ProTech Professional Technical Services, Inc.

Architecting HP FlexNetwork Solutions, Rev. 14.21

Course Summary

Description

This course provides you with the knowledge and skills to successfully architect and design complex enterprise level networks based on open networking industry standards. It covers both traditional network designs, as well as network designs that support cloud or converged environments which require flatter, simpler networks to support the bandwidth intensive, delay sensitive, server-to-server traffic flows

Objectives and Topics

- Explain how open standards and the HP FlexNetwork architecture addresses modern networking's bandwidth-intensive, delay sensitive, mobility and BYOD demands
- Design a more simplified, flatter physical topology that can handle an enterprise's traffic volume and traffic patterns, including intensive server-to-server patterns anticipated for cloud and converged infrastructures
- Design efficient routing and multicast routing solutions for various enterprise needs
- Describe best practices for designing solutions from the Physical Layer to the Network Layer, by providing basic connectivity with some resiliency and good performance ensured by the proper bandwidth provisioning and topology design
- Explain how HP Virtual Connect (VC) modules help to simplify and optimize connections between servers and the data center LAN and SAN
- Design secure, integrated wired and wireless network solutions for seamless mobile access
- Develop a plan for implementing an HP networking solution into either a greenfield or an existing network
- Obtain the data and documentation required to understand a company's general connectivity, availability, security, and application requirements based on information provided by the company's key decision makers
- Design data center solutions including network, server, and storage virtualization and explain how virtualization and cloud computing are changing the data center environment

Audience

IT professionals with three or more years of experience in designing and architecting complex enterprise level networks. Recommended, but not required, is experience with server and storage network related technologies

Prerequisites

Before attending this course, you must have the following:
- Network Infrastructure, **OR** FlexNetwork Solutions V2

Duration

Four days

Course Outline (sidebar, vertical)

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I.   Explain how open standards and the HP FlexNetwork architecture addresses modern networking's bandwidth-intensive, delay sensitive, mobility and BYOD demands

II.   Design a more simplified, flatter physical topology that can handle an enterprise's traffic volume and traffic patterns, including intensive server-to-server patterns anticipated for cloud and converged infrastructures

III.   Design efficient routing and multicast routing solutions for various enterprise needs

IV.   Describe best practices for designing solutions from the Physical Layer to the Network Layer, by providing basic connectivity with some resiliency and good performance ensured by the proper bandwidth provisioning and topology design

V.   Explain how HP Virtual Connect (VC) modules help to simplify and optimize connections between servers and the data center LAN and SAN

VI.   Design secure, integrated wired and wireless network solutions for seamless mobile access

VII.   Develop a plan for implementing an HP networking solution into either a greenfield or an existing network

VIII.   Obtain the data and documentation required to understand a company's general connectivity, availability, security, and application requirements based on information provided by the company's key decision makers

IX.   Design data center solutions including network, server, and storage virtualization and explain how virtualization and cloud computing are changing the data center environment