2025-08-26 Fsas / Veeam Ready Appliance Verification

Verification Team:
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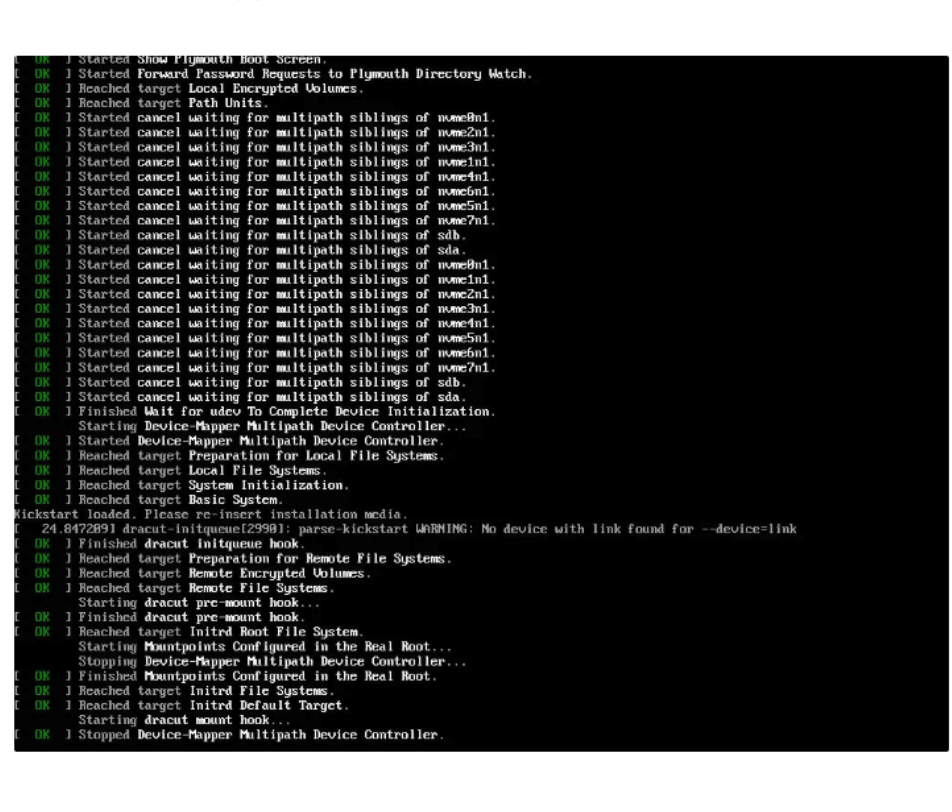
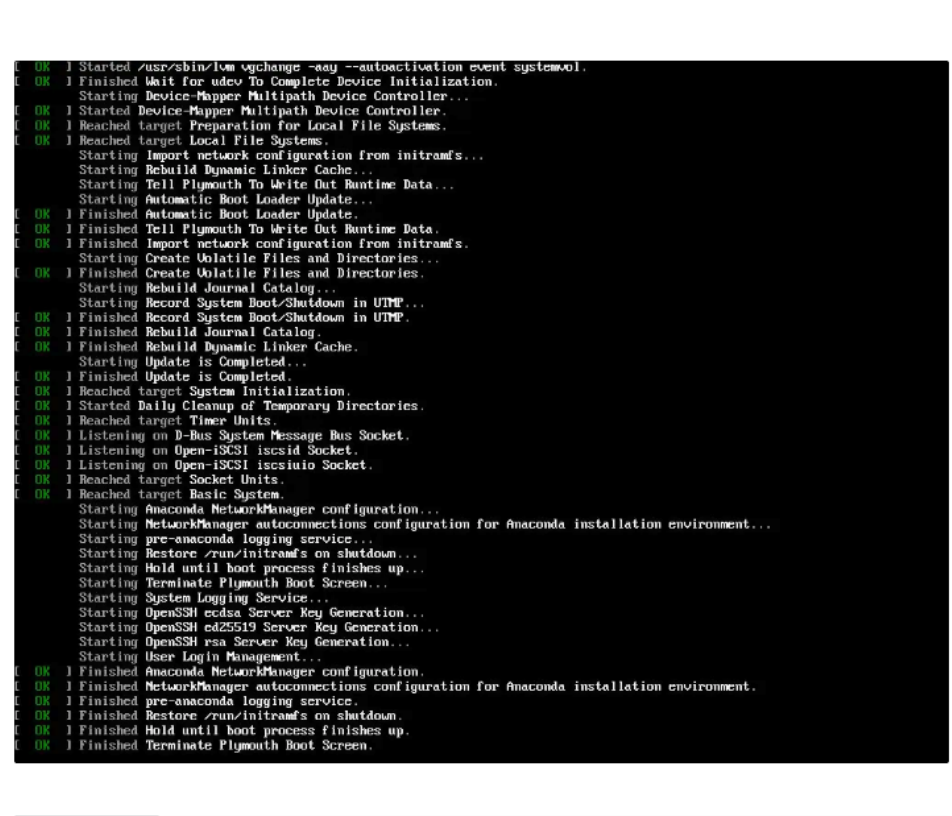
2025-08-26 Veeam Ready Appliance Verification Fsas PRIMERGY RX2540 M7

Verification Pathway

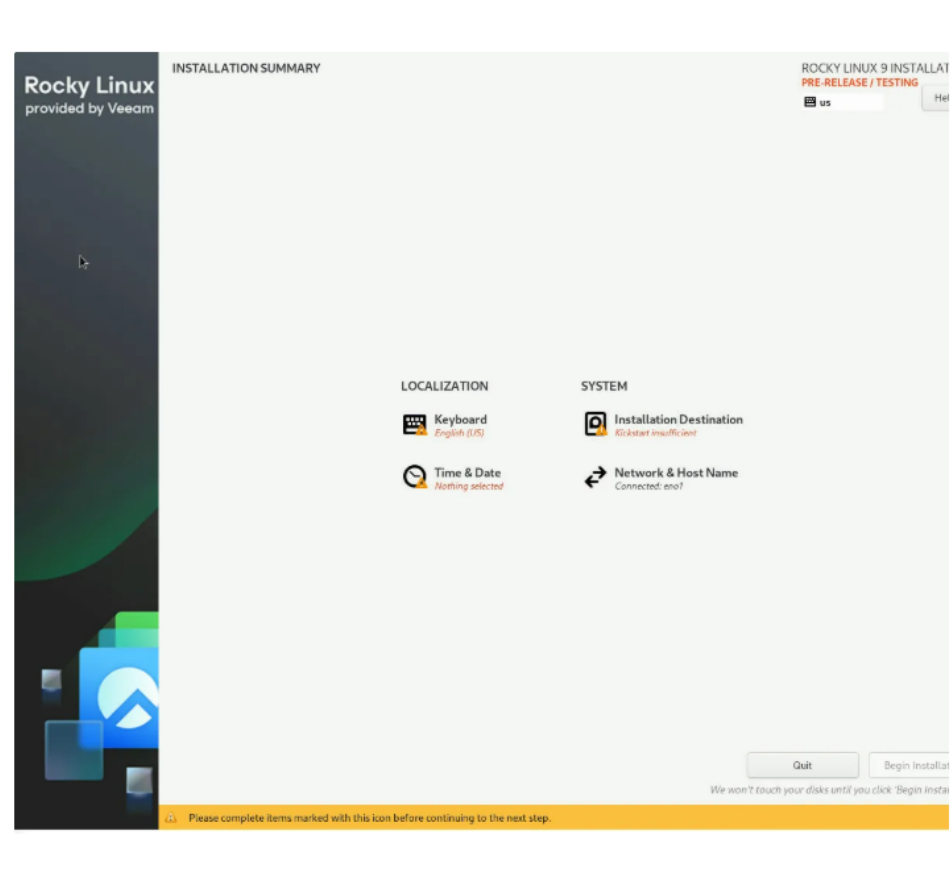
Install Veeam Appliance ISO File:

