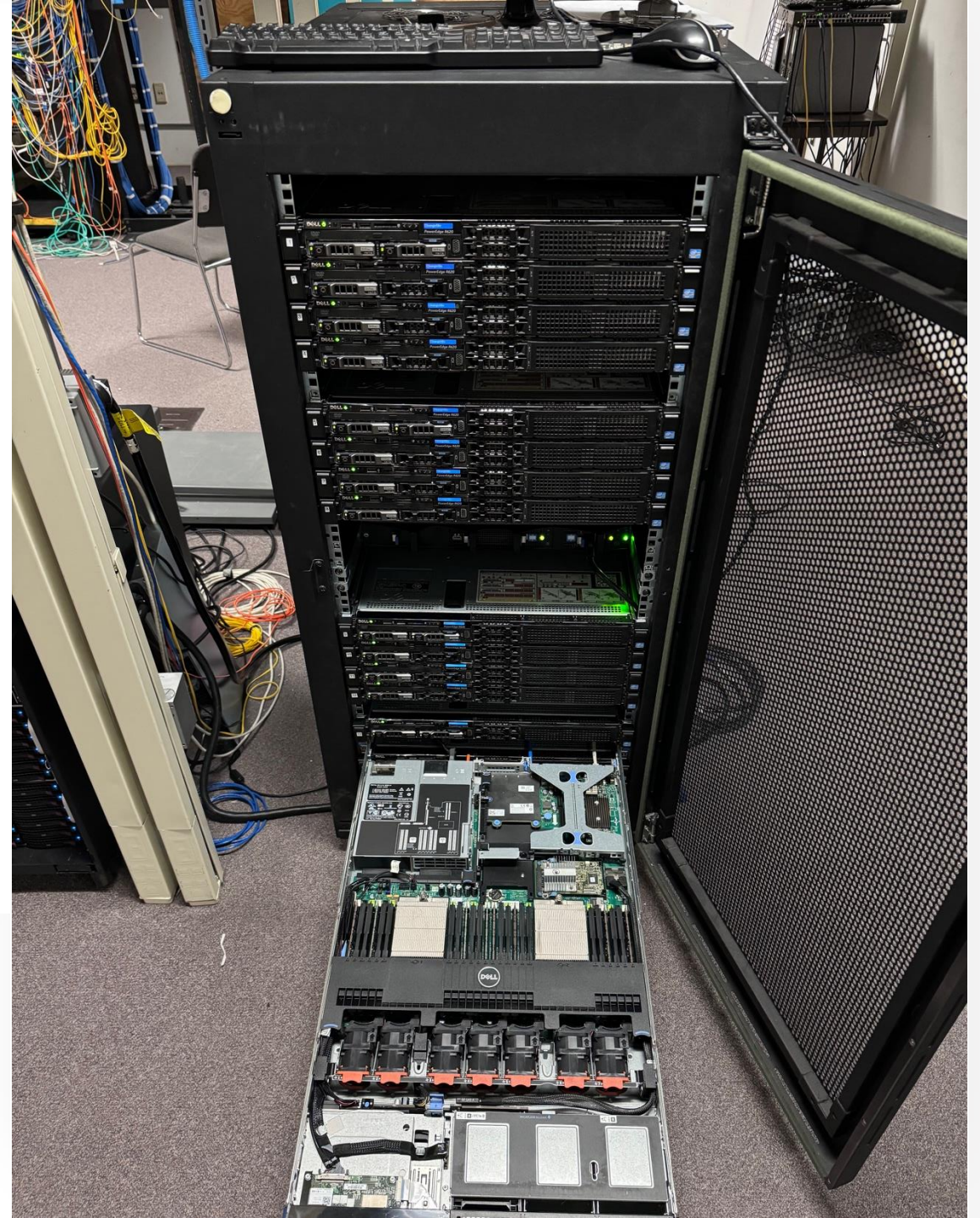


Lecture 2: iDRAC

Integrated Dell Remote Access
Controller

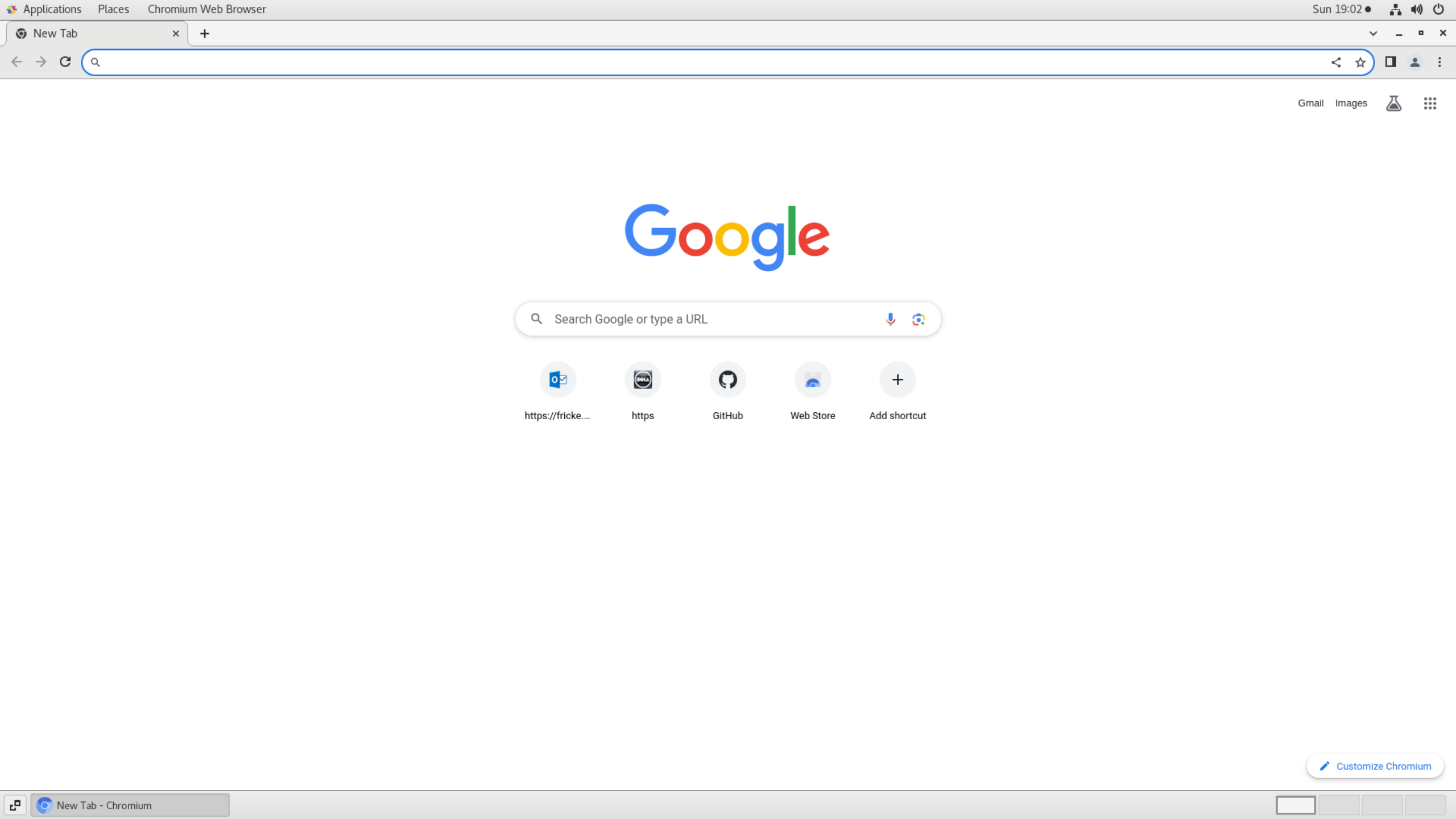


Logistics

- Send me a slack message with the email address you used to create your overleaf account (recall that if you use a cs.unm.edu address you get the pro version free).
1. Come to the front and collect your USB Rocky 9 Install Drive.
 2. Team up with someone who doesn't have a drive.
 3. The number on your drive is your **Team ID**.
 4. The **IP address** of your iDRAC web interface is 129.24.245.{**Team ID+17**}
- (Make a note of your iDRAC IP address, you will need it later)

