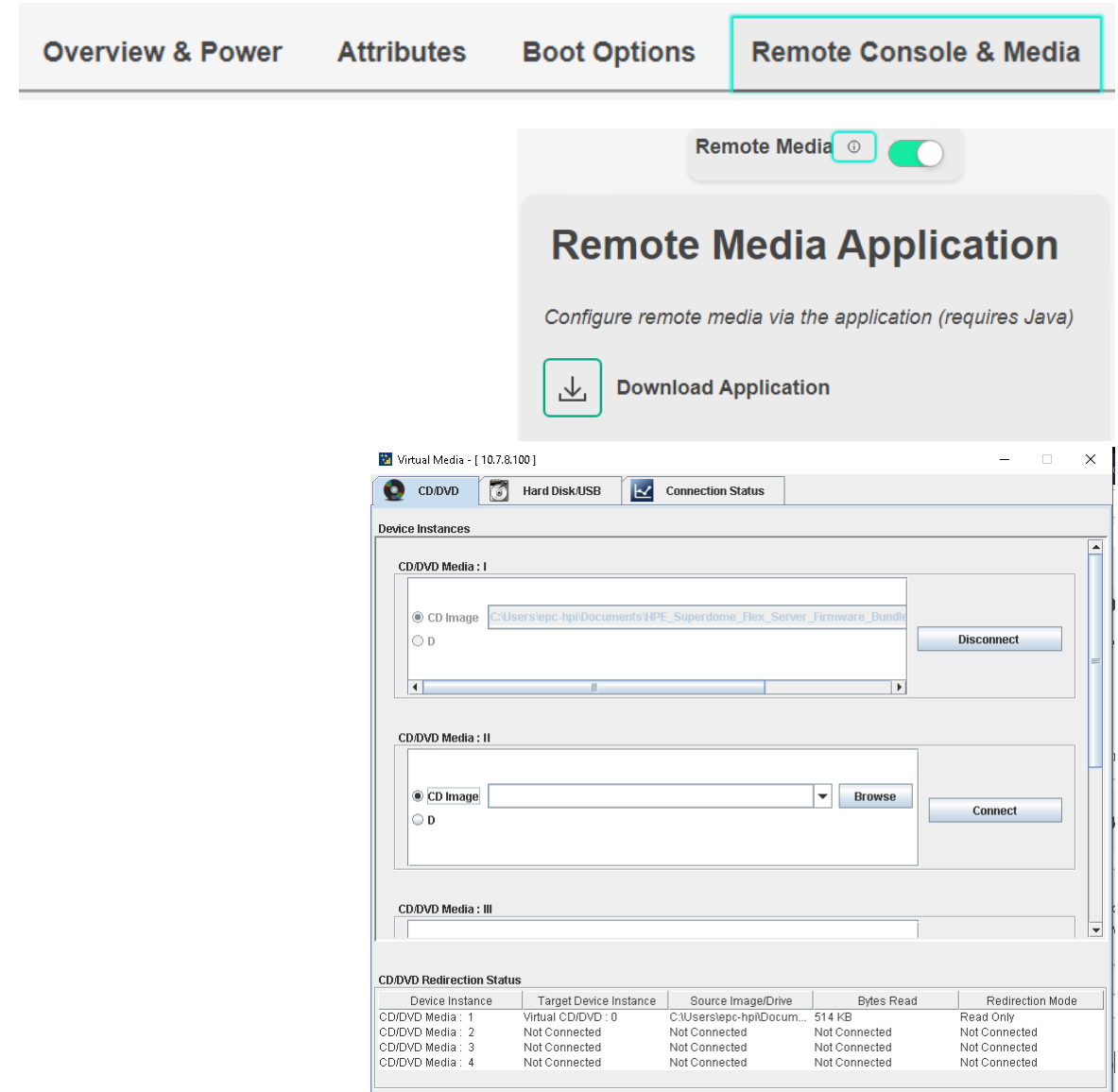
==== r001u03b ====

No indictments.

