



HPE Insight Control server provisioning HL974S

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| HPE course number | HL974S |
| Course length | 3 days |
| Delivery mode | ILT |
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This course will equip students with the skills and knowledge to setup and configure HPE Insight Control server provisioning appliance, discover and configure supported HPE ProLiant servers, and provision various operating systems. Students will be able to update servers with HPE Service Pack for ProLiant, capture and install Windows® image, modify and adjust OS Build Plans to suit special needs, migrate servers and data from Insight Control server deployment to Insight Control server provisioning. This course covers Maintenance and troubleshooting of HPE Insight Control server provisioning.

Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services*
- Key partnerships with industry leaders OpenStack®, VMware®, Linux®, Microsoft®, ITIL, PMI, CSA, and (ISC)²
- Complete continuum of training delivery options—self-paced eLearning, custom education consulting, traditional classroom, video on-demand instruction, live virtual instructor-led with hands-on lab, dedicated onsite training
- Simplified purchase option with HPE Training Credits

Audience

- System Administrators, engineers and consultants, who will setup, manage and/or monitor HPE ProLiant servers

Prerequisites

HPE recommends that participants have attained the following credentials or levels of experience before taking this course:

- Familiar with HPE Insight Control server deployment (RDP)

Course objectives

- Provide an overview and key features of the HPE Insight Control server provisioning
- Describe the process of installing and configuring the ICsp appliance
- Describe the process of installing and configuring a Windows based Media Server

- Discuss HPE ICsp OS Build Plans methodology, scripts, configuration files, packages and steps in typical jobs executed Provide an overview of the methods used to discover and add target servers to HPE ICsp database
- Review some infrastructure provisioning jobs performed by OS Build Plans
- Discuss operating systems and HPE Service Pack for ProLiant deployments by OS Build Plans
- Describe how to use HPE Insight Control server provisioning to capture a Windows image from the template server and install that image on targets
- Discuss OS Build Plans modifications and adjustments for some special requirements, by editing out-of-the-box OS Build Plans or creating new ones

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

- Review the process of migrating existing HPE Insight Control server deployment (RDP) managed target servers to HPE Insight Control server provisioning
- Discuss the migration of jobs and configuration files from RDP and using them in the HPE ICsp
- Review some typical maintenance actions to keep HPE ICsp up and running
- Review basic troubleshooting of the common issues and errors
- Provide information on how to access and use HPE Support service for the advanced troubleshooting and resolving more complex problems

Benefits to you

After completing this course, students will be able to:

- Download, install and configure the HPE Insight Control server provisioning appliance on a VMware® ESXi™ virtual machine host
- Setup and configure a Windows based Media Server by using the provided utility from downloaded package
- Discover and add target servers to the ICsp database and prepare them by running basic infrastructure provisioning tasks
- Use the latest features in HPE ProLiant Gen8 servers Intelligent Provisioning from HPE ICsp for faster and more reliable deployments
- Install common used operating systems for servers: Windows 2012, Windows 2008 R2, SLES 11 SP2, RHEL 6.3 to the bare-metal machines
- Update drivers and firmware on installed target servers by deploying HPE Service Pack for ProLiant jobs
- Capture Microsoft Windows image from a server and install that image to other target servers
- Modify the existing OS Build Plans (scripts, configuration files) to suit some special needs during installations
- Migrate existing target servers from HPE Insight Control server deployment (RDP) to HPE Insight Control server provisioning
- Migrate configuration files and jobs from RDP, modify and use them in ICsp
- Maintain HPE ICsp appliance, add users, create backups, access HPE Support service for help with the issues and provide support dumps
- Use restore from backup procedure in case of ICsp appliance failure

