

[OS-MNHI]: OpenStack Multi Node – Hyper Integration

Length : 3 days
Delivery Method : Instructor-led (Classroom)

At Course Completion

Prepares you deploy Microsoft Hyper-V and integrate with OpenStack.

Pre-Requisites

Basic Linux commands like working with files and directories is desired.

Course Outline

Module 1: Hyper - V Virtualization Overview

Lessons

- Overview of Microsoft Virtualization
- Evaluating the Current Environment for Virtualization
- Microsoft Hyper-V Architecture Overview

Module 2: Microsoft Win server 2012- Installation Module

Lessons

- Install Win server 2012 on a Physical or virtual server
- Create and Manage Partitions

Module 3: Hyper- V- Role Configuration

Lessons

- Planning for Hyper-V server Role
- Install Hyper-V server Role
- Configure Hyper-V server Role
- Configure Virtual Networks

Module 4: Hyper- V- Virtual Machine and Disk Creation

Lessons

- Create and Configure of Virtual Hard disk
- Create and configure Virtual Machine
- Managing Virtual Machine Snapshots
- Virtual Machine Connection Application usage

Module 5: Virtual Machine Guest OS Installation of Linux

Lessons

- Create your First Virtual Machine
- Install Linux Guest Operating Systems
- Power up the Linux VM and run basic commands

AVANTUS TRAINING PTE LTD

80 Jurong East Street 21 #04-04 Devan Nair Institute Singapore 609607

Main Line: +65 6661 0888 | Fax: +65 6661 0886

Email: enquiries@AvantusTraining.com

www.AvantusTraining.com

- Shutdown and Reboot procedure for the Linux VM
- VM snapshots

Module 6: Configure and Implement High Availability

Lessons

- Overview Failover Clustering
- Implement Failover of Hyper-V

Module 7: OpenStack controller Installation Preparation

Lessons

- Deployment Planning for OpenStack
- Ubuntu Server Installation
- Network and Disk Partitioning on Linux
- NTP Server Installation and Configuration

Module 8: OpenStack controller Installation

Lab 1: Install and Configure MySQL Server on Controller node

Lab 2: RabbitMQ Installation

Lab 3: Keystone Install and configure

Lab 4: Create Keystone users, tenants, and roles

Lab 5: Glance Installation and configuration

Lab 6: Create Linux Glance images

Lab 7: Cinder Installation and configuration

Lab 8: Create a cinder volume and test

Lab 9: Prepare ESXI host 01 for OpenStack integration

Lab 10: Prepare ESXI host 02 for OpenStack integration

Lab 11: Horizon Installation

Lab 12: Customization of Horizon adding your company logo to dashboard

Module 9: Installing Nova and neutron services on Compute01 Node

Lab 13: Install & Configure Neutron services on Nodes

Lab 14: Install Windows 2012 on Host01

AVANTUS TRAINING PTE LTD

80 Jurong East Street 21 #04-04 Devan Nair Institute Singapore 609607

Main Line: +65 6661 0888 | Fax: +65 6661 0886

Email: enquiries@AvantusTraining.com

www.AvantusTraining.com

Lab 15: Install Hyper-V Role on both Hosts

Lab 16: Install nova-compute with installer

Module 10: Installing Nova and neutron services on Compute02Node

Lab 17: Install & Configure Neutron services Node

Lab 18: Install Windows 2012 on Host01

Lab 19: Install Windows 2012 on Host02

Lab 20: Install Hyper-V Role on both Hosts

Lab 21: Install nova-compute with installer

Module 11: OpenStack Administration

Lab 22: Create Projects and Users

Lab 23: Create Security Groups & Key pairs

Lab 24: Create Networks, Routers and Floating IP

Lab 25: Launch an instance & Allocate floating IP

Lab 26: Take a remote session of your instance

AVANTUS TRAINING PTE LTD

80 Jurong East Street 21 #04-04 Devan Nair Institute Singapore 609607

Main Line: +65 6661 0888 | Fax: +65 6661 0886

Email: enquiries@AvantusTraining.com

www.AvantusTraining.com