



# HPE Integrity VM v6 and HP-UX vPars v6 Administration H1L51S (00839831)

<b>HPE course number</b>	H1L51S
<b>Course length</b>	3 days
<b>Delivery mode</b>	ILT
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HPE Integrity vPars/HPEVM v6.2 allows creating, managing, and administering both virtual partitions (vPars) and virtual machines (VMs) with the same software. This course provides experienced HP-UX 11i v3 administrators with the knowledge to develop the skills needed to manage this virtual server environment. The course is 50 percent lecture and 50 percent hands-on labs using HPE Integrity c-Class i2 blade servers.

## Why HPE Education Services?

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## Audience

- Experienced HP-UX system administrators responsible for managing and monitoring Integrity i2 servers virtualized with vPars/HPEVM v6.1+

## Important note

Students administering virtual machines using HPEVM 4.3 should attend course HB506S. Students administering partitions on cell-based servers should attend course U5075S. Students partitioning Superdome 2 from the Onboard Administrator should attend course HK713S.

## 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 HP-UX administration experience on Integrity servers

## Course objectives

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

- Identify potential Virtualization Services Provider (VSP) systems, based on available hardware and software resources
- Configure vPars and VMs using vPars/HPEVM v6.2 software installed on the VSP
- Control, monitor, and manage vPars and VMs, including modification of resources statically and dynamically
- Migrate VMs offline and online between VSPs
- Migrate vPars offline between VSPs
- Configure the Globally Unique ID manager (GUIDmgr) software to support virtualized Fibre Channel HBAs using NPIV
- Position virtual servers in a highly available Serviceguard environment

\*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

## Benefits to you

- Gain the skills to configure, monitor, and manage a virtual server environment using vPars/HPEVM v6.2
- Gain valuable hands-on experience using the server virtualization management tools

## Detailed course outline

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### Module 1: HPE Integrity VM v6 and HP-UX vPars Introduction

- Distinguishing features of HPE's Server Virtualization technologies
- vPars/HPEVM v6 terminology
- How CPU, memory, network devices, and storage devices are virtualized
- Supported hardware and software revisions

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### Module 2: Preparing the VSP

- Components of a c-Class enclosure, Integrity i2/i4 blades and Superdome 2
- vPars/HPEVM v6.2 and related software and reboot as VSP
- vPars/HPEVM v6.2 manpages on the VSP
- Physical disk backing stores
- Virtual switches
- VSP CPU resource pool

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### Module 3: Administration Basics with vPars/HPEVM v6

- Create a virtual partition and virtual machine
- Assign virtual network devices
- Assign virtual storage devices
- Modify virtual partition and virtual machine configurations
- Display the virtual partition and virtual machine configuration
- Manually boot a virtual partition and a virtual machine from its console
- Power down and remove a virtual partition and a virtual machine

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### Module 4: Administering vPars/HPEVM v6 Beyond the Basics

- VSP resources
- Configure vPar/VM console and viLO options
- Backing store options
- Add a virtual DVD device to a vPar/VM
- Install HP-UX on a vPar/VM boot disk
- Configure the vEFI boot manager menu
- Manage virtual switch VLAN settings
- Suspend/resume a virtual machine
- Configure dynamic memory and cores
- Clone a virtual server
- Monitor vPar/VM resource utilization

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### Module 5: Migrating Integrity Virtual Servers with vPars/HPEVM v6

- Define a virtual server with resources compatible with offline vPar or VM migration
- Define a VM to be migrated online
- Configure two VSPs as current and target hosts
- Migrate a virtual server offline
- Migrate a VM online to another VSP

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### Module 6: vPars/HPEVM v6 with GUIDmgr v1.0 and NPIV

- SAN LUN zoning with NPIV
- Initializing the Global Unique Identifier manager (GUIDmgr) on a server and client
- Using the GUID to assign a vHBA to a virtual server

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### Module 7: Using HPE Serviceguard with vPars/HPEVM v6

- Different scenarios for involving virtual servers in Serviceguard clusters
  - Benefits of different scenarios for involving virtual servers in Serviceguard clusters
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## Course data sheet

### Next steps

- HPE Systems Insight Manager on HP-UX (HK712S)
- HPE Capacity Advisor and Global Workload Manager (HF869S)

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