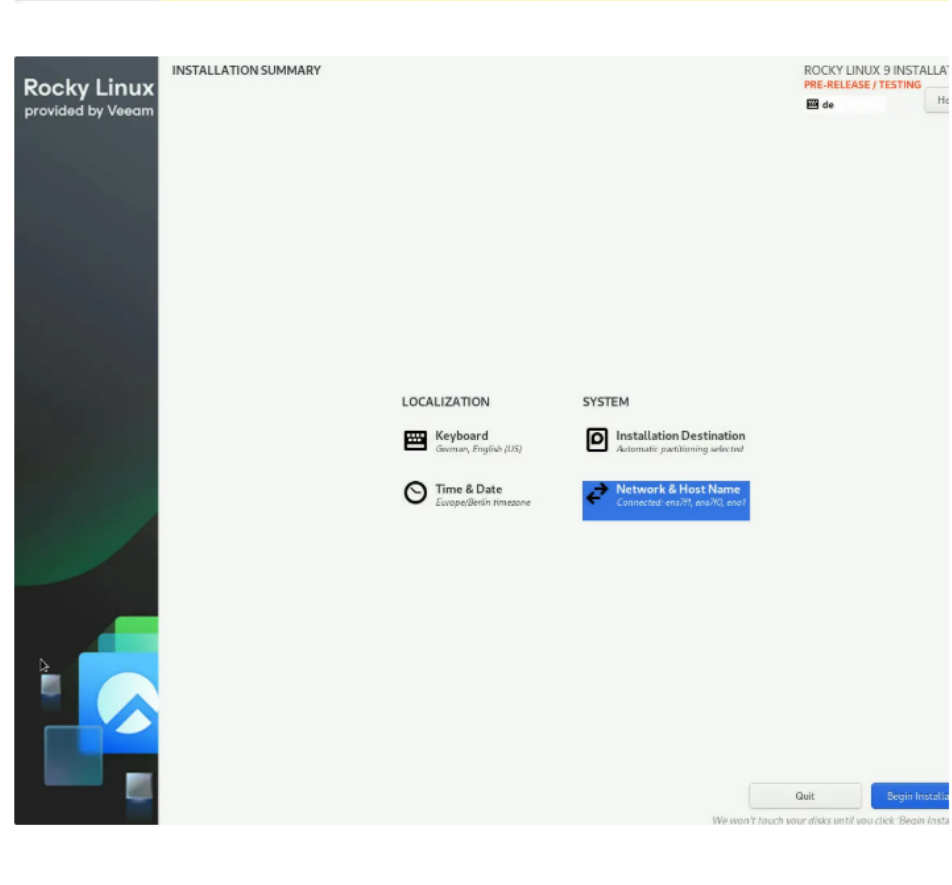


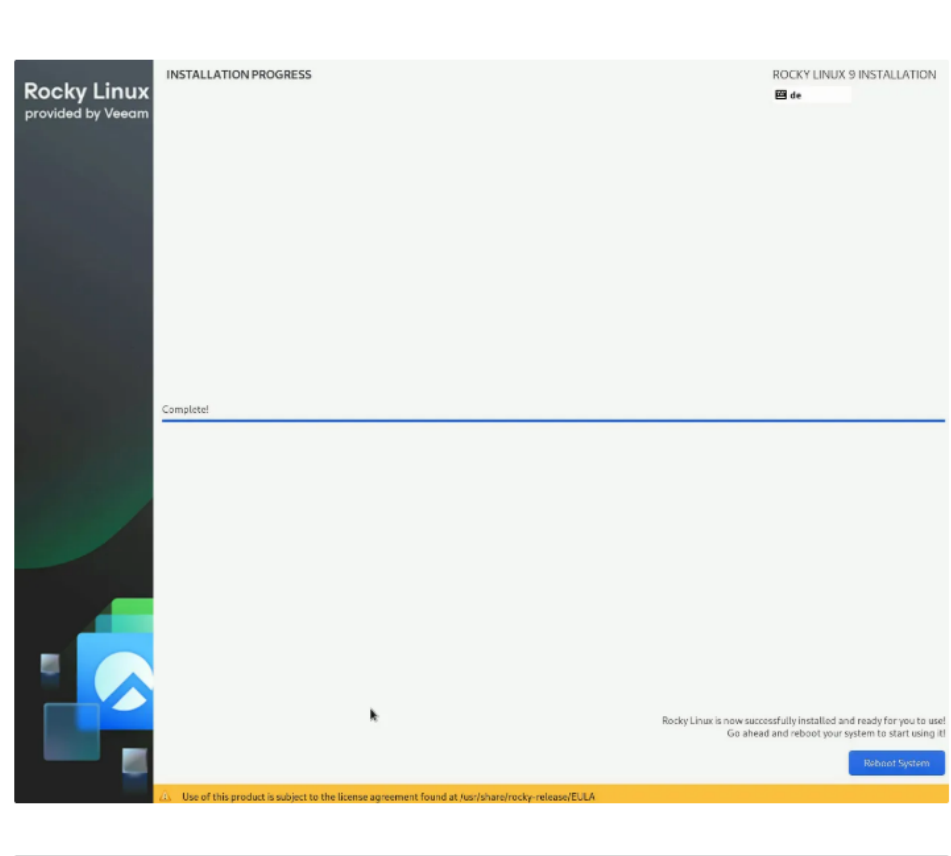
```
[  OK  ] Started Show Plymouth Boot Screen.
[  OK  ] Started Forward Password Requests to Plymouth Directory Watch.
[  OK  ] Reached target Local Encrypted Volumes.
[  OK  ] Reached target Path Units.
[  OK  ] Started cancel waiting for multipath siblings of nvme0n1.
[  OK  ] Started cancel waiting for multipath siblings of nvme2n1.
[  OK  ] Started cancel waiting for multipath siblings of nvme3n1.
[  OK  ] Started cancel waiting for multipath siblings of nvme1n1.
[  OK  ] Started cancel waiting for multipath siblings of nvme4n1.
[  OK  ] Started cancel waiting for multipath siblings of nvme6n1.
[  OK  ] Started cancel waiting for multipath siblings of nvme5n1.
[  OK  ] Started cancel waiting for multipath siblings of nvme7n1.
[  OK  ] Started cancel waiting for multipath siblings of sdb.
[  OK  ] Started cancel waiting for multipath siblings of sda.
[  OK  ] Started cancel waiting for multipath siblings of nvme0n1.
[  OK  ] Started cancel waiting for multipath siblings of nvme1n1.
[  OK  ] Started cancel waiting for multipath siblings of nvme2n1.
[  OK  ] Started cancel waiting for multipath siblings of nvme3n1.
[  OK  ] Started cancel waiting for multipath siblings of nvme4n1.
[  OK  ] Started cancel waiting for multipath siblings of nvme5n1.
[  OK  ] Started cancel waiting for multipath siblings of nvme6n1.
[  OK  ] Started cancel waiting for multipath siblings of nvme7n1.
[  OK  ] Started cancel waiting for multipath siblings of sdb.
[  OK  ] Started cancel waiting for multipath siblings of sda.
[  OK  ] Finished Wait for udev To Complete Device Initialization.
         Starting Device-Mapper Multipath Device Controller...
[  OK  ] Started Device-Mapper Multipath Device Controller.
[  OK  ] Reached target Preparation for Local File Systems.
[  OK  ] Reached target Local File Systems.
[  OK  ] Reached target System Initialization.
[  OK  ] Reached target Basic System.
Kickstart loaded. Please re-insert installation media.
[   24.847289] dracut-initqueue[2990]: parse-kickstart WARNING: No device with link found for --device=link
[  OK  ] Finished dracut initqueue hook.
[  OK  ] Reached target Preparation for Remote File Systems.
[  OK  ] Reached target Remote Encrypted Volumes.
[  OK  ] Reached target Remote File Systems.
         Starting dracut pre-mount hook...
[  OK  ] Finished dracut pre-mount hook.
[  OK  ] Reached target Initrd Root File System.
         Starting Mountpoints Configured in the Real Root...
         Stopping Device-Mapper Multipath Device Controller...
[  OK  ] Finished Mountpoints Configured in the Real Root.
[  OK  ] Reached target Initrd File Systems.
[  OK  ] Reached target Initrd Default Target.
         Starting dracut mount hook...
[  OK  ] Stopped Device-Mapper Multipath Device Controller.
```

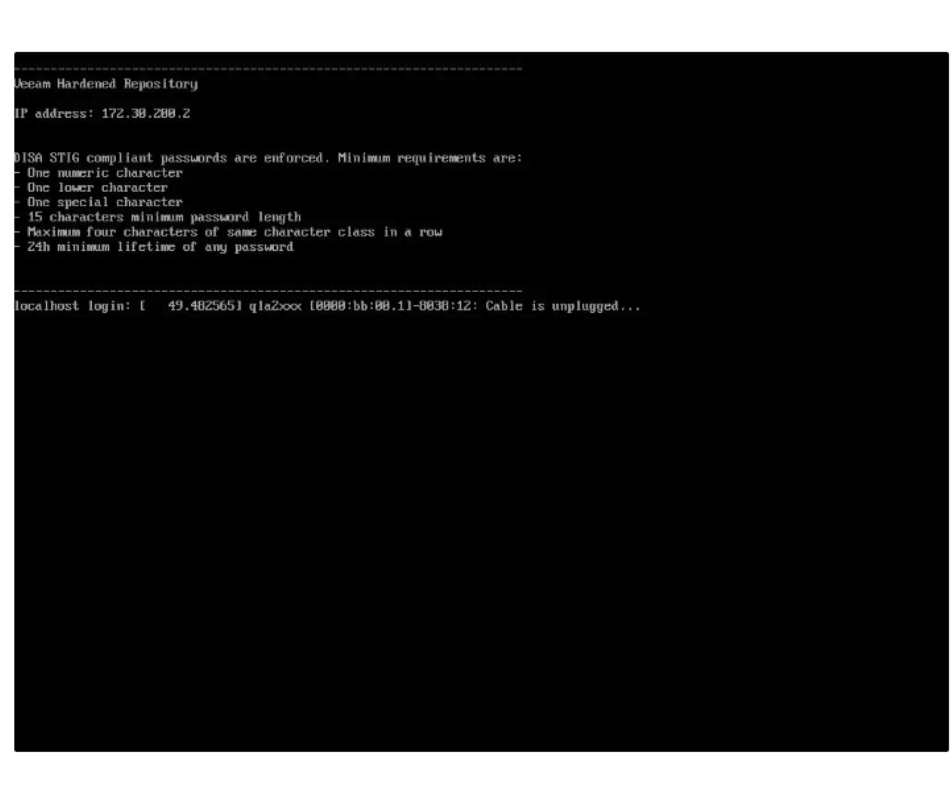


```
[  OK  ] Started /usr/sbin/lvm vgchange -aay --autoactivation event systemvol.
[  OK  ] Finished Wait for udev To Complete Device Initialization.
         Starting Device-Mapper Multipath Device Controller...
[  OK  ] Started Device-Mapper Multipath Device Controller.
[  OK  ] Reached target Preparation for Local File Systems.
[  OK  ] Reached target Local File Systems.
         Starting Import network configuration from initramfs...
         Starting Rebuild Dynamic Linker Cache...
         Starting Tell Plymouth To Write Out Runtime Data...
         Starting Automatic Boot Loader Update...
[  OK  ] Finished Automatic Boot Loader Update.
[  OK  ] Finished Tell Plymouth To Write Out Runtime Data.
[  OK  ] Finished Import network configuration from initramfs.
         Starting Create Volatile Files and Directories...
[  OK  ] Finished Create Volatile Files and Directories.
         Starting Rebuild Journal Catalog...
         Starting Record System Boot/Shutdown in UTMP...
[  OK  ] Finished Record System Boot/Shutdown in UTMP.
[  OK  ] Finished Rebuild Journal Catalog.
[  OK  ] Finished Rebuild Dynamic Linker Cache.
         Starting Update is Completed...
[  OK  ] Finished Update is Completed.
[  OK  ] Reached target System Initialization.
[  OK  ] Started Daily Cleanup of Temporary Directories.
[  OK  ] Reached target Timer Units.
[  OK  ] Listening on D-Bus System Message Bus Socket.
[  OK  ] Listening on Open-iSCSI iscsid Socket.
[  OK  ] Listening on Open-iSCSI iscsiuio Socket.
[  OK  ] Reached target Socket Units.
[  OK  ] Reached target Basic System.
         Starting Anaconda NetworkManager configuration...
         Starting NetworkManager autoconnections configuration for Anaconda installation environment...
         Starting pre-anaconda logging service...
         Starting Restore /run/initramfs on shutdown...
         Starting Hold until boot process finishes up...
         Starting Terminate Plymouth Boot Screen...
         Starting System Logging Service...
         Starting OpenSSH ecdsa Server Key Generation...
         Starting OpenSSH ed25519 Server Key Generation...
         Starting OpenSSH rsa Server Key Generation...
         Starting User Login Management...
[  OK  ] Finished Anaconda NetworkManager configuration.
[  OK  ] Finished NetworkManager autoconnections configuration for Anaconda installation environment.
[  OK  ] Finished pre-anaconda logging service.
[  OK  ] Finished Restore /run/initramfs on shutdown.
[  OK  ] Finished Hold until boot process finishes up.
[  OK  ] Finished Terminate Plymouth Boot Screen.
```



