



HPE Integrity Cell-Based Partitions Administration HG770S

HPE course number	HG770S
Course length	2 days
Delivery mode	ILT
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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).

Audience

- Experienced HP-UX system administrators

- Configure and manage virtual partitions (vPars v5)
- Use Ignite-UX to install HP-UX in a partition

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

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

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)

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
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Course data sheet

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- 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

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- 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

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- 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
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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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