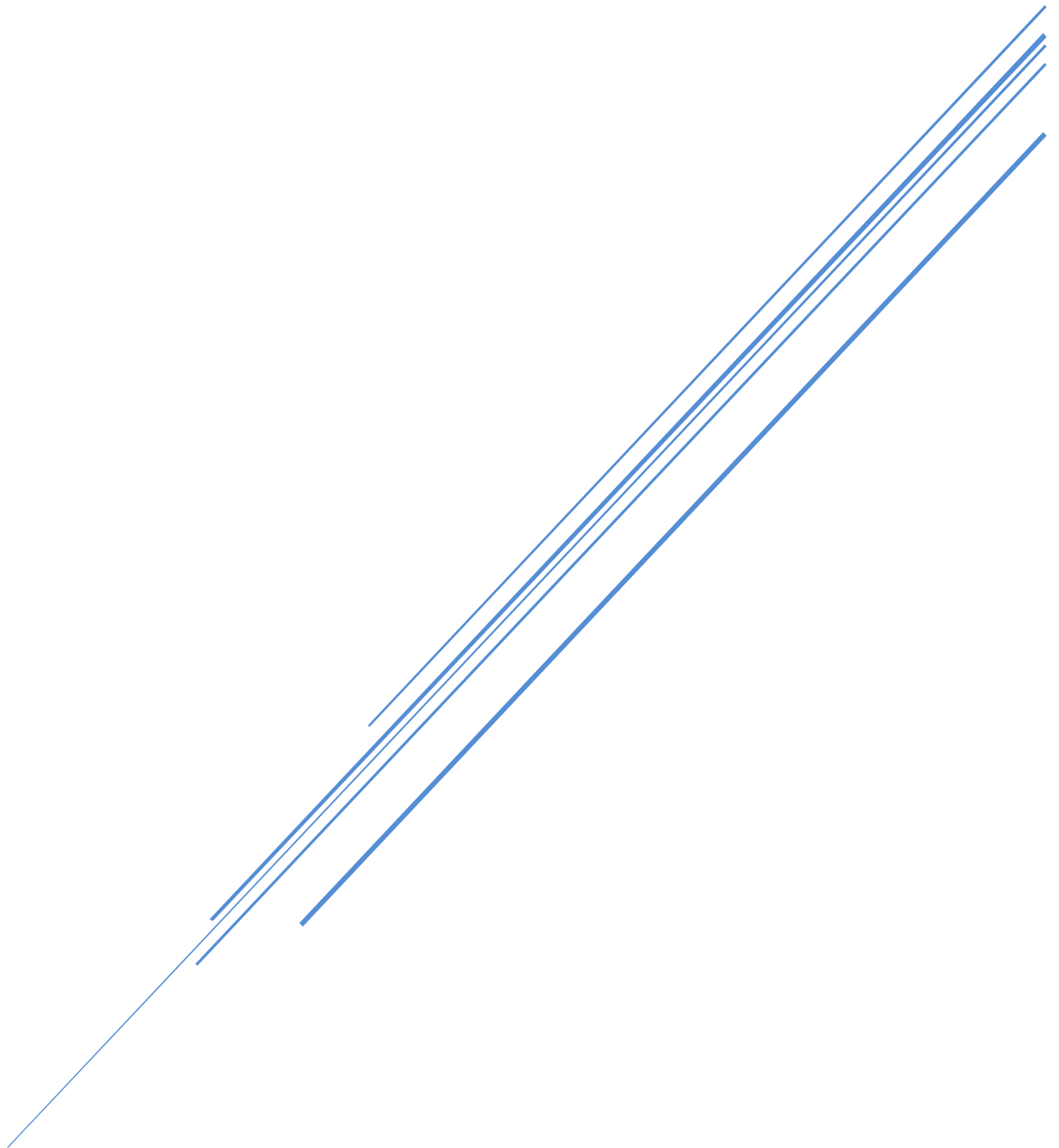




Trusted . Reliable . Secured Hosting Provider

SERVER FULL CONFIGURATION

Compatible with DELL R230 R430 R440 R730 R740



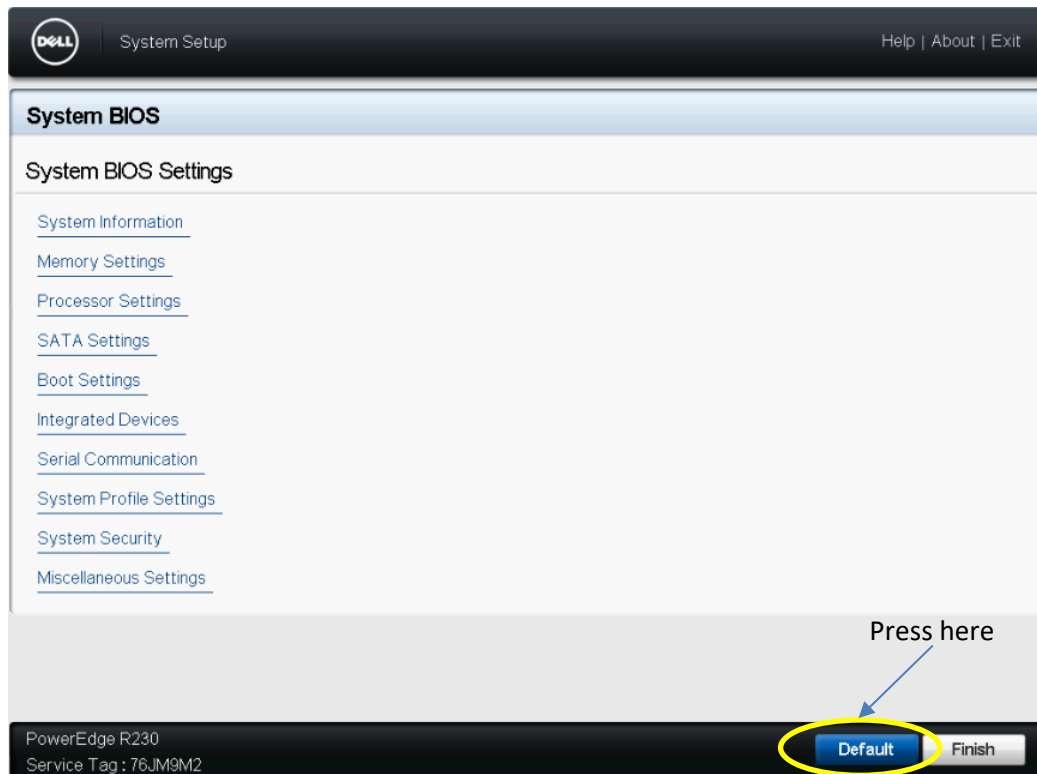
Prepared by
Tracy Tan

Contents

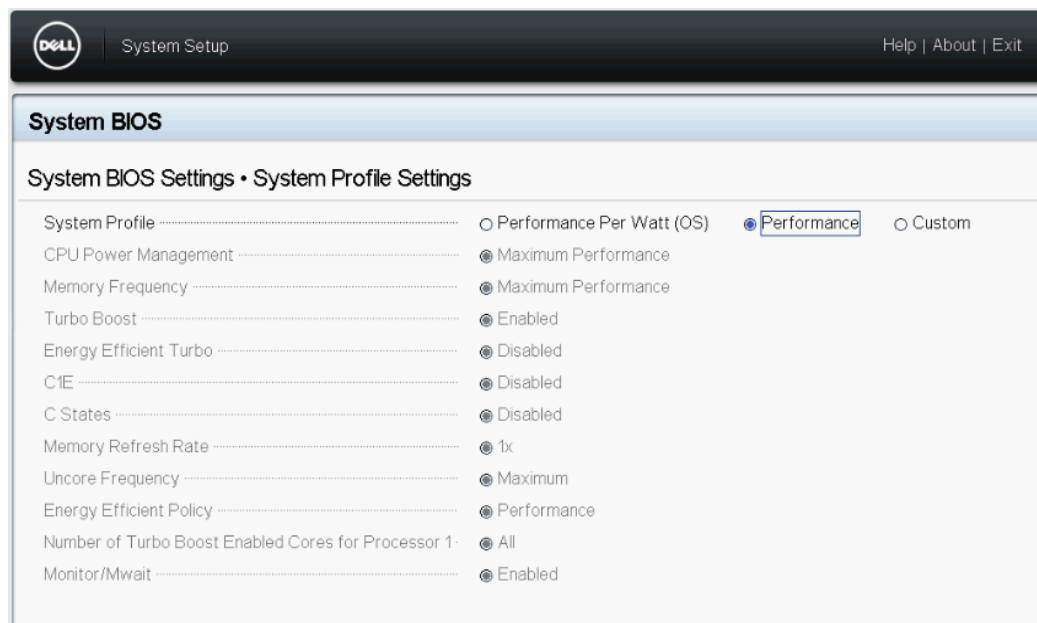
SERVER FULL CONFIGURATION - DELL	2
UPDATE DELL SERVER FIRMWARE THROUGH IKVM AND USB DRIVE	8
UPDATE FIRMWARE BY USING IKVM	11
UPDATE FIRMWARE BY USING LIFECYCLE CONTROLLER BY USING USB DRIVE	14

SERVER FULL CONFIGURATION - DELL


- 1) Enter to system setup/bios page >> choose *System Bios* >> choose *Default*



- 2) System Profile Settings >> System Profile >> Performance



- 3) Go to *iDRAC Settings >> User Configuration >> Password* must set to default



System Setup

Help | About | Exit

iDRAC Settings

iDRAC Settings • User Configuration

User ID 2

Enable User ☐ Disabled ☒ Enabled


User Name root


LAN User Privilege Administrator

Serial Port User Privilege Administrator

Change Password

Default password=calvin

 WARNING: The default user name and or password has been detected and pose a security risk. To reduce a security risk, create a unique user name and password.

 Enter a password with up to 20 characters. The characters are masked. The following characters are supported: 0-9, A-Z, a-z, Special characters: ... (Press <F1> for more help)

