

Course Data Sheet

HP Data Protector 9.x VMware Integration

Course ID: H4D10S	Course length: 2 days
Software version: 9.0x	Delivery formats: Instructor Led (ILT) and Virtual Instructor Led (VILT)
Lab version: 9.01	Training is also available as private, onsite and public sessions.
To order visit: www.hpe.com/fr/formation	

Course Description

This course demonstrates effective VMware Integration with HP Data Protector. It is designed for HP Data Protector Administrators who are responsible for protecting their VMware environment, or anyone wishing to implement and learn about the advanced and multifaceted VMware integration capabilities of HP Data Protector. These capabilities include the back up of: a Virtual Machine (VM), a vAPP with many VMs, or an entire VMware Data Center. Participants will learn the advantages in performing: full, incremental, differential, or Change Block Tracking (CBT) optimized backups. In addition, participants will learn how the Granular Recovery Extension (GRE) is used to recover single VM files using either the staged recovery method or the new non-staged recovery method with Smart Cache.

Audience / Job Roles

Storage and system administrators using HP Data Protector software, System Engineers, Consultants, Project Managers, Professional Services, and Sales

Course Objectives

Upon successful completion of this course, you should be able to:

- Describe the available HP Enterprise Data Protection Solutions
- Describe basic VMware functionality and how it integrates with Data Protector
- Describe in detail how Data Protector uses VMware snapshot technology to create backups
- Install, configure, and use the VEAagent to perform backups and restores
- Install, configure, and use the Data Protector VMware Granular Recovery Extension (GRE) to perform backups and restores
- Configure and use the VMware vCloud Director (vCD) Storage Image method to perform backups and restores

Prerequisites / Recommended Skills

To be successful in this course, you should have the following prerequisites or knowledge:

- Completion of Data Protector 7.x, 8.x, or 9.x Essentials Course or equivalent working knowledge
- Basic knowledge of VMware

Learning Path

Depending upon your business role or interests, you can pursue either (or both) of the following learning paths:



Certification

[HP ATP - Data Protector v9](#)

Course Details

Module	Objectives
Module 1 - Introduction	Upon completion of this module, you will be able to: <ul style="list-style-type: none"> • Understand the course overview, agenda, and logistics • Describe the other available Data Protector courses • Get additional information about HP Data Protector software
Module 2 - HP Autonomy's Enterprise Data Protection Solutions	Upon completion of this module, you will be able to: <ul style="list-style-type: none"> • Understand and explain HP Enterprise Data Protection Solutions: Data Protector, LiveVault, and Connected Backup
Module 3 - VMware Basics	Upon completion of this module, you will be able to explain: <ul style="list-style-type: none"> • The history of Data Protector's VMware Integrations • The core components of a typical VMware Environment: vCenter Server, ESXi hosts, VMs, DataStores, Datacenters, and vAPPS • VMware's vSphere Clients • Basic VMware functionality like vMotion, DRS, and Thin Provisioning • RAW device mapping • Web browser access to the vCenter Server
Module 4 - VMware Snapshot Technology used by Data Protector	Upon completion of this module, you will be able to: <ul style="list-style-type: none"> • Understand how Data Protector uses VMware technologies as snapshots and snapshots trees • Understand how snapshots can be used to make incremental and differential image backups • Describe the different snapshot handling modes Data Protector offers
Module 5 - VEAagent	Upon completion of this module, you will be able to: <ul style="list-style-type: none"> • Understand the advantages of the VEAagent • Install and configure the VEAagent • Create backup specifications • Discuss the different backup options: Omnirc and global variables • Preview a backup session • Describe the different ways to restore a VM

<p>Module 6 - VMware GRE Integration</p>	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> • Understand the value and benefits of the Data Protector VMware Granular Recovery Extension (GRE) • Describe the necessary DP components in a VMware Environment • Understand the prerequisites for installing the DP GRE • Install the DP GRE Web plug-in • Install and configure the DP GRE Extension Agent • Use GRE to recover a single file • Use VEAgent backups or Smart Cache to recover single files • Discuss the advantages and disadvantages of non-staged and staged VMware GRE
<p>Module 7 - vCloud Director (vCD)</p>	<p>Upon completion of this module, you will be able to:</p> <ul style="list-style-type: none"> • Describe the VMware vCloud Director (vCD) architecture and list its components • Navigate and use the vCD GUI • Discuss the configuration requirements • Import the vCD system • Create backup specifications • Compare DP GUI view with vCenter Server view • Perform backups and restores • Discuss the advantages and disadvantages to using the vCD Storage Image method vs. the vStorage Image • Describe additional considerations
<p>Module 8 - Miscellaneous</p>	<p>Upon completion of this module, you will be able to discuss the following additional considerations not covered in the previous modules</p> <ul style="list-style-type: none"> • Current VEAgent Support Matrix • New commands and libraries: vepa_util.exe, vepa_bar.exe • Licensing • Clustering • Facts, Limitations & Considerations • Debugging and troubleshooting • Legacy DP-VMware Integration

For more information

For further details, contact HPE Formation by e-mail: institut.formation@hpe.com or by phone: **08 10 00 18 31**