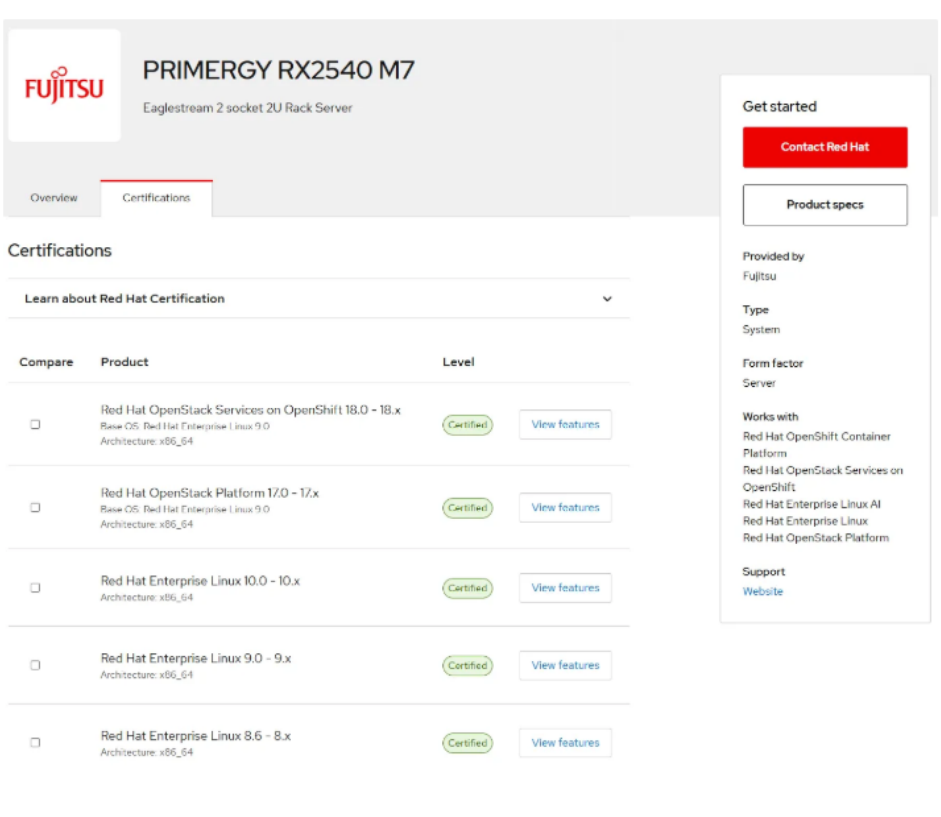



Rocky Linux
provided by Veeam
INSTALLATION PROGRESS
ROCKY LINUX 9 INSTALLATION
de
Complete!
Rocky Linux is now successfully installed and ready for you to use!
Go ahead and reboot your system to start using it!
Reboot System
Use of this product is subject to the license agreement found at /usr/share/rocky-release/EULA



```
------------------------------------------------------------------------
Veeam Hardened Repository

IP address: 172.30.200.2

DISA STIG compliant passwords are enforced. Minimum requirements are:
- One numeric character
- One lower character
- One special character
- 15 characters minimum password length
- Maximum four characters of same character class in a row
- 24h minimum lifetime of any password

------------------------------------------------------------------------
localhost login: [   49.482565] qla2xxx [0000:bb:00.1]-8038:12: Cable is unplugged...
```

Hardware Compatibility List:



FUJITSU

PRIMERGY RX2540 M7

Eaglestream 2 socket 2U Rack Server

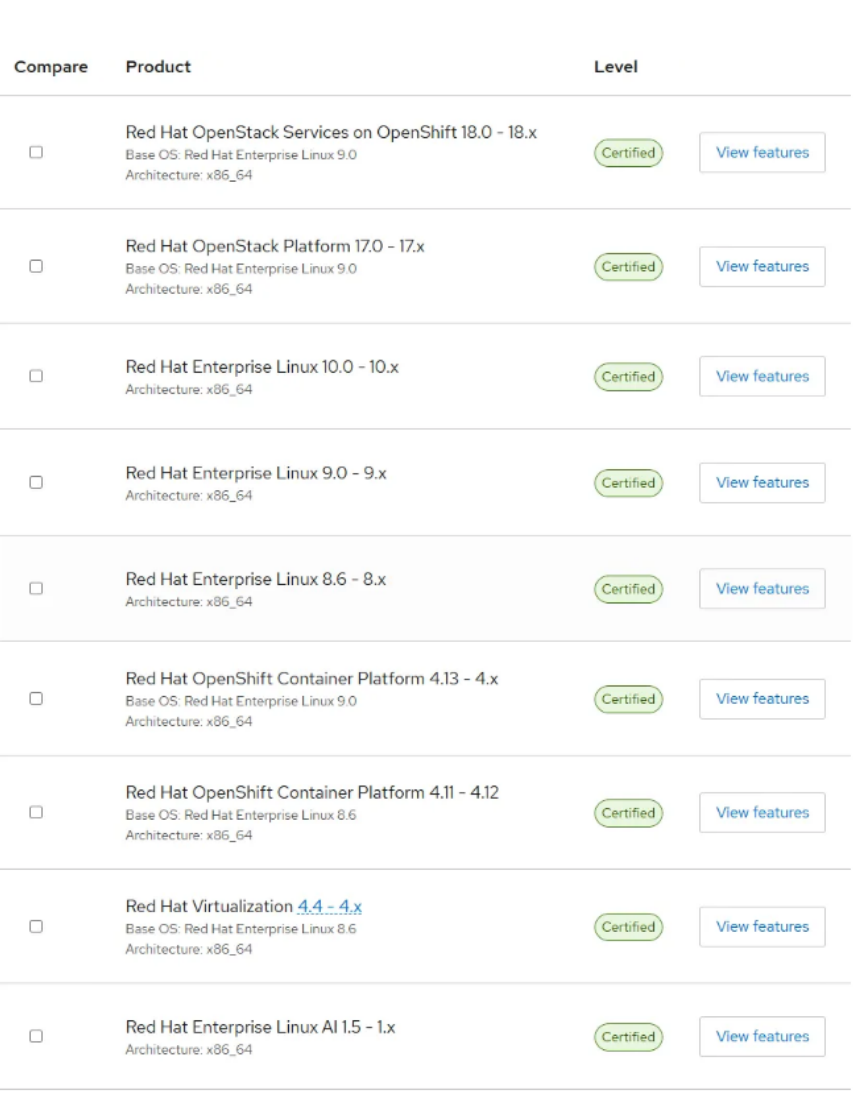
Overview | Certifications

Certifications

Learn about Red Hat Certification

Compare	Product	Level	
☐	Red Hat OpenStack Services on OpenShift 18.0 - 18.x Base OS: Red Hat Enterprise Linux 9.0 Architecture: x86_64	Certified	View features
☐	Red Hat OpenStack Platform 17.0 - 17.x Base OS: Red Hat Enterprise Linux 9.0 Architecture: x86_64	Certified	View features
☐	Red Hat Enterprise Linux 10.0 - 10.x Architecture: x86_64	Certified	View features
☐	Red Hat Enterprise Linux 9.0 - 9.x Architecture: x86_64	Certified	View features
☐	Red Hat Enterprise Linux 8.6 - 8.x Architecture: x86_64	Certified	View features

Get started
Contact Red Hat
Product specs
Provided by
Fujitsu
Type
System
Form factor
Server
Works with
Red Hat OpenShift Container Platform
Red Hat OpenStack Services on OpenShift
Red Hat Enterprise Linux AI
Red Hat Enterprise Linux
Red Hat OpenStack Platform
Support
Website



Compare	Product	Level	
☐	Red Hat OpenStack Services on OpenShift 18.0 - 18.x Base OS: Red Hat Enterprise Linux 9.0 Architecture: x86_64	Certified	View features
☐	Red Hat OpenStack Platform 17.0 - 17.x Base OS: Red Hat Enterprise Linux 9.0 Architecture: x86_64	Certified	View features
☐	Red Hat Enterprise Linux 10.0 - 10.x Architecture: x86_64	Certified	View features
☐	Red Hat Enterprise Linux 9.0 - 9.x Architecture: x86_64	Certified	View features
☐	Red Hat Enterprise Linux 8.6 - 8.x Architecture: x86_64	Certified	View features
☐	Red Hat OpenShift Container Platform 4.13 - 4.x Base OS: Red Hat Enterprise Linux 9.0 Architecture: x86_64	Certified	View features
☐	Red Hat OpenShift Container Platform 4.11 - 4.12 Base OS: Red Hat Enterprise Linux 8.6 Architecture: x86_64	Certified	View features
☐	Red Hat Virtualization 4.4 - 4.x Base OS: Red Hat Enterprise Linux 8.6 Architecture: x86_64	Certified	View features
☐	Red Hat Enterprise Linux AI 1.5 - 1.x Architecture: x86_64	Certified	View features

Redfish Support:

Golden Image Firmware Update – iRMC S6 (Fujitsu PRIMERGY)

🔍 Purpose

This guide describes how to update the Golden Image as part of the Platform Firmware Resiliency (PFR) feature on Fujitsu PRIMERGY servers using iRMC S6. The goal is to ensure firmware integrity and enable automatic recovery in case of tampering.

🛡️ Platform Firmware Resiliency (PFR) Overview

The PFR feature protects the firmware from unauthorized changes and enables automatic recovery. Before any firmware update, the image file is verified:

- ✅ The image is checked to prevent unauthorized firmware usage
- ✅ Integrity is verified to detect tampering

If the image fails verification, the system can automatically restore it using the **Golden Image**, which overwrites the compromised firmware. This process is logged in the **System Event Log (SEL)**, and all iRMC S6 settings are preserved.

⚠️ Recovery Behavior

- Do **not** power the server on or off during recovery
- The **system LED blinks white** during firmware restoration
- Recovery is triggered automatically if tampering is detected

🔄 Golden Image Update Strategies

There are two ways to update the Golden Image:

1. **Simultaneous Update** – Update both the active image and the Golden Image to the same version
2. **Separate Golden Image Update** – Update only the Golden Image to match the active image version

🌐 Updating via iRMC S6 Web Interface

Step-by-Step Instructions:

1. Log in to the **iRMC S6 web interface**
2. Navigate to the **Tools** menu
3. Open the **Update** page
4. In the **iRMC Update** section:
    - Set **Update Source** to *Image File*
    - Choose the target under **Image to be Updated** (select *Golden Image*)
5. Click **Update Golden Image** to start the process
6. Once complete, click **Restart iRMC**

🔗 Alternative Method: Redfish API

The Golden Image can also be updated via the **Redfish API**, which is ideal for automated or scripted environments. Refer to the official iRMC S6 Redfish API documentation for implementation details.

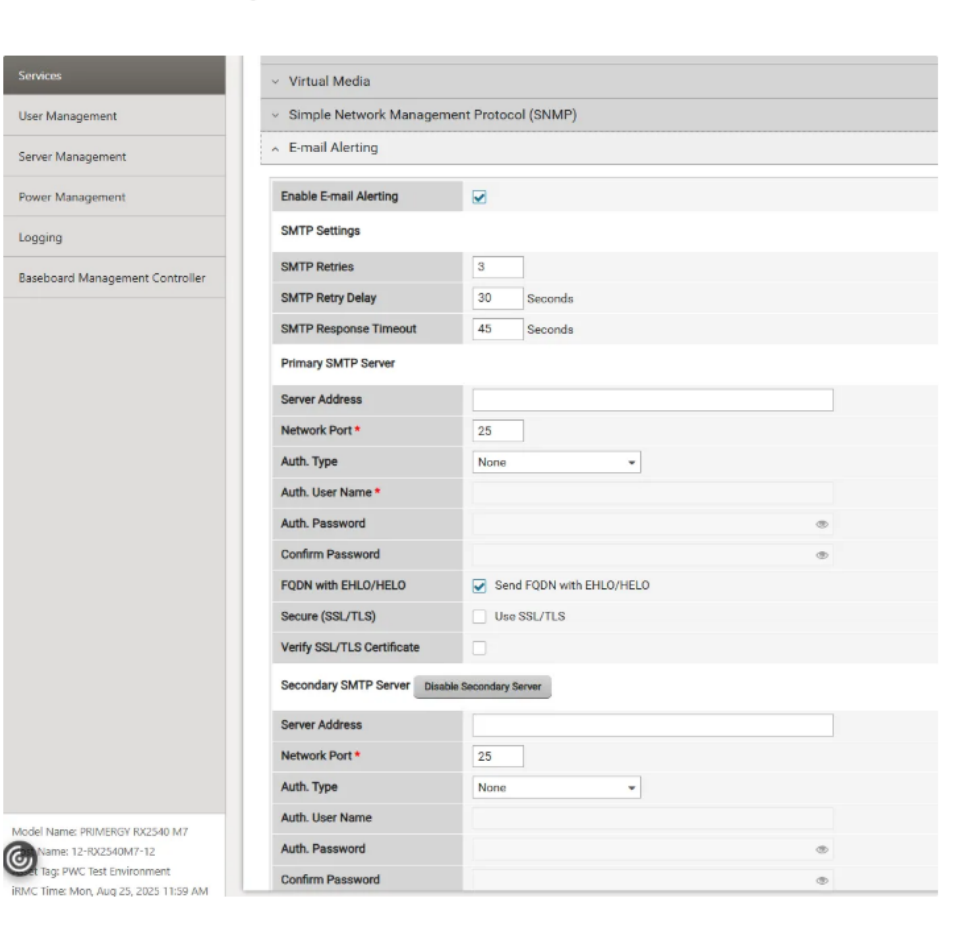
✅ Post-Update Actions

- Verify the firmware version and Golden Image status
- Check SEL logs for confirmation
- Optionally test recovery behavior in a controlled environment

