



## ➞ RAID setup in different tools

LXCC, LXPM, and HII



# RAID Setup wizard in LXPM

Follow these instructions to setup RAID using LXPM.

Click each step for more detailed instructions.



# RAID Setup wizard in LXPM

In LXPM, select **RAID Setup**.

The screenshot shows the XClarity Provisioning Manager (LXPM) interface. On the left is a blue sidebar with navigation options: System Summary, UEFI Setup, Platform Update, RAID Setup (highlighted with a red box and a mouse cursor), OS Installation, and Diagnostics. The main content area is titled 'XClarity Provisioning Manager' and includes a description of the tool's purpose and a list of tasks it can perform. Below this is the 'Basic System Settings' section with fields for System Date, System Time, Language, First Boot Device, and Boot Mode. The 'Management Network Basic Configuration' section follows, with fields for Network Interface Port, IP Address, Default Gateway, Host Name, Subnet Mask, and BMC Credentials. At the bottom of the main area are three buttons: Apply, Skip, and BMC Credentials.

**XClarity Provisioning Manager**

XClarity Provisioning Manager provides an easy-to-use interface for setting up your server.

You can perform the following tasks:

- View system inventory to see information about the devices that are installed in your server.
- Update the system firmware to the latest level.
- Configure the system firmware, which includes setting up RAID volumes for your server storage.
- Install an operating system on your server (unattended mode).
- Run diagnostic tests on the hard disk drives and memory that are installed in the system.

In addition, you can view active alerts for the system and, if necessary, collect logs that can be sent to Support.

**Basic System Settings**

System Date: 2017 07 14 First Boot Device: CD/DVD Rom

System Time: 11 09 10 Boot Mode: UEFI Mode

Language: English

**Management Network Basic Configuration**

Network Interface Port: Dedicated Port Host Name: XCC-7X05-DSYM01G

IP Address: 10.240.216.199 Subnet Mask: 255.255.255.0

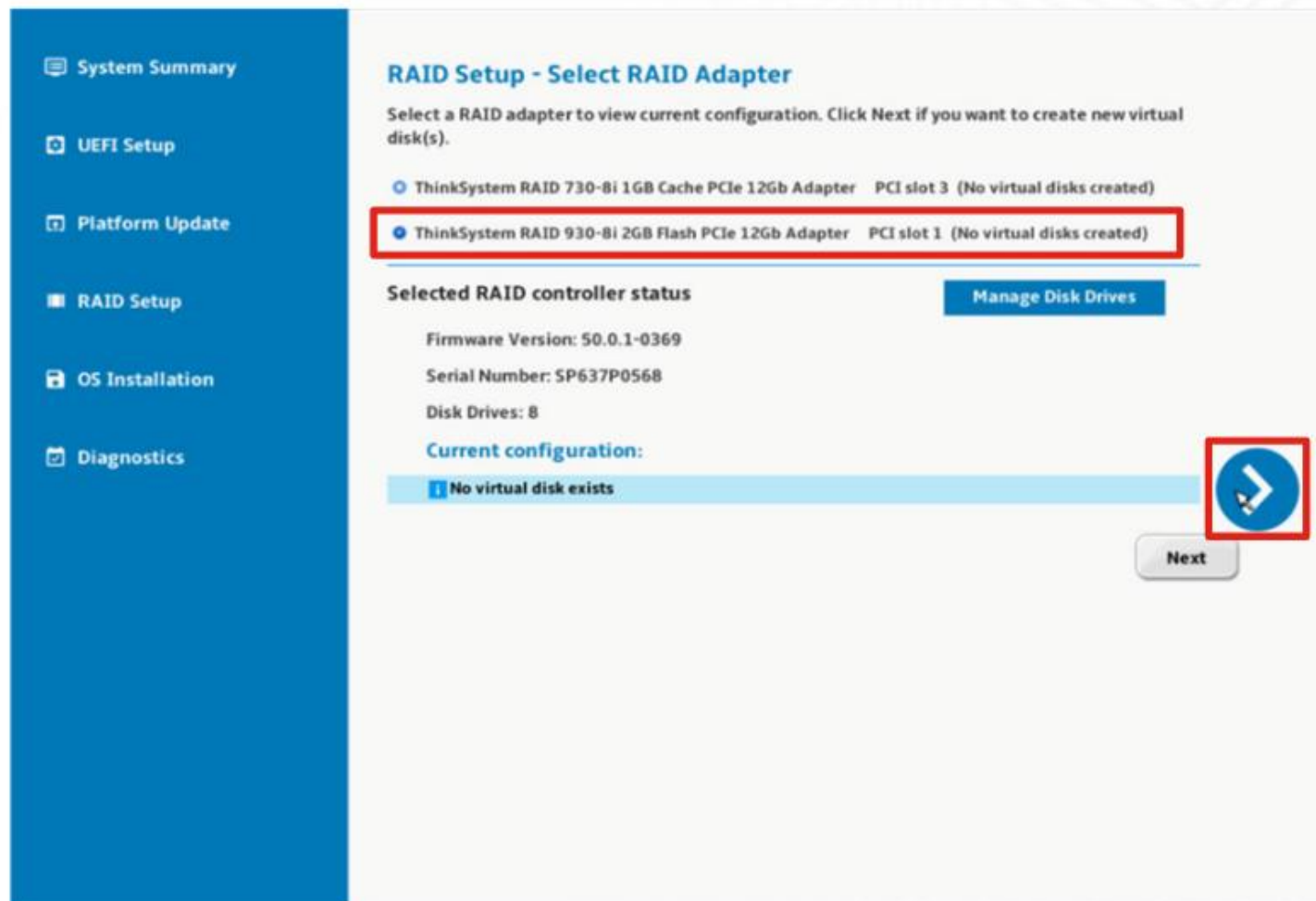
Default Gateway: 10.240.216.1

Apply Skip BMC Credentials



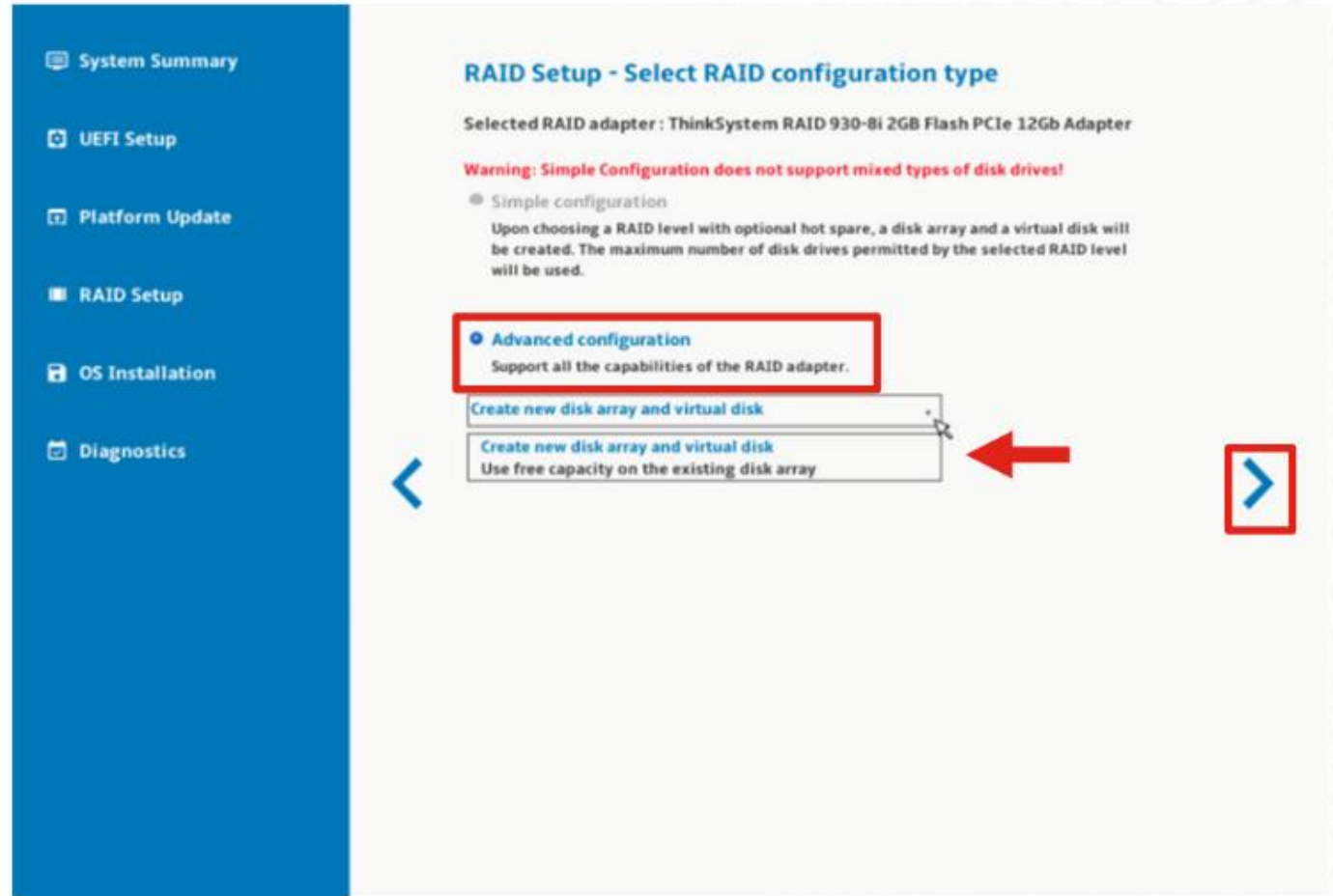
# RAID Setup wizard in LXPM

The supported RAID controllers appear in the list for configuration. In this example, RAID 930-8i is selected. Click **Next** to go to the next page.



# RAID Setup wizard in LXPm

There are two items that can be selected. **Simple configuration** is disabled when there are mixed types of disk drives attached to the controller. Select **Advanced configuration** in this example and then select **Create new disk array and virtual disk**. Select **Next** to go to the next page.



# RAID Setup wizard in LXPm

Select **Set RAID level**. Assume that RAID 5 is selected. Select **Next** to go to the next page.

**RAID Setup - Select RAID Level and Select Drives**

Create disk array by specifying the RAID level and disk drive.

Set RAID Level :

RAID 0 1 to 32 disk drives are needed for RAID 0.

RAID 0  
RAID 1  
RAID 10  
RAID 5  
RAID 6

disk drives are needed for RAID 0!

Name	Type	State	Capacity	Role
<input type="checkbox"/> 134:0	SAS/HDD	UGood	557 GB	Member
<input type="checkbox"/> 134:1	SAS/HDD	UGood	557 GB	Member
<input type="checkbox"/> 134:2	SAS/HDD	UGood	278 GB	Member
<input type="checkbox"/> 134:3	SAS/HDD	UGood	837 GB	Member
<input type="checkbox"/> 134:4	SATA/HDD	UGood	930 GB	Member



# RAID Setup wizard in LXPm

To create RAID 5, select the appropriate number of hard drives (at least three are needed). Select **Next** to go to the next page.

**RAID Setup - Select RAID Level and Select Drives**

Create disk array by specifying the RAID level and disk drive.

Set RAID Level:

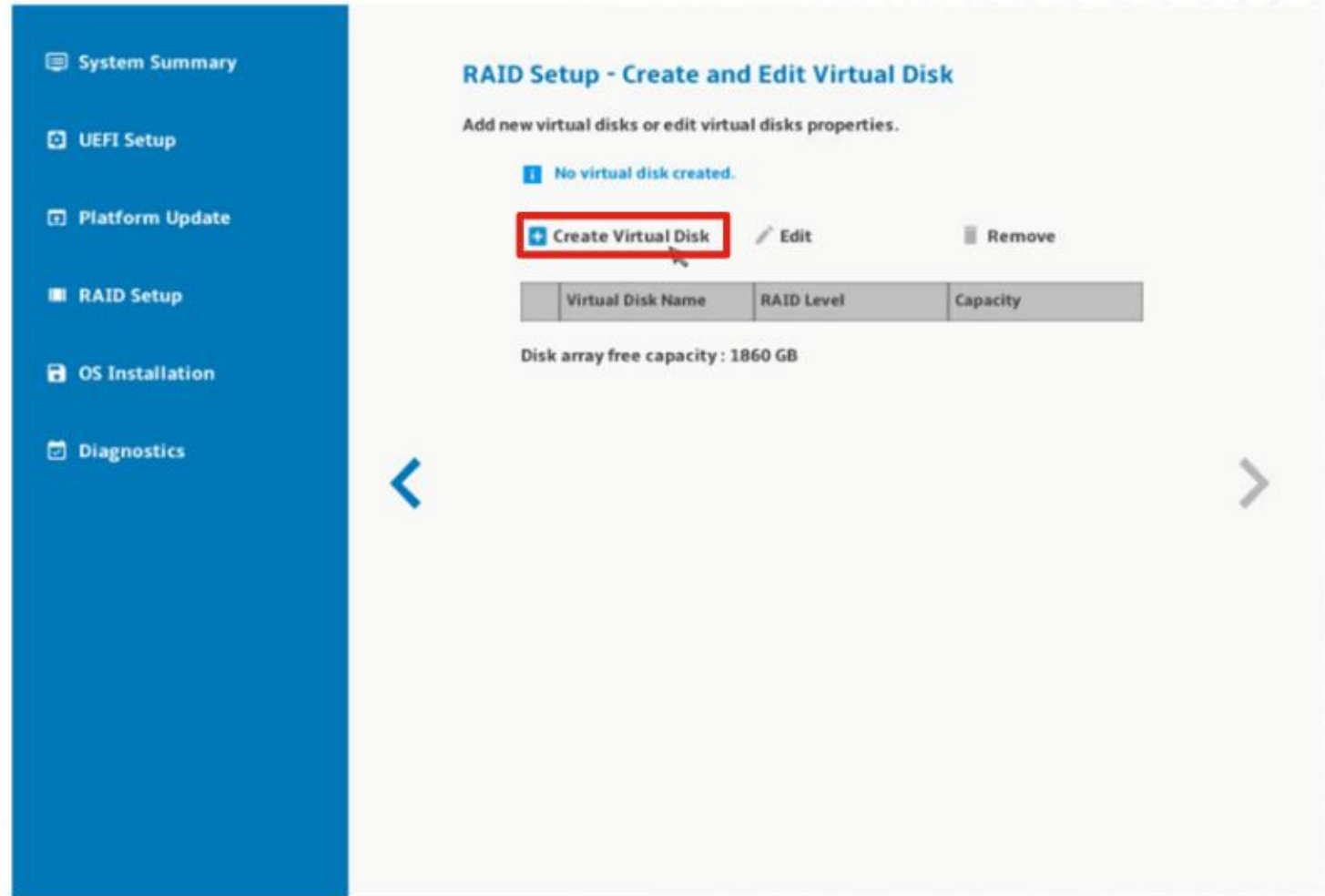
RAID 5 3 to 32 disk drives are needed for RAID 5.

