



HP 教育訓練中心課程簡介

HP Helion CloudSystem Foundation (H4C05S)

此為期三天的課程將為學員提供安裝、配置和管理HP CloudSystem Foundation所需的技能和知識。學員將可獲得OpenStack的概述、條款解釋及相關架構說明。本課程涵蓋了安裝、配置和管理HP CloudSystem Foundation所需要的所有基礎知識；課程內容分為40%的授課和60%的實作練習。

適合對象

適合將進行下列工作的管理人員、工程師和顧問：

- 為HP CloudSystem Foundation配置管理伺服器
- 安裝HP CloudSystem Foundation
- 在HP CloudSystem Foundation中配置網路和儲存區
- 部署映像和管理實例
- 配置安全性和驗證私密金鑰

先修課程

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

- HP Insight Control Server Provisioning (HL974S)
- HP OneView Administration (H4C04S)
- HP Virtual Connect (HK758S)

In addition, HP recommends that students are familiar with general networking terminology and basic network security concepts and have an understanding of one of the following operating systems:

- Windows Server 2008, Windows Server 2008 R2 or Windows 7
- Red Hat Enterprise Linux AS or Red Hat Enterprise Linux ES
- vSphere 5.5

課程目標

After completing this course, you should be able to:

- 示範HP CloudSystem V8.0功能
- 描述基本的HP CloudSystem架構
- 使用HP CloudSystem建立雲端服務管理
- HP CloudSystem

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|------------------------------|--|
| Course title: | HP Helion CloudSystem Foundation |
| HP product number: | H4C05S |
| Category/Subcategory: | Cloud |
| Course length: | 3 days |
| Level: | Advanced |
| To order: | To review course schedules and to register for a course, visit http://www.hp.com.tw/education |

- 將計算、網路和儲存資源加入雲端描述產品結構和授權
- 描述HP CloudSystem的支援和服務

課程效益

- 獲得可成功規劃和部署HP CloudSystem Foundation的知識
- 使用動手實驗活動來熟悉為HP CloudSystem配置管理伺服器，以及安裝和配置HP CloudSystem等程序

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課程大綱

Module 1: Course Overview

- HP Helion CloudSystem Foundation course overview
- Course schedule
- Next steps

Module 2: HP CloudSystem v8.0 Overview

- HP CloudSystem v8.0 Overview
- HP CloudSystem v8.0 Features
- HP CloudSystem v8.0 Architecture
- HP CloudSystem v8.0 Solution Overview
- HP CloudSystem v8.0 Enterprise

Module 3: OpenStack Overview

- History of OpenStack
- OpenStack high-level architecture
- OpenStack conceptual architecture
- Basic OpenStack physical components
- OpenStack UI and API interfaces

Module 4: HP CloudSystem Foundation

- CloudSystem v8.0 network architecture
- CloudSystem v8.0 management hypervisor hardware and storage requirements
- CloudSystem v8.0 software offerings
- CloudSystem v8.0 solution offerings
- CloudSystem v8.0 licensing
- CloudSystem v8.0 software services

Module 5: 安裝和配置概述

- Prepare for CloudSystem v8.0 installation
- Configure management hypervisors network
- Install CloudSystem v8.0 using csstart utility

Lab 0: HPVL training environment

- Accessing HP Virtual Lab training environment

Lab 1: Installing CloudSystem8

- Configure networking on ESXi management node for CloudSystem8
- Create cluster for ESXi management host
- Import CloudSystem8 appliance OVA
- Install CloudSystem8 using csstart.exe on windows

Lab 2: CloudSystem Configuring Networking

- Configure management network
- Configure provider networks and subnets
- Configure VLANs for private networks
- Add subnet to external network

Module 6: 新增計算節點

- Configure KVM compute node
- Import KVM compute node
- Configure ESX compute node
- Import ESX compute node

Lab 3: Integrating ESX compute node

- Create cluster for ESXi compute host
- Configure networking on ESXi compute node for CloudSystem8
- Register vCenter in CloudSystem
- Import Compute cluster into CloudSystem
- Adjust firewall on ESX compute node for VNC connection

Lab 4: Integrating KVM compute node

- Configure networking on KVM compute node for CloudSystem 8
- Check dependencies on KVM compute node
- Import KVM Compute node into CloudSystem 8

Module 7: 影像和實例

- Describe Cloud-ready images
- Upload images
- Launch instances

Lab 5: Provisioning and managing instances

- Import VMDK and qcow2 images into CloudSystem 8
- Launch instances on ESX and KVM compute node
- Access console and settings for instances
- Launch multiple instances with CloudSystem 8
- Stop, start, and terminate instance in CloudSystem 8

Module 8: CloudSystem v8.0 Block Storage

- Describe cinder service
- Describe block storage terms
- Be able to configure block storage in CloudSystem v8.0

Lab 6: Provisioning block storage for instances

- Add 3Par FC block storage driver to CloudSystem 8
Adding Volume Types to CloudSystem
- Create and add volumes on 3Par using CloudSystem 8
- Launching new instance with block storage volume

Module 9: CloudSystem Networking

- Describe Neutron network service
- Explain types of network available in CloudSystem v8.0
- Create router and subnets
- Assign floating IP's

Lab 7: Managing Software Defined Networking

- Create and configure security groups
- Create keypairs
- Create routers
- Assign floating IP's
- Create private networks

Module 10: CloudSystem v8.0 CLI

- Install CLI tools
- Enable console access using CLI
- Set password for console access
- Log into appliance console
- Use environmental variables with CLI

Lab 8: Using CloudSystem 8 CLI

- Install CloudSystem 8 Client CLI
- Using CloudSystem 8 Client CLI

更多訊息

歡迎上網查詢HP教育訓練中心所有課程相關訊息及活動

請造訪: <http://www.hp.com.tw/education>

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