📞 Support & Resources

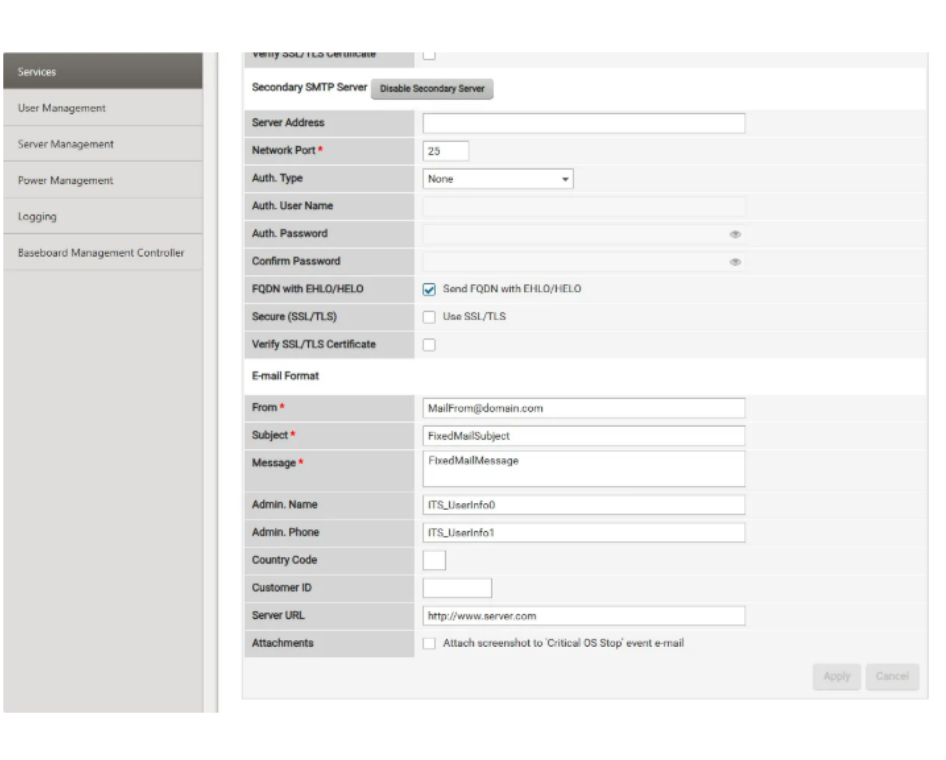
- Fujitsu Support Portal: FUJITSU Support pages EMEA
- Reference Manual: *iRMC S6 User Guide*
- Additional PFR documentation available via Fujitsu technical whitepapers

Health Monitoring:



Enable E-mail Alerting	☑
SMTP Settings	
SMTP Retries	3
SMTP Retry Delay	30 Seconds
SMTP Response Timeout	45 Seconds
Primary SMTP Server	
Server Address	
Network Port *	25
Auth. Type	None
Auth. User Name *	
Auth. Password	
Confirm Password	
FQDN with EHLO/HELO	☑ Send FQDN with EHLO/HELO
Secure (SSL/TLS)	☐ Use SSL/TLS
Verify SSL/TLS Certificate	☐
Secondary SMTP Server	Disable Secondary Server
Server Address	
Network Port *	25
Auth. Type	None
Auth. User Name	
Auth. Password	
Confirm Password	

Model Name: PRIMERGY RX2540 M7
Host Name: 12-RX2540M7-12
Asset Tag: PWC Test Environment
iRMC Time: Mon, Aug 25, 2025 11:59 AM



Secondary SMTP Server	Disable Secondary Server
Server Address	
Network Port *	25
Auth. Type	None
Auth. User Name	
Auth. Password	
Confirm Password	
FQDN with EHLO/HELO	☑ Send FQDN with EHLO/HELO
Secure (SSL/TLS)	☐ Use SSL/TLS
Verify SSL/TLS Certificate	☐
E-mail Format	
From *	MailFrom@domain.com
Subject *	FixedMailSubject
Message *	FixedMailMessage
Admin. Name	ITS_UserInfo0
Admin. Phone	ITS_UserInfo1
Country Code	
Customer ID	
Server URL	http://www.server.com
Attachments	☐ Attach screenshot to 'Critical OS Stop' event e-mail

Apply Cancel

Bill of materials (BOM):

part list: PYR2547RCN

qty.	material number	part number	description	comp. grp	serial number
1	3254C8FB	3254C8FB	PRAID EP3254-8I	CTD	
1	A26361-F1452-Z112-3-8N19	A26361-F1452-Z112-3-8N19	FIRST INFORMATION	---	
1	A26361-F1452-Z253-18-8N19	A26361-F1452-Z253-18-8N19	SAFETY INSTRUCTIONS	---	
1	A26361-F1452-Z260-1-8N19	A26361-F1452-Z260-1-8N19	WARRANTY AND SERVICE	---	
4	A3C40166880	A3C40166880	DUMMY 2_5IN SL	---	
4	A3C40192191	A3C40192191	TAG-R 960-SATA-SSD/FTS:10601926193	---	
1	A3C40202607	A3C40202607	STAND OFF NUT	---	
8	A3C40246855	A3C40246855	TAG-R 1.92TB-PCIE-SSD-SFF	---	
2	C22121-Z50-C8	C22121-Z50-C8	CABLE TIE 48MM	---	
50	C26192-Y10-C102	C26192-Y10-C102	COU SCREW M3X3.5, PH1,0.4 NM, S302	---	
1	C26192-Y10-C209	C26192-Y10-C209	REM SCREW M3X12, PZ2,0.6 NM, S501	---	
2	C26192-Y10-C67	C26192-Y10-C67	HEX SCREW M3X4.5, PZ2,0.6 NM, S306	---	
1	CA00395-0013	CA00395-0013	IRMC AVR ENABLED	SON	
1	CA00395-0014	CA00395-0014	ELCM SW LOAD	---	
2	CA00395-0060	CA00395-0060	MEMORY NORMAL MODE SETTING	SWB	
1	CA05950-2169	CA05950-2169	RAIL KIT-BALL BEARING TYPE	---	
2	CA05950-2182	CA05950-2182	DUMMY 2.5 HDD COVER (4 IN 1)	---	
1	CA05950-2743	CA05950-2743	SPI-TPM MODULE	FCS	
1	CA05973-8207	CA05973-8207	RX25X0M7_M.2_INTERPOSER	FCS	
4	CA05973-8331	CA05973-8331	MCIO 8X (MB TO HSBP_8_2.5_COMBO)	---	
1	CA05973-8350	CA05973-8350	SLIMSAS 8X (MB TO M.2 BOARD)	SON	
1	CA05973-8351	CA05973-8351	POWER CABLE 2X2 (MB TO M.2 BOARD)	SON	
1	CA05973-8375	CA05973-8375	SLIMSAS 8X TO SLIMSAS 4X (2P) Y CABLE	SON	
2	CA05973-8476	CA05973-8476	RX2540M7 2U CPU HEATSINK	SOK	
16	CA05973-8478	CA05973-8478	DDR5 DUMMY DIMM	---	
2	CA05973-8738	CA05973-8738	E1A CPU CARRIER FOR XCC EGS-SP CPU	---	
4	CA05973-8916	CA05973-8916	MCIO 8X (MB TO HSBP_8_2.5_COMBO)	SON	
1	CA05973-8926	CA05973-8926	2U AIR DUCT	---	
1	CA05973-8953	CA05973-8953	RX2540 M7 FRONT BEZEL - FIXED KEY	---	
1	CA05973-8969	CA05973-8969	RX2540M7 16X2.5`` SAS/SATA/NVME SKD	KIT	
1	CA05973-9403	CA05973-9403	MICROCHIP HDD LED CABLE (350 MM)	SON	
2	CA08888-0027	CA08888-0027	XEON GOLD 6430	PRO	
16	CA08889-1002	CA08889-1002	DDR5EC32G48R2(HMCG88MEBRA)	SPM	
12	CA32432-0188	CA32432-0188	2.5`` HDD IMP SLIM CARRIER	---	
1	CA32744-W262	CA32744-W262	ACCESSORY BOX	---	
1	CA32744-W281	CA32744-W281	BOX RX2540M7	---	
1	CA32744-Y004	CA32744-Y004	PE-BAG	---	
1	CA32744-Y125	CA32744-Y125	STRAP	---	
1	CA32744-Y262	CA32744-Y262	FRONT SPACER RX2530M7(EPE D 35kg/m3)	---	
1	CA32744-Y280	CA32744-Y280	CUSHION L RX2540M7	---	
1	CA32744-Y281	CA32744-Y281	CUSHION R RX2540M7	---	
1	CA32744-Y282	CA32744-Y282	REAR SPACER RX2540M7	---	
30	CA92276-1060	CA92276-1060	SYS RATING/ID/SN/RACK LABEL SPEC	---	
1	CA92276-1061	CA92276-1061	CTN LABEL AND PRINT INFORMATION	---	
1	CA92276-1062	CA92276-1062	CTN LABEL AND PRINT INFO FOR L PARTS	---	
1	CA92276-1064	CA92276-1064	EMS INTERNAL LABEL	---	
1	F26084-V320-A40	F26084-V320-A40	PALLET SHEET L1200 X W800 MM	---	
1	F26084-V37-E50	F26084-V37-E50	PE-BAG ORANGE	---	
1	F26084-V54-A11	F26084-V54-A11	PALLET WOOD L1200 X W800,FTS:10602506963	---	
1	INE:344242-001	INE:344242-001	INTEL XEON (ICE LAKE) LABEL RACK	---	
2	INE:E25GSFP28SRX	INE:E25GSFP28SRX	SFP28 OPTICS - SRX	CTL	
1	INE:E810XXVDA2G1P5	INE:E810XXVDA2G1P5	E810-XXVDA2 2X 25G SFP28 PCIE	CTL	
1	INE:X710T4LOCPV3G1P	INE:X710T4LOCPV3G1P	X710-T4L 4X 10GBASE-T OCPV3	CTL	
2	MOI:MTFDKBA960TFR	MOI:MTFDKBA960TFR	SSD PCIE4 960GB RI M.2	HDF	
1	NSO:SDSDQAF3-016G-I	NSO:SDSDQAF3-016G-I	16GB MICRO SDHC CARD	HDF	
2	S26113-E652-V60-1	S26113-E652-V60-1	PSU 1600W TITANIUM GEN3+	SVM	
2	SNP:A3C40093700	SNP:A3C40093700	AC CABLE HOLDER	---	
2	T26139-Y1968-C250	T26139-Y1968-C250	PWR CORD DISP 2,5M	SON	
1	TMP:CA05973-8300	TMP:CA05973-8300	RX2540M7 MB	CPO	
2	TMP:CA05973-8304	TMP:CA05973-8304	RX2540M7 HSBP 8X2.5`` COMBO	FCS	
6	TMP:CA05973-8388	TMP:CA05973-8388	6056 FAN MODULE- DUAL ROTOR	SOK	
8	TOS:KCM61RUL1T92	TOS:KCM61RUL1T92	SSD PCIE4 1.92TB RI SFF	HDF	
4	UGS:MZ7L3960HCJR	UGS:MZ7L3960HCJR	SSD SATA3 RI 960GB SFF	HDF	
1	VROCPREMMOD	VROCPREMMOD	VROC PREM UPGRADE KEY	CTD	

How to perform firmware upgrade

iRMC Firmware Update – Fujitsu PRIMERGY RX2540 M7

🔍 Purpose

This guide outlines the procedure for updating the firmware of the integrated Remote Management Controller (iRMC) on a Fujitsu PRIMERGY RX2540 M7 server. The update enhances security, stability, and functionality.