Select Drives:

<input type="checkbox"/>	134:2	SAS/HDD	UGood	278 GB	Member
<input type="checkbox"/>	134:3	SAS/HDD	UGood	837 GB	Member
<input checked="" type="checkbox"/>	134:4	SATA/HDD	UGood	930 GB	Member
<input checked="" type="checkbox"/>	134:5	SATA/HDD	UGood	930 GB	Member
<input checked="" type="checkbox"/>	134:6	SATA/HDD	UGood	930 GB	Member
<input type="checkbox"/>	134:7	SATA/HDD	UGood	930 GB	Member

# RAID Setup wizard in LXPm

Select **Create Virtual Disk**.





# RAID Setup wizard in LXPM

A **Set properties of the virtual disk** message displays (only available in **Advanced configuration** mode).

The screenshot shows the 'Create Virtual Disk' dialog box within the RAID Setup wizard. The left sidebar contains navigation options: System Summary, UEFI Setup, Platform Update, RAID Setup (highlighted), OS Installation, and Diagnostics. The main panel is titled 'Create Virtual Disk' and contains the following fields:

- Virtual Disk Name:** An empty text input field.
- Virtual Disk Capacity:** A slider set to 1860 GB, with a maximum of 1860 GB MAX.
- Stripe Size:** A dropdown menu set to 64K.
- Read Policy:** A dropdown menu set to No read ahead.
- Write Policy:** A dropdown menu set to Write through.
- I/O Policy:** A dropdown menu set to Direct.
- Disk Cache Policy:** A dropdown menu set to Default.

At the bottom of the dialog are 'Create' and 'Cancel' buttons. A red rectangle highlights the title 'Set properties of the selected virtual disk' at the top of the main panel.

**Create Virtual Disk**

Set properties of the selected virtual disk

Virtual Disk Name:

Virtual Disk Capacity:  GB

Stripe Size:

Read Policy:

Write Policy:

I/O Policy:

Disk Cache Policy:

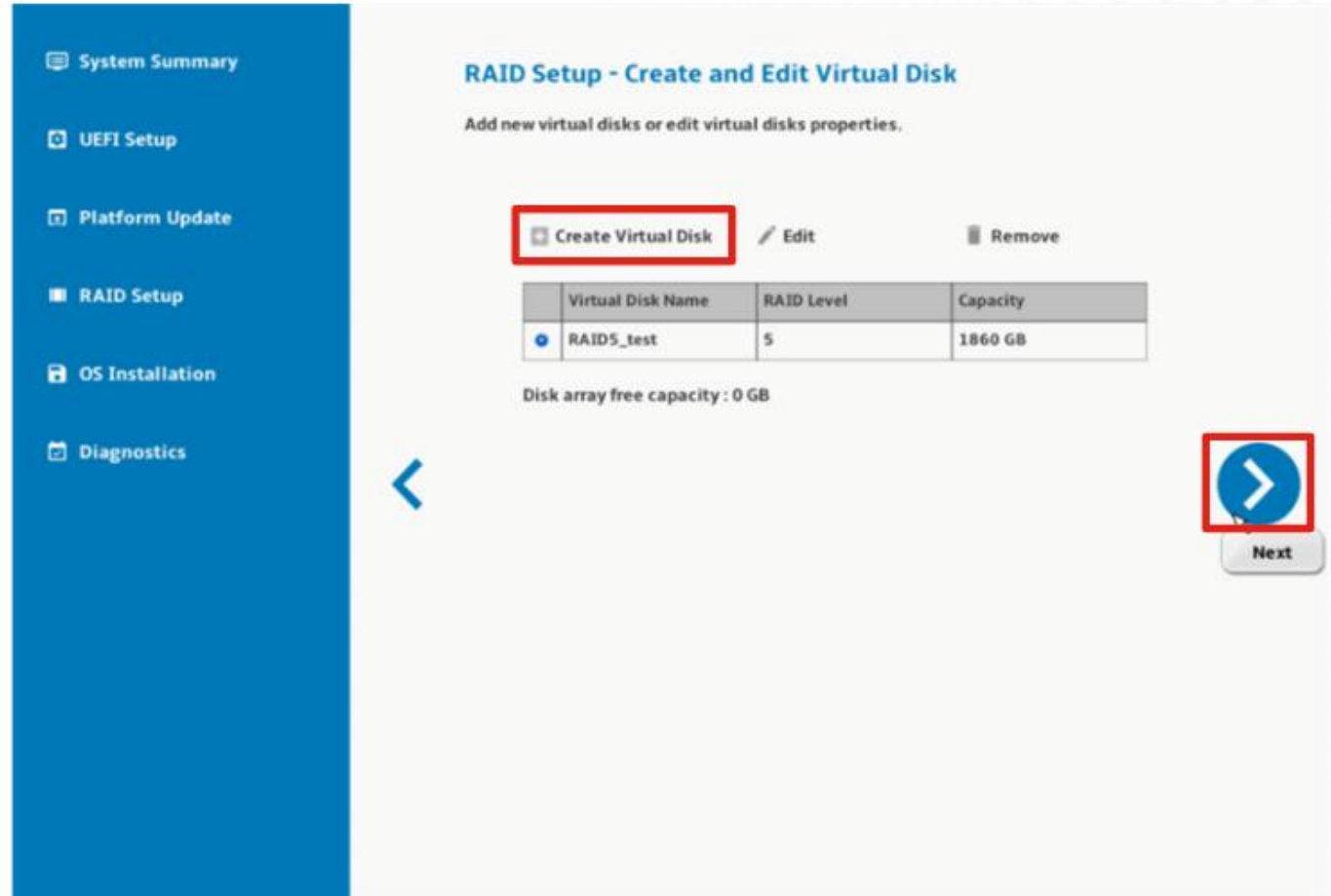
**Create** **Cancel**

Read Policy dropdown options:

- 64K
- 128K
- 256K
- 512K
- 1024K
- No read ahead
- Always read ahead
- Write through
- Always write back
- Write back
- Direct
- Cached
- Default
- On
- Off

# RAID Setup wizard in LXPM

The RAID5\_test virtual disk has been created. Select **Create Virtual Disk** to create multiple virtual disks, or select **Next** to go to the next page.





# RAID Setup wizard in LXPM

Verify RAID settings. Select **Next** if the RAID setting is correct.

The screenshot displays the RAID Setup wizard interface. On the left is a blue sidebar with a list of steps: System Summary, UEFI Setup, Platform Update, RAID Setup (highlighted with a white bar), OS Installation, and Diagnostics. The main area is titled 'RAID Setup - Verify settings' and contains the following information:

- Verify disk array and virtual disk settings
- Disk Array:
  - RAID Level: 5
  - Disk Drives: 3
  - Dedicated hot spares: 0
  - Allocated capacity: 1860 GB
  - Free Capacity : 0 GB
- New Virtual Disks:

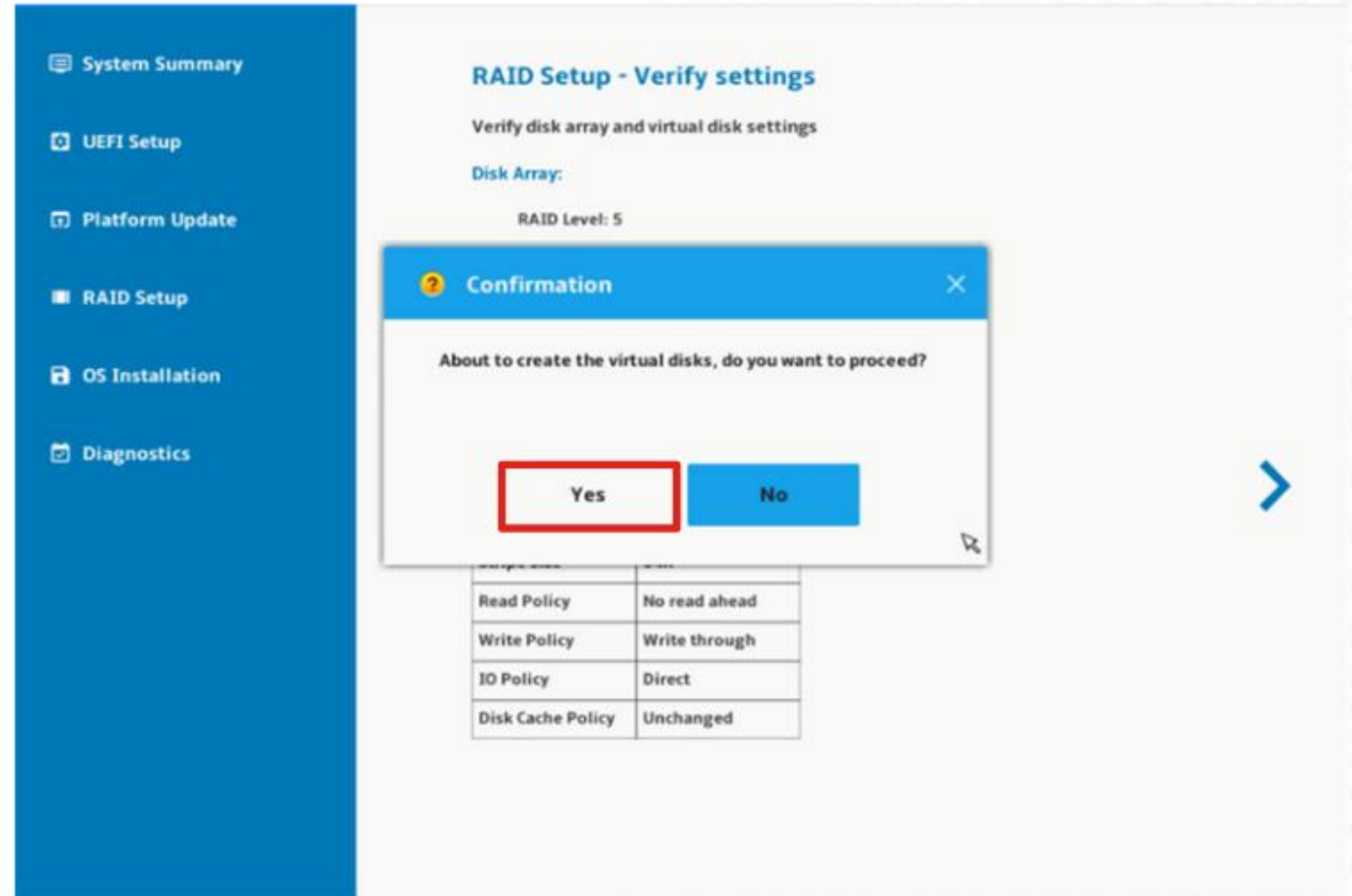
Below the 'New Virtual Disks' section is a table with the following data:

Virtual Disk Name	RAIDS_test
Capacity	1860 GB
Stripe Size	64K
Read Policy	No read ahead
Write Policy	Write through
IO Policy	Direct
Disk Cache Policy	Unchanged

Navigation controls include a blue left arrow, a small mouse cursor, and a prominent red square button with a white right arrow.

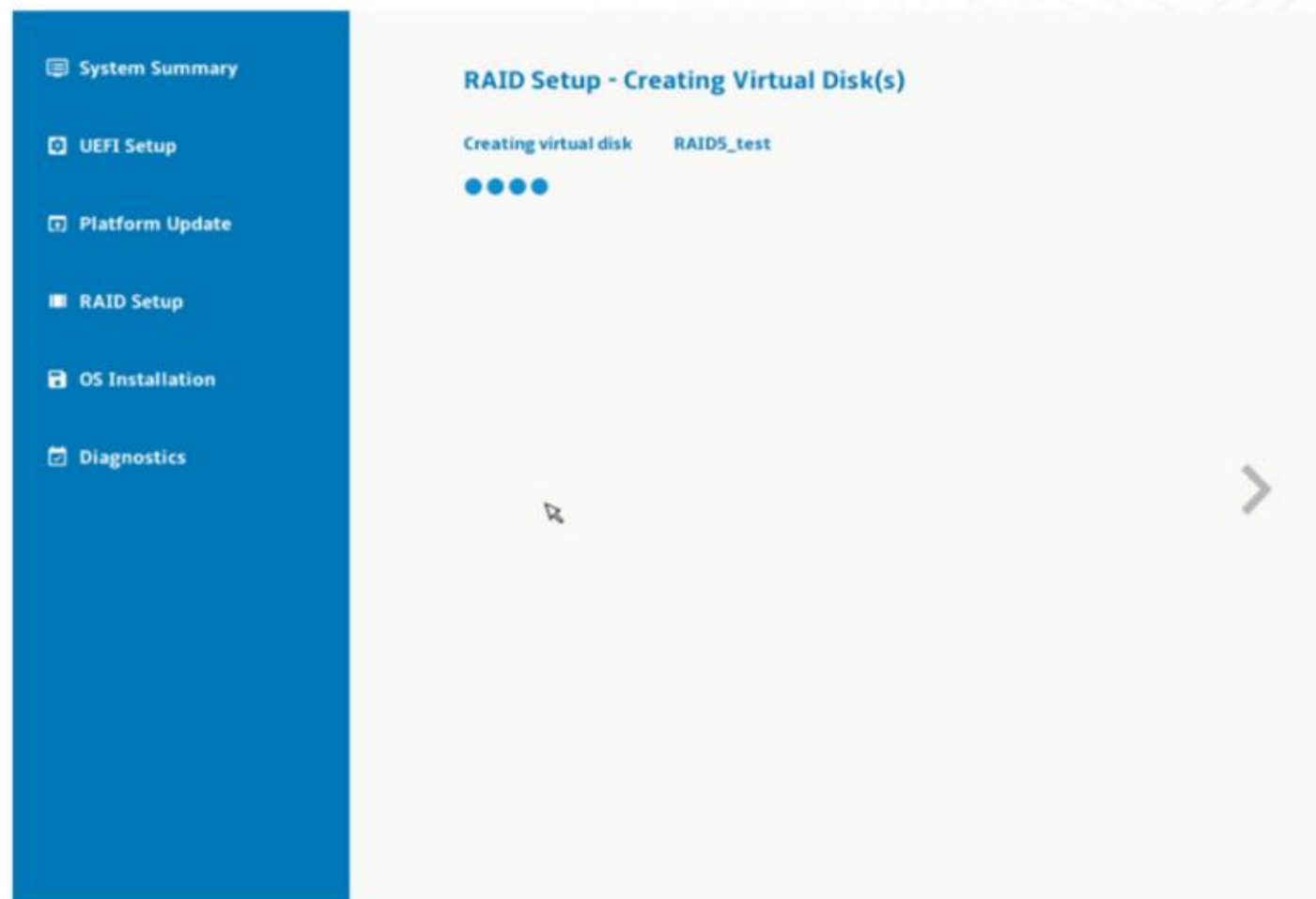
# RAID Setup wizard in LXPM

Select **Yes** to create the virtual drive.