PowerEdge R230

Service Tag : 76JM9M2

Back

- 4) Back to iDRAC Settings >> *Network*

COMMON SETTINGS

Register DRAC on DNS ☐ Disabled ☒ Enabled

DNS DRAC Name

Auto Config Domain Name ☒ Disabled ☐ Enabled

Static DNS Domain Name

DNS DRAC Name = Server Tag

- ### 5) Enable DHCP

IPV4 SETTINGS

Enable IPv4 ☐ Disabled ☒ Enabled

Enable DHCP ☐ Disabled ☒ Enabled

Static IP Address

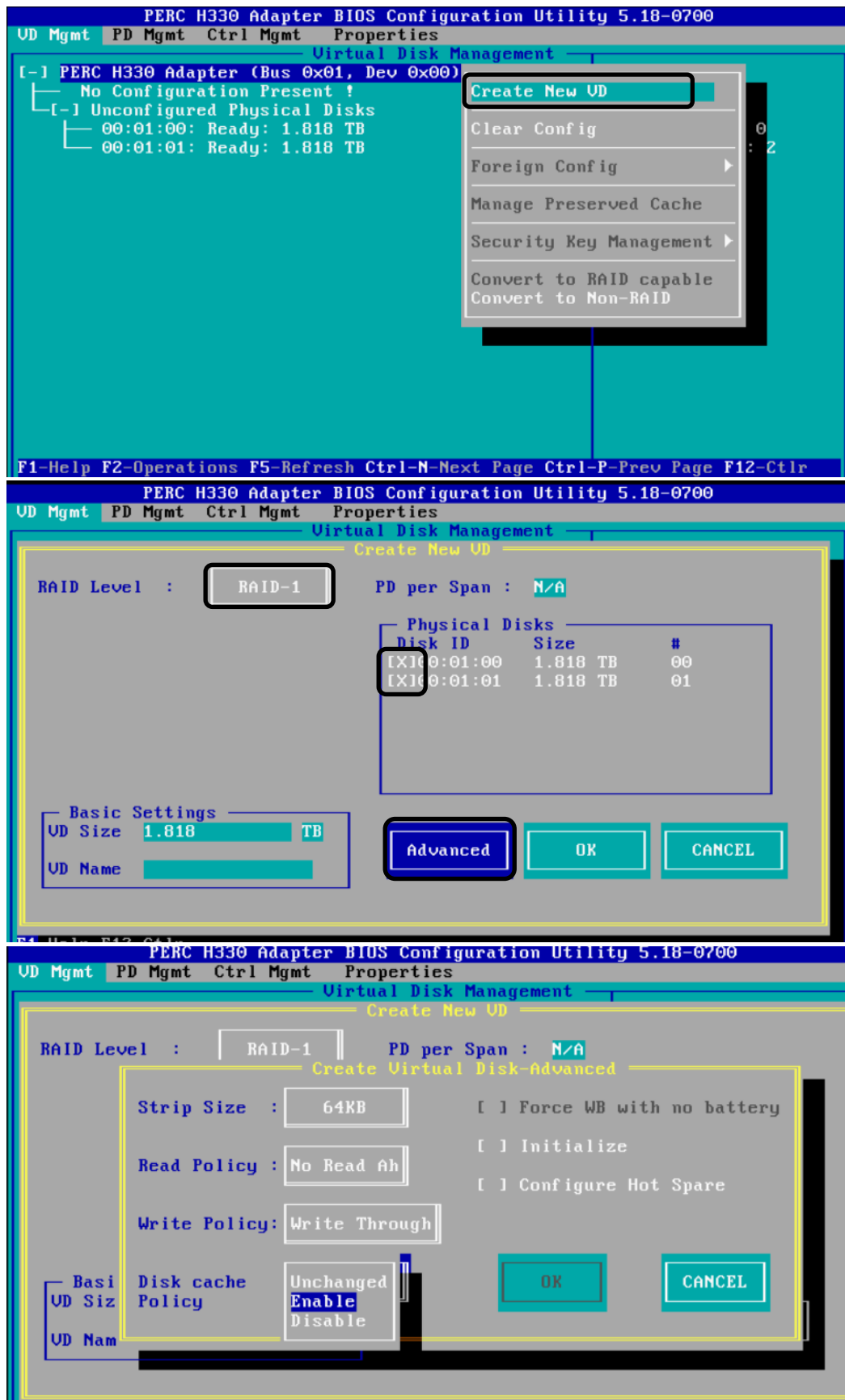
Static Gateway

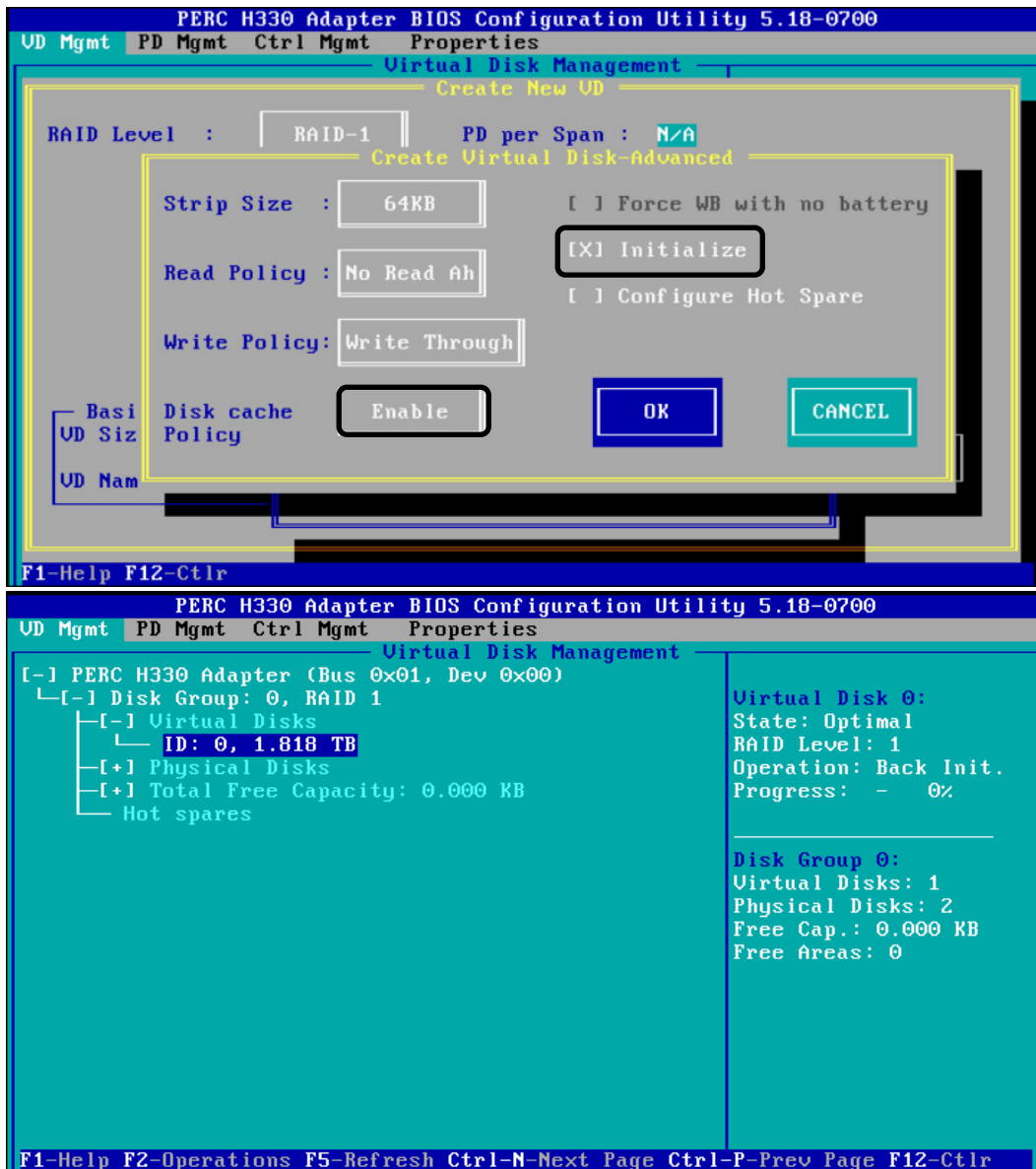
Static Subnet Mask

- ## 6) Enable IPMI Over LAN

[illegible]

7) Configure RAID 1 in Raid Controller

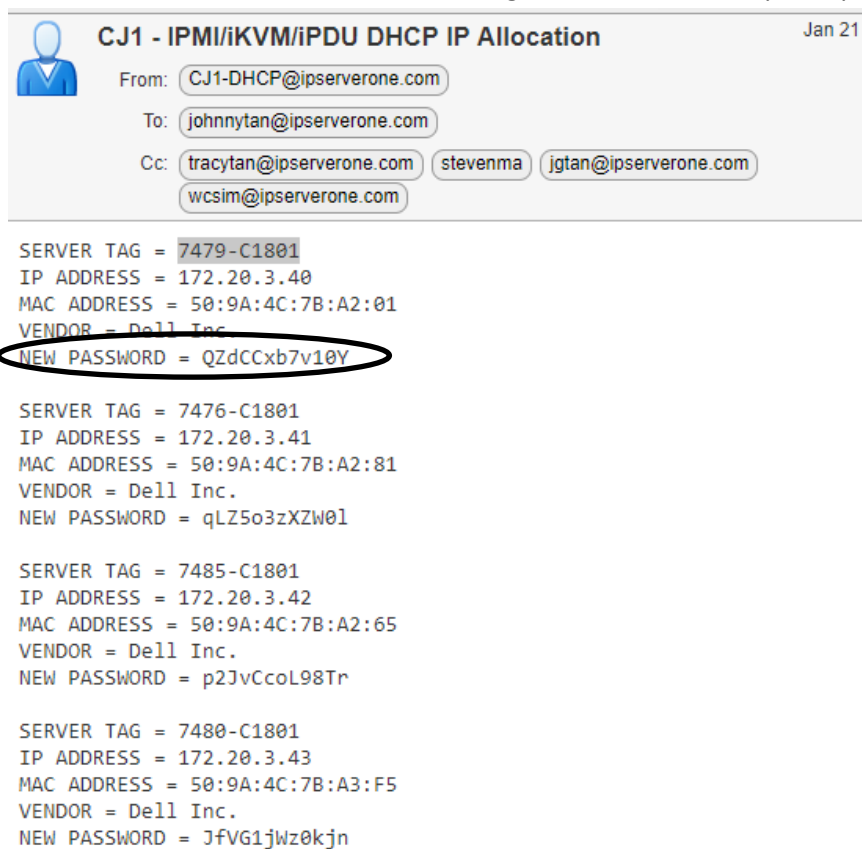




- 8) Login to iKVM >> after successfully login please log out again.



- 9) After received email from DHCP server, login into IProbot and update password.



10) Login into iKVM and verify the IP had change to static IP.

The screenshot shows the Dell iDRAC Network configuration page. The left sidebar contains a navigation menu with options like Overview, Server, Logs, Power / Thermal, Virtual Console, Alerts, Setup, Troubleshooting, Licenses, Intrusion, iDRAC Settings, Network, User Authentication, Update and Rollback, Server Profile, Sessions, Hardware, Storage, and Host OS. The main content area is titled 'Network' and includes tabs for SSL, Serial, Serial Over LAN, Services, and OS to iDRAC Pass-through. The 'Auto Config' section shows 'Enable DHCP Provisioning' set to 'Disable'. The 'IPv4 Settings' section is highlighted, showing a table of attributes and values. A red box highlights the 'DHCP Enable' checkbox, which is currently checked. A blue arrow points from this checkbox to a text box that says 'Make sure DHCP Enable is untick'. The 'Static IP Address' is set to '172.20.3.40', 'Static Gateway' to '172.20.0.1', and 'Static Subnet Mask' to '255.255.0.0'. The 'IPv6 Settings' section is also visible, showing 'Enable IPv6' as unchecked and 'Autoconfiguration Enable' as checked.

