



# HPE Integrity Virtual Machines v4.3 Administration HB506S

<b>HPE course number</b>	HB506S
<b>Course length</b>	2 days
<b>Delivery mode</b>	ILT
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This course covers Integrity server virtualization using the HPE Integrity Virtual Machines (VM) software. Learn to fully use the flexibility of the HPE Integrity VM software to maximize the resource utilization of your Integrity servers and develop the skills needed to install, configure, and manage HPE Integrity Virtual Machines. The course is 50 percent lecture and 50 percent hands-on labs using HPE Integrity servers.

## Why HPE Education Services?

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- Simplified purchase option with HPE Training Credits

## Note

- Students who attend HPE Integrity Cell-Based Server Administration (U5075S) need not attend HB506S course as U5075S and HB506S include identical Integrity Virtual Machine content

## 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 objectives

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

- Define the relationship between a VM host and VM guest

- Install HPE Virtual Machines software on a properly configured HPE Integrity server
- Configure, boot, monitor, modify, and manage VM guests
- Boot the VM host
- Use the Virtual Machines Manager to monitor a VM environment

## Benefits to you

- Maximize your Integrity server utilization and improve system availability by learning how to install and administer HPE Integrity Virtual Machines
- Increase scalability and improve the ratio of applications to physical resources by knowing how to automatically allocate those resources to the right application at the right time
- Learn how to use Integrity VM to set up isolated virtual machines as test environments to reduce the time required to deploy new applications or application revisions

## Detailed course outline

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<b>Module 1: Integrity Virtual Machines Introduction</b>	<ul style="list-style-type: none"><li>• Virtualization concepts and terminology</li><li>• Shared resources</li><li>• VM host, virtual machines, and VM guests</li><li>• Virtual networks and storage devices</li><li>• Reserved devices</li><li>• Integrity Virtual Machine Manager</li></ul>
<b>Module 2: Preparing the Physical Server</b>	<ul style="list-style-type: none"><li>• Integrity VM requirements</li><li>• Creating virtual networks and storage backing devices</li><li>• Reserving access to VM host devices</li><li>• VM host HP-UX upgrade</li></ul>
<b>Module 3: Creating and Running Integrity Virtual Machines</b>	<ul style="list-style-type: none"><li>• Integrity VM administration, configuration, and VM management</li><li>• VM CPU, memory, and I/O allocation</li><li>• Accessing a VM console</li><li>• Starting and stopping a VM</li><li>• Suspend and resume a VM</li></ul>
<b>Module 4: Managing and Monitoring Integrity VMs</b>	<ul style="list-style-type: none"><li>• Managing I/O devices</li><li>• Adding devices to a running VM</li><li>• Storage: high availability guidelines</li><li>• Accelerated Virtual I/O (AVIO)</li><li>• Managing virtual DVD devices and VLANs</li><li>• VM guest dynamic memory</li><li>• Dynamic CPU management</li><li>• Cloning and removing a virtual machine</li><li>• Monitoring VMs and VMs from the host</li><li>• Configuration and log files</li><li>• Glance (and Performance Agent) in a virtual OS environment</li><li>• VM host CPU monitoring—hpvmsar</li></ul>
<b>Module 5: Migrating Integrity Virtual Machines</b>	<ul style="list-style-type: none"><li>• Why migrate a VM?</li><li>• VM host configuration to support VM migration</li><li>• VM host requirements and recommendations</li><li>• VM configuration to support online migration</li><li>• VM migration procedures</li><li>• Offline and online VM migration</li></ul>
<b>Module 6: Using HPE Serviceguard with Integrity VMs</b>	<ul style="list-style-type: none"><li>• Integrity VM commands</li><li>• Serviceguard commands</li><li>• Serviceguard and Integrity VM use models</li><li>• Integrity VMs as Serviceguard nodes</li><li>• Cluster in a box</li><li>• Integrity VMs as Serviceguard packages</li><li>• Serviceguard and online VM guest migration</li><li>• Application monitoring in a VM guest package</li><li>• HPE VM toolkit</li><li>• Serviceguard on VM host—LAN failover</li></ul>

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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](http://hpe.com/ww/learnhpuxintegrity)

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