# RAID Setup wizard in LXPM

The process of creating the virtual disk starts.





## RAID Setup in LXCC

Log in to the LXCC Web UI and select **Server Configuration** → **RAID Setup**. The RAID wizard appears. RAID setup is not applicable when the system is powered off or has not completed the POST process.

Select **Enable edit mode** and the virtual disks become editable and removable.

Properties including Read Policy, Write Policy, and I/O Policy are read-only if the controller does not have cache.

The screenshot illustrates the RAID Setup process in the XClarity Controller web interface. On the left, the navigation menu shows 'Server Configuration' (1) and 'RAID Setup' (2). A red arrow points from the 'Server Configuration' menu item to the 'Array Configuration' tab. The 'Array Configuration' tab displays a message: 'Please wait while the RAID adapter is being initialized. Array configuration and drives information will be available when the system completes the boot process.' A red arrow points down to the 'Enable edit mode' button. Below this, the 'Controller 1: ThinkSystem RAID 930-8i 2GB Flash (1 virtual disk created)' section shows 'Virtual Disk 1 Name: VName', 'Optimal' status, and '5587.935GB' capacity. The 'Disk Array 0, RAID 0' is also visible.

XClarity Controller

- Home
- Events
- Inventory
- Utilization
- Remote Console
- Firmware Update
- Server Configuration (1)
  - Adapters
  - Boot Options
  - Power Policy
  - RAID Setup (2)
  - Server Properties

Array Configuration Storage Inventory

1 Please wait while the RAID adapter is being initialized. Array configuration and drives information will be available when the system completes the boot process.

ThinkSystem SR650 System name: SR650-1

Array Configuration Storage Inventory

1 The controllers and virtual disks are in read-only mode while OS is running. **Enable edit mode**

Controller 1: ThinkSystem RAID 930-8i 2GB Flash (1 virtual disk created)

Virtual Disk 1 Name: VName

Optimal

5587.935GB

Disk Array 0, RAID 0

## RAID setup in LXCC example

Use the following steps to create a virtual disk (known as RAID) in LXCC.



# RAID setup in LXCC example

Log in to the LXCC Web UI and select **Server Configuration** → **RAID Setup** → **Enable edit mode**.

Step 1 — 2 — 3 — 4 — 5

The screenshot displays the XClarity Controller web interface for a Lenovo ThinkSystem SR650 MB. The left sidebar contains a navigation menu with the following items: Home, Events, Inventory, Utilization, Remote Console, Firmware Update, Server Configuration (marked with a blue circle 1), Adapters, Boot Options, Power Policy, and RAID Setup (marked with a blue circle 2). The main content area is titled 'Lenovo ThinkSystem SR650 MB' and has two tabs: 'Array Configuration' (active) and 'Storage Inventory'. A blue information banner at the top of the main area states: 'The controllers and virtual disks are in read-only mode while OS is running' (marked with a blue circle 3), followed by a link 'Enable edit mode' (marked with a blue circle 3) which is pointed to by a red arrow. Below this, the interface shows 'Controller 1: ThinkSystem RAID 930-8i 2GB Flash (1 virtual disk created)'. A box for 'Virtual Disk 1 Name: VD\_1' shows a status of 'Optimal' and a size of '68.648GB'. At the bottom, it says 'Disk Array 0, RAID 5'. Below this, 'Controller 2: ThinkSystem RAID 730-8i 1GB Cache (0 virtual disk created)' is listed.



# RAID setup in LXCC example

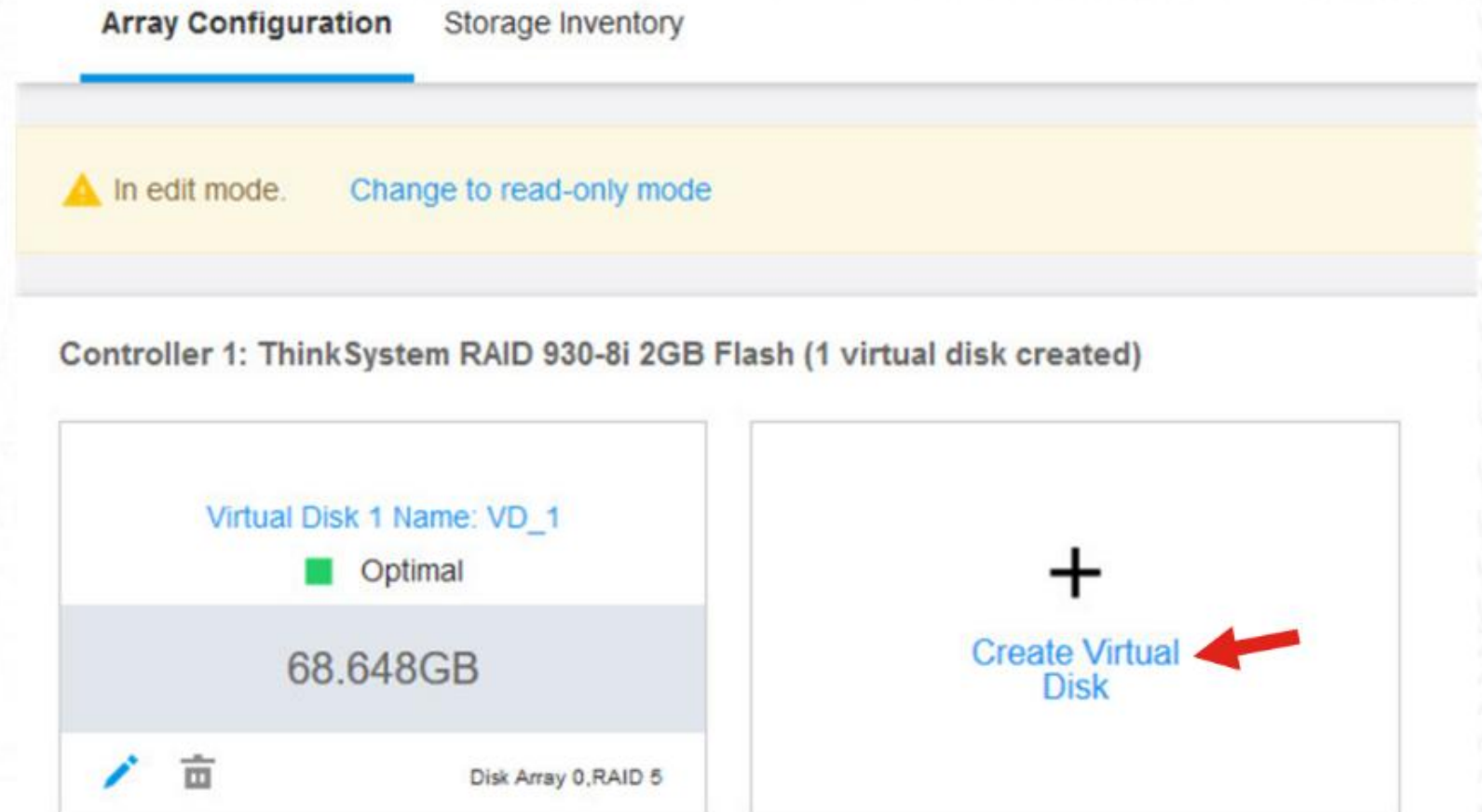
Log in to the LXCC Web UI and select **Server Configuration** → **RAID Setup** → **Enable edit mode**.

Step 1 — 2 — 3 — 4 — 5

The screenshot displays the XClarity Controller web interface for a Lenovo ThinkSystem SR650 MB. The left sidebar contains a navigation menu with the following items: Home, Events, Inventory, Utilization, Remote Console, Firmware Update, Server Configuration (marked with a blue circle 1), Adapters, Boot Options, Power Policy, and RAID Setup (marked with a blue circle 2). The main content area is titled 'Lenovo ThinkSystem SR650 MB' and has two tabs: 'Array Configuration' (active) and 'Storage Inventory'. A blue information banner at the top of the main area states: 'The controllers and virtual disks are in read-only mode while OS is running' (marked with a blue circle 3), followed by a link 'Enable edit mode' (marked with a blue circle 3) which is pointed to by a red arrow. Below this, the interface shows 'Controller 1: ThinkSystem RAID 930-8i 2GB Flash (1 virtual disk created)'. A box for 'Virtual Disk 1 Name: VD\_1' shows a green status 'Optimal' and a capacity of '68.648GB'. At the bottom of this box, it says 'Disk Array 0, RAID 5'. Below Controller 1, it shows 'Controller 2: ThinkSystem RAID 730-8i 1GB Cache (0 virtual disk created)'.

# RAID setup in LXCC example

Select **Create Virtual Disk**.



Step **1** — **2** — **3** — **4** — **5**

# RAID setup in LXCC example

In the **Select Disk Drive/Disk Array** tab, the user can choose to create new virtual disk on a new disk array or an existing disk array.

1

Select Disk Drive/Disk Array

2

Create Virtual Disk

Get start:

Create new virtual disk on a new disk array

Select RAID level:

RAID 5a minimum of 3 drives for RAID 5.

Unconfigured good drives:

<input type="checkbox"/>	Disk Drive	Type	Capacity
<input type="checkbox"/>	Drive 0	SAS	600.127GB
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

Add member

Add hot spare

Remove

Selected disk drives:

<input type="checkbox"/>	Role	Disk Drive	Capacity
<input type="checkbox"/>	Member	Drive 4	1000.205GB
<input type="checkbox"/>	Member	Drive 6	1000.205GB
<input type="checkbox"/>	Member	Drive 7	1000.205GB
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

Next >



# RAID setup in LXCC example

Edit virtual disk properties and add new virtual disk.

1

Select Disk Drive/Disk Array

2

Create Virtual Disk

3

Summary

By default 1 virtual disk will be created with all the available capacity. You can change the capacity if need create multiple virtual disks.

Edit Virtual Disk

Virtual Disk Name:

VD\_4



Capacity:

1714896



MB



Stripe Size:

64 K



Read Policy:

Adaptive Read Ahead



Write Policy:

Always Write Back



I/O Policy:

Direct I/O



Access Policy:

Read Write



Disk Cache Policy:

Unchanged



Initialization Status:

No Initialization



Apply

Cancel

< Back

Next >

Cancel

# RAID setup in LXCC example

Click **Start Creating** to submit and save the configuration.

1

Select Disk Drive/Disk Array

2

Create Virtual Disk

3

Summary

Review the summary and go back if you need to make corrections.

Disk array

RAID Level	RAID 5
Number of drives	3
Hot spare	0
Total capacity	1860.78 GB
Free capacity	1507.23 GB

New Virtual Disks

VD_3	186.08 GB
VD_4	167.47 GB

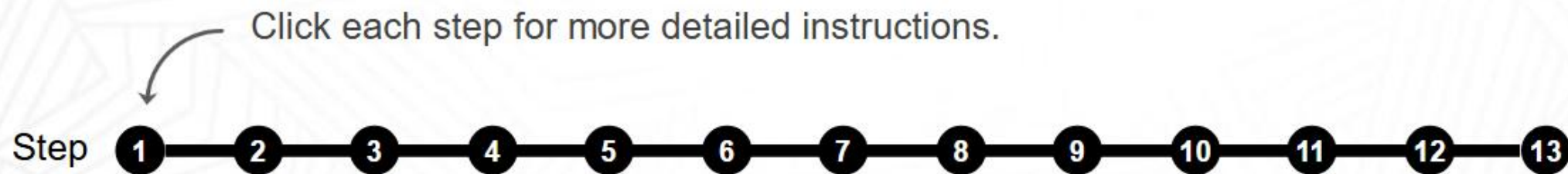
< Back

Start Creating

Cancel

## RAID setup in HII

Use the following steps to setup RAID in HII.