Attribute	Value
Enable IPv4	<input checked="" type="checkbox"/>
DHCP Enable	<input checked="" type="checkbox"/>
Static IP Address	172.20.3.40
Static Gateway	172.20.0.1
Static Subnet Mask	255.255.0.0
Use DHCP to obtain DNS server addresses	<input type="checkbox"/>
Static Preferred DNS Server	0.0.0.0
Static Alternate DNS Server	0.0.0.0

Make sure DHCP Enable is untick

UPDATE DELL SERVER FIRMWARE THROUGH IKVM AND USB DRIVE

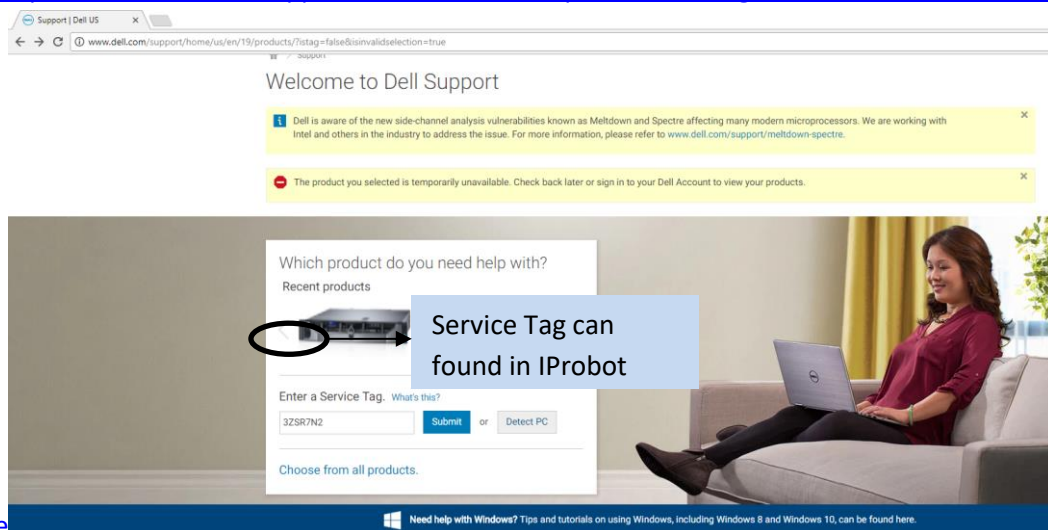
- 1) Login server ikvm page and look on server information to find out the current firmware used in particular server.

Firmware Inventory ▲ Back To Top

Component	Firmware Version
Integrated Dell Remote Access Controller	2.50.50.50
Broadcom Gigabit Ethernet BCM5720 - 50:9A:4C:7B:A2:63	20.6.52
Broadcom Gigabit Ethernet BCM5720 - 50:9A:4C:7B:A2:64	20.6.52
BIOS	2.3.2
Lifecycle Controller	2.50.50.50
Dell 32 Bit uEFI Diagnostics, version 4239, 4239A36, 4239.44	4239A36
Dell OS Driver Pack, 17.08.10, A00	17.08.10
OS COLLECTOR 2.1, A00	2.1
System CPLD	1.0.0
PERC H330 Adapter	25.5.3.0005
Disk 0 in Backplane 1 of RAID Controller in Slot 2	EG02
Disk 1 in Backplane 1 of RAID Controller in Slot 2	EG02
BP13G+ 0:1	2.25

- 2) Search latest firmware at Dell official website:

<http://www.dell.com/support/home/us/en/19/products/?istag=false&isinvalidselection=true>



3) Search for drivers & downloads section and choose for Not Applicable.

The screenshot shows the Dell Support website for PowerEdge R230. The left sidebar contains links: 'Support topics & articles', 'Drivers & downloads' (circled), 'Manuals & documents', 'Warranty', 'System configuration', and 'Parts & accessories'. The main content area is titled 'Drivers & downloads'. It features a search bar and filters. The 'Operating system' dropdown is set to 'Not Applicable' (circled). Other filters include 'Keyword', 'Category' (set to 'All'), and 'Format' (set to 'All'). There is a checkbox for 'Show urgent downloads only'.

4) Search for BIOS/Lifecycle controller/Raid Controller firmware

The screenshot shows the search results for BIOS firmware. The 'Category' is set to 'BIOS'. The results table has columns: 'Name', 'Category', 'Last Updated', and 'Download'. The first result is 'Dell Server PowerEdge R330/R230/T330/T130 BIOS Version 2.3.2'. Below the table, the 'Importance' is 'Urgent', the 'Version' is '2.3.2, 2.3.2', and the 'Release Date' is '21 Nov 2017'. The 'File Name' is 'BIOS_832M2_WN32_2.3.2_02.EXE' (highlighted with a box), and there is a link for 'Other formats'. An arrow points to the file name with the text 'Choose for WIN32.exe version only'. The 'File size' is '14.62 MB' and the 'Description' is 'PowerEdge R330/R230/T330/T130 BIOS Version 2.3.2'. A 'Restart required' button is at the bottom.