Detailed course outline

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| Module 1: HPE Insight Control server provisioning | <ul style="list-style-type: none"> Describe what ICsp is List and describe ICsp appliance features | <ul style="list-style-type: none"> List ICsp appliance requirements, including Microsoft Windows-based Media Server, WinPE and HPE ProLiant target server requirements (G6 and G7 and Gen8) List the supported browsers |
| Module 2: Setting up the ICsp appliance | <ul style="list-style-type: none"> Explain how to deploy the ICsp appliance on a VMware ESXi host Configure the ICsp appliance network after the first login Configure DHCP on the appliance | <ul style="list-style-type: none"> Add Microsoft product keys to the ICsp appliance Configure the Media Server using the HPE ICsp Media Server setup utility Generate and upload WinPE to the appliance |
| Lab 0: Using the HPE Virtual Lab | <ul style="list-style-type: none"> Access the HPE Virtual Lab (HPVL) Identify the components on the HPVL for course exercises | <ul style="list-style-type: none"> Exit the HPVL environment Enter your assigned breakout room |
| Lab 1: Installing and configuring the HPE Insight Control server provisioning appliance | <ul style="list-style-type: none"> Prepare Microsoft Internet Explorer for easier use Download the HPE Insight Control server provisioning (ICsp) appliance Deploy the appliance on a VMware ESXi virtual machine (VM) host Log in to and configure the appliance network | <ul style="list-style-type: none"> Access the appliance using a web browser and log in Perform the initial appliance configuration Add Microsoft product keys Complete a “walk through” of the Quick Start process |
| Lab 2: Configuring a Windows-based Media Server | <ul style="list-style-type: none"> Configure a Media Server on a Microsoft Windows based platform, using the HPE Insight Control server provisioning (ICsp) Media Server setup utility | <ul style="list-style-type: none"> Generate and upload the Windows Preinstallation Environment (WinPE), which is a lightweight core version of Microsoft Windows for deployment on servers, using the Microsoft Windows Automated Installation Kit (WAIK) |
| Module 3: Using the ICsp appliance | <ul style="list-style-type: none"> Discover and add servers to ICsp by using PXE and non-PXE methods | <ul style="list-style-type: none"> Use ICsp OS Build Plans for server provisioning |
| Lab 3: Adding Target Servers | <ul style="list-style-type: none"> Discover and add an HPE ProLiant eighth-generation (Gen8) target server to HPE Insight Control server provisioning (ICsp) by using HPE integrated Lights Out (iLO) Discover and add a ProLiant Gen8 target server to ICsp by using a Preboot Execution Environment (PXE) network | <ul style="list-style-type: none"> Discover and add an HPE ProLiant seventh-generation (G7) target server to ICsp by using iLO |
| Lab 4: Infrastructure provisioning | <ul style="list-style-type: none"> Deploy a firmware update on a discovered target server Erase an HPE Smart Array RAID controller configuration on a server | <ul style="list-style-type: none"> Capture a Smart Array RAID configuration and save it Configure Smart Array RAID controllers by using a multi-target feature |
| Lab 5: Deploying SUSE Linux Enterprise Server with scripting and HPE SPP on a G7 target | <ul style="list-style-type: none"> Deploy SUSE Linux Enterprise Server (SLES) on an HPE ProLiant seventh-generation (G7) target server using an OS Build Plan with scripting | <ul style="list-style-type: none"> Update a target server with an HPE Service Pack for ProLiant (SPP) |
| Lab 6: Deploying Windows Server® 2012 with scripting and HPE SPP on a Gen8 target | <ul style="list-style-type: none"> Deploy Microsoft Windows Server 2012 on an HPE ProLiant eighth-generation (Gen8) target server by using an OS Build Plan with scripting | <ul style="list-style-type: none"> Update the target server with an HPE Service Pack for ProLiant (SPP) |
| Lab 7: Deploying Red Hat® Enterprise Linux with scripting and HPE SPP on a Gen8 target | <ul style="list-style-type: none"> Deploy Red Hat Enterprise Linux (RHEL) on an HPE ProLiant eighth-generation (Gen8) target server using an OS Build Plan with scripting | <ul style="list-style-type: none"> Modify an existing OS Build Plan to suit your specific needs Update the target server using a modified HPE Service Pack for ProLiant (SPP) |
| Lab 8: Deploying Windows Server 2008 R2 SP1 Enterprise and HPE SPP on a G7 target | <ul style="list-style-type: none"> Decommission an already provisioned target server and reboot it to the maintenance mode with the service OS needed for the next job Deploy Microsoft Windows Server 2008 R2 SP1 Enterprise using a modified OS Build Plan for the Standard edition with scripting on an HPE ProLiant seventh-generation (G7) target server | <ul style="list-style-type: none"> Update the target server with an HPE Service Pack for ProLiant (SPP) |
| Lab 9: Capturing and deploying a Windows Server 2012 image on HPE ProLiant Gen8 | <ul style="list-style-type: none"> Capture a Microsoft Windows image from an HPE ProLiant eighth-generation (Gen8) server running the Microsoft Windows Server 2012 operating system | <ul style="list-style-type: none"> Reinstall a captured image back to the source server Deploy a captured image to a new target server |
| Lab 10: Deploying Windows Server 2012 with a custom password and no product keys | <ul style="list-style-type: none"> Prepare a custom encrypted administrator password for a Microsoft Windows deployment Modify a default OS Build Plan for deploying Windows without providing the product keys at the moment of installation | <ul style="list-style-type: none"> Deploy Microsoft Windows Server 2012 on an HPE ProLiant eighth-generation (Gen8) target server by using a modified OS Build Plan and a custom administrator password |

Course data sheet

Module 4: Migrating data from RDP to ICsp

- Describe the RDP migration process
- List requirements for using the RDP Migration Utility for automated migration processes
- Explain how to use the RDP Migration Utility to migrate RDP-managed target servers to ICsp
- Explain how to use the RDP Migration Utility to locate, copy, and convert the RDP-based Hardware Configuration Files and Operating System Answer Files for use with ICsp
- Explain how to use RDP Migration Utility to locate, export, and convert RDP-based “Run Script” tasks and the Shell script files available for use with ICsp
- Describe how images created with RDP can be migrated to ICsp

Lab 11: Migrating from Insight Control server deployment to Insight Control server provisioning

- Install the HPE Insight Control server deployment (RDP) Migration Utility and then migrate RDP managed server targets to HPE Insight Control server provisioning (ICsp) by using the RDP Migration Utility automated procedure
- Migrate a hardware configuration, operating system answer files, “Run Script” tasks, and Shell script files by using the RDP Migration Utility automated procedure
- Use data migrated from an RDP server on an ICsp appliance
- Deploy Windows Server 2008 R2 SP1 using an OSBP with a migrated configuration file

Module 5: HPE Insight Control server provisioning maintenance and troubleshooting

- Maintain an ICsp appliance
- Use a support dump file for troubleshooting
- Resolve some common issues while working with ICsp

Lab 12: Maintenance and troubleshooting of HPE Insight Control server provisioning

- Create and administer users of the HPE Insight Control server provisioning (ICsp) appliance
- Create a backup of the configured HPE ICsp appliance
- Create and download a support dump file in case issues occur that require HPE support
- Enable or disable HPE Support access to the ICsp appliance through the user interface (UI)
- Reset the ICsp Administrator password
- Restore the ICsp appliance using a backup file

Next steps

- HPE CloudSystem Matrix Administration (HK920S)
- Authorized VMware Training from HPE (www.hp.com/learn/vmware)

Learn more at
hpe.com/ww/learnproliant

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