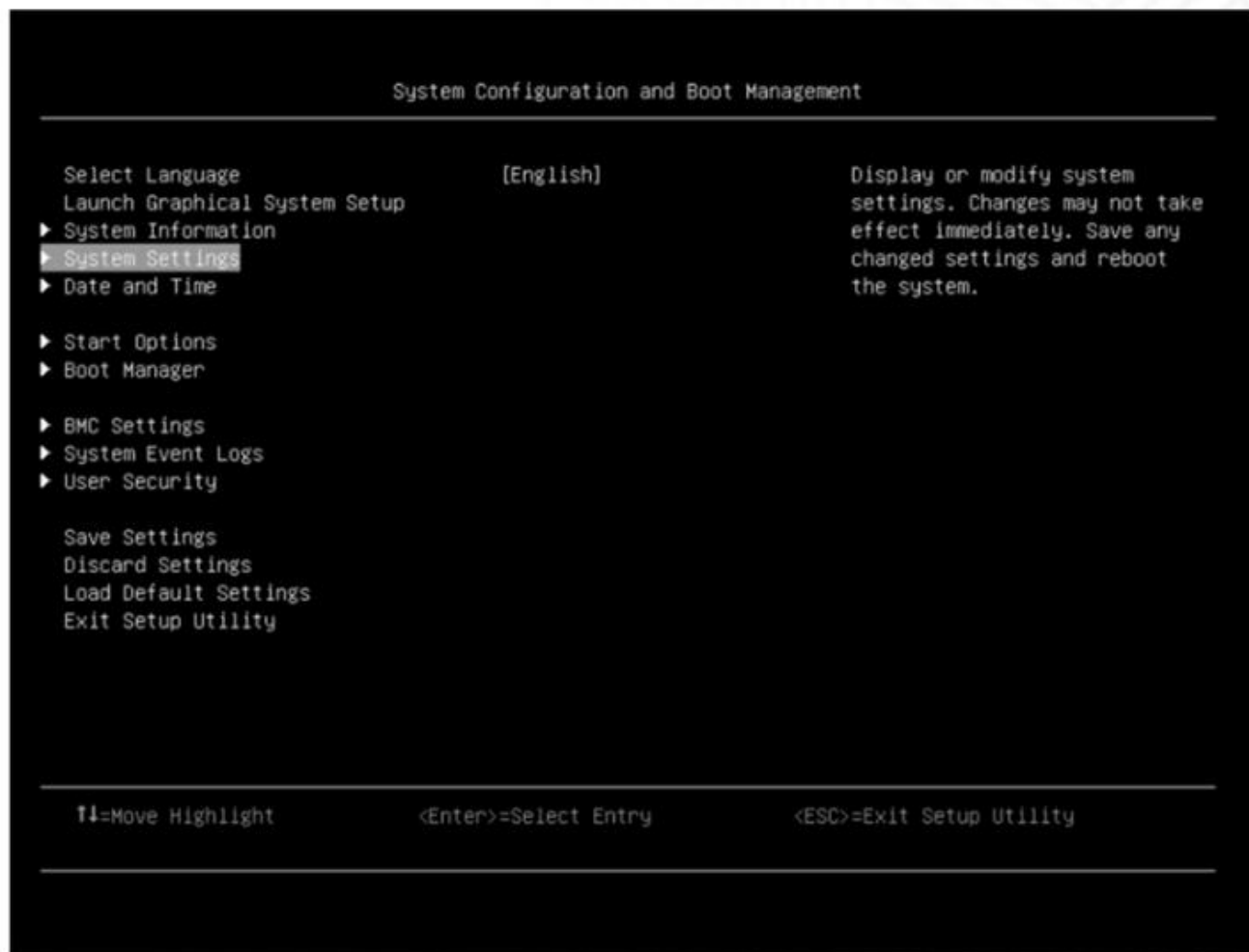




# RAID setup in HII

The setting of RAID in HII utility is almost the same as the previous System X servers.

Press **F1** during start up to into the UEFI setup menu, then select **System Settings**.



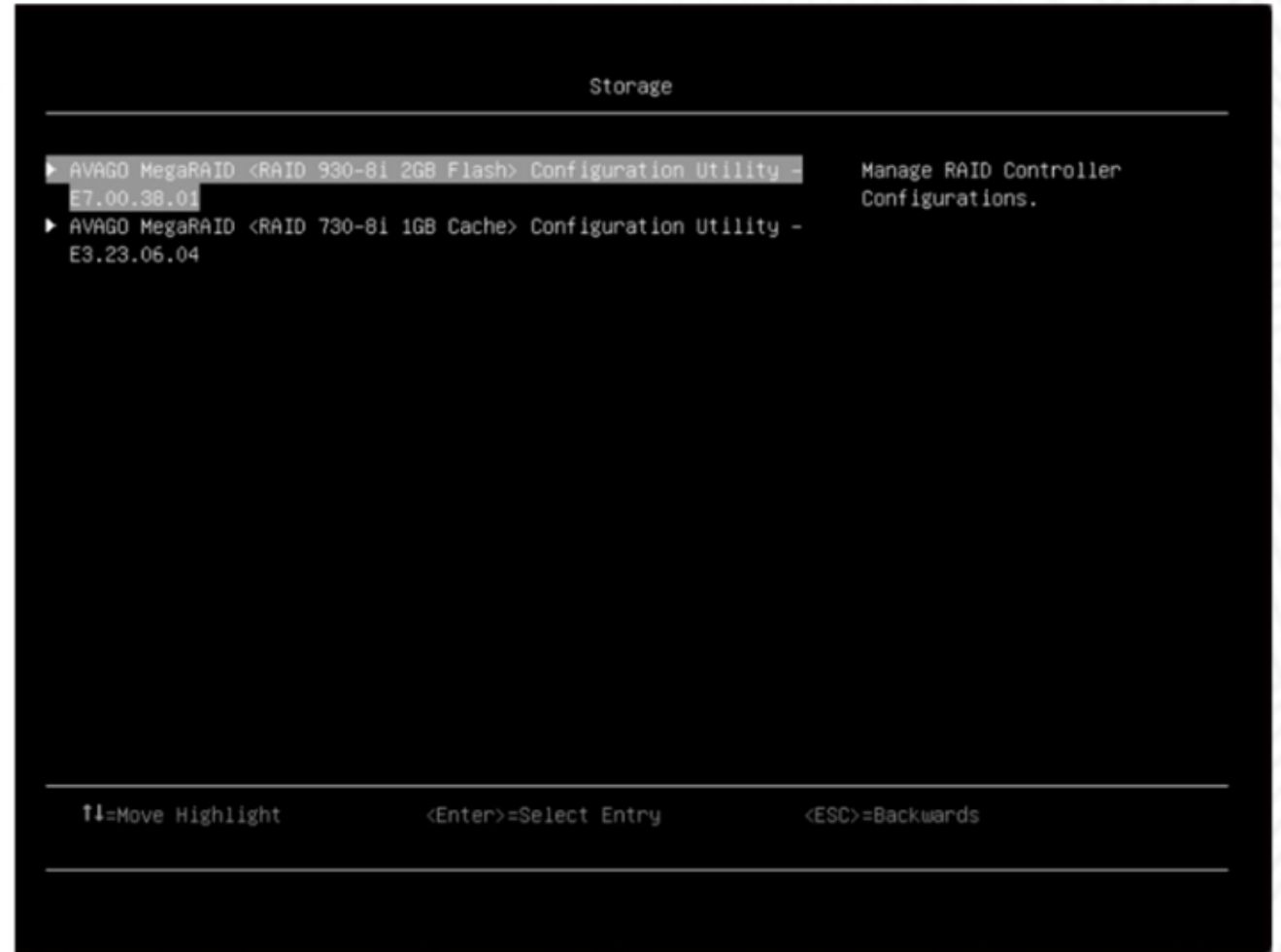
# RAID setup in HII

Select **Storage**.



# RAID setup in HII

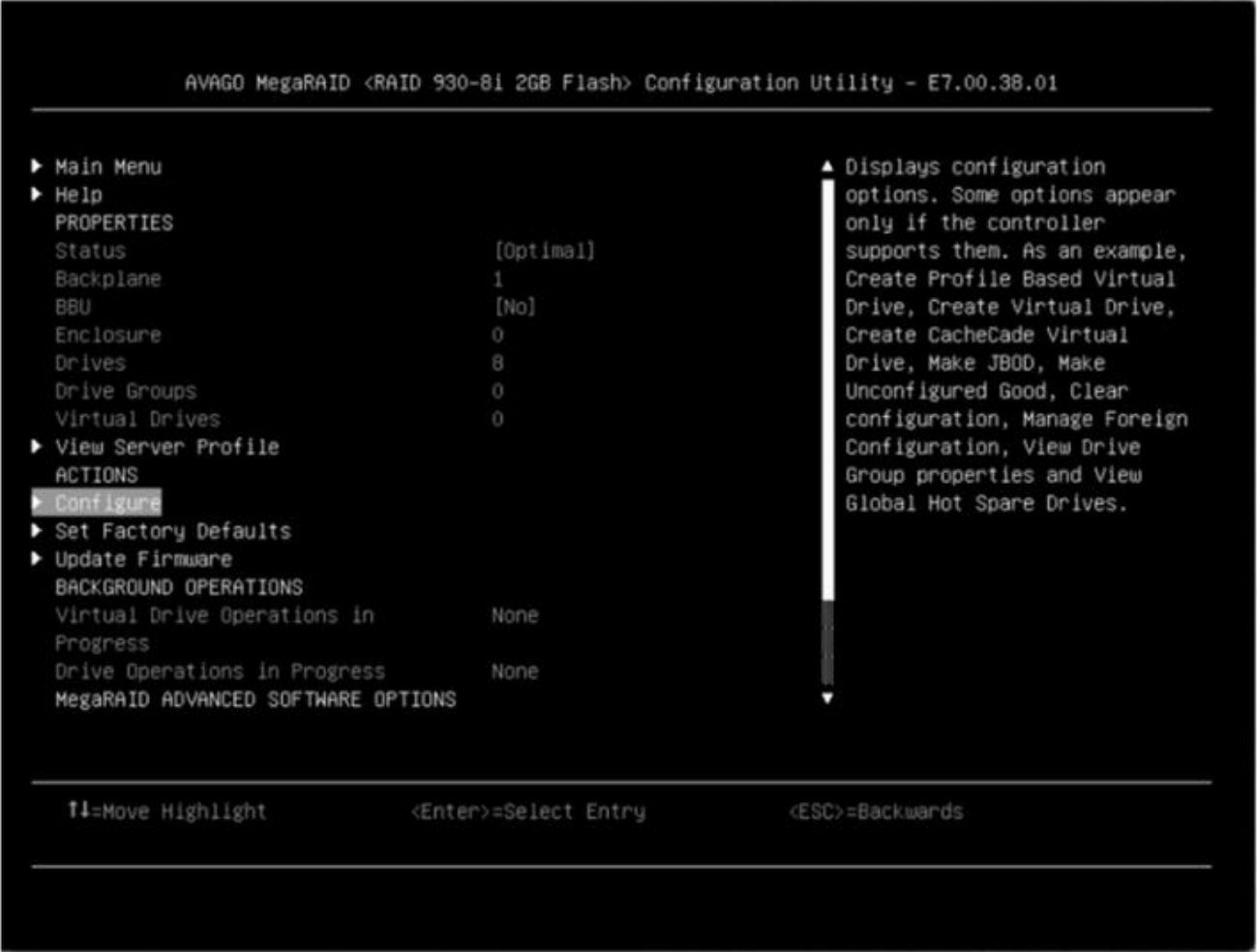
The supported RAID controllers appear in the list for configuration. RAID 930-8i is selected for this example.





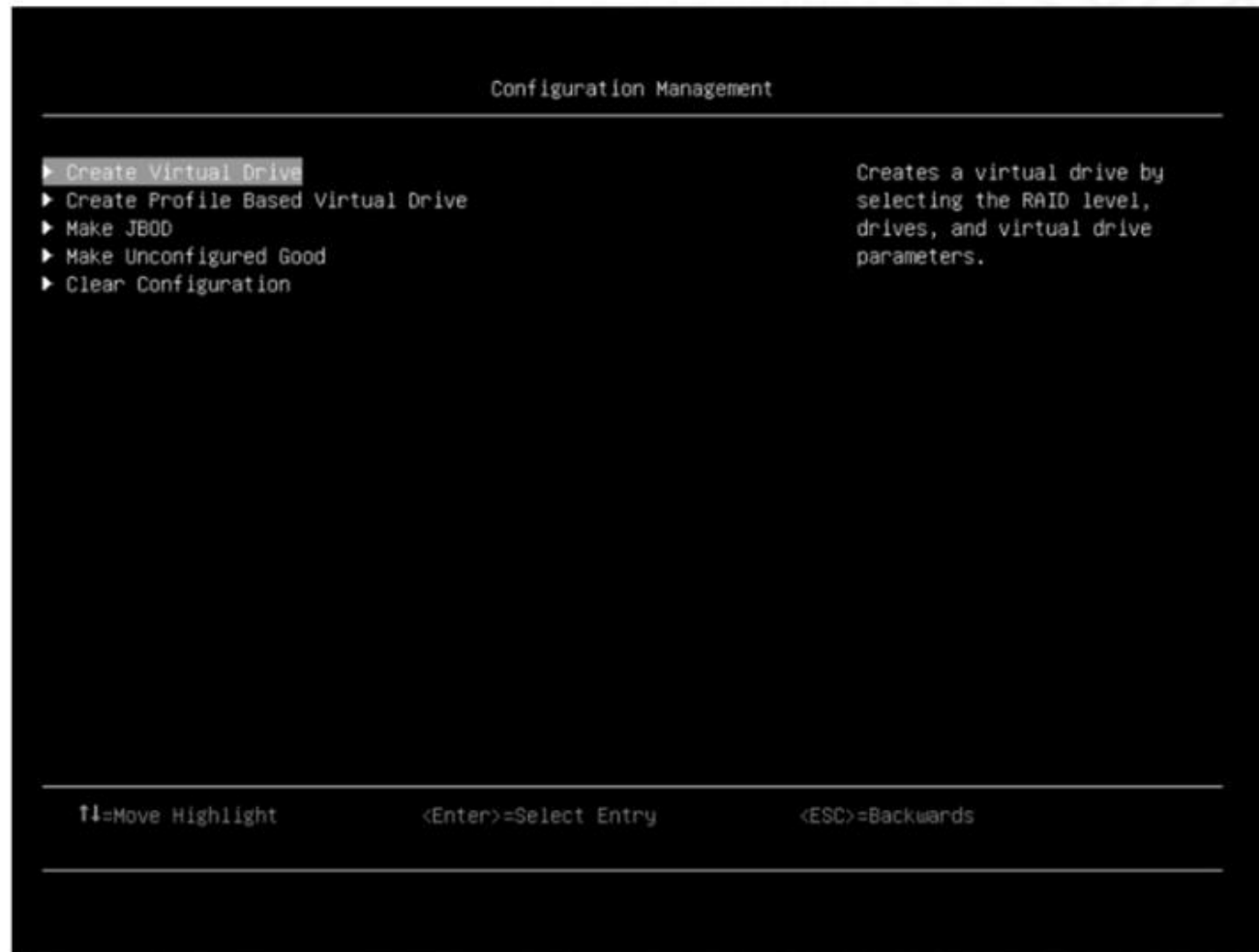
# RAID setup in HII

Select **Configure**.



# RAID setup in HII

Select **Create Virtual Drive**.



Step **1** — **2** — **3** — **4** — **5** — **6** — **7** — **8** — **9** — **10** — **11** — **12** — **13**

# RAID setup in HII

Select **Select RAID Level**. (Assume that RAID 5 is selected.)

Create Virtual Drive

▶ Save Configuration		
Select RAID Level	[RAID0]	Selects the desired RAID level. The RAID levels that can be configured are 0, 1, 5, 6 (if supported), 00, 10, 50, and 60 (if supported).
Secure Virtual Drive	[ ]	
Select Virtual Drive	[ ]	
Select Drives From	[Unconfigured Capacity]	
▶ Select Drives		
CONFIGURE VIRTUAL DRIVE PARAMETERS:		
Virtual Drive Name	Select RAID Level	
Virtual Drive Size	RAID0	
Virtual Drive Size Unit	RAID1	
Strip Size	RAID5	
Read Policy	RAID6	
Write Policy	RAID00	
I/O Policy	RAID10	
Access Policy		
Drive Cache		
Disable Background Initialization	[No]	
Default Initialization	[No]	
Emulation Type	[Default]	
▶ Save Configuration		

RAID 0 -- uses drive striping to provide high data throughput, especially for large files in an environment that requires no data redundancy.

RAID 1 -- uses drive mirroring so that data written to one drive is simultaneously written to another drive. RAID 1 is good for small databases or other applications that require small capacity and

More (D/d)

↑↓=Move Highlight      <Enter>=Select Entry      <ESC>=Backwards



# RAID setup in HII

Select **Select RAID Level**. (Assume that RAID 5 is selected.)

Create Virtual Drive

▶ Save Configuration		
Select RAID Level	[RAID0]	Selects the desired RAID level. The RAID levels that can be configured are 0, 1, 5, 6 (if supported), 00, 10, 50, and 60 (if supported).
Secure Virtual Drive	[ ]	
Select Virtual Drive	[ ]	
Select Drives From	[Unconfigured Capacity]	
▶ Select Drives		
CONFIGURE VIRTUAL DRIVE PARAMETERS:		
Virtual Drive Name	Select RAID Level	
Virtual Drive Size	RAID0	
Virtual Drive Size Unit	RAID1	
Strip Size	RAID5	
Read Policy	RAID6	
Write Policy	RAID00	
I/O Policy	RAID10	
Access Policy		
Drive Cache		
Disable Background Initialization	[No]	
Default Initialization	[No]	
Emulation Type	[Default]	
▶ Save Configuration		

RAID 0 -- uses drive striping to provide high data throughput, especially for large files in an environment that requires no data redundancy.

RAID 1 -- uses drive mirroring so that data written to one drive is simultaneously written to another drive. RAID 1 is good for small databases or other applications that require small capacity and

More (D/d)

↑↓=Move Highlight      <Enter>=Select Entry      <ESC>=Backwards

# RAID setup in HII

Select **Select Drives**.



## RAID setup in HII

Select the appropriate number of hard drives to create RAID 5. Then, select **Apply Changes**.

Select Drives

Apply Changes

Select Media Type [HDD]

Select Interface Type [Both]

Logical Sector Size [Both]

CHOOSE UNCONFIGURED DRIVES:

Drive Port 0 - 3:01:00: HDD, SAS, [X]  
557.861GB, Unconfigured Good,  
Protection-Type 2, (512B)

Drive Port 0 - 3:01:01: HDD, SAS, [X]  
557.861GB, Unconfigured Good,  
Protection-Type 2, (512B)

Drive Port 0 - 3:01:02: HDD, SAS, [X]  
278.464GB, Unconfigured Good,  
Protection-Type 2, (512B)

Drive Port 0 - 3:01:03: HDD, SAS, [ ]  
837.258GB, Unconfigured Good,  
Protection-Type 2, (512B)

Drive Port 4 - 7:01:04: HDD, SATA, [ ]  
930.390GB, Unconfigured Good,  
(512B)

Submits the changes made to the entire form.

↑↓=Move Highlight      <Enter>=Select Entry      <ESC>=Backwards



# RAID setup in HII

Select **Confirm** and then select **Yes**.



# RAID setup in HII

The **Success** page displays. Then press **ESC** to go back to main menu.



# RAID setup in HII

The virtual drive information is listed here. Select **Save Configuration** to continue the process.

Create Virtual Drive

Save Configuration		Submits the changes made to the entire form and creates a virtual drive with the specified parameters.
Select RAID Level	[RAID5]	
Secure Virtual Drive	[ ]	
Protect Virtual Drive	[ ]	
Select Drives From	[Unconfigured Capacity]	
▶ Select Drives		
CONFIGURE VIRTUAL DRIVE PARAMETERS:		
Virtual Drive Name		
Virtual Drive Size	556.929	
Virtual Drive Size Unit	[GB]	
Strip Size	[64 KB]	
Read Policy	[Read Ahead]	
Write Policy	[Write Back]	
I/O Policy	[Direct]	
Access Policy	[Read/Write]	
Drive Cache	[Disable]	
Disable Background Initialization	[No]	
Default Initialization	[No]	
Emulation Type	[Default]	
▶ Save Configuration		

↑=Move Highlight      <Enter>=Select Entry      <ESC>=Backwards

# RAID setup in HII

Select **Confirm** and then select **Yes**. The virtual drive will be created.





## Setting up VMD NVMe RAID in LXPM

Work through the following procedure to create a virtual disk (VMD NVMe RAID) in LXPM.

**Note:** Intel VMD must be enabled in UEFI mode.

Click each step in turn to see the procedure.

Step

1

2

3

4

5

# Setting up VMD NVMe RAID in LXPM

Log in to the LXPM Web UI and select **RAID Setup** → **Start**

Step

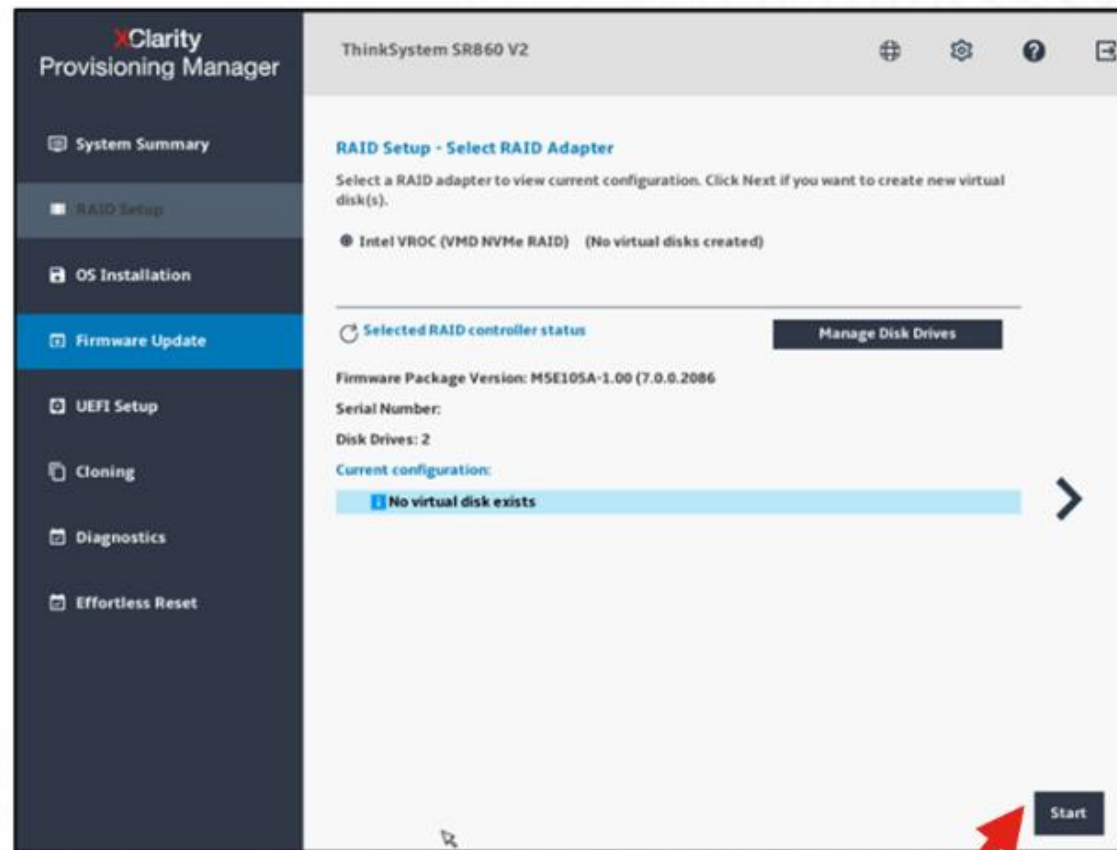
1

2

3

4

5



# Setting up VMD NVMe RAID in LXPM

Select **Simple** configuration

Step

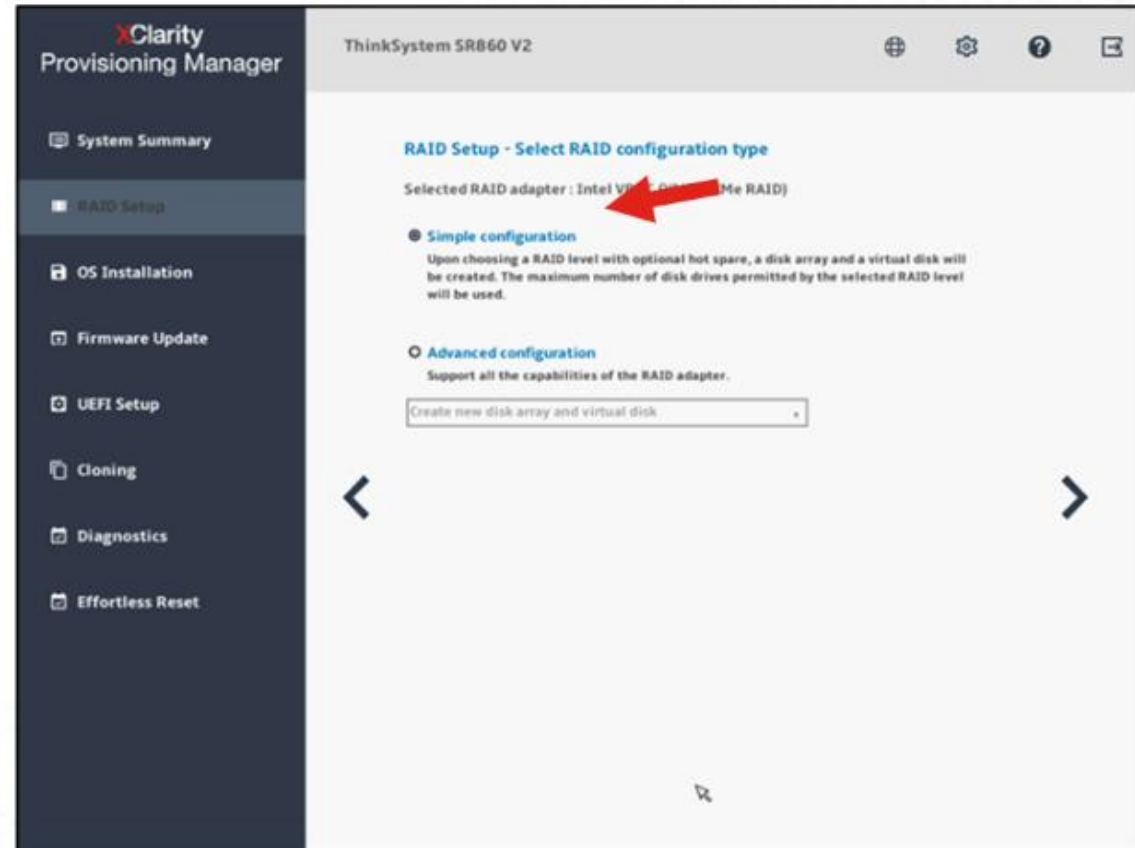
1

2

3

4

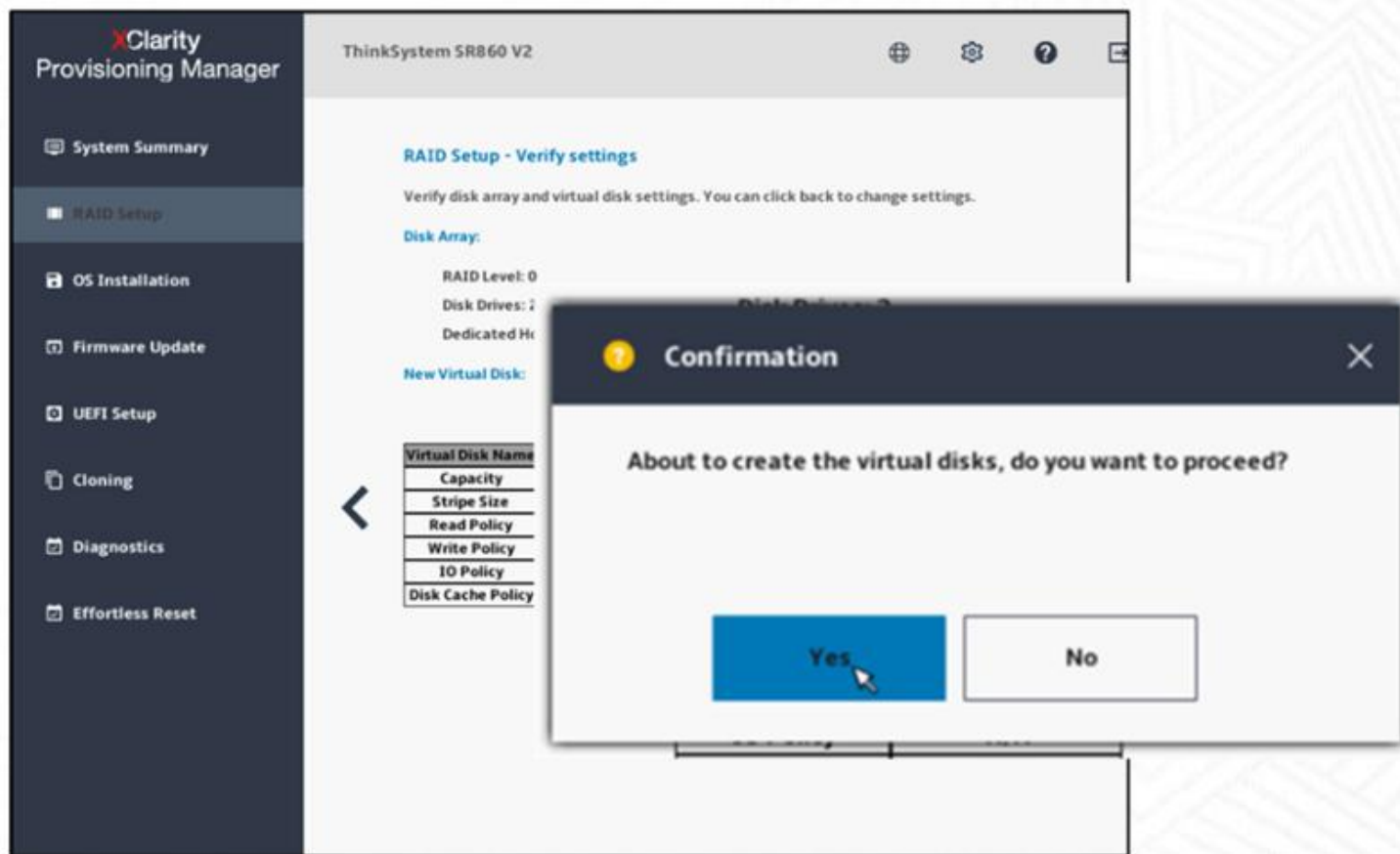
5





# Setting up VMD NVMe RAID in LXPM

Verify the RAID settings, and then click **Yes** to confirm.



