Lab Report

Your Performance

Your Score: 1 of 3 (33%) Pass Status: Not Passed
Elapsed Time: 3 minutes 16 seconds Required Score: 100%

Task Summary

Actions you were required to perform:

- ✓ Install three hard drives
- ✗ Set the SATA Operation mode in the BIOS to RAID on
- ✗ Create a RAID5 array with three disks

Explanation

In this lab, your task is to complete the following:

- Add the minimum number of disks to the computer to create a RAID5 array that meets the scenario requirements. Do not remove extra disks from the Shelf.
- Connect the disks to the motherboard
- Connect power cables to the disks.
- Boot the computer and configure a RAID array in the motherboard RAID configuration utility.
  - Choose the RAID level based on the scenario requirements.
  - Configure the array to use all of the disk space on the installed disks.

Complete this lab as follows:

1. Install the hard drives for a RAID5 array as follows:
   a. Above the computer, select **Drive Bays** to switch to the drive bays view.
   b. On the Shelf, expand **Hard Drives**.
   c. Drag a **hard drive** to a free 3.5" drive bay.
   d. Repeat step 1c to add additional hard drives as required by the scenario. A RAID5 array requires a minimum of three disks.
2. Connect the disks to the motherboard as follows:
   a. On the Shelf, expand **Cables** to connect the hard drives to the motherboard.
   b. Select a **SATA cable**.
   c. Under Selected Component, drag a **SATA connector** to the hard drive.
   d. Repeat steps 2b–2c to connect cables to the other two hard drives.
   e. Above the computer, select **Motherboard** to switch to the motherboard view.
   f. Under Partial Connections for the computer, select a **SATA cable**.
   g. Under Selected Component, drag the unconnected **SATA connector** to the motherboard SATA connector.
   h. Repeat steps 2f–2g to connect the other two SATA cables to the motherboard.
3. Connect the power cables as follows:
   a. Under Partial Connections for the computer, select the ***power supply***.
   b. Above the computer, select **Drive Bays** to switch to the drive bays view.
   c. Under Selected Component, drag a **SATA power connector** to a hard drive.
   d. Repeat step 3c to connect power to the other drives.
4. Boot the computer and configure a RAID array as follows:
   a. Above the computer, select **Front** to switch to the front view of the computer.
   b. Click the **power** button to turn on the computer.
   c. As the computer boots, press **Delete** to enter the BIOS setup program.
   d. From the left menu, expand **System Configuration** to configure the SATA drive mode.
   e. Select **SATA Operation**.
   f. In the right pane, select **RAID On**.
   g. Select **Apply**.
   h. Click **Exit** to restart the system. As the system boots and the BIOS loads, the RAID controller will load.

i. When the message screen displays, press **Ctrl + I**.
j. With Create RAID Volume highlighted, press **Enter**.
k. Press **Enter**.
l. In the RAID Level field, use the up and down arrow keys to select **RAID5 (Parity)**.
m. Press **Enter**.
n. In the Strip Size field, use the up and down arrow keys to select **128 KB**.
o. Press **Enter**.
p. Press **Enter** to accept the default capacity and continue.
q. With Create Volume highlighted, press **Enter**.
r. Press **Y** to create the volume.
s. Press **Esc**.
t. Press **Y** to exit.