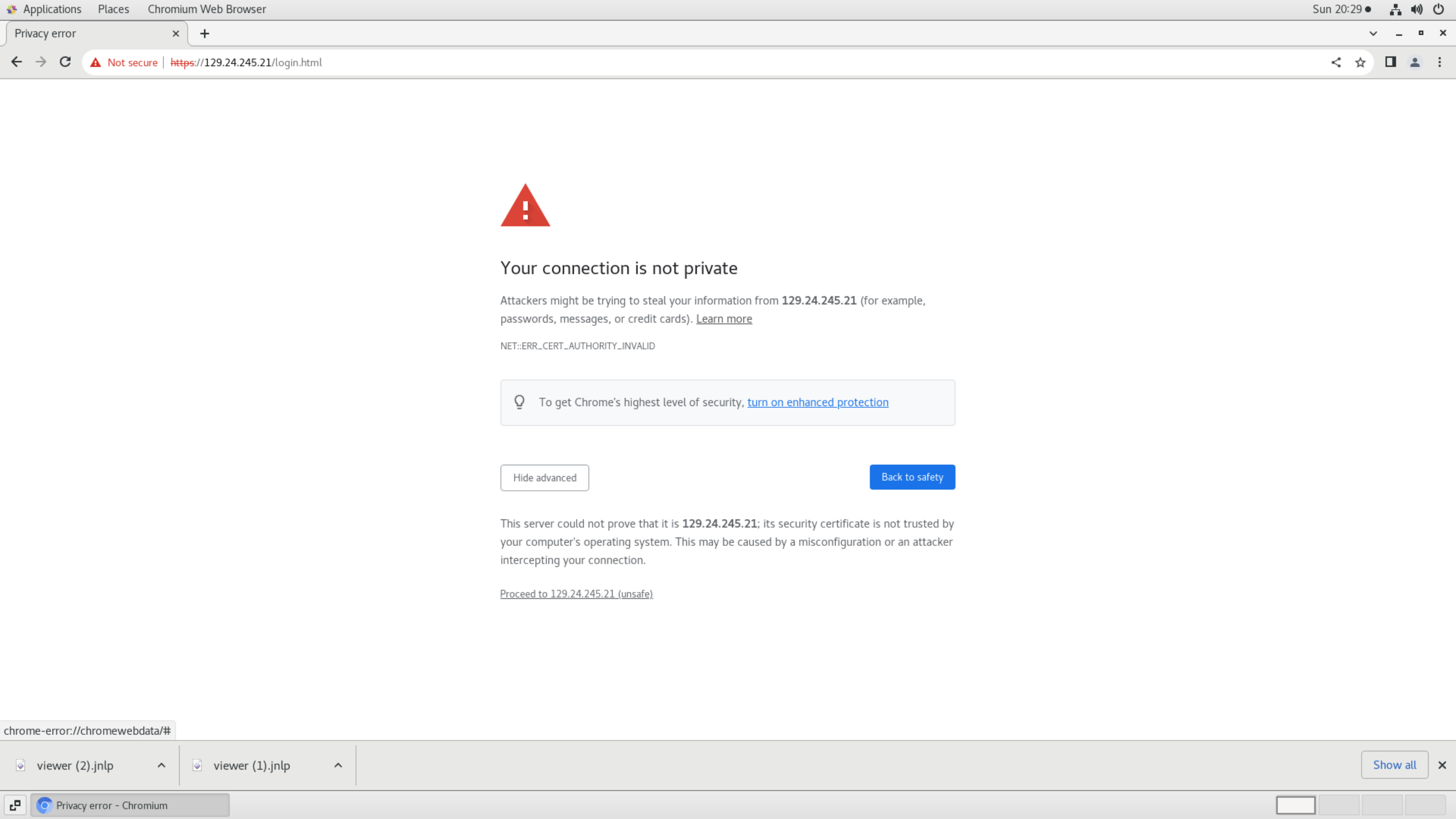
Firmware and Remote Access

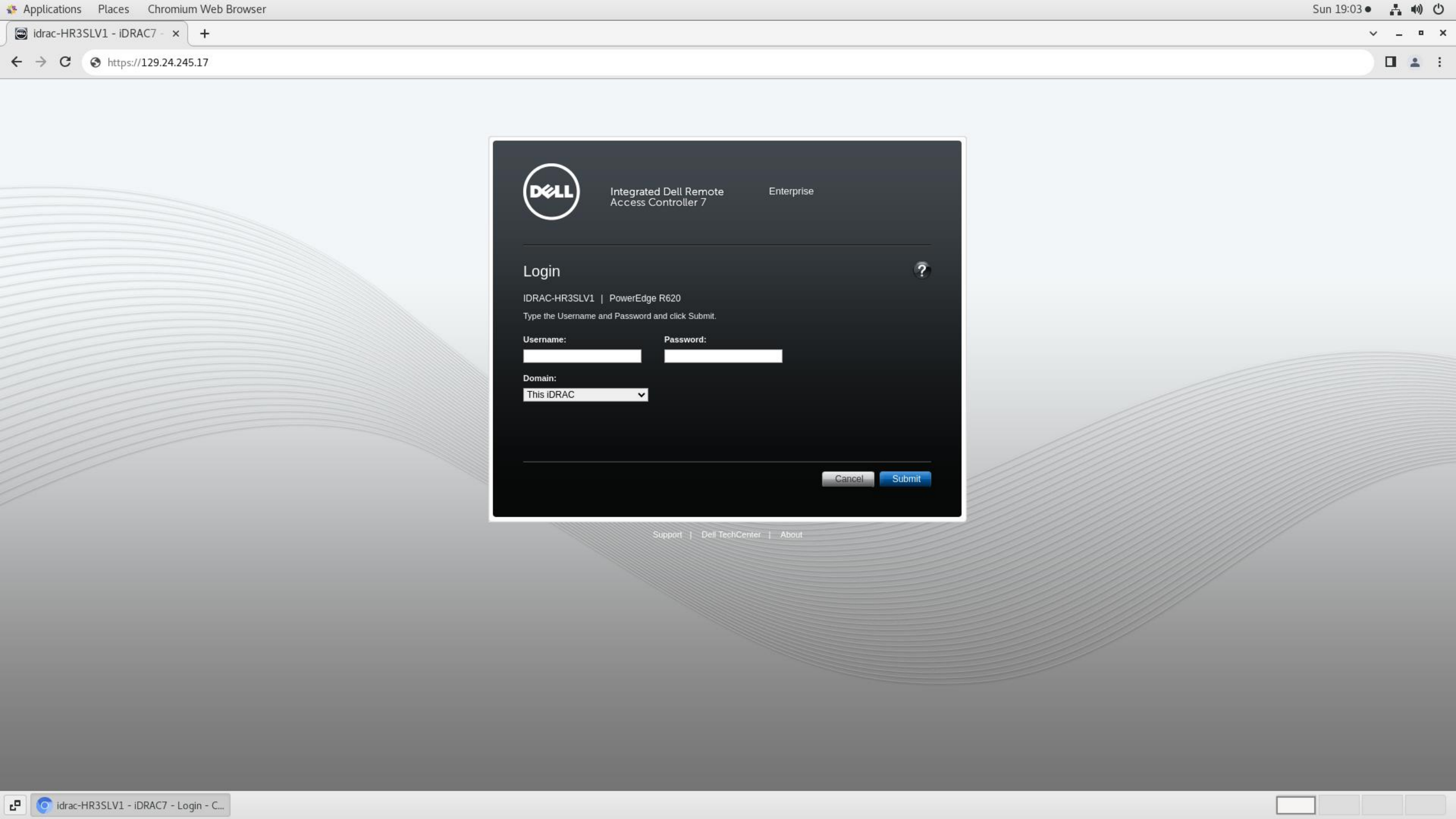
- Enterprise computers usually have a way of remotely performing tasks you would normally have to sit in front of the computer to accomplish, e.g. turning it on and off again, changing the BIOS settings, etc.
- When you have thousands of machines its not practical to go to each physical machine in person.
- We are using Dell Poweredge R620 blade servers so we will use iDRAC to configure them.
- iDRAC is a little Linux installation running in **firmware** on separately from the operating system or BIOS on memory chip (not harddrive).



Search Google or type a URL [Voice Search] [Image Search]

- [Icon] https://fricke....
- [Icon] https
- [Icon] GitHub
- [Icon] Web Store
- [Icon] Add shortcut





Integrated Dell Remote
Access Controller 7 Enterprise

Login



IDRAC-HR3SLV1 | PowerEdge R620

Type the Username and Password and click Submit.

Username:

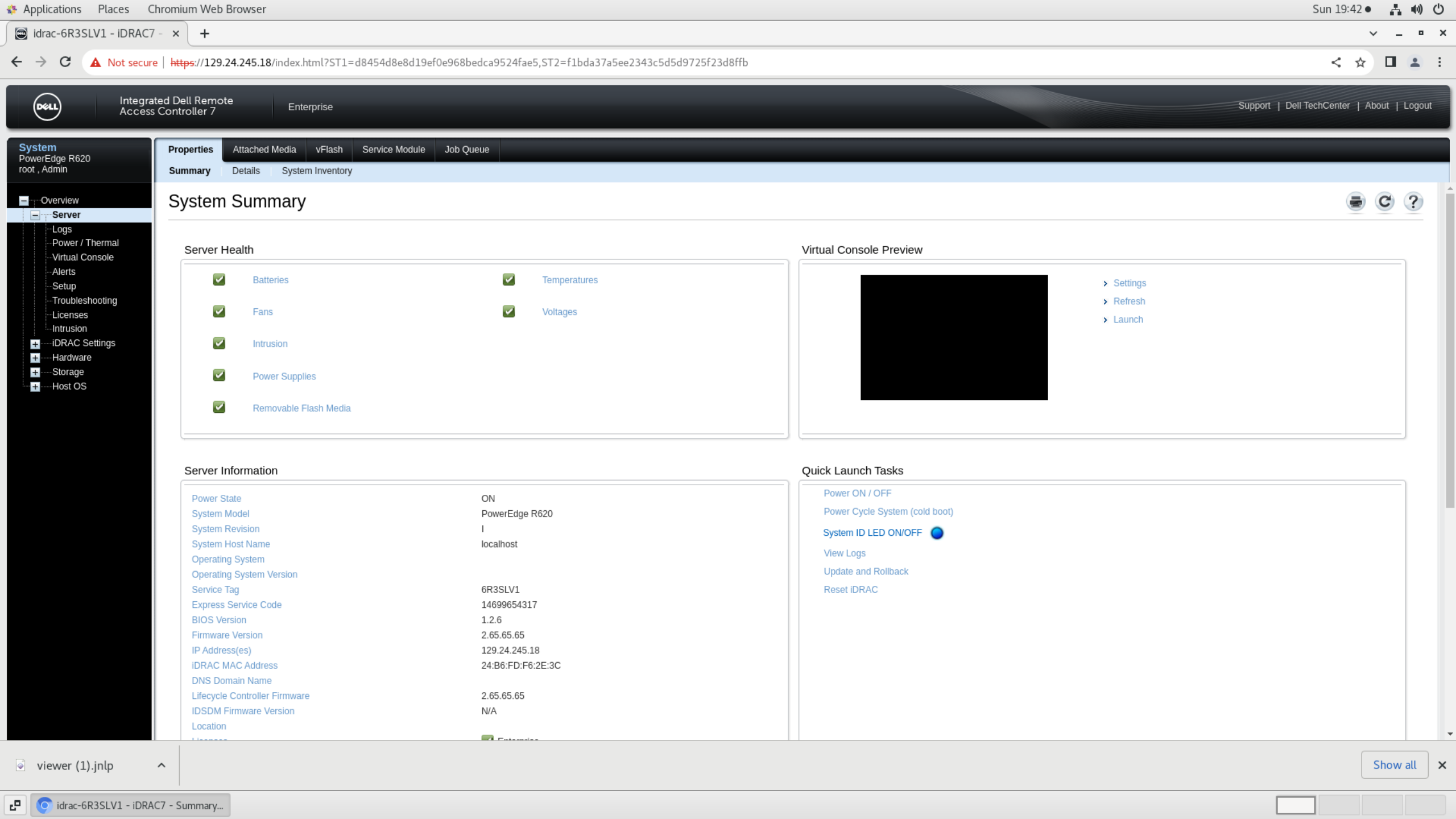
Password:

Domain:

This iDRAC ▾

Cancel

Submit





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PowerEdge R620
root, Admin

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 - Network
 - User Authentication
 - Update and Rollback
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- Hardware
 - Storage
 - Host OS

Local Users

Directory Services

Smartcard

Users



Users

User ID	State	User Name	iDRAC	LAN	Privilege		
					Serial Port	Serial Over LAN	SNMP v3
Instructions: To configure a user, click on the User ID number.							
1	Disabled	anonymous	None	None	None	Disabled	Disabled
2	Enabled	root	Administrator	Administrator	Administrator	Enabled	Disabled
3	Disabled					Disabled	Disabled
4	Disabled					Disabled	Disabled
5	Disabled					Disabled	Disabled
6	Disabled		None	None	None	Disabled	Disabled
7	Disabled		None	None	None	Disabled	Disabled
8	Disabled		None	None	None	Disabled	Disabled
9	Disabled		None	None	None	Disabled	Disabled
10	Disabled		None	None	None	Disabled	Disabled
11	Disabled		None	None	None	Disabled	Disabled
12	Disabled		None	None	None	Disabled	Disabled
13	Disabled		None	None	None	Disabled	Disabled
14	Disabled		None	None	None	Disabled	Disabled
15	Disabled		None	None	None	Disabled	Disabled
16	Disabled		None	None	None	Disabled	Disabled



The first thing you will do is change the password!



The first thing you will do is change the password!

Default Password Warning

Default Password Warning ☒ Enable ☐ Disable

Apply



System

PowerEdge R620
root, Admin

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Users



Users

User ID	State	User Name	iDRAC	LAN	Privilege		
					Serial Port	Serial Over LAN	SNMP v3
Instructions: To configure a user, click on the User ID number.							
1	Disabled	anonymous	None	None	None	Disabled	Disabled
2	Enabled	root	Administrator	Administrator	Administrator	Enabled	Disabled
	Disabled		None	None	None	Disabled	Disabled
	Disabled		None	None	None	Disabled	Disabled
	Disabled		None	None	None	Disabled	Disabled
	Disabled		None	None	None	Disabled	Disabled
	Disabled		None	None	None	Disabled	Disabled
8	Disabled		None	None	None	Disabled	Disabled
9	Disabled		None	None	None	Disabled	Disabled
10	Disabled		None	None	None	Disabled	Disabled
11	Disabled		None	None	None	Disabled	Disabled
12	Disabled		None	None	None	Disabled	Disabled
13	Disabled		None	None	None	Disabled	Disabled
14	Disabled		None	None	None	Disabled	Disabled
15	Disabled		None	None	None	Disabled	Disabled
16	Disabled		None	None	None	Disabled	Disabled

Default Password Warning

Default Password Warning ☒ Enable ☐ Disable

Apply



System

PowerEdge R620
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 - Intrusion
 - IDRAC Settings
 - Network
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 - Update and Rollback
 - Server Profile
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Local Users

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Smartcard

User Main Menu: User ID 2



User Configuration

Configure User ▾

☒ Configure User

Smart Card Configuration

Configure User ▾

- ☐ Upload User Certificate
- ☐ View User Certificate
- ☐ Upload Trusted CA Certificate
- ☐ View Trusted CA Certificate

SSH Key Configurations

Configure User ▾

- ☐ Upload SSH Key(s)
- ☐ View/Remove SSH Key(s)

Back to Users

Next





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root , Admin

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 - User Authentication**
 - Update and Rollback
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User Configuration



General ▾

User ID	2
Enable User	☒
User Name	root
Change Password	☐
New Password	
Confirm New Password	



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IPMI User Privileges ▾

Maximum LAN User Privilege Granted	Administrator ▾
Maximum Serial Port User Privilege Granted	Administrator ▾
Enable Serial Over LAN	☒

▲ Back to Top

SNMP v3 ▾

Enable SNMP v3	☐
Authentication type	SHA ▾
Privacy type	AES ▾

▲ Back to Top

IDRAC User Privileges ▾

Role	Administrator ▾
------	-----------------



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 - Setup
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IPMI User Privileges ▾

Maximum LAN User Privilege Granted	Administrator ▾
Maximum Serial Port User Privilege Granted	Administrator ▾
Enable Serial Over LAN	☒