🧰 Requirements

- Fujitsu PRIMERGY RX2540 M7 server with active iRMC
- Administrator access to the iRMC web interface
- Network connection to the iRMC
- Latest firmware file from the Fujitsu support site: FUJITSU Support pages EMEA
- Optional: Backup of current iRMC configuration

📥 Downloading the Firmware

1. Visit the Fujitsu support site.
2. Select the model **RX2540 M7**.
3. Navigate to "Software" > "Management Software" > "iRMC Firmware".
4. Download the latest version (file format: .upd or .bin).

🖥️ Accessing the iRMC Web Interface

1. Open a browser and enter the iRMC IP address: https://<iRMC-IP-address>
2. Log in with administrator credentials.
3. Navigate to: **System > Firmware Update**

⚙️ Performing the Firmware Update

1. Click **"Browse"** and select the downloaded firmware file.
2. Confirm with **"Upload"**.
3. Once uploaded, the new version will appear for selection.
4. Start the update process by clicking **"Start Update"**.
5. Wait until the process completes. ⚠️ **Important:** Do not restart or power off the server during the update.

✅ Post-Update Steps

- Log back into the iRMC.
- Verify the firmware version under: **System Information > Firmware Version**
- Test key functions: remote power control, KVM, sensors, etc.
- Optionally restore a backup of the configuration.

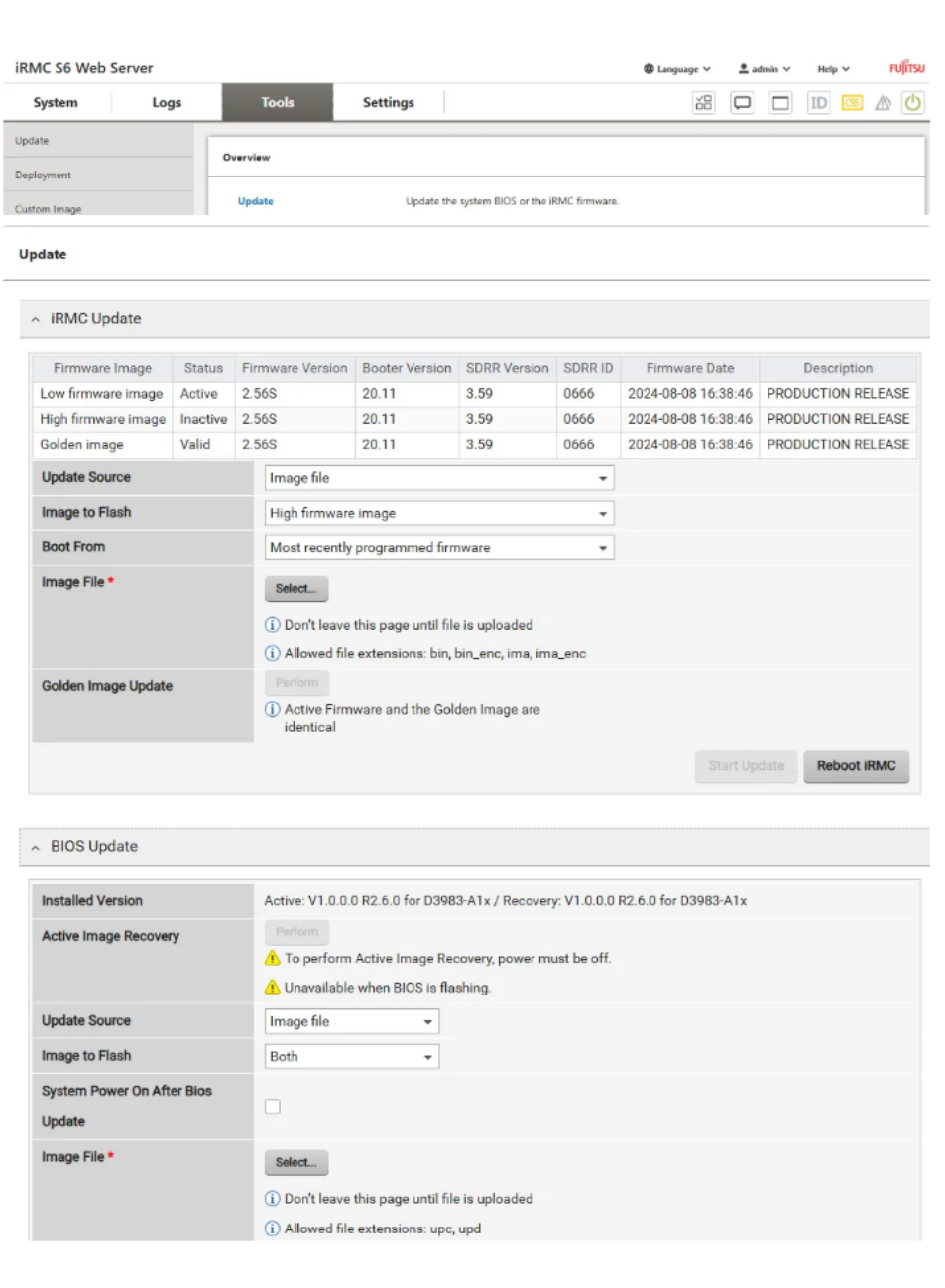
🧾 Version History & Compatibility

- Regularly check the **Release Notes** for firmware updates.
- Ensure compatibility with BIOS version and operating system.
- Incompatibility may result in limited remote access functionality.

📞 Support

For issues or questions:

- Fujitsu Support Hotline: FUJITSU Support pages EMEA
- Documentation: "iRMC S6 User Guide" (available as PDF on the support site)



Update

iRMC Update

Firmware Image	Status	Firmware Version	Booter Version	SDRR Version	SDRR ID	Firmware Date	Description
Low firmware image	Active	2.56S	20.11	3.59	0666	2024-08-08 16:38:46	PRODUCTION RELEASE
High firmware image	Inactive	2.56S	20.11	3.59	0666	2024-08-08 16:38:46	PRODUCTION RELEASE
Golden image	Valid	2.56S	20.11	3.59	0666	2024-08-08 16:38:46	PRODUCTION RELEASE

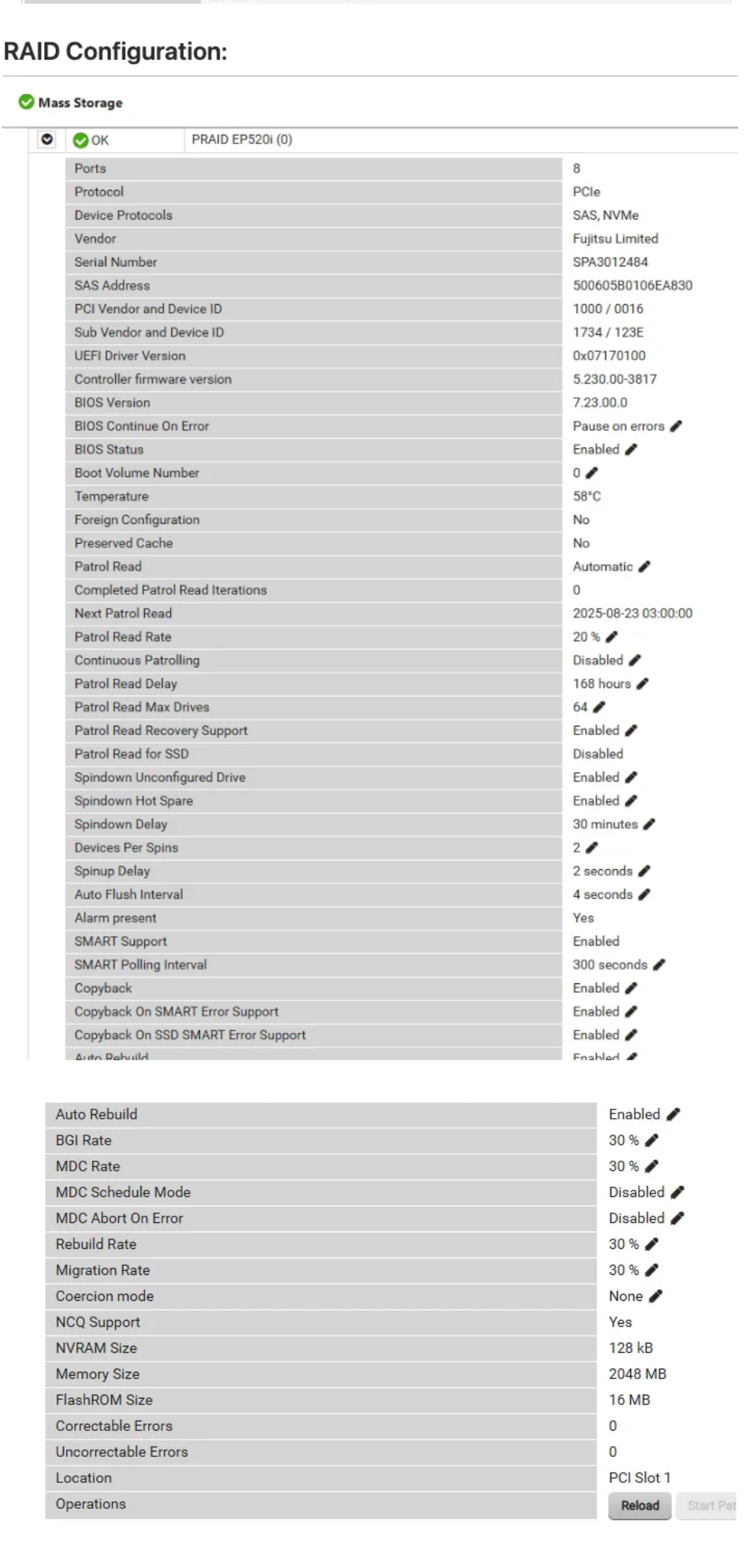
Update Source	Image file
Image to Flash	High firmware image
Boot From	Most recently programmed firmware
Image File *	Select... ⓘ Don't leave this page until file is uploaded ⓘ Allowed file extensions: bin, bin_enc, ima, ima_enc
Golden Image Update	Perform ⓘ Active Firmware and the Golden Image are identical

