Study Plan

Openstack Administration (OS-ADM)

boer technology

About This Course

The focus of OpenStack Administration will be managing OpenStack using both the web-based dashboard and the command-line interface, in addition to managing instances and installing OpenStack using the Kolla-Ansible project tool. Essential skills covered in the course include configuring OpenStack; managing users, projects, flavors, roles, images, networking, and block storage; setting quotas; and configuring images at instantiation.

Summary

Training Duration: 32 Hours (4 Days)

Course Main Subjects

- Launch an instance.
- Manage projects, quotas, and users.
- Manage networks, subnets, routers, and floating IP addresses.
- Create and manage block and object storage in the OpenStack framework.
- Customize instances with cloud-init.
- Deploy scalable stacks.

- Deploy OpenStack using a kolla-ansible tool

Target Audience

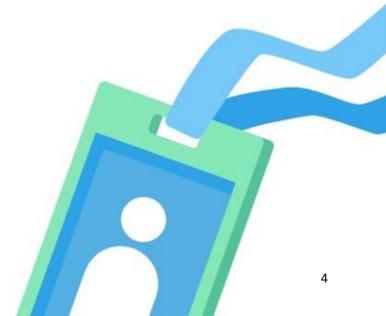System Administrators, Cloud Administrators, Developers, Site Reliability Engineer.

Prerequisites

Docker Administration (DO-ADM)

Learning Output

The learning topics will assist participants in :

1. Understanding how to deploy Openstack.
2. Understanding Management Openstack Environment.
3. Troubleshoot instances issue
4. Preparation Exam COA

Requirements

Have a laptop/computer with min. specifications and installed tools:

Operating System	Windows, Linux, or MacOs
Processor	Intel Core i3
Memory	4 GB RAM
SSH Client	Termius / Putty / MobaXTerm
Text Editor	Sublime Text / VSCode
Browser	Chrome and Firefox
VPN (Optional)	https://client.pritunl.com/

Facilities

- Virtual machine (available until H+5 post training)
- Class materials   (access 1 years)
- Certificate
- Recording (VITL)

Certification

- Certificate of Course Completion
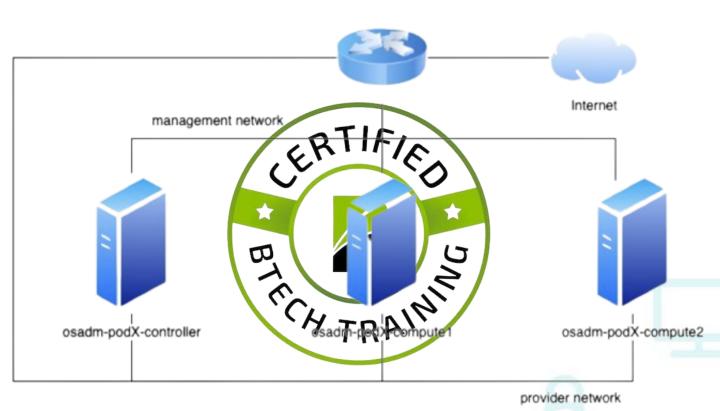- Btech Internal Exam (optional)

Learning Strategies

- