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Implementing PowerVC Software Defined Infrastructure (SDI) Information

Length:	24.0 Hours
Ref:	QZC35G
Delivery method:	ClassroomInstructor Led Online
Price:	AUD

Overview

This course covers the concepts and implementation details of the software-defined networking and storage features of PowerVC on IBM Power Systems servers, known as IBM Cloud PowerVC Manager Software Defined Infrastructure (SDI). Students learn to implement a PowerVM infrastructure with software-defined storage based on IBM Spectrum Scale using NovaLink in SDE-mode, and software-defined networking based on Open vSwitch (OVS). Methods for capturing, deploying, and managing virtual machines in a software defined infrastructure are also explored.

Public

The audiences for this training include Power Systems and AIX/Linux technical support individuals, AIX and Linux system administrators, system architects and engineers, and pre-sales technical support staff who are interested in creating a cloud-enabled environment leveraging software defined networking and storage.

Prerequisites

- Student must understand base PowerVC and NovaLink concepts. Basic Linux administration skills are also required. These prerequisites can be met by attending the following course:
- QZC30G (Moving to Cloud with IBM Cloud PowerVC Manager), and
 - One of the following Linux Administration classes:
 - LX032G (RedHat Administration for Power Systems)
 - LX041G (Ubuntu Administration for Power Systems)
 - LX051G (SUSE Administration for Power Systems)

Objective

On completion of this course, students should be able to:

- Prepare Power Systems servers for a software defined infrastructure using PowerVC SDI
- Install and configure a NovaLink SDE-mode partition on a Power Systems server
- Install IBM Spectrum Scale in an existing PowerVC instance to create an SDI environment
- Enable a VxLAN overlay network and define it into PowerVC
- Manage an SDE (Software Defined Environment)-mode NovaLink server in PowerVC
- Import an image into PowerVC's SDI environment
- Deploy a VM into the SDI environment
- Manage a VM in an SDI environment

Topics

Day 1

Unit 1 - PowerVC SDI overview

Exercise 1 - Access lab environment and PowerVC

Unit 2 - NovaLink

Exercise 2 - Installing NovaLink in SDE-mode

Day 2

Unit 3 - IBM Spectrum Scale integration with PowerVC

Exercise 3 - IBM Spectrum Scale integration with PowerVC

Unit 4 - PowerVC SDI compute node management

Exercise 4 - PowerVC SDI compute node management

Day 3

Unit 5 - PowerVC SDI images and virtual machines

Exercise 5 - PowerVC SDI images and virtual machines

Unit 6 - Managing SDI virtual machine

Exercise 6 - VIOS Maintenance

Wrap up / Evaluations