sdf100 eRMC:r001u03c cli>
```


# USE REMOTE CONSOLE & MEDIA - 1

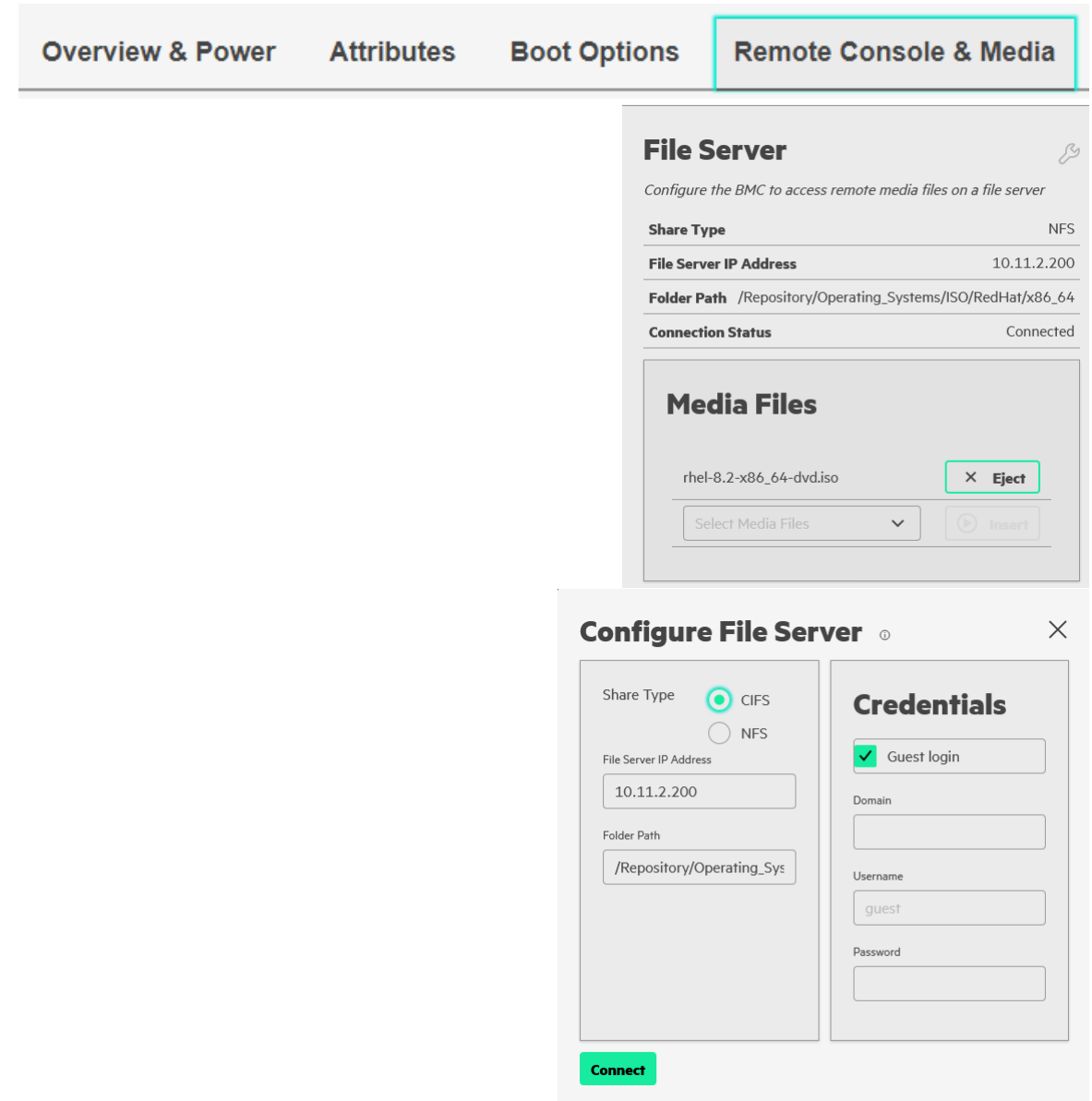
- There are multiple ways to connect virtual media
  - The “Remote Media Application” Java application can be downloaded and installed (will not work in simulator)
  - When installed it will provide a Java application that can be used to provide multiple virtual media to the partition
  - It does not require the use of the graphical console to connect the media
  - Typically one would provide an ISO image with installation media
  - Optionally one could provide a disk image which might contain kickstart files or similar





# USE REMOTE CONSOLE & MEDIA - 2

- The 2nd way is to connect to a remote file server repository
  - The “File Server” allows one to connect up to 2 virtual media
  - First use the wrench  to set up the file server either using NFS or CIFS. The file server can only be changed when no virtual media are connected
  - In the shared folder on the file server one can connect the virtual media files or eject them
  - Virtual media need to be either ISO images (for virtual CD/DVD) or “img” for virtual hard disk
  - On the simulator it is not possible to eject the media, therefore the file server cannot be changed either



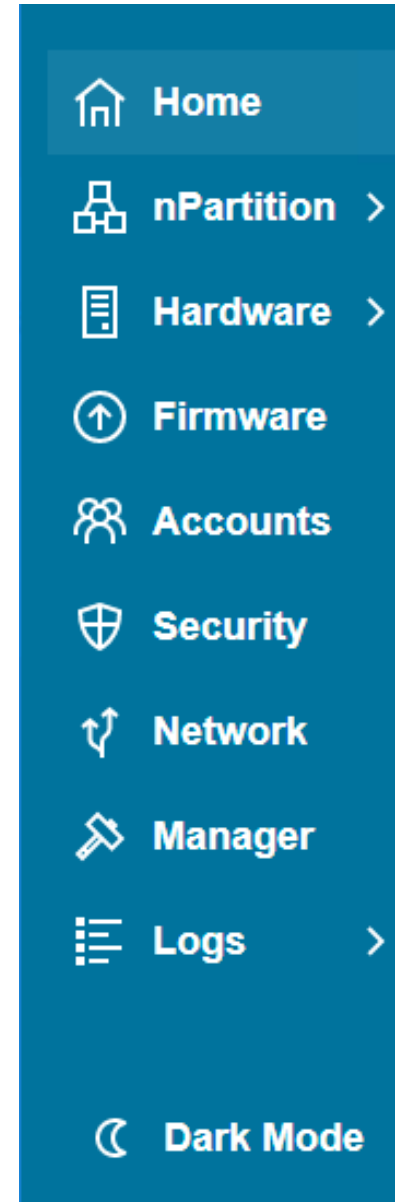
# USE REMOTE CONSOLE & MEDIA - 3

- The last way to connect virtual media is through the “Remote Web Console”
  - Launch by clicking on the green launch button (not possible on the simulator). Be sure that you have allowed pop-up windows
  - Select the ISO image to be mounted as virtual media from your local system by clicking on “Browse File”
  - Once the file is selected you can click the “Start Media” button to insert the media. The byte count displayed in front of the button will indicate how much data has been transferred
  - Eject the virtual media by clicking the “Stop Media” button


The screenshot displays the 'Remote Console & Media' tab in a software interface. At the top, there are navigation tabs: 'Overview & Power', 'Attributes', 'Boot Options', and 'Remote Console & Media' (which is highlighted with a red border). Below these tabs, the 'Remote Web Console' section is visible, containing the text 'Access nPartition console and configure remote media', a note about the serial console, and a command: `connect npar pnum=0`. A green button with a monitor icon and the text 'Launch Remote Web Console' is present. Below this section, there are two media management rows. The first row shows 'CD Image: Browse File (0 KB)' and a 'Start Media' button. The second row shows 'CD Image: SLE-15-SP1-Installer-DVD-x86\_64-GM-DVD1.iso (1045 KB)' and a 'Stop Media' button. Both rows have a 'Zoom 100 %' button and a monitor icon to their right.


# HOW TO NAVIGATE INTERFACE

- Hardware
  - Visit each TAB
  - Display CAE Log, what are indict & redact?
- Firmware
  - Note Complex & Partition FW
  - View Update for initiating FW update
- Accounts
  - Note Default users
  - How do you Add Users?
- Security
  - View the default options
- Network
  - View setting
- Manager
  - How would you reboot the RMC?
- Logs
  - View the different types of log



# HOW TO MANAGE SECURITY (NETWORK PROTOCOLS)


- Examine “Network Protocols” on the “Security” page
  - Click on the wrench  symbol to select which protocols can be used to access the RMC
  - It is suggested NOT to disable HTTPS or SSH
  - Click submit to activate changes
- Examine the “SSL certificate”
  - A self generated certificate is by default
  - A new certificate signing request (CSR) can be generated by selecting “Generate CSR”
  - If a company uses its own certificates, it can be loaded by selecting “Replace”
  - The self signed certificate can be deleted by selecting “Delete” and a new one installed when the RMC is rebooted

Network Protocols 	
HTTP	Enabled
HTTPS	Enabled
IPMI	Disabled
SSH	Enabled

SSL Certificate	
Subject	CN = mock-rmc, O = Hewlett Packard Enterprise Company, OU = MCS, L = Chippewa Falls, ST = Wisconsin, C = US
Issuer	CN = mock-rmc, O = Hewlett Packard Enterprise Company, OU = MCS, L = Chippewa Falls, ST = Wisconsin, C = US
Valid From	2020-08-31T19:04:45Z
Valid Until	2050-09-01T19:04:45Z
<div><button>Generate CSR</button><button>Replace</button><button>Delete</button></div>	



# HOW TO MANAGE NETWORK CONFIGURATION

- Examine the network configuration on the “Network” page
  - Click on the wrench  symbol to select the “Edit Network Configuration” panel
  - Here you can change the hostname, name server addresses and NTP server
  - You can also modify the IPv4 configuration by disabling the “DHCPv4” setting or the IPv6 configuration by selecting “Static Address”
  - Once you are happy with the changes you can submit them which requires the RMC to reboot. This will not work on the simulator

General		IPv4		IPv6	
Hostname	mock-rmc	DHCPv4	Enabled	DHCPv6	Stateful
MAC Address	94:40:c9:d6:01:9a	IP Address	10.229.129.18	fddd:6775:1116:128:9640:c9ff:fed6:19a/64	
NTP Server	time-c-b.nist.gov	Subnet Mask	255.255.248.0	IP Address(es) fddd:6775:1116:128:1::70ce/64 fe80::9640:c9ff:fed6:19a/64	
Static Name Server(s)	10.10.35.51 10.10.35.52	Gateway Address	10.229.128.1	Default Gateway fe80::7c33:d260:2e14:9bf0	

### Edit Network Configuration ⓘ

#### General

Hostname

Static Name Servers

NTP Server

#### IPv4

☐ Enable DHCPv4?