Keyword :

Enter a driver name or keyword

Operating system :

Not Applicable

Category :

iDRAC with Lifecycle controller

Format :

All

☐ Show urgent downloads only

Add Selected to Download List

Name	Category	Last Updated	Download
<input type="checkbox"/> <div> <div>iDRAC with Lifecycle Controller 2.50.50.50</div> <div>Importance: Recommended</div> <div>Version: 2.50.50.50 ,A00</div> <div>Release Date: 26 Sep 2017</div> <div>File Name: iDRAC-with-Lifecycle-Controller_Firmware_278FC_WN32_2.50.50.50_A00.EXE Other formats</div> <div>File size: 101.37 MB</div> <div>Description: iDRAC with Lifecycle Controller 2.50.50.50</div> </div>	iDRAC with Lifecycle controller	29 Nov 2017	Download

Choose for WIN32.exe version only

Keyword :

Enter a driver name or keyword

Operating system :

Not Applicable

Category :

SAS RAID

Format :

All

☐ Show urgent downloads only

Add Selected to Download List

Name	Category	Last Updated	Download
<input type="checkbox"/> <div> <div>Dell PERC H330 Mini/Adapter RAID Controllers firmware version 25.5.4.0006</div> <div>Importance: Urgent</div> <div>Version: 25.5.4.0006 ,A10 Older versions</div> <div>Release Date: 11 Jan 2018</div> <div>File Name: SAS-RAID_Firmware_V4G60_WN32_25.5.4.0006_A10.EXE Other formats</div> <div>File size: 6.99 MB</div> <div>Description: Dell PERC H330 Mini/Adapter RAID Controllers firmware version</div> </div>	SAS RAID	18 Jan 2018	Download

Choose for WIN32.exe version only

UPDATE FIRMWARE BY USING IKVM

1) Choose Update and Rollback

System Summary

Server Health

☒ Batteries

☒ Fans


☒ Intrusion

☒ Removable Flash Media

☒ Temperatures

☒ Voltages

Virtual Console Preview



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

Server Information

Power State	ON
System Model	PowerEdge R230
System Revision	1
System Host Name	MINWINPC
Operating System	
Operating System Version	
Service Tag	32SR7N2
Express Service Code	8694962030
BIOS Version	2.3.2
Firmware Version	2.50.50.50
IP Address(es)	172.20.3.42
IDRAC MAC Address	50:9A:4C:7B:A2:65
DNS Domain Name	
Lifecycle Controller Firmware	2.50.50.50
IDSDM Firmware Version	N/A
Location	

Quick Launch Tasks

Power ON / OFF

Power Cycle System (cold boot)

System ID LED ON/OFF ☐

[View Logs](#)

Update and Rollback

Reset iDRAC

2) Choose your file path >> upload

Firmware

Update | Rollback

Firmware Update

Update | Automatic Update

File Location ☒ Local ☐ Network Share ☐ FTP ☐ TFTP ☐ HTTP

Single Update Location

File Path SAS-RAID_Firmwar...4.0006_A10.EXE

Firmware Update

UpdateAutomatic Update

File Location.....

☒ Local
☐ Network Share
☐ FTP
☐ TFTP
☐ HTTP

Single Update Location

File Path

Choose File

No file chosen

Upload

Update Details

<input checked="" type="checkbox"/>	Contents	Criticality	Status
<input checked="" type="checkbox"/>	<div> <div>+</div> <div>SAS-RAID_Firmware_V4G60_WN32_25.5.4.0006_A10.EXE</div> </div>	Urgent	Package successfully downloaded.

Cancel

Install and Reboot

Install Next Reboot

You may go Job Queue to verify update process.

Properties

Attached Media

vFlash

Service Module

Job Queue

Job Queue

	ID	Job	Status
	JID_169017408254	Firmware Update: RAID	New

Start Time: Not Applicable

Expiration Time: Not Applicable

Message: RED023. Lifecycle Controller in use. This job will start when Lifecycle Controller is available.

If you saw this error, please make sure your lifecycle controller is fully turn off

Delete

When you saw this message, mean the update process is running.

Job Queue

ID	Job	Status
RID_169022621028	Reboot: Graceful OS shutdown with powercycle on timeout	Reboot Completed
JID_169017408254	Firmware Update: RAID	Running

Start Time: Next Reboot
Expiration Time: Not Applicable
Message: PR22: Job in progress.

7485-C1801, PowerEdge R230, User root, 2.0 fps

File View Macros Tools Power Next Boot Virtual Media Help

Automated Task Application

RAID Update [JID_169017408254]

Current Status

Task In Progress

Task Time Limit

9:00:00

Elapsed Time

00:29

Task

1 of 1

Total Elapsed Time

00:00:29

Tasks are running normally.

Do not reboot, press CTRL+ALT+DEL, or turn off the server. The system will reboot automatically when complete.

PowerEdge R230

Service Tag: J27W17N2

Current User(s): root : 172.20.0.3

6) Completed

Job Queue

	ID	Job	Status
+	RID_169022621028	Reboot: Graceful OS shutdown with powercycle on timeout	Reboot Completed
-	JID_169017408254	Firmware Update: RAID	Completed

Start Time: Next Reboot
Expiration Time: Not Applicable
Message: PR19: Job completed successfully.

