

IBM PureFlex System Fundamentals with Implementation Services (5 Days)

Description

The IBM PureFlex System is a category of computing that integrates multiple server architectures, networking, chassis, storage, and system management capability into a single system that is easy to deploy and manage.

This fundamentals class covers IBM PureSystems, IBM PureFlex System, and the IBM Flex System Enterprise Chassis along with the IBM X-Architecture and IBM Power Systems compute nodes, systems management, networking, and IBM Flex System V7000. Included are hands-on lab exercises to reinforce the learning principles associated with the Chassis Management Module, X-Architecture and Power Systems compute nodes, Flex System Manager, networking, and Flex System V7000.

Audience

This is an intermediate base course for individuals who are involved in the planning, installing, configuring, and upgrading of IBM Systems.

Prerequisites

There are no prerequisites for this course.

Skills Taught

- Differentiate between IBM PureSystems and IBM PureFlex Systems
- Summarize the features and functions of the IBM Flex System Enterprise Chassis
- Differentiate the characteristics of the IBM Flex System x86 Compute Node from other IBM System x servers
- Differentiate the characteristics of the IBM Flex System Power Compute Nodes from other IBM Power servers
- Select the proper IBM Flex System networking components based on the solution requirements
- Classify the IBM Flex System management options
- Critique the storage options available for the IBM Flex System
- List the foundation services performed for IBM PureFlex Express and IBM PureFlex Standard product offerings
- Carry out initial quick start configuration steps for the IBM Flex System Chassis Management module and the Flex System Manager
- Carry out configuration steps to zone, map volumes and manage the Storwize V7000 with the IBM Flex System
- Perform configuration steps such as IP addressing, zoning, VLANs, and other typical Ethernet settings with the IBM Flex System

Course Outline

Day 1

- Welcome
- Unit 1: IBM PureSystems and IBM Flex System
- Lab 1: IBM PureFlex System introduction
- Unit 2: IBM Flex System Enterprise Chassis
- Lab 2: Exploring the Chassis Management Module
- Unit 3: IBM Flex System Manager
- Lab 3: IBM Flex System Manager navigation

Day 2

- Day 1 review
- Unit 4: IBM Flex System X-Architecture compute nodes
- Lab 4: Exploring the Integrated Management Module II
- Unit 5: IBM Power Systems compute nodes
- Lab 5: IBM Power Systems compute node

Day 3

- Day 2 review
- Lab 5: IBM Power Systems compute node (continued)
- Unit 6: IBM Flex System storage
- Lab 6: Basic IBM Flex System V7000 administration
- Unit 7: IBM Flex System networking
- Lab 7: IBM Flex System networking: Ethernet switches
- Lab 8: IBM Flex System networking: SAN switch

Day 4

- Day 3 review
- Unit 8: IBM PureFlex System overview
- Unit 9: Quick start guides for IBM PureFlex System
- Unit 10: IBM PureFlex System Storage considerations
- Lab 9: Basic Flex System V7000 administration
- Unit 11: Networking in IBM PureFlex System offerings
- Lab 10: IBM PureFlex Ethernet fundamentals
- Unit 12: IBM PureFlex Power Systems PowerVM

Day 5

- Day 4 review
- Unit 12: IBM PureFlex Power Systems PowerVM (continued)
- Lab 11: Power node virtual servers
- Unit 13: IBM Flex System Manager VMControl overview
- Unit 14: Configuration patterns and compute node image deployment
- Lab 12: Deploy compute node images
- Lab 13: Installing and configuring VMware vCenter Server
- Lab 14: Virtual server lifecycle management using VMControl
- Appendix A: Configuring a compute node using configuration patterns