Hewlett Packard Enterprise

HPE Integrity Cell-Based Partitions Administration HG770S

This course covers hard partitioning (nPars) and virtual partitioning (vPars) management on cell-based HPE 9000 and Integrity servers. The two-day course is 50 percent lecture and 50 percent hands-on labs using HPE servers. Please note: This course is a subset of the content of course HPE Integrity Cell-Based Server Administration (U5075S).

HPE course number	HG770S
Course length	2 days
Delivery mode	ILT
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Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training*
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Audience

- Experienced HP-UX system administrators

Prerequisites

- HP-UX System and Network Administration I (H3064S) and HP-UX System and Network Administration II (H3065S) or
- HP-UX System and Network Administration for Experienced UNIX System Administrators (H5875S) or
- Equivalent experience

Course objective

At the conclusion of this course, you should be able to:

- Identify the hardware and software components of HPE's Virtual Server Environment (VSE)
- Configure and manage node partitions (nPars)
- Configure and manage virtual partitions (vPars v5)
- Use Ignite-UX to install HP-UX in a partition

Benefits to you

- Determine and utilize the appropriate combination of HPE Partitioning Continuum technologies that best meet your data center needs
- Learn how to configure, modify, and remove partitions on Integrity and HPE 9000 servers
- Increase server flexibility and utilization by knowing how to easily reconfigure and resize partitions

Detailed course outline

Module 1: Introduction to the HPE Virtual Server Environment	• Why virtualize or partition systems? • HPE partitioning continuum • Instant Capacity solutions • A cell-based system with node partitions • Virtual partitions (vPars v5) • Integrity Virtual Machines (VM) • HPE Process Resource Manager (PRM) • VSE management tools • Workload managers • Capacity Advisor • Virtualization Manager
Module 2: Addressing Hardware	• HPE servers supporting partitioning • HP-UX address types • Legacy vs. agile view hardware addresses • Viewing nPar, vPar, and VM hardware addresses • Device special files: legacy vs. persistent • Slot addresses • EFI hardware addresses (Integrity only) • Viewing interface cards with pdweb • Addressing tools summary • Cell-based servers Integrity boot disk format
Module 3: Administering Node Partitions (nPars)	• What are node partitions? • Partition planning • Interleaved vs. cell local memory • The first and genesis partitions • The complex profile • HP-UX nPar management tools • parmgr • Booting nPars • Displaying complex information • Dynamic nPartitions • Cell state transitions • Hyper-threading
Module 4: Brief Introduction to Ignite-UX	• What is Ignite? • Ignite-UX use models • Interacting with Ignite-UX • Ignite recovery choices

Module 5: Virtual Partitions Preparation and Planning	• vPars v5 concepts
	• Partition configuration key points
	• nPar/vPar boot sequence
	• Integrity nPar/vPar boot sequence
	• vPars v5 planning and current releases
	• Mixed release environments
	• Installing vPars v5
	• Minimum vPars v5 requirements
	• Planning vPar resources
	• Dynamic memory migration
	• Locality of reference
Module 6: Creating Virtual Partitions	• vPars v5 commands
	• Interacting with the vPars v5 monitor
	• Setting Integrity environment variables
	• Managing and accessing the vPars v5 console
Module 7: Virtual Partitions Management	• Display vPars v5 status
	• Find unused resources in a vPars v5 environment
	• Migrate CPUs and memory between running vPars v5
	• Rules for a mixed environment
	• Flexible administrative capability
	• vPars v5 - Ignite-UX considerations

Next steps

• HPE Capacity Advisor and Global Workload Manager (HF869S) or consider attending courses in the HPE Virtual Server Environment (VSE) curriculum

Learn more at
hpe.com/ww/learnhpuxintegrity

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