7) Verification

Firmware Inventory

Component	Firmware Version
Integrated Dell Remote Access Controller	2.50.50.50
Broadcom Gigabit Ethernet BCM5720 - 50:9A:4C:7B:A2:63	20.6.52
Broadcom Gigabit Ethernet BCM5720 - 50:9A:4C:7B:A2:64	20.6.52
BIOS	2.3.2
Lifecycle Controller	2.50.50.50
Dell 32 Bit uEFI Diagnostics, version 4239, 4239A36, 4239.44	4239A36
Dell OS Driver Pack, 17.08.10, A00	17.08.10
OS COLLECTOR 2.1, A00	2.1
System CPLD	1.0.0
PERC H330 Adapter	25.5.4.0006
Disk 0 in Backplane 1 of RAID Controller in Slot 2	EG02
Disk 1 in Backplane 1 of RAID Controller in Slot 2	EG02
BP13G+ 0:1	2.25

→ Version updated

Firmware Inventory

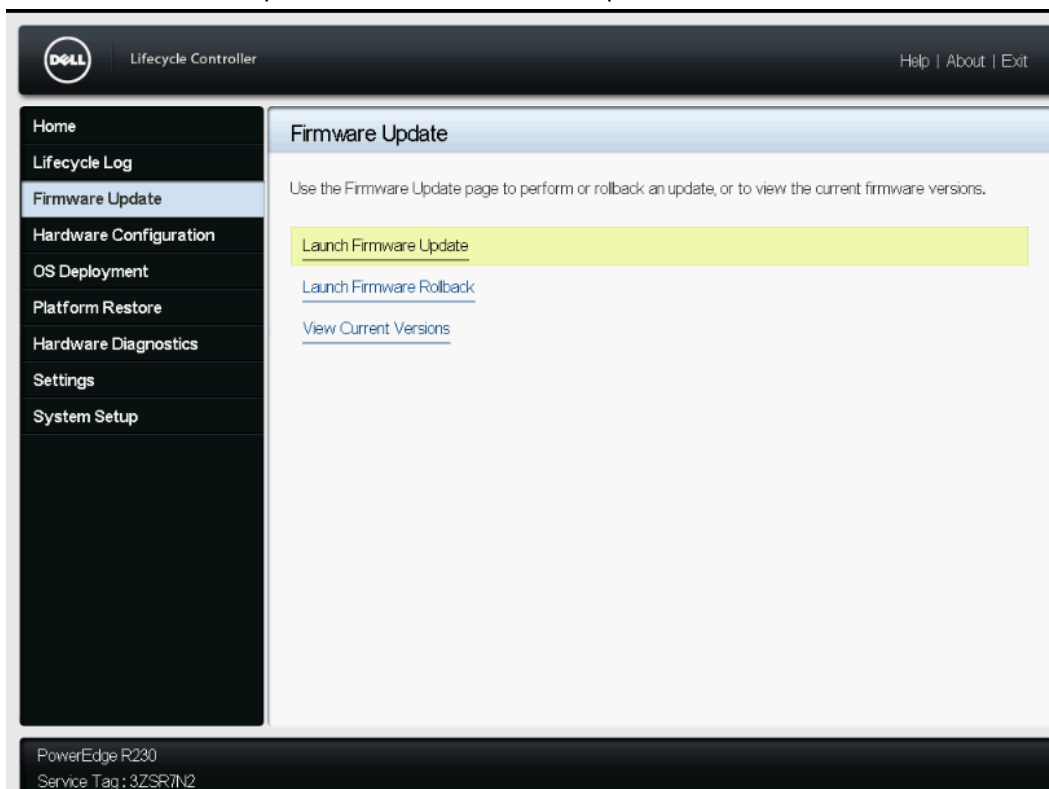
Component	Firmware Version
Integrated Dell Remote Access Controller	2.50.50.50
Broadcom Gigabit Ethernet BCM5720 - 50:9A:4C:7B:A2:63	20.6.52
Broadcom Gigabit Ethernet BCM5720 - 50:9A:4C:7B:A2:64	20.6.52
BIOS	2.3.2
Lifecycle Controller	2.50.50.50
Dell 32 Bit uEFI Diagnostics, version 4239, 4239A36, 4239.44	4239A36
Dell OS Driver Pack, 17.08.10, A00	17.08.10
OS COLLECTOR 2.1, A00	2.1
System CPLD	1.0.0
PERC H330 Adapter	25.5.3.0005
Disk 0 in Backplane 1 of RAID Controller in Slot 2	EG02
Disk 1 in Backplane 1 of RAID Controller in Slot 2	EG02
BP13G+ 0:1	2.25

