

Servicing the Lenovo ThinkSystem storage controllers

ES51780C



Prerequisites

Although there are no specific prerequisites for this course, you should have some knowledge of high-performance computing (HPC) systems, be familiar with the general administration of a network cluster, and have problem determination and troubleshooting skills.

Objectives

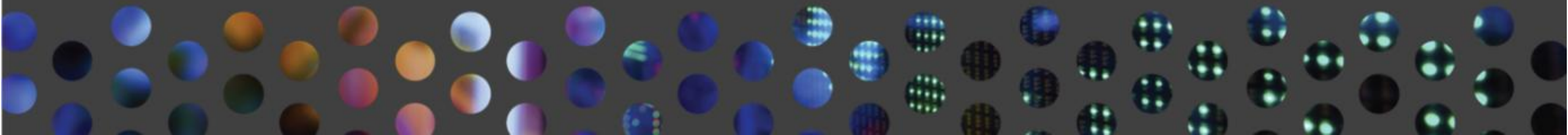
After completing the course, you will be able to:

- 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 and adapters with the different tools.
- Describe how to configure CacheCade SSD caching in HII.



➞ Product overview

ThinkSystem storage controllers



ThinkSystem storage controller overview

The ThinkSystem servers support internal SAS and SATA drives with the addition of a RAID controller or HBA. The server also supports NVMe devices through onboard NVMe ports (selected model) or NVMe switch adapters, and they also support the M.2 drive through the M.2 boot adapter.

RAID and HBA controller for internal storage:

- ThinkSystem 430 series SAS HBA adapter
- ThinkSystem 440 series SAS HBA adapter
- ThinkSystem RAID 530 series adapter
- ThinkSystem RAID 540 series adapter
- ThinkSystem RAID 730 series adapter
- ThinkSystem RAID 930 series adapter
- ThinkSystem RAID 940 series adapter
- Intel Rapid Storage Technology Enterprise (RSTe) software RAID

NVMe adapter for internal storage:

- ThinkSystem 1610-4P and 1610-8P NVMe switch adapter
- ThinkSystem 810-4P NVMe switch adapter (SR630 only)
- ThinkSystem 1611-8P NVMe switch adapter

ThinkSystem M.2 Enablement Kit:

- Single M.2 boot adapter
- Dual M.2 boot adapter (supports mirroring)