Step

1

2

3

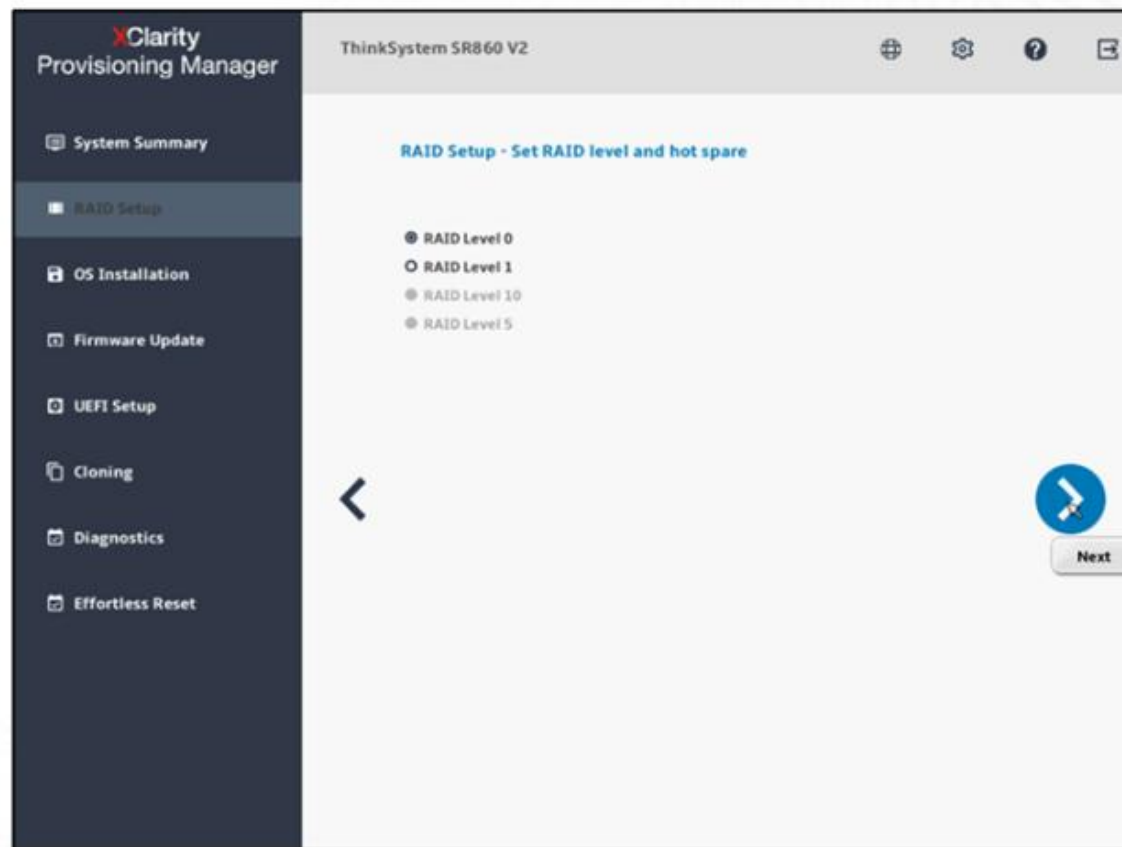
4

5



# Setting up VMD NVMe RAID in LXPM

Select a **RAID level**. In this example, only two NVMe drives are attached, so only RAID 0 and RAID 1 are possible.



Step

1

2

3

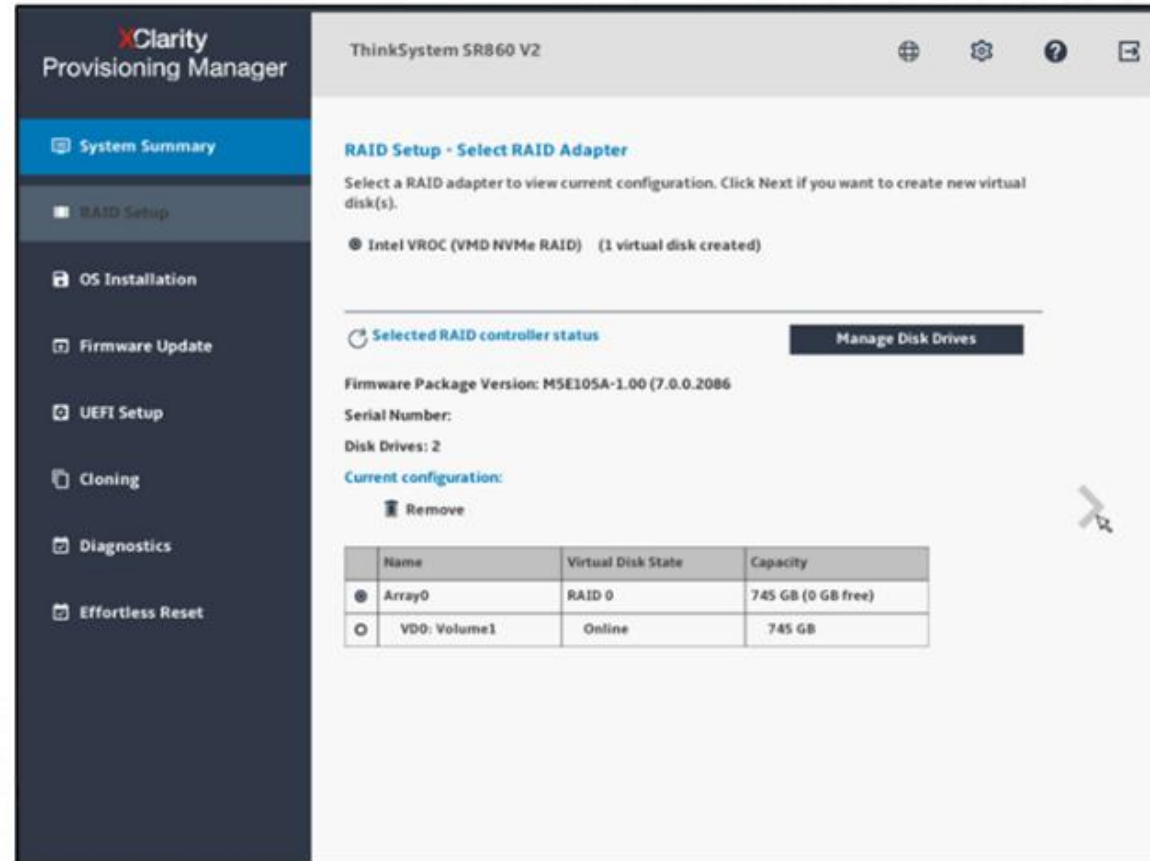
4

5

# Setting up VMD NVMe RAID in LXP

After the virtual disk has been created, virtual disk information will be displayed.

Virtual volumes can be removed on the same page.



Step

1

2

3

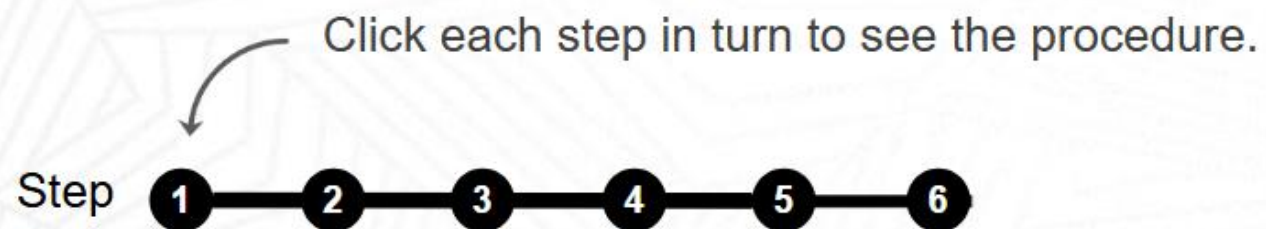
4

5

## Setting up VMD NVMe RAID in Legacy Mode

Work through the following procedure to create a virtual disk (VMD NVMe RAID) in UEFI Legacy Mode.

**Note:** Intel VMD must be enabled in Legacy mode.





# Setting up VMD NVMe RAID in Legacy Mode

Log in to UEFI Legacy Mode by pressing **F1** during the server boot up. Select **System Settings**.





## Setting up VMD NVMe RAID in Legacy Mode

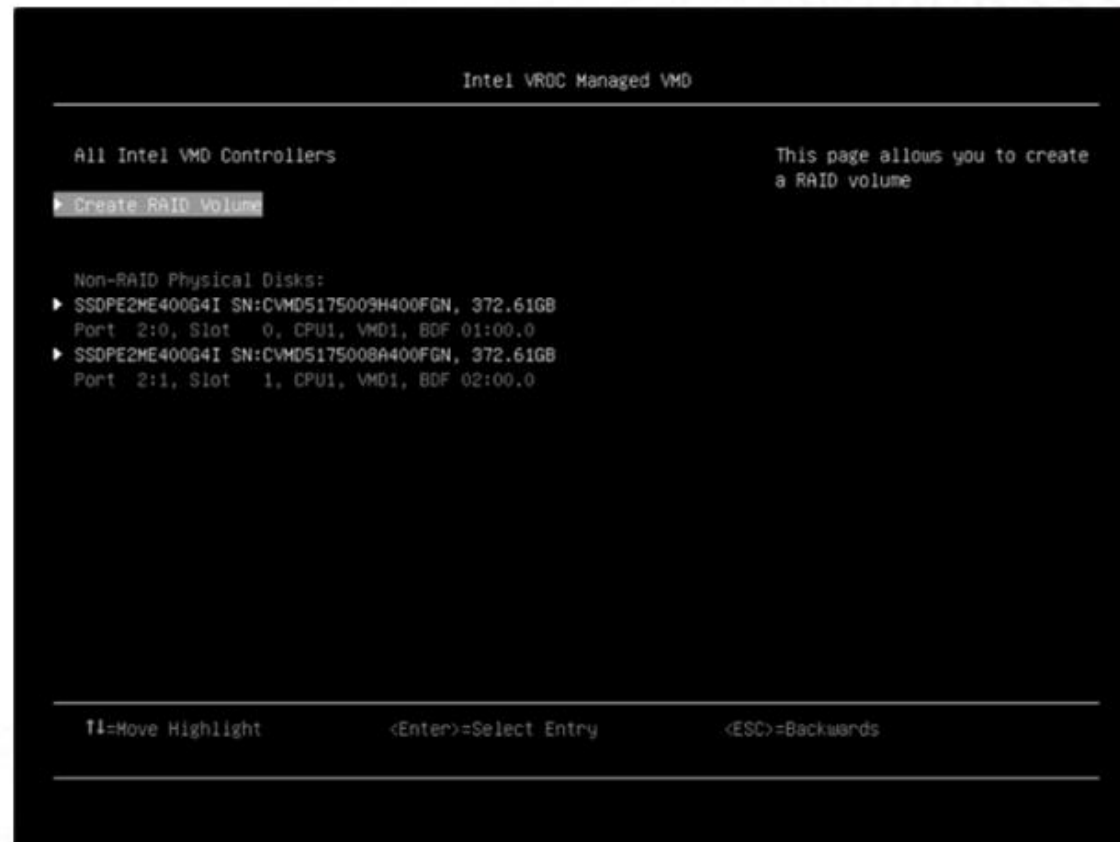
Select **Intel Virtual RAID on CPU**.  
Information about the NVMe disks  
attached to the system will be  
displayed.



Step **1** — **2** — **3** — **4** — **5** — **6**

# Setting up VMD NVMe RAID in Legacy Mode

Select **Create RAID Volume**.



# Setting up VMD NVMe RAID in Legacy Mode

Select **No RAID volumes on the system** to create NVMe RAID.