UPDATE FIRMWARE BY USING LIFECYCLE CONTROLLER BY USING USB DRIVE

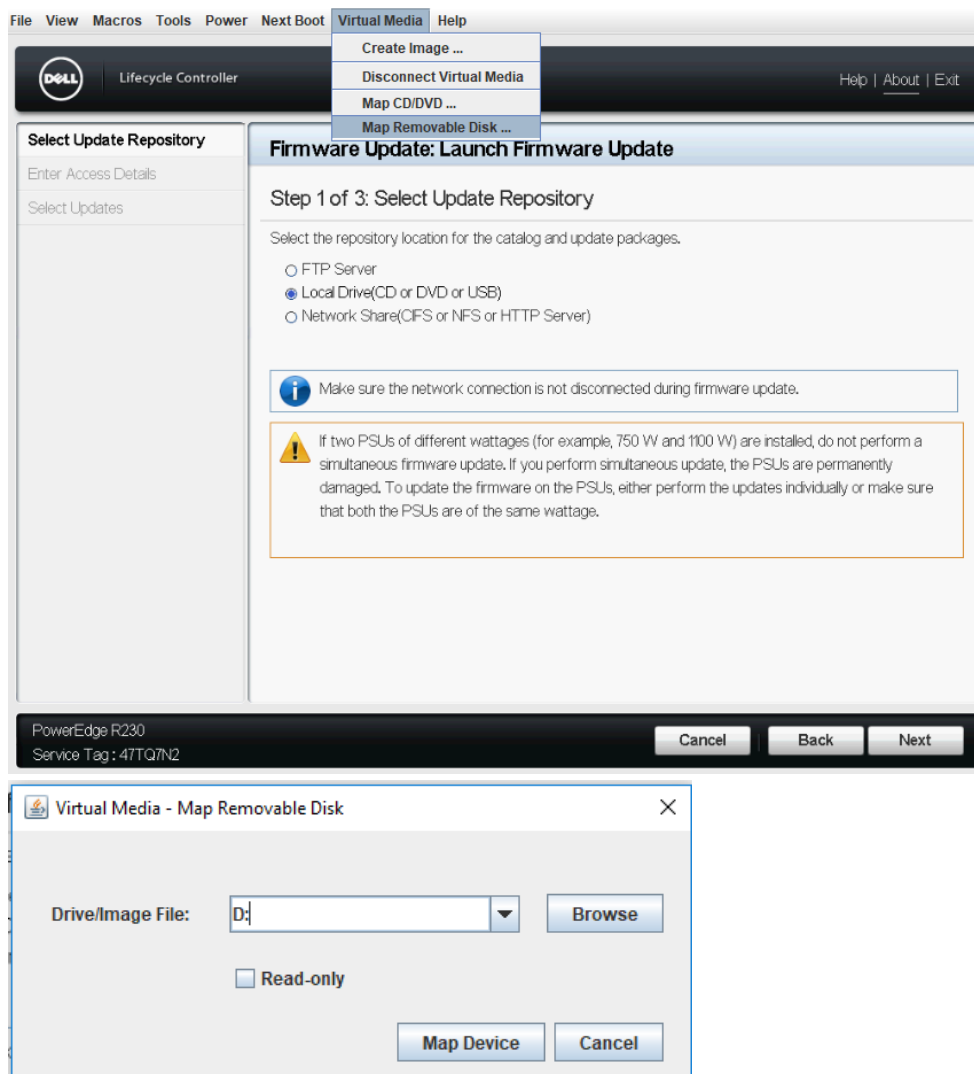
- 1) Press F10 for connecting LifeCycle Controller



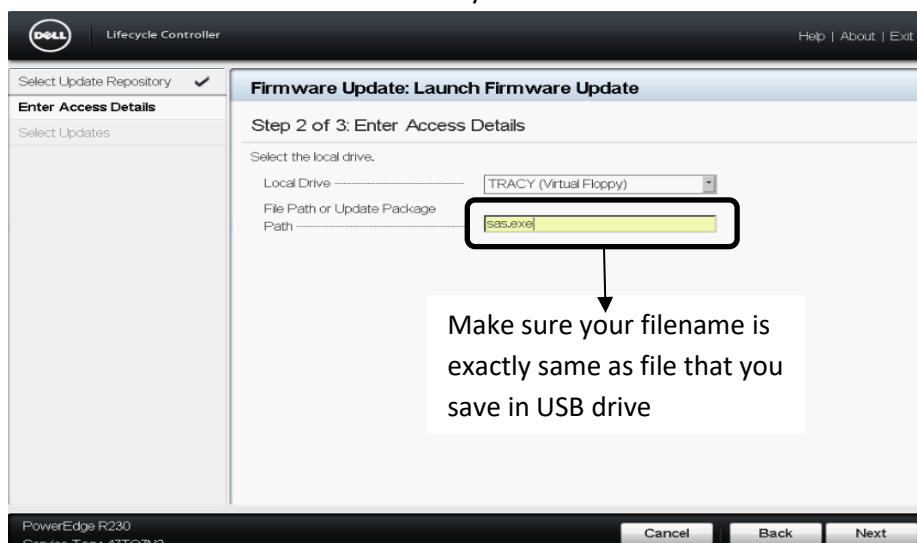
- 2) Access to Firmware Update >> Launch Firmware Update



- 3) Map your USB Drive using virtual Media from your own PC or physically plug in USB drive into server. You may skip the step of Map Removable Disk if you are physically plug in USB drive into server.



- 4) Choose Local Drive >> Next >> Choose your Local Drive



5) Select Updates and Apply

Select Update Repository ✓

Enter Access Details ✓

Select Updates

Firmware Update: Launch Firmware Update

Step 3 of 3: Select Updates


Use the table to select available updates.

Release Date: 2018-01-09

Source: USB or CD or DVD (TRACY (Virtual Floppy)\sas.exe)

Available System Updates

Component	Current	Available
<input checked="" type="checkbox"/> PERC H330 Adapter	25.5.3.0005	25.5.4.0006

 System will reboot after selected updates are applied.

PowerEdge R230

Service Tag : 47TQ7N2

Cancel

Back

Apply

6) Update process

7485-C1801, PowerEdge R230, User: root, 2.0 fps

File View Macros Tools Power Next Boot Virtual Media Help

Automated Task Application

Help | About

RAID Update (JID_1690...

RAID Update (JID_169017408254)

Current Status

Task in Progress

Task Time Limit

5 mins

Elapsed Time


00:29


Task

1 of 1

Total Elapsed Time

00:00:29

 Tasks are running normally.

 Do not restart, press CTRL+ALT+DEL, or turn off the server. The system will restart automatically when complete.

PowerEdge R230

Service Tag : 3ZSR7N2

Current User(s): root: 172.20.0.3

7) Completed and verify the version is updated.