Start Update Reboot iRMC

BIOS Update

Installed Version	Active: V1.0.0.0 R2.6.0 for D3983-A1x / Recovery: V1.0.0.0 R2.6.0 for D3983-A1x
Active Image Recovery	Perform ⚠️ To perform Active Image Recovery, power must be off. ⚠️ Unavailable when BIOS is flashing.
Update Source	Image file
Image to Flash	Both
System Power On After Bios Update	☐
Image File *	Select... ⓘ Don't leave this page until file is uploaded ⓘ Allowed file extensions: upc, upd

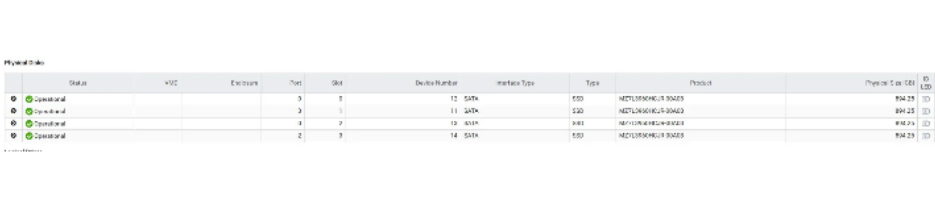
RAID Configuration:

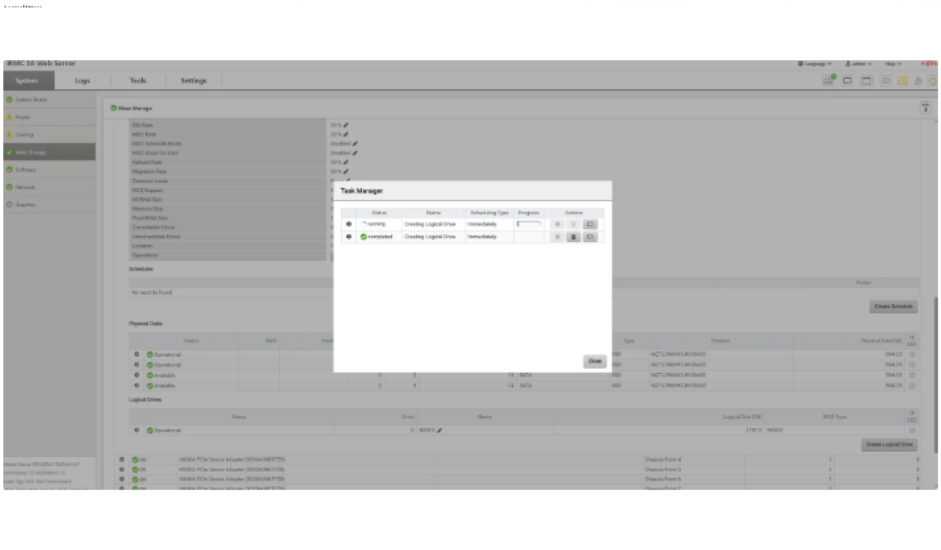


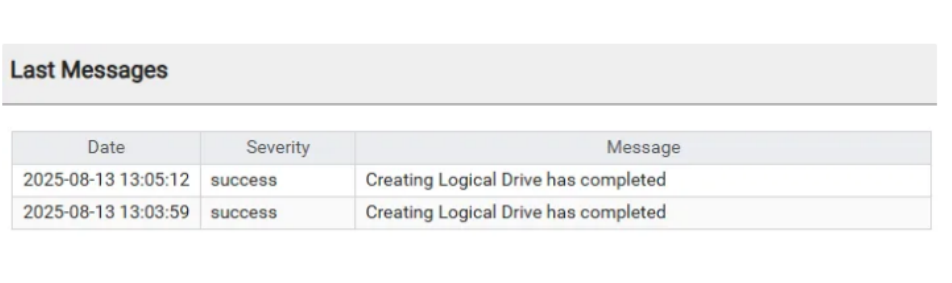
Mass Storage

OK PRAID EP520i (0)

Ports	8
Protocol	PCIe
Device Protocols	SAS, NVMe
Vendor	Fujitsu Limited
Serial Number	SPA3012484
SAS Address	500605B0106EA830
PCI Vendor and Device ID	1000 / 0016
Sub Vendor and Device ID	1734 / 123E
UEFI Driver Version	0x07170100
Controller firmware version	5.230.00-3817
BIOS Version	7.23.00.0
BIOS Continue On Error	Pause on errors ✎
BIOS Status	Enabled ✎
Boot Volume Number	0 ✎
Temperature	58°C
Foreign Configuration	No
Preserved Cache	No
Patrol Read	Automatic ✎
Completed Patrol Read Iterations	0
Next Patrol Read	2025-08-23 03:00:00
Patrol Read Rate	20 % ✎
Continuous Patrolling	Disabled ✎
Patrol Read Delay	168 hours ✎
Patrol Read Max Drives	64 ✎
Patrol Read Recovery Support	Enabled ✎
Patrol Read for SSD	Disabled
Spindown Unconfigured Drive	Enabled ✎
Spindown Hot Spare	Enabled ✎
Spindown Delay	30 minutes ✎
Devices Per Spins	2 ✎
Spinup Delay	2 seconds ✎
Auto Flush Interval	4 seconds ✎
Alarm present	Yes
SMART Support	Enabled
SMART Polling Interval	300 seconds ✎
Copyback	Enabled ✎
Copyback On SMART Error Support	Enabled ✎
Copyback On SSD SMART Error Support	Enabled ✎
Auto Rebuild	Enabled ✎
BGI Rate	30 % ✎
MDC Rate	30 % ✎
MDC Schedule Mode	Disabled ✎
MDC Abort On Error	Disabled ✎
Rebuild Rate	30 % ✎
Migration Rate	30 % ✎
Coercion mode	None ✎
NCQ Support	Yes
NVRAM Size	128 kB
Memory Size	2048 MB
FlashROM Size	16 MB
Correctable Errors	0
Uncorrectable Errors	0
Location	PCI Slot 1
Operations	Reload Start Patrol Read

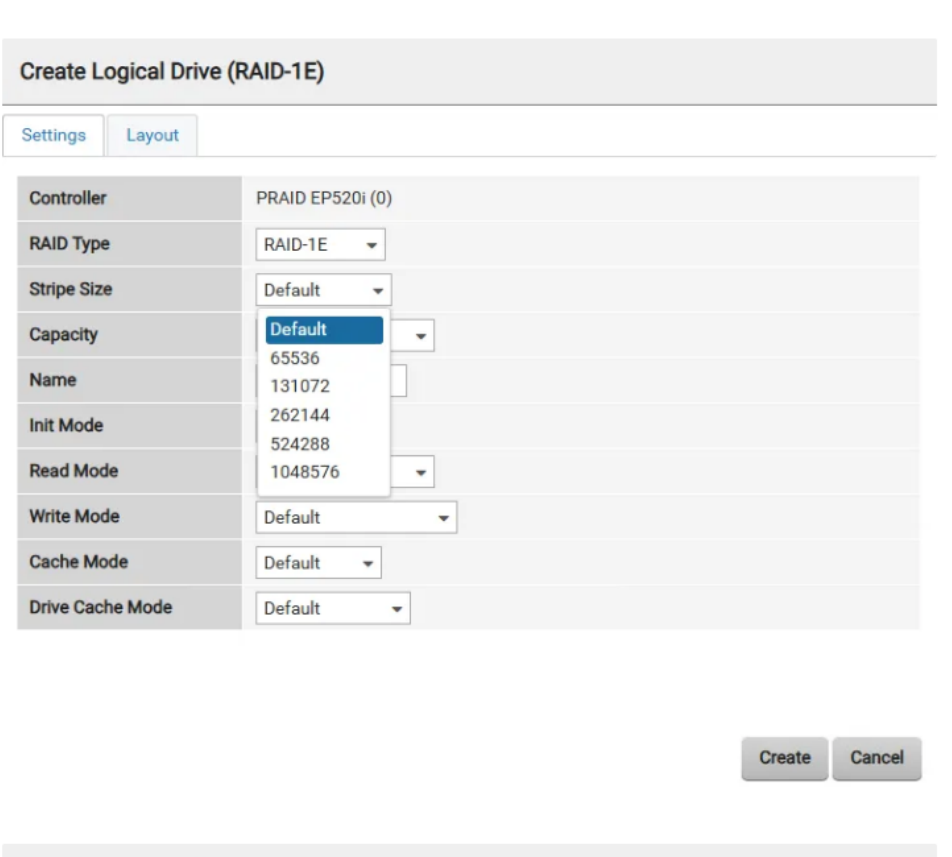






Last Messages

Date	Severity	Message
2025-08-13 13:05:12	success	Creating Logical Drive has completed
2025-08-13 13:03:59	success	Creating Logical Drive has completed

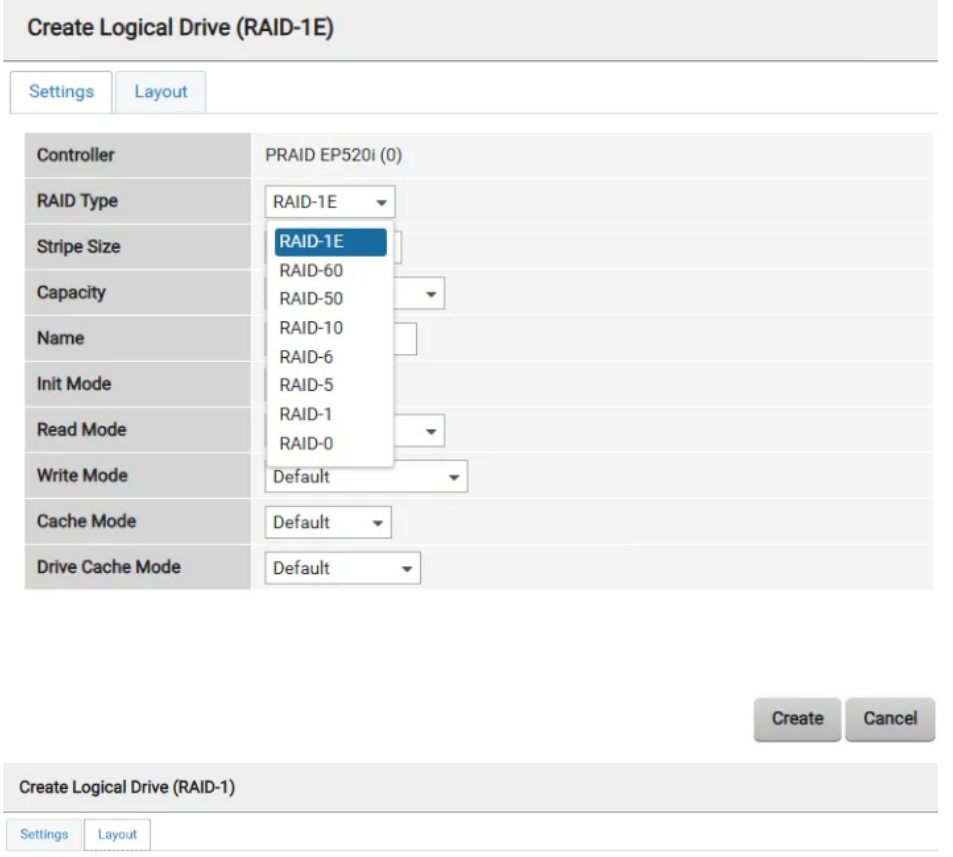


Create Logical Drive (RAID-1E)