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SNMP v3 ▾

Enable SNMP v3	☐
Authentication type	SHA ▾
Privacy type	AES ▾

Scroll down



▲ Back to Top

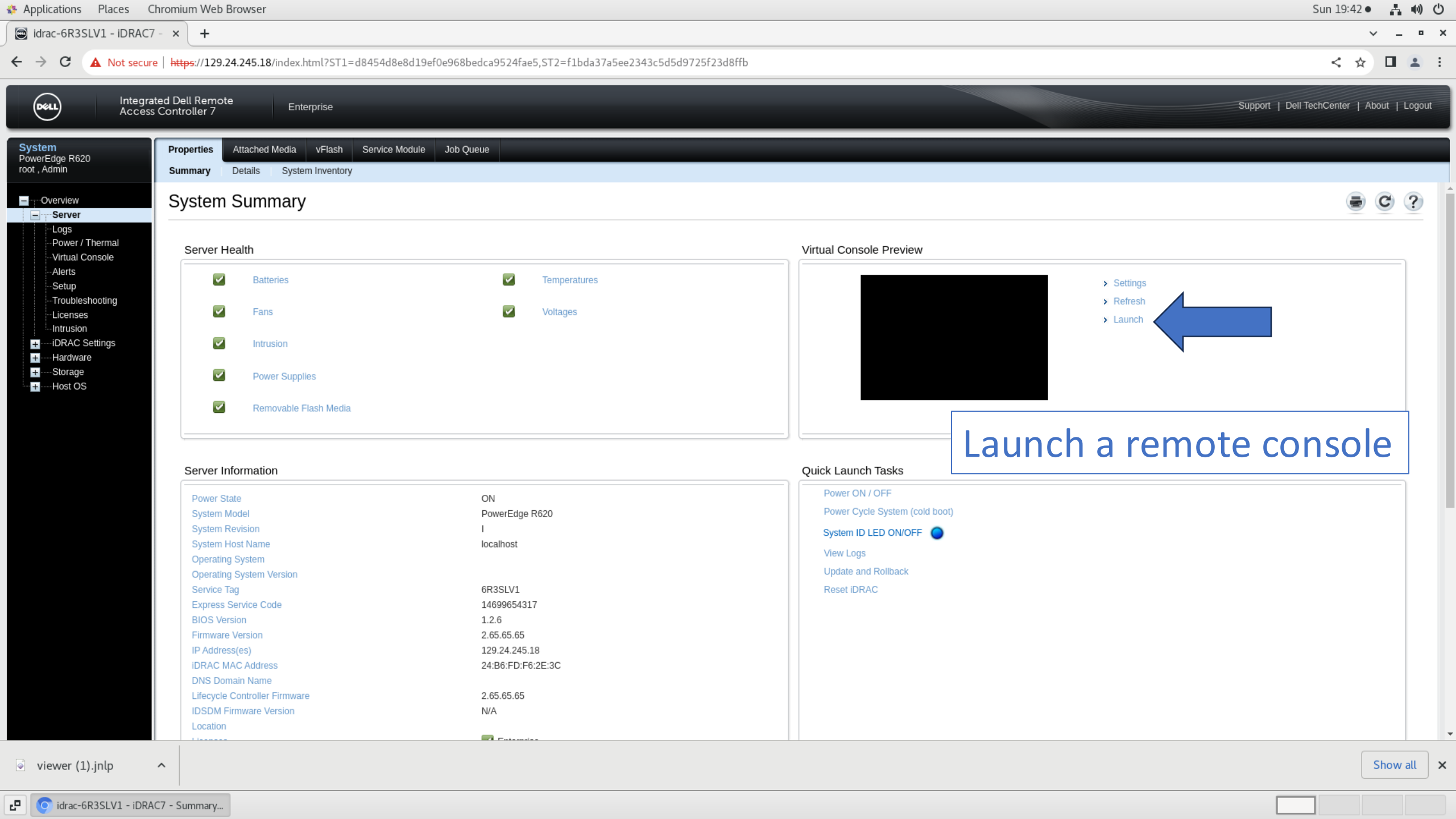
IDRAC User Privileges ▾

Roles	Administrator ▾
Login	☒
Configure	☒
Configure Users	☒
Logs	☒
System Control	☒
Access Virtual Console	☒
Access Virtual Media	☒
System Operations	☒
Debug	☒



Back to User Main Menu

Apply





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PowerEdge R620
root , Admin

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 - Virtual Console
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Local Users

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Users



Users

User ID	State	User Name	Privilege				
			iDRAC	LAN	Serial Port	Serial Over LAN	SNMP v3
Instructions: To configure a user, click on the User ID number.							
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4	Disabled		None	None	None	Disabled	Disabled
5	Disabled		None	None	None	Disabled	Disabled
6	Disabled		None	None	None	Disabled	Disabled
7	Disabled		None	None	None	Disabled	Disabled
8	Disabled		None	None	None	Disabled	Disabled
9	Disabled		None	None	None	Disabled	Disabled
10	Disabled		None	None	None	Disabled	Disabled
11	Disabled		None	None	None	Disabled	Disabled
12	Disabled		None	None	None	Disabled	Disabled
13	Disabled		None	None	None	Disabled	Disabled
14	Disabled		None	None	None	Disabled	Disabled
15	Disabled		None	None	None	Disabled	Disabled
16	Disabled		None	None	None	Disabled	Disabled

Instructions: To configure a user, click on the User ID number.

1	Disabled	anonymous	None
2	Enabled	root	Administrator
3	Disabled		None
4	Disabled		None
5	Disabled		None
6	Disabled		None
7	Disabled		None
8	Disabled		None
9	Disabled		None



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- iDRAC Settings
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 - Update and Rollback
 - Server Profile
 - Sessions
- Hardware
- Storage
- Host OS

Local Users

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Smartcard

User Main Menu: User ID 2



User Configuration

Configure User ▾

☒ Configure User

Smart Card Configuration

Configure User ▾

- ☐ Upload User Certificate
- ☐ View User Certificate
- ☐ Upload Trusted CA Certificate
- ☐ View Trusted CA Certificate

SSH Key Configurations

Configure User ▾

- ☐ Upload SSH Key(s)
- ☐ View/Remove SSH Key(s)