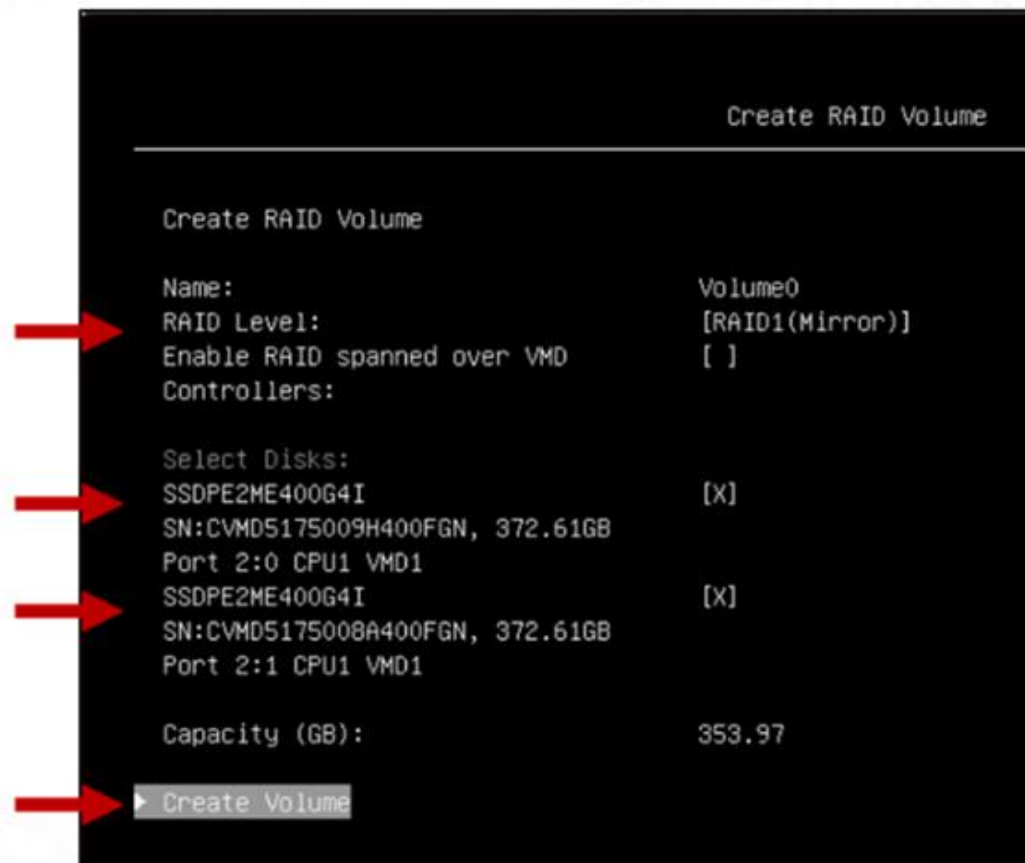


Step



# Setting up VMD NVMe RAID in Legacy Mode

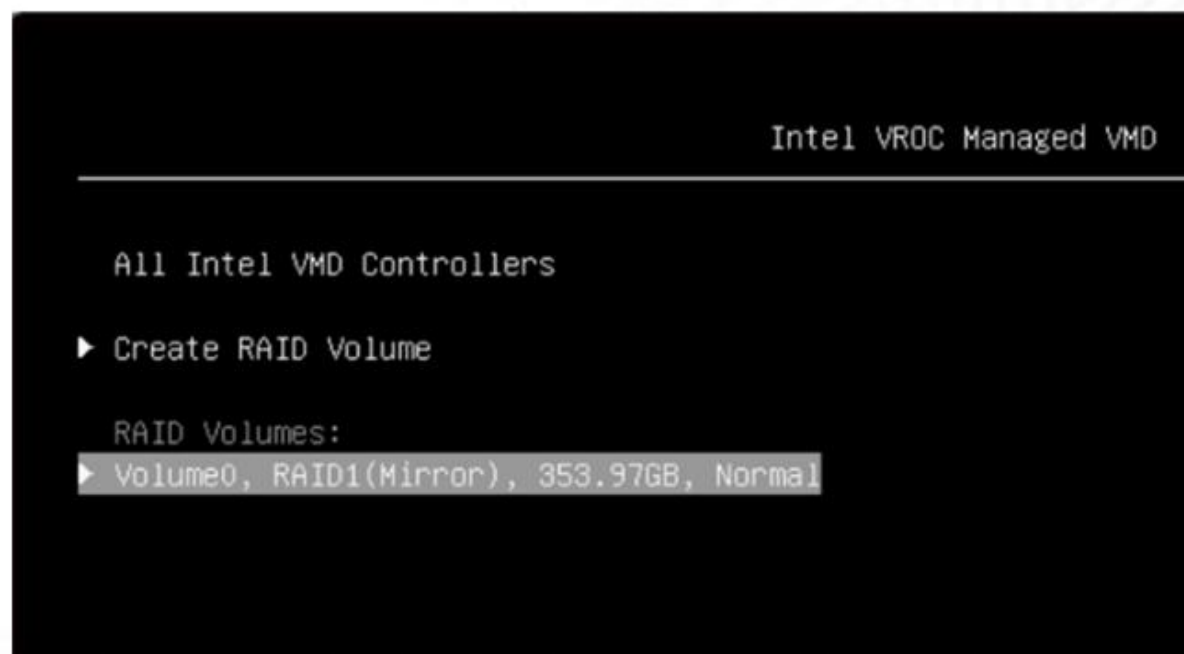
Select **RAID Level**, and then choose disks to add into RAID. Then select **Create volume**.





## Setting up VMD NVMe RAID in Legacy Mode

When RAID has been created, RAID information will be displayed in the menu.

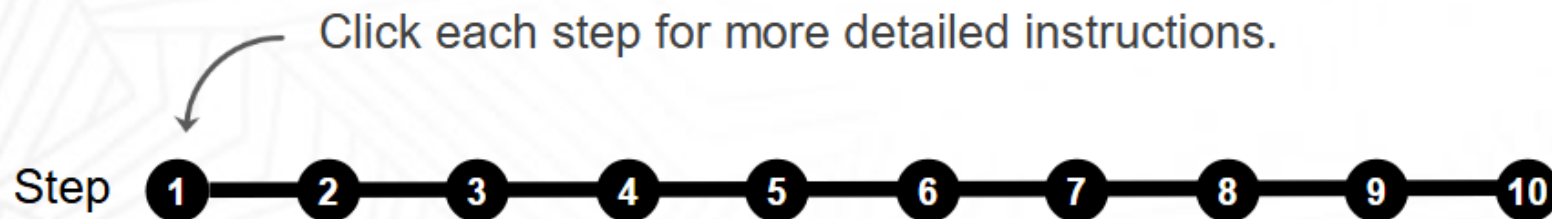


## Configure CacheCade SSD caching in HII

Things to consider before performing this process:

- Verify that you have a supported RAID controller installed.
- Make sure that the installed SSD are supported for SSD Caching. Check the following tip for more info: <https://datacentersupport.lenovo.com/us/en/solutions/migr-5094754>

Use the following steps to configure CacheCade SSD caching when all the above requirements are met.



# Configure CacheCade SSD caching in HII

Press **F1** during start up to into the UEFI setup menu, then select **System Settings**.



Step ① — ② — ③ — ④ — ⑤ — ⑥ — ⑦ — ⑧ — ⑨ — ⑩

# Configure CacheCade SSD caching in HII

Select **Storage**.

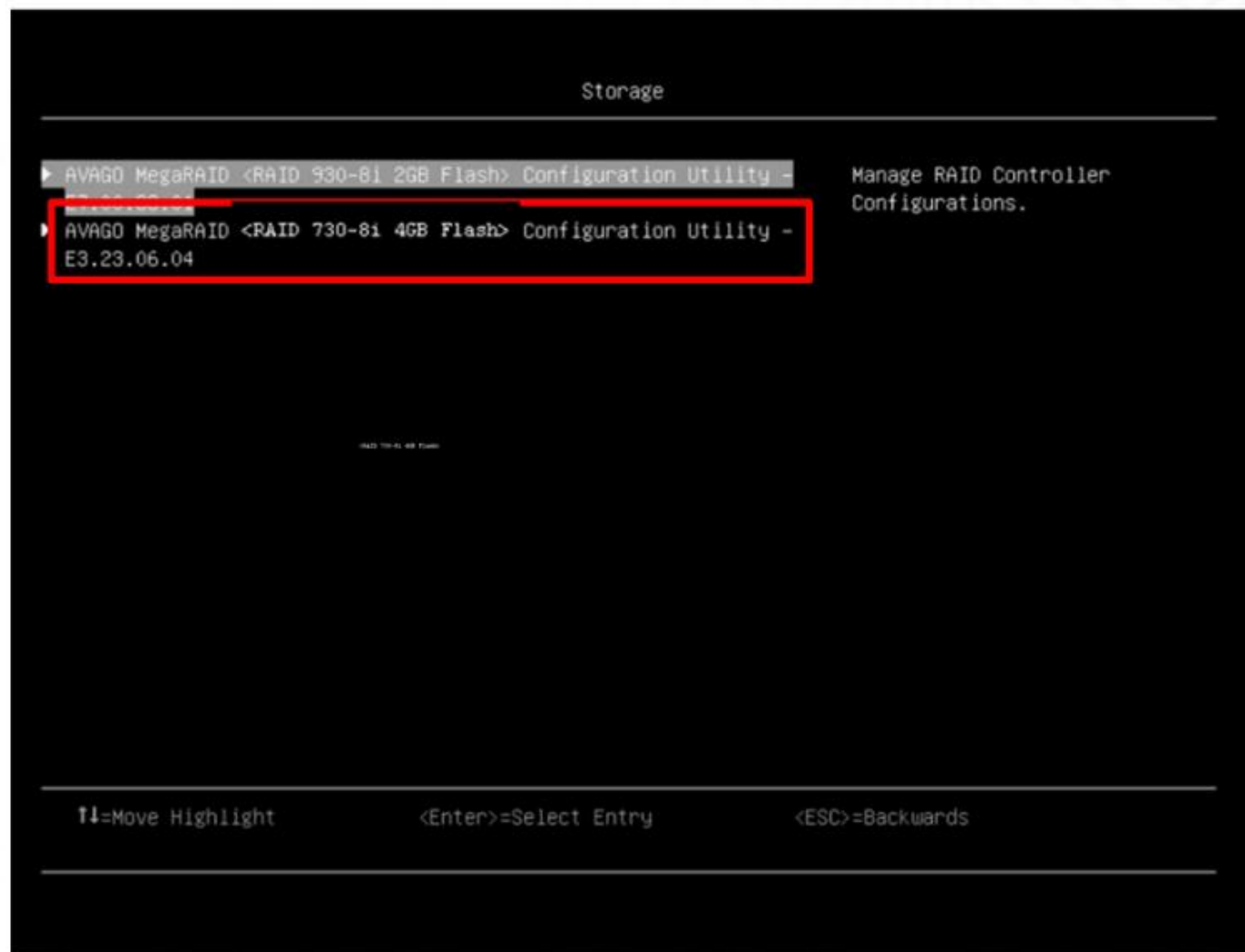


Step **1** — **2** — **3** — **4** — **5** — **6** — **7** — **8** — **9** — **10**



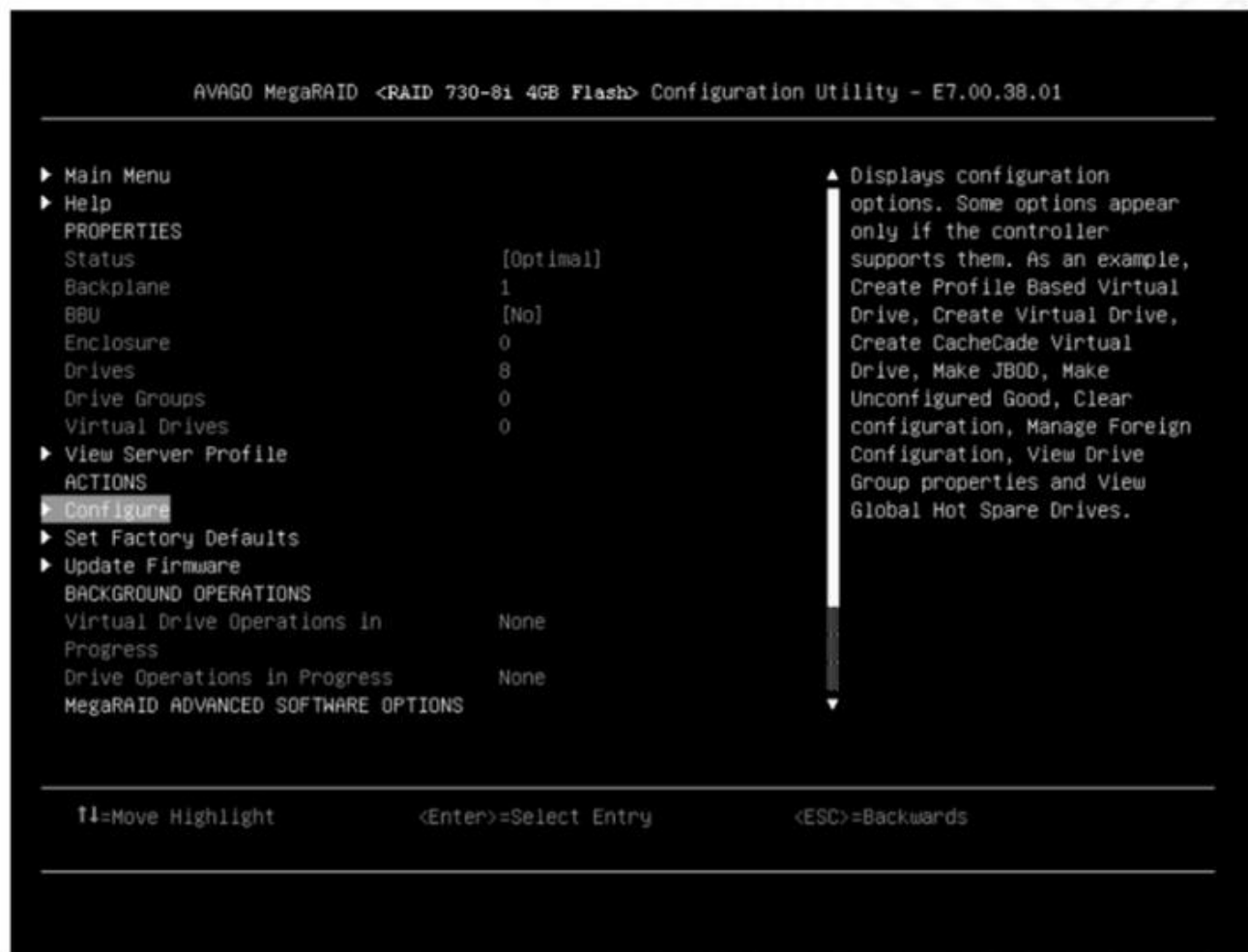
## Configure CacheCade SSD caching in HII

The RAID controllers appear in the list for configuration. RAID 730-8i 4 GB Flash adapter is selected for this example.



# Configure CacheCade SSD caching in HII

Select **Configure**.



# Configure CacheCade SSD caching in HII

Select **Create CacheCade Virtual Drive**.