IP address

Netmask

Gateway

#### IPv6

☐ Stateful DHCPv6  
☒ Static Address

IP address/prefix length

Gateway

# HOW TO CONTROL SERVER POWER

- Power Control
  - Access via nPartition Menu
  - Try Graceful Shutdown (error will occur)
  - Note Chassis Health Status
  - Show Power Health status for chassis r001u16b
  - “Follow the RED” to debug issues
    - Which PSU has failed?

The screenshot shows the 'Chassis r001u16b Power' interface. At the top, there are tabs for 'Chassis', 'Fans', 'Power', 'Processors', 'Memory', 'I/O', 'Assemblies', and 'Thermal'. The 'Power' tab is selected and highlighted with a red diamond icon. Below the tabs, the 'Power Supplies' section displays a table with columns 'Location' and 'Health'. The table lists four power supplies: psu0 (Health: Red diamond), psu1 (Health: Green checkmark), psu2 (Health: Green checkmark), and psu3 (Health: Green checkmark). To the right of the table is an 'Overview' section with the following information: Power Consumed: Unknown, Redundancy Health: Green checkmark, Redundancy Mode: Toggle switch (ON), Minimum Needed For Redundancy: 2. At the bottom, there is a lightbulb icon and text: 'For indictments and service events use: • CAE Log, • RMC commands: - show health, - show indict, • Remote Support'.

The screenshot shows the 'nPar 0 Overview & Power' interface. At the top, there are tabs for 'Overview & Power', 'Attributes', 'Boot Options', and 'Remote Console & Media'. The 'Overview & Power' tab is selected. Below the tabs, the 'Chassis' section shows a table with columns 'Chassis' and 'Health'. The table lists two chassis: r001u11b (Health: Green checkmark) and r001u16b (Health: Red diamond). To the right of the table is an 'Info' section with the following information: Hostname: ch-057, CPUs: 8, Cores: 144, DIMMs: 48, I/O Cards: 13, Volatile Memory: 3071 GiB, Persistent Memory: 0 GiB. To the right of the 'Info' section is a 'Power Control' section. The 'Power' status is 'On'. Below the status, there are two main sections: 'Graceful Power' and 'Abrupt Power'. The 'Graceful Power' section has a note: 'The Operating System will be notified.' and two buttons: 'Graceful Shutdown' and 'Graceful Restart'. The 'Abrupt Power' section has a note: 'The Operating System will not be notified. It is recommended that the Operating System be shutdown first.' and three buttons: 'Force Off', 'Force Restart', and 'Power Cycle'.

# HOW TO ACCESS ANALYSIS ENGINE

- CAE

- Status

- Use Hardware Menu to obtain overview of hardware status
    - Select Expansion Chassis r001u16b
    - Note problem Memory DIMM

- CLI must be used to Indict/Redact Components

- E.g. Redact PSU

- Check Logs

r001u11b

r001u16b

Chassis

Fans

Power

Processors

Memory

I/O

Assemblies

Thermal

Chassis r001u16b Memory

> LocationHealth

> cpu0/dimmA0

> cpu0/dimmB0

r001u11b

r001u16b

Chassis

Fans

Power

Processors

Memory

I/O

Assemblies

Thermal

Chassis r001u16b Power

Power Supplies

> Location

Health

> psu0

> psu1

Manufacturer

SOLUM CO., LTD.

Model

SG162F4C

Part Number

060-0415-002

Power Input

Unknown

Power Output

Unknown

Serial Number

PSSF162204CCNS1624C4BK6A0218

> psu2

> psu3

Overview

Power Consumed

Unknown

Redundancy Health

Redundancy Mode

Minimum Needed For Redundancy

2

For indictments and service events use:

• CAE Log

• RMC commands:

– show health

– show indict

• Remote Support





**THANK YOU**

---