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- Update and Rollback
- Server Profile
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Local Users

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Smartcard

User Configuration



General

User ID	2
Enable User	☒
User Name	root
Change Password	☐
New Password	
Confirm New Password	

Set this password to be your
team root password

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IPMI User Privileges

Maximum LAN User Privilege Granted	Administrator
Maximum Serial Port User Privilege Granted	Administrator
Enable Serial Over LAN	☒

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SNMP v3

Enable SNMP v3	☐
Authentication type	SHA
Privacy type	AES



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PowerEdge R620
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- [+] Storage
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Maximum Serial Port User Privilege Granted

Administrator ▾

Enable Serial Over LAN



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SNMP v3 ▾

Enable SNMP v3



Authentication type

SHA ▾

Privacy type

AES ▾

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iDRAC User Privileges ▾

Roles

Administrator ▾

Login



Configure



Configure Users



Logs



System Control



Access Virtual Console



Access Virtual Media



System Operations



Debug



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[Apply](#)



ApplicationsPlacesChromium Web Browser

idrac-6R3SLV1 - iDRAC7 - x

idrac-6R3SLV1, PowerEdge R620, User: root - Chromium

Not secure | https://129.24.245.18/virtualconsolehtml5.html?ipAddr=129.24.245.18&kvmPort=5900&vmPriv=true&title=idrac-6R3SLV1,%...

ChatKeyboard

129.24.245.18 says

Turn off your pop-up blocker and try again!

OK

Disconnect ViewerConsole Controls

Support | Dell TechCenter | About | Logout

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Server Health

✓

Batter

✓

Fans

✓

Intrus

✓

Power

✓

Remo

Server Information

Power State

System Model

System Revision

System Host Name

Operating System

Operating System Ve

Service Tag

Express Service Cod

BIOS Version

Firmware Version

IP Address(es)

iDRAC MAC Address

DNS Domain Name

Lifecycle Controller F

IDSDM Firmware Ver

Location

License

> Settings

> Refresh

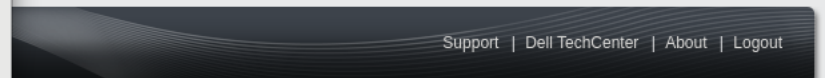
> Launch

viewer (1).jnlp

idrac-6R3SLV1 - iDRAC7 - Summary...

idrac-6R3SLV1, PowerEdge R620, ...