Settings | Layout

Controller	PRAID EP520i (0)
RAID Type	RAID-1E
Stripe Size	Default
Capacity	Default 65536 131072 262144 524288 1048576
Name	
Init Mode	
Read Mode	
Write Mode	Default
Cache Mode	Default
Drive Cache Mode	Default

Create Cancel

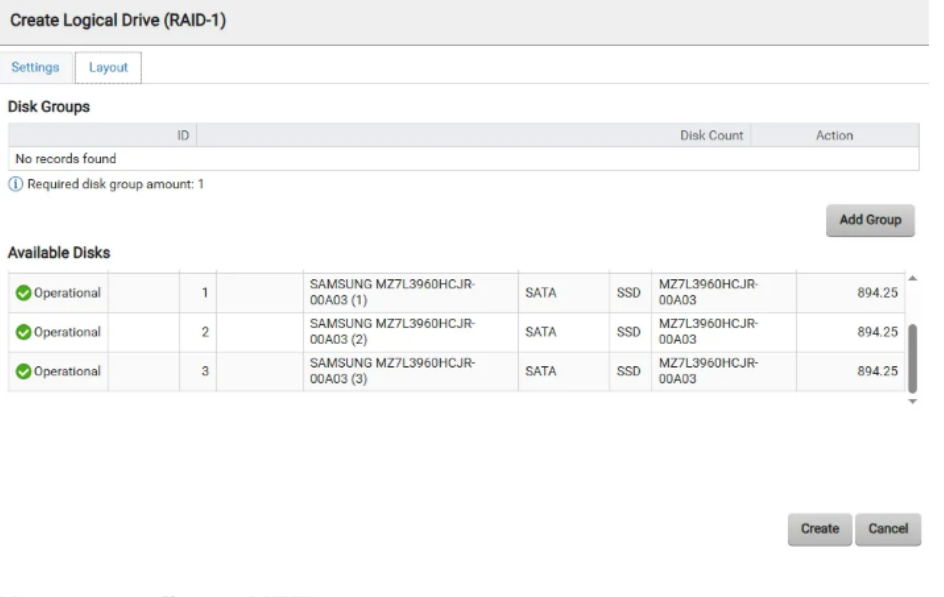


Create Logical Drive (RAID-1E)

Settings | Layout

Controller	PRAID EP520i (0)
RAID Type	RAID-1E RAID-1E RAID-60 RAID-50 RAID-10 RAID-6 RAID-5 RAID-1 RAID-0
Stripe Size	
Capacity	
Name	
Init Mode	
Read Mode	
Write Mode	Default
Cache Mode	Default
Drive Cache Mode	Default

Create Cancel



Create Logical Drive (RAID-1)

Settings | Layout

Disk Groups

ID	Disk Count	Action
No records found		

ⓘ Required disk group amount: 1

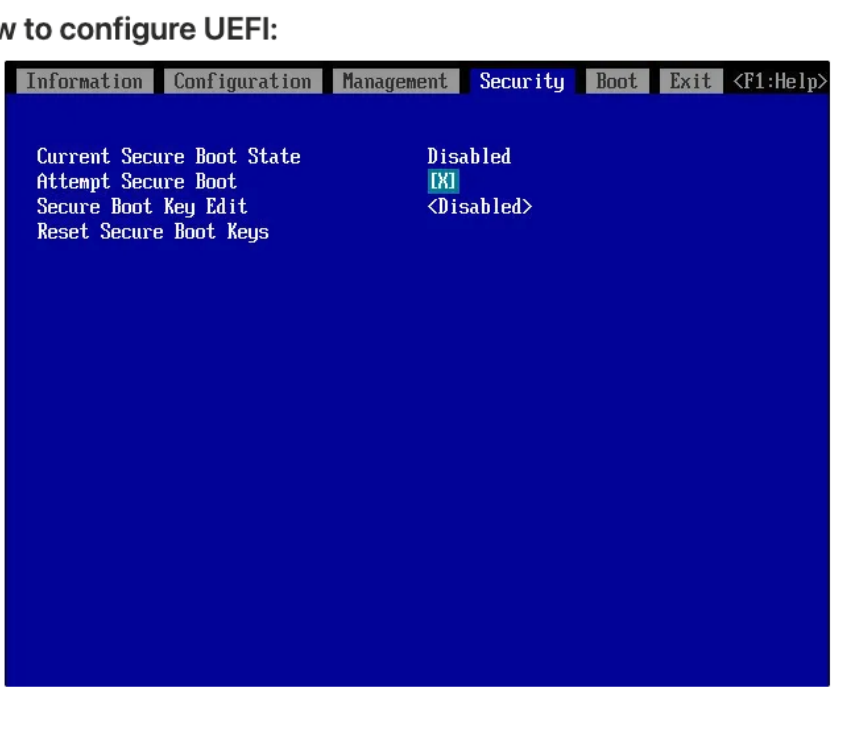
Add Group

Available Disks

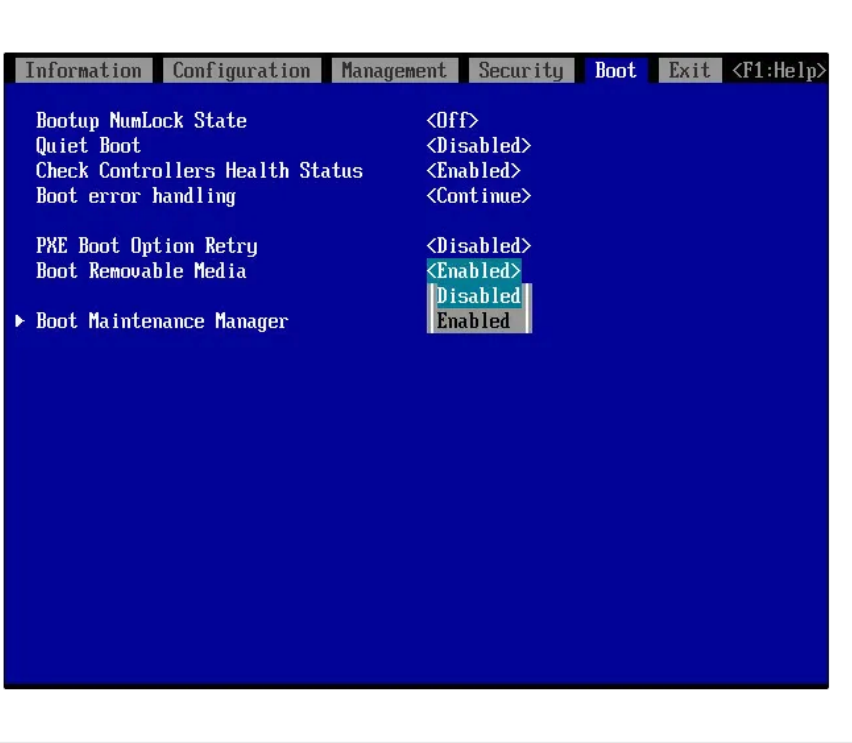
Operational	1	SAMSUNG MZ7L3960HCJR-00A03 (1)	SATA	SSD	MZ7L3960HCJR-00A03	894.25
Operational	2	SAMSUNG MZ7L3960HCJR-00A03 (2)	SATA	SSD	MZ7L3960HCJR-00A03	894.25
Operational	3	SAMSUNG MZ7L3960HCJR-00A03 (3)	SATA	SSD	MZ7L3960HCJR-00A03	894.25

Create Cancel

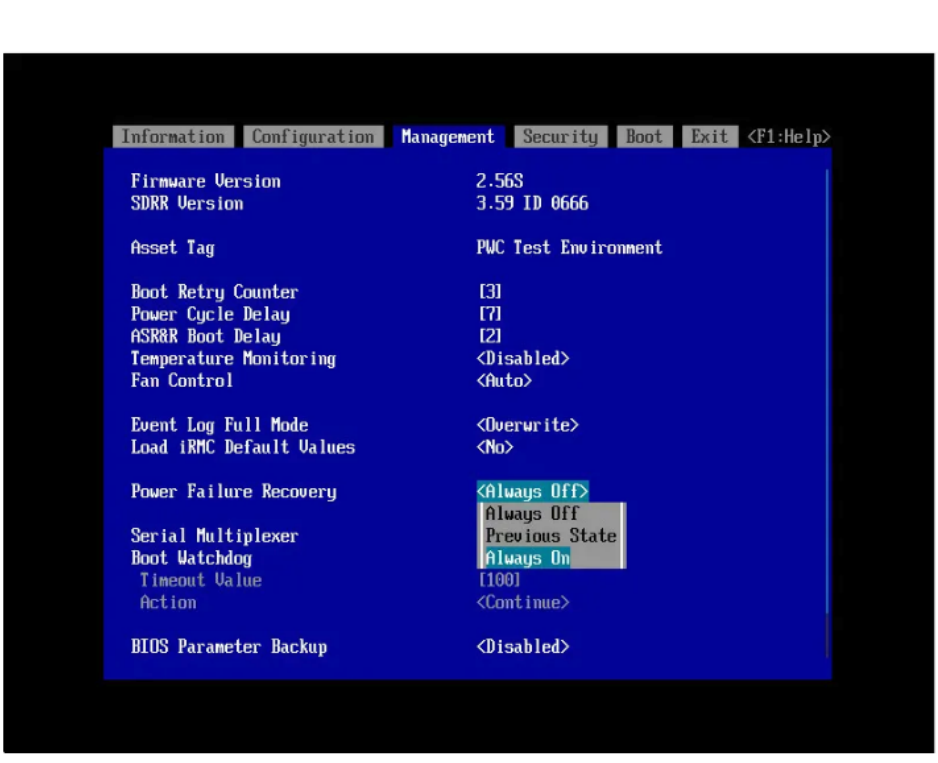
How to configure UEFI:



