Implementing HP BladeSystem Solutions (HH707)

ID HP-HH707  Price £2,095.- (excl. VAT)  Duration 5 days

Course Overview

Implementing HP BladeSystem Solutions Rev. 13.21 is a comprehensive course that focuses on the initial installation and startup tasks required to bring a customer’s BladeSystem Solution online and prepared for the deployment of applications. The course delivers the technical information necessary to successfully install and configure HP BladeSystem components including enclosure, server blades, interconnect modules, storage blades, and management devices. Students will install multiple operating systems using deployment tools and also use HP management software. In addition to in-depth technical training on the key technologies that enable these solutions, this class provides hands-on labs, sizing and configuration exercises, and solution demonstrations. Completing this course assists in preparation for the HP Accredited Technical Professional (HP ATP) - BladeSystem Solution Integrator certification exam.

Who should attend

This course is open to all audiences, internal and external, who are pursuing the knowledge and skills necessary to properly setup, configure and deploy solutions based on HP’s BladeSystem family of products. Examples of job roles are:

- HP Solution Architect
- HP Authorized Reseller Partners
- HP Technical Client Consultants
- HP Field Presales & Competency Center Solution Architects

Course Objectives

This course includes content on HP's latest generation of servers. HP ProLiant Gen8 servers have over 150 new design innovations, including the HP ProActive Insight systems architecture which comprises powerful hardware and software that delivers server life cycle automation, while at the same time providing continuous intelligence on server health, power usage and other important diagnostics. HP ProLiant Gen8 with the built-in HP ProActive Insight architecture addresses the top concerns of enterprises via intelligent technologies that automate tasks and significantly improve uptime.

Detailed Course Outline

Module 1: Portfolio Introduction

- Identify the components of the BladeSystem portfolio
- Identify available server and technologies in the BladeSystem portfolio

Module 2: BladeSystem Enclosures

- Identify and describe the HP BladeSystem enclosures
- Describe the power architecture used in HP BladeSystem systems, including:
  - Power modes
  - Power supplies
  - Power modules
  - Power distribution units (PDUs)
- Describe Thermal Logic technology
- Describe the cooling technologies designed for the BladeSystem systems
- Describe the use of a DVD-ROM drive in the enclosures

Module 3 — Managing HP BladeSystem

- Explain how to use and configure:
  - Onboard Administrator
  - Insight Display
  - iLO Management Engine
Module 4 — HP BladeSystem Storage and Expansion Blades

- Describe the features and functions of HP:
  - Storage blades
  - Tape blades
  - Expansion blades
- Describe partner blade positioning rules
- Describe the features and functions of other storage technologies used in HP BladeSystem

Module 5 — Ethernet Connectivity Options for HP BladeSystem

- Describe the following HP BladeSystem Ethernet interconnect modules for HP ProLiant server blades:
  - HP 6120XG Ethernet Blade Switch
  - HP 6125G Ethernet Blade Switch
  - HP 612xG/XG Blade Switch
  - Cisco Catalyst Blade Switch 3020
  - Cisco Catalyst Blade Switch 3120
  - HP GbE2c Layer 2/3 Ethernet Blade Switch
  - HP 1:10Gb Ethernet BL-c Switch
  - HP 10GbE Pass-Thru Module
  - Cisco Fabric Extender for HP BladeSystem

Module 7 — Virtual Connect Installation and Configuration

- Describe HP Virtual Connect portfolio and technology concept
- Plan and implement a Virtual Connect environment
- Configure a Virtual Connect module
- Describe Flex-10 and FlexFabric technology
- Describe multi-enclosure configuration
- Identify basic features of Virtual Connect Enterprise Manager

Module 6 — Storage Connectivity Options for HP BladeSystem

- Describe the HP BladeSystem Fibre Channel interconnect modules available for HP BladeSystem
- Cisco MDS 8Gb Fabric Switch for HP BladeSystem c-Class
- Brocade 8Gb SAN Switch for HP BladeSystem c-Class
- Describe the Serial-Attached SCSI (SAS) switches available for BladeSystem
- Identify 4X InfiniBand Switch Modules available for BladeSystem

Module 8 — Introduction to HP SAN Solutions

- Describe the basic features of the HP P2000 Modular Smart Array family
- Describe the basic features of the HP StoreVirtual 4000 Storage solution

Module 9 — HP Virtualization Basics

- Describe virtualization with VMware
- Describe virtualization with Microsoft products
Module 10 — HP Management Software

- Describe basic features of HP System Management Homepage
- Describe the basic features of HP Systems Insight Manager (HP SIM)
- Describe HP Insight Control components and its hardware and software requirements

Module 11 — HP Blade Server Deployment

- Describe features and components of Insight Control server deployment
- Describe scripted and imaged installation
- Describe Insight Control Server Provisioning

Module 12 — Data Availability and Protection for an HP Server Blade

- Explain how to increase availability through power protection

Module 13 — HP BladeSystem Support

- Identify the diagnostic tools available for HP BladeSystem solutions
- Maintain the drivers and firmware for a BladeSystem solution
- Identify the HP Services available for BladeSystem

Appendix 01 — Configuring Ethernet Connectivity Options

- Explain how to configure:
  - An HP GbE2c Layer 2/3 Ethernet Blade Switch
  - A Cisco Catalyst Blade Switch 3020 or 3120
  - An HP 1:10Gb Ethernet BL-c Switch
  - An HP 6120XG or 6120G/XG switch
Appendix 02 — Configuring Storage Connectivity Options

- Explain how to configure the following switches:
- Brocade 8Gb SAN Switch for HP BladeSystem
- Cisco MDS 9124e Fabric Switch for HP BladeSystem
- HP 3Gb SAS BL Switch for HP BladeSystem

Appendix 03 — HP VirtualSystem VS2 for Red Hat
Reference Architecture
Training Centres worldwide

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