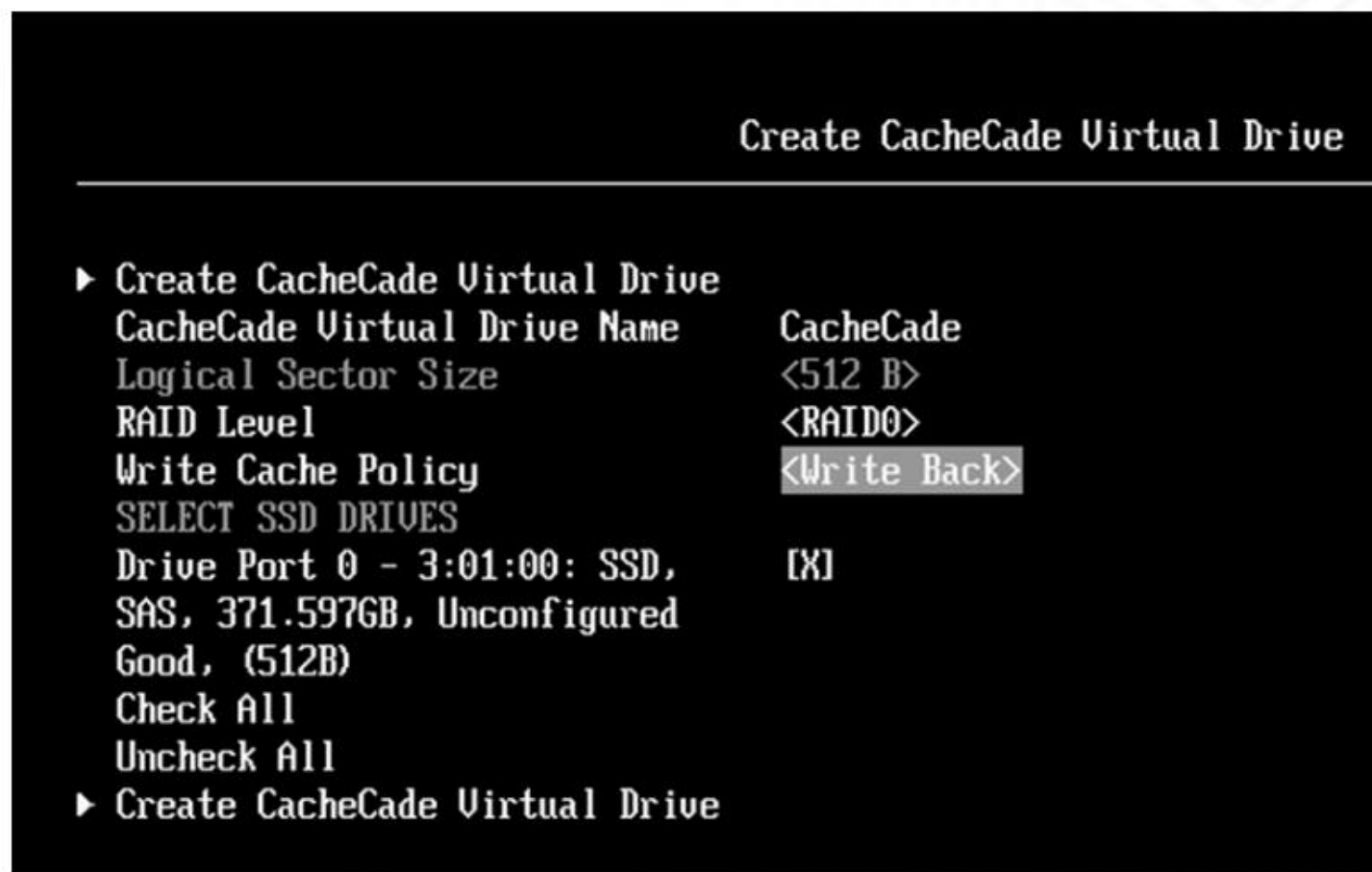
## Configuration Management

- ▶ Create Virtual Drive
- ▶ Create Profile Based Virtual Drive
- ▶ **Create CacheCade Virtual Drive**
- ▶ View Drive Group Properties
- ▶ Clear Configuration

Step **1** — **2** — **3** — **4** — **5** — **6** — **7** — **8** — **9** — **10**

## Configure CacheCade SSD caching in HII

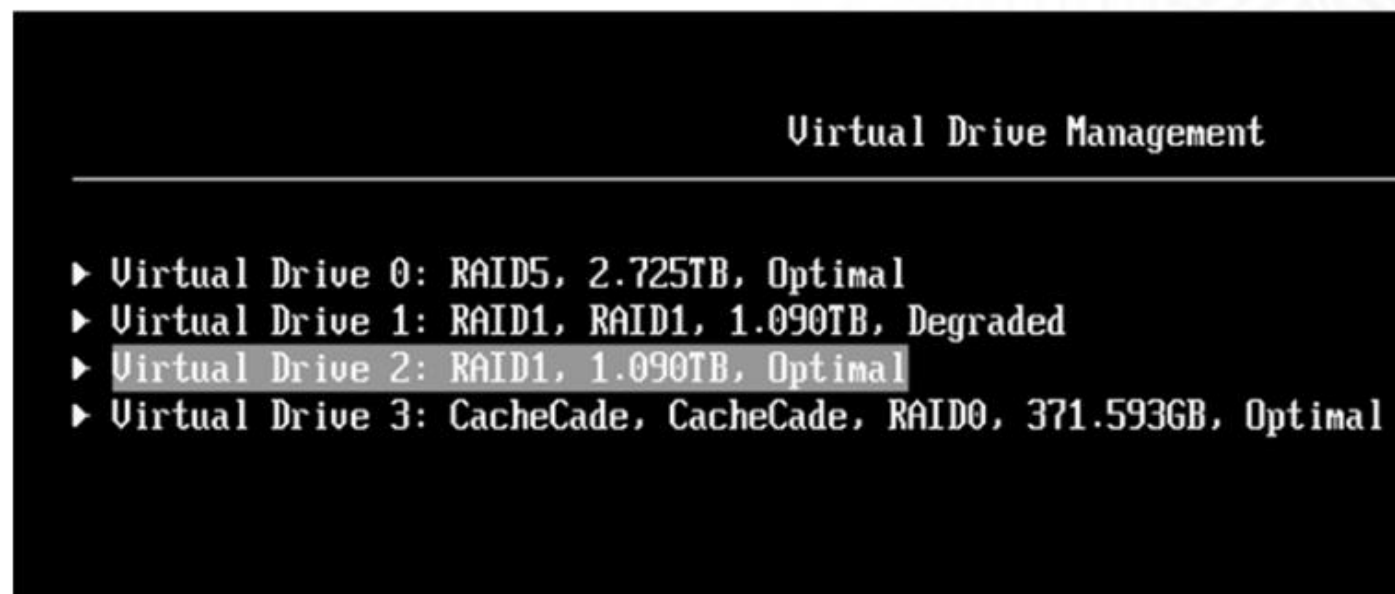
Configure the CacheCade based on your requirements and SSD availability.





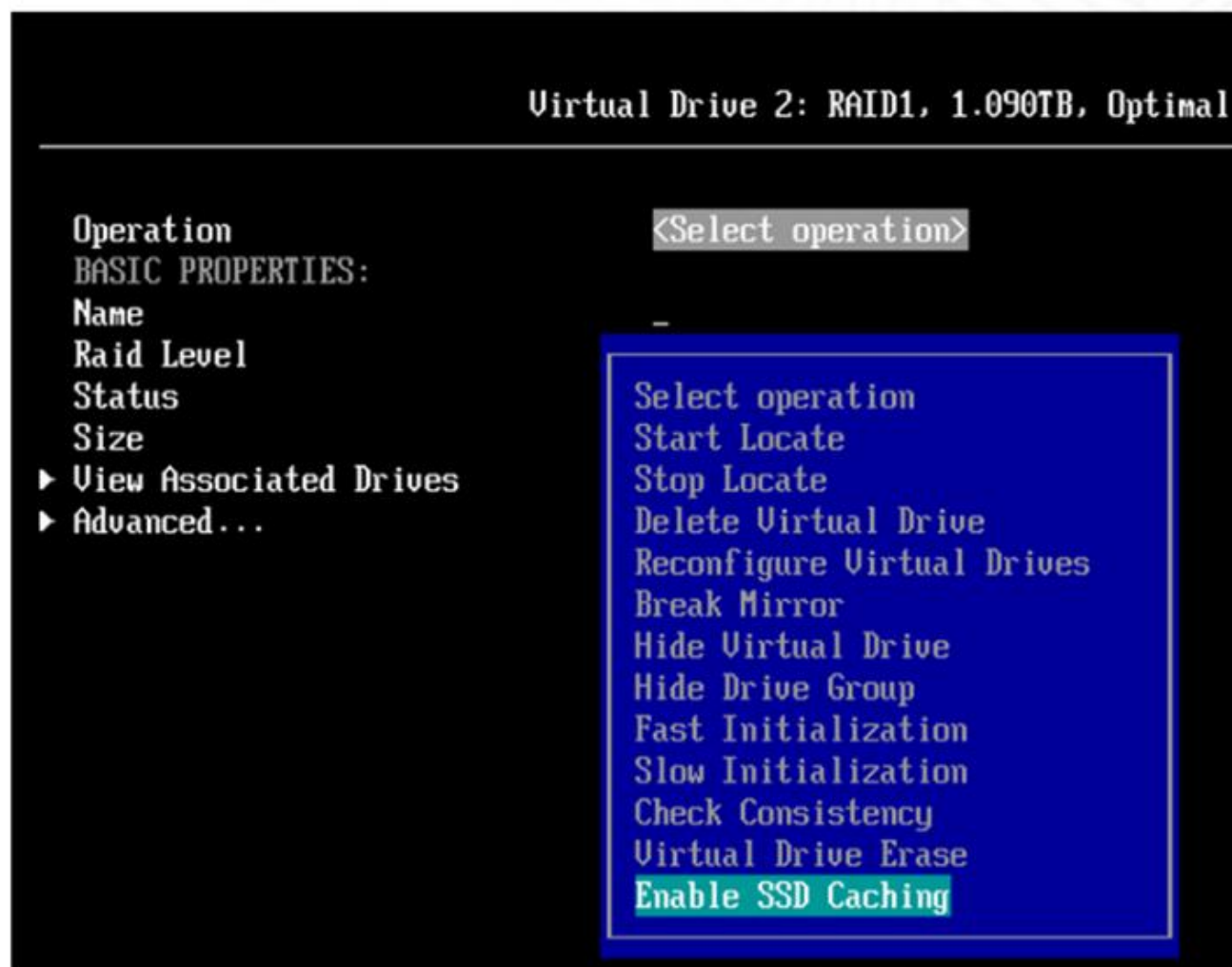
## Configure CacheCade SSD caching in HII

Enable the SSD caching on any of the existing Virtual drives by selecting the VD that you want to enable SSD caching on under the Virtual Drive Management menu.



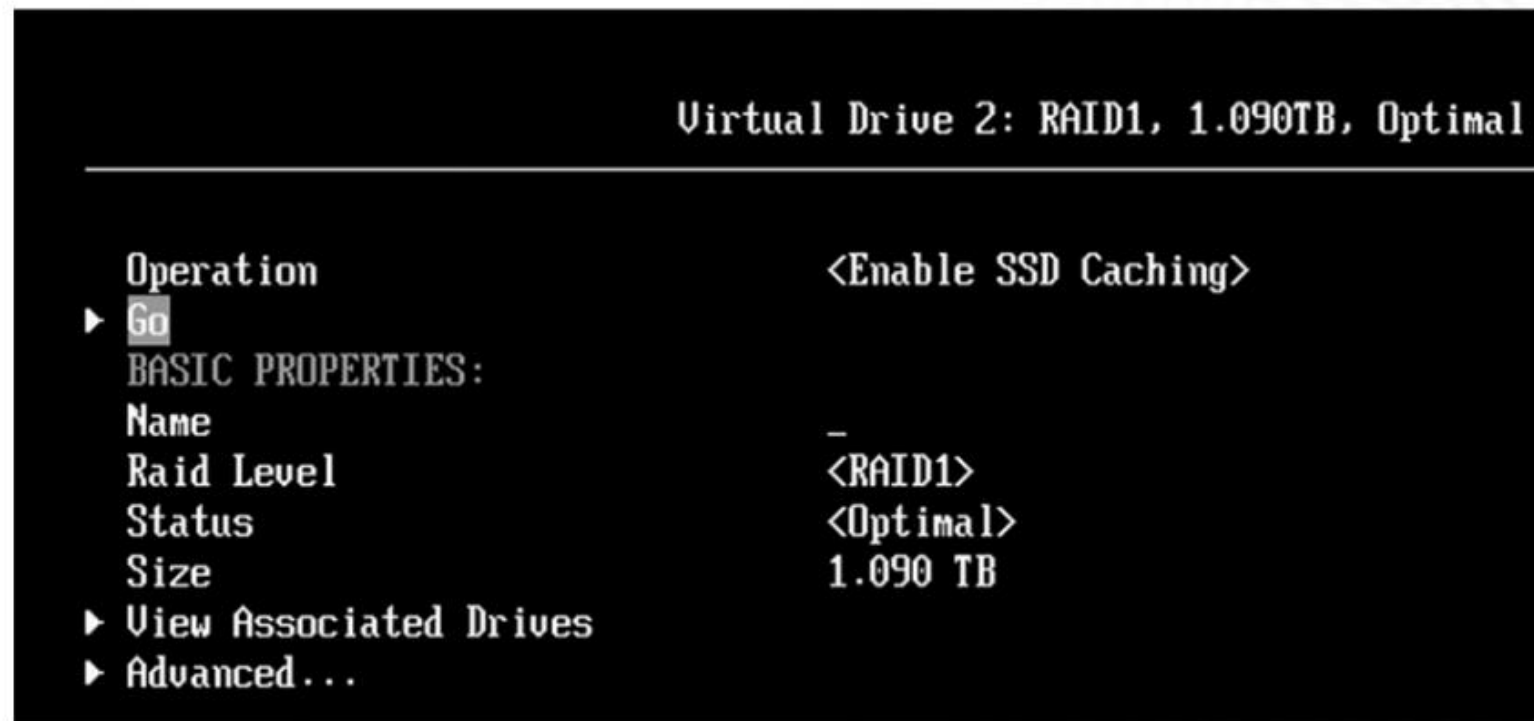
## Configure CacheCade SSD caching in HII

Select **Operation** and choose **Enable SSD Caching**.



# Configure CacheCade SSD caching in HII

Select **Go**.





## Configure CacheCade SSD caching in HII

- Select **Confirm** then **Yes**.
- You can confirm the SSD caching was enabled by going to the Virtual drive under the **Advanced** option.





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# Summary

This course enabled you to:

- Describe the features of the ThinkSystem storage adapters.
- Describe the features of the NVMe and M.2 storage device.
- Describe the features of the Intel VROC software RAID.
- Describe the features of the LSI Storage Authority software.
- Identify the differences between RAID adapters.
- Describe how to configure RAID adapters with the different tools.
- Describe how to configure CacheCade SSD caching in HII.