Show all



Properties	Attached M
------------	------------

PowerEdge R620
root , Admin

Summary

Attached M

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Server

Server Health

 Batter

 Fans

 Intrus Power Remo

Server Information

Power State

System Model

System Revision

System Host Name

Operating System

Operating System Version

Service Tag

Express Service Cod

BIOS Version

Firmware Version

IP Address(es)

iDRAC MAC Address

DNS Domain Name

Lifecycle Controller F

IDSDM Firmware Ver

Location

References

 idrac-6R3SLV1 - iDRAC7 - Summary...

idrac-6R3SLV1, PowerEdge R620, ...

Pop-ups blocked:

- <https://129.24.2...18:5900/index.html>

- ☐ Always allow pop-ups and redirects from <https://129.24.245.18>
- ☒ Continue blocking

Manage

Done

➤ Settings

➤ Refresh

➤ Launch

[Show all](#)

	X
--	---

Applications

Places

Chromium Web Browser

idrac-6R3SLV1 - iDRAC7 - x

+

idrac-6R3SLV1, PowerEdge R620, User: root - Chromium

Not secure

https://129.24.245.18/virtualconsolehtml5.html?ipAddr=129.24.245.18&kvmPort=5900&vmPriv=true&title=idrac-6R3SLV1,%20...

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Full Screen

Connect Virtual Media

Disconnect Viewer

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✓

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Operating System Ve

Service Tag

Express Service Cod

BIOS Version

Firmware Version

IP Address(es)

iDRAC MAC Address

DNS Domain Name

Lifecycle Controller F

IDSDM Firmware Ver

Location

Licenses

viewer (1).jnlp

^

idrac-6R3SLV1 - iDRAC7 - Summary...

idrac-6R3SLV1, PowerEdge R620, ...

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Dell TechCenter

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Show all

x

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PowerEdge R620
root , Admin

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Properties

- Attached Media
- vFlash
- Service Module
- Job Queue

Summary | Details | System Inventory

System Summary

Server Health

✓ Batteries

✓ Fans

✓ Intrusion

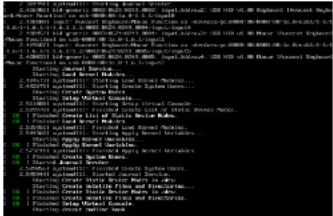
✓ Power Supplies

✓ Removable Flash Media

✓ Temperatures

✓ Voltages

Virtual Console Preview



[Settings](#)
[Refresh](#)
[Launch](#)

Server Information

Power State	ON
System Model	PowerEdge R620
System Revision	I
System Host Name	localhost
Operating System	
Operating System Version	
Service Tag	6R3SLV1
Express Service Code	14699654317
BIOS Version	1.2.6
Firmware Version	2.65.65.65
IP Address(es)	129.24.245.18
iDRAC MAC Address	24:B6:FD:F6:2E:3C
DNS Domain Name	
Lifecycle Controller Firmware	2.65.65.65
IDSDM Firmware Version	N/A

Quick Launch Tasks

[Power ON / OFF](#)
[Power Cycle System \(cold boot\)](#)
[System ID LED ON/OFF](#) ☐
[View Logs](#)
[Update and Rollback](#)
[Reset iDRAC](#)

https://129.24.245.18/sysSummaryData.html#



Properties	Attached M
------------	------------

Summary Details

System Summary

Server Health

 Batter

 Fans

 Intrusi

 Power Remo

Server Information

Power State

System Model

System Revision

System Host Name

Operating System

Operating System Ver

Service Tag

Express Service Code

BIOS Version

Firmware Version

IP Address(es)

iDRAC MAC Address

DNS Domain Name

Lifecycle Controller F

IDSDM Firmware Ver

<https://129.24.245.18/sysSummaryData.html#>

 viewer (1).jnlp ^

System
PowerEdge R620
root , Admin

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Licenses

Intrusion

+ iDRAC Settings

+ Hardware

+ Storage

+ Host OS

Power Monitoring

Power Configuration

Voltages

Temperatures

Power

Present

Past

Present Reading: 84 Watts (9.33% Capacity)

980

980 Watts - Failure Threshold

896 Watts - Warning Threshold

490

84 Watts - Present Reading

0

Last Hour

Last Day

Last Week

Average Watts

140.0

130.0

120.0

110.0

100.0

90.0

-1 hr

-45 mins

-30 mins

-15 mins

now

Time

Power Units ☒ Watts ☐ Amps

Present Power Reading and Thresholds

Status	Probe Name	Present Reading	Warning Threshold	Failure Threshold
✓	System Board Pwr Consumption	84 W 287 BTU/hr	896 W 3058 BTU/hr	980 W 3345 BTU/hr

Apply

Power Supply Unit Readings

Name	Amps	Volts
PS1	0.6	210

Cumulative Reading

Time	Total Usage
------	-------------

System
PowerEdge R620
root , Admin

Overview

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Properties

- Attached Media
- vFlash
- Service Module
- Job Queue

Summary | Details | System Inventory

System Summary

Server Health

✓ Batteries

✓ Fans

✓ Intrusion

✓ Power Supplies

✓ Removable Flash Media

✓ Temperatures

✓ Voltages

Virtual Console Preview



> Settings

> Refresh

> Launch

Server Information

Power State	ON
System Model	PowerEdge R620
System Revision	I
System Host Name	localhost
Operating System	
Operating System Version	
Service Tag	2Y2SLV1
Express Service Code	6414108589
BIOS Version	1.2.6
Firmware Version	2.65.65.65
IP Address(es)	129.24.245.28
iDRAC MAC Address	24:B6:FD:F6:79:B6
DNS Domain Name	
Lifecycle Controller Firmware	2.65.65.65
IDSDM Firmware Version	N/A
Location	
Licenses	✓ Enterprise

Quick Launch Tasks

Power ON / OFF

Power Cycle System (cold boot)

System ID LED ON/OFF ☐

View Logs

Update and Rollback

Reset iDRAC

Work Notes

Notes

System
PowerEdge R620
root , Admin

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- Licenses
- Intrusion
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Properties Attached Media vFlash Service Module Job Queue

Summary Details System Inventory

System Summary

129.24.245.28 says

You are about to execute a server control action. Are you sure you want to continue?

Cancel OK

Server Health

- ☒ Batteries
- ☒ Temperatures
- ☒ Fans
- ☒ Voltages
- ☒ Intrusion
- ☒ Power Supplies
- ☒ Removable Flash Media

Virtual Console Preview



- > Settings
- > Refresh
- > Launch

Server Information

Power State	ON
System Model	PowerEdge R620
System Revision	I
System Host Name	localhost
Operating System	
Operating System Version	
Service Tag	2Y2SLV1
Express Service Code	6414108589
BIOS Version	1.2.6
Firmware Version	2.65.65.65
IP Address(es)	129.24.245.28
iDRAC MAC Address	24:B6:FD:F6:79:B6
DNS Domain Name	
Lifecycle Controller Firmware	2.65.65.65
IDSDM Firmware Version	N/A
Location	
Licenses	☒ Enterprise

Quick Launch Tasks

- Power ON / OFF
- Power Cycle System (cold boot)
- System ID LED ON/OFF ☒
- View Logs
- Update and Rollback
- Reset iDRAC

Boot from the USB drive to start the install

Rocky Linux 9.3

Install Rocky Linux 9.3

Test this media & install Rocky Linux 9.3

Troubleshooting



Press Tab for full configuration options on menu items.

WELCOME TO ROCKY LINUX 9.3.

What language would you like to use during the installation process?

English	English	English (United States)
العربية	Arabic	English (United Kingdom)
Français	French	English (India)
Deutsch	German	English (Australia)
日本語	Japanese	English (Canada)
中文	Mandarin Chinese	English (Denmark)
Русский	Russian	English (Ireland)
Español	Spanish	English (New Zealand)
Afrikaans	Afrikaans	English (Nigeria)
አማርኛ	Amharic	English (Hong Kong SAR China)
অসমীয়া	Assamese	English (Philippines)
Asturianu	Asturian	English (Singapore)
Беларуская	Belarusian	English (South Africa)
Български	Bulgarian	English (Zambia)
বাংলা	Bangla	English (Zimbabwe)
Català	Catalan	English (Botswana)
Čeština	Czech	English (Antigua & Barbuda)
Cymraeg	Welsh	English (Israel)
Dansk	Danish	
Ελληνικά	Greek	
Esperanto	Esperanto	
Eesti	Estonian	
Euskara	Basque	
فارسی	Persian	
Suomi	Finnish	

LOCALIZATION



Keyboard
English (US)



Language Support
English (United States)



Time & Date
Americas/Los Angeles timezone

USER SETTINGS



Root Password
Root account is disabled



User Creation
No user will be created

SOFTWARE



Installation Source
Local media



Software Selection
Server with GUI

SYSTEM



Installation Destination
Automatic partitioning selected



KDUMP
Kdump is enabled



Network & Host Name
Connected: enp1s0



Security Profile
Not ready

LOCALIZATION



Keyboard
English (US)



Language Support
English (United States)



Time & Date
Americas/Los Angeles timezone

USER SETTINGS



Root Password
Root account is disabled



User Creation
No user will be created

SOFTWARE



Installation Source
Local media



Software Selection
Server with GUI

SYSTEM



Installation Destination
Automatic partitioning selected



KDUMP
Kdump is enabled



Network & Host Name
Connected: enp1s0



Security Profile
Not ready



The root account is used for administering the system. Enter a password for the root user.

Root Password:



Too short

Confirm:



- ☐ Lock root account
- ☐ Allow root SSH login with password

The root account is used for administering the system. Enter a password for the root user.

Root Password:

Too short

Confirm:

☐ Lock root account

☐ Allow root SSH login with password



LOCALIZATION



Keyboard
English (US)



Language Support
English (United States)



Time & Date
Americas/Los Angeles timezone

USER SETTINGS



Root Password
Root account is disabled



User Creation
No user will be created

SOFTWARE



Installation Source
Local media



Software Selection
Server with GUI

SYSTEM



Installation Destination
Automatic partitioning selected



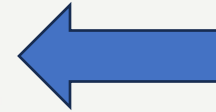
KDUMP
Kdump is enabled



Network & Host Name
Connected: enp1s0



Security Profile
Not ready



Device Selection

Select the device(s) you'd like to install to. They will be left untouched until you click on the main menu's "Begin Installation" button.

Local Standard Disks

20 GiB



0x1af4

vda / 20 GiB free

Specialized & Network Disks



Add a disk...

Storage Configuration

☒ Automatic ☐ Custom

☐ I would like to make additional space available.

Encryption

☐ Encrypt my data. *You'll set a passphrase next.*

⌚ Downloading packages.