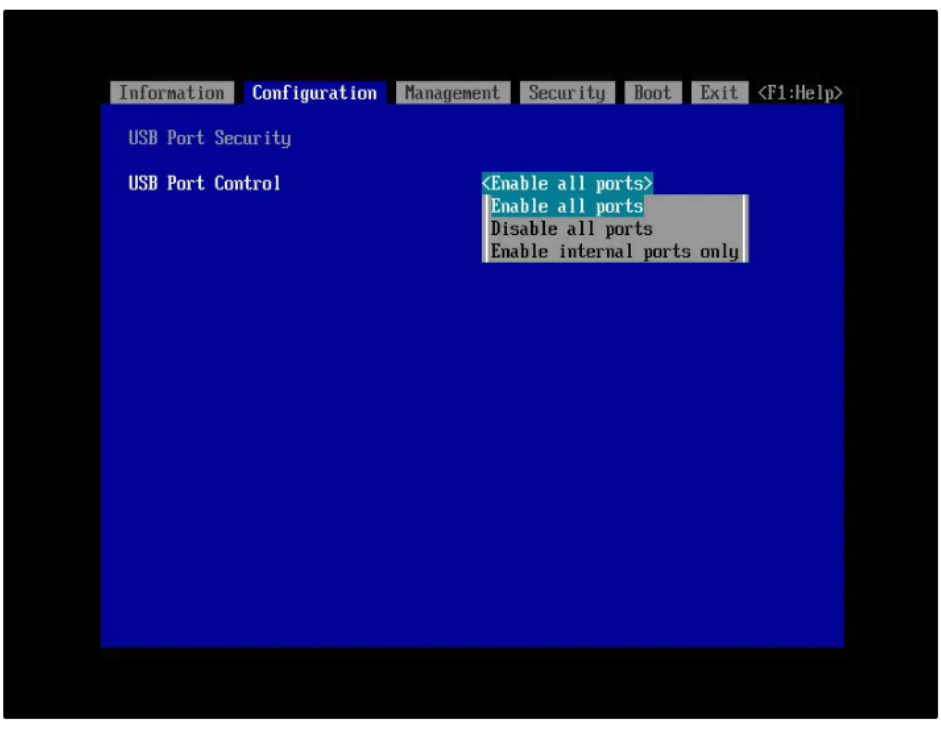
```
 Information  Configuration  Management  Security  Boot  Exit <F1:Help>

  Current Secure Boot State          Disabled
  Attempt Secure Boot                [X]
  Secure Boot Key Edit               <Disabled>
  Reset Secure Boot Keys
```



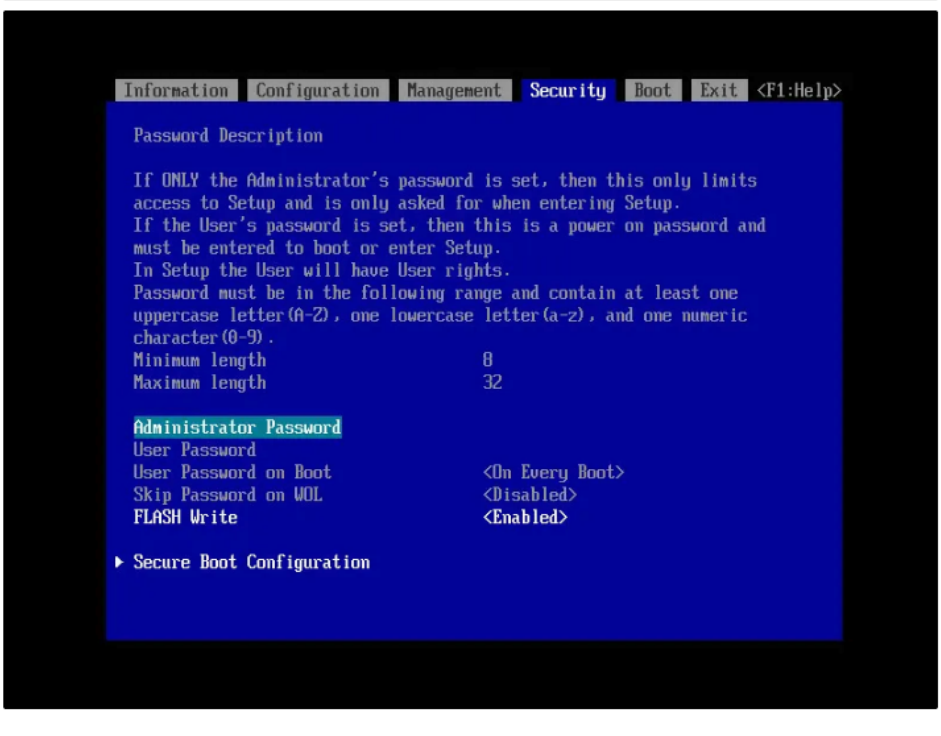
```
 Information  Configuration  Management  Security  Boot  Exit <F1:Help>

  Bootup NumLock State               <Off>
  Quiet Boot                         <Disabled>
  Check Controllers Health Status    <Enabled>
  Boot error handling                <Continue>

  PXE Boot Option Retry              <Disabled>
  Boot Removable Media               <Enabled>
                                     Disabled
► Boot Maintenance Manager           Enabled
```



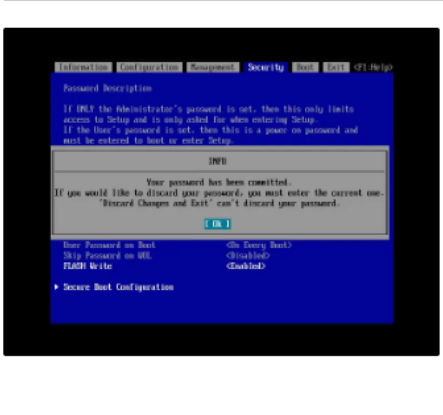
```
 Information  Configuration  Management  Security  Boot  Exit <F1:Help>

  Firmware Version                   2.56S
  SDRR Version                       3.59 ID 0666

  Asset Tag                          PWC Test Environment

  Boot Retry Counter                 [3]
  Power Cycle Delay                  [7]
  ASR&R Boot Delay                   [2]
  Temperature Monitoring             <Disabled>
  Fan Control                        <Auto>

  Event Log Full Mode                <Overwrite>
  Load iRMC Default Values           <No>

  Power Failure Recovery             <Always Off>
                                      Always Off
  Serial Multiplexer                  Previous State
  Boot Watchdog                       Always On
   Timeout Value                     [100]
   Action                            <Continue>

  BIOS Parameter Backup              <Disabled>
```

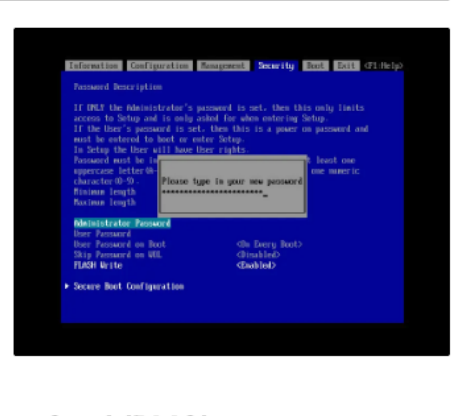


```
 Information  Configuration  Management  Security  Boot  Exit <F1:Help>
  USB Port Security

  USB Port Control                   <Enable all ports>
                                      Enable all ports
                                      Disable all ports
                                      Enable internal ports only
```

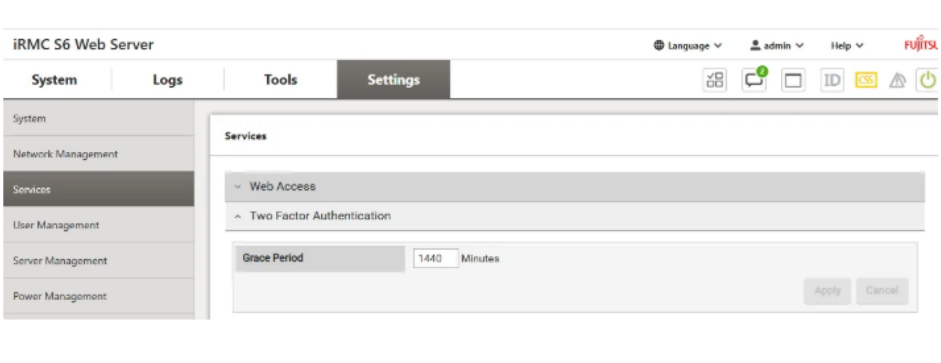


```
 Information  Configuration  Management  Security  Boot  Exit <F1:Help>
  Password Description

  If ONLY the Administrator's password is set, then this only limits
  access to Setup and is only asked for when entering Setup.
  If the User's password is set, then this is a power on password and
  must be entered to boot or enter Setup.
  In Setup the User will have User rights.
  Password must be in the following range and contain at least one
  uppercase letter(A-Z), one lowercase letter(a-z), and one numeric
  character(0-9).
  Minimum length                     8
  Maximum length                     32

  Administrator Password
  User Password
  User Password on Boot              <On Every Boot>
  Skip Password on WOL               <Disabled>
  FLASH Write                        <Enabled>

► Secure Boot Configuration
```



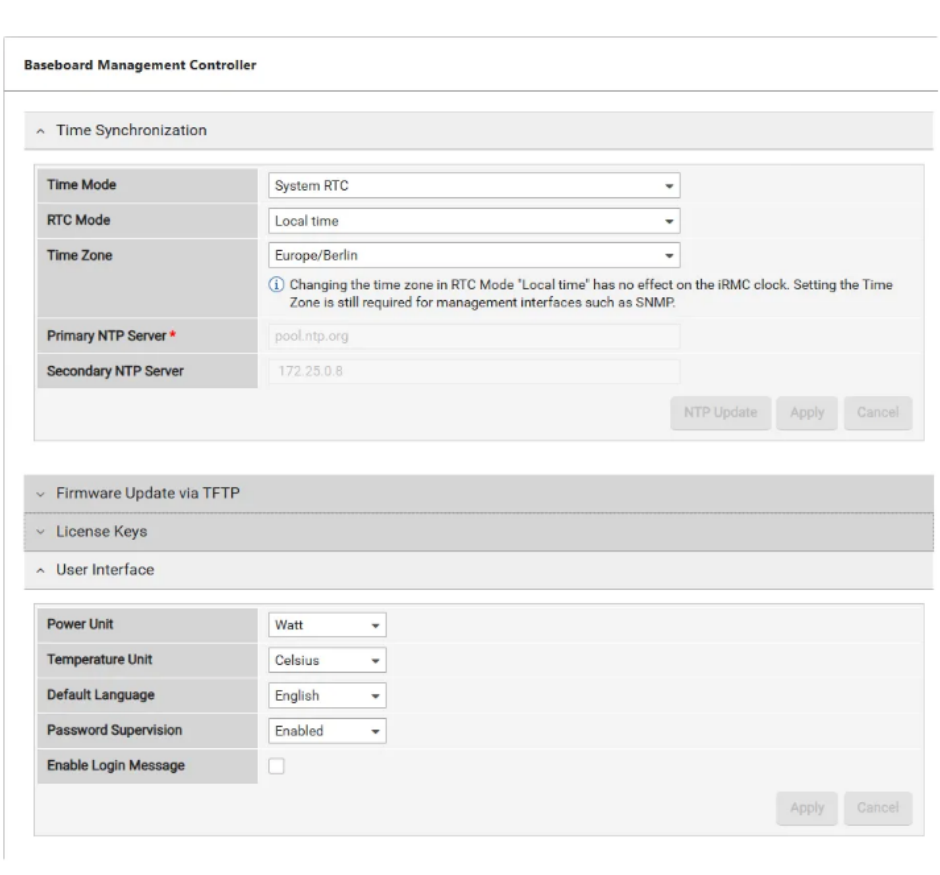


How to configure Base Management Card (BMC):



Grace Period 1440 Minutes

Apply Cancel



Baseboard Management Controller

Time Synchronization

Time Mode	System RTC
RTC Mode	Local time
Time Zone	Europe/Berlin
	ⓘ Changing the time zone in RTC Mode "Local time" has no effect on the iRMC clock. Setting the Time Zone is still required for management interfaces such as SNMP.
Primary NTP Server *	pool.ntp.org
Secondary NTP Server	172.25.0.8

NTP Update Apply Cancel

Firmware Update via TFTP

License Keys

User Interface

Power Unit	Watt
Temperature Unit	Celsius
Default Language	English
Password Supervision	Enabled
Enable Login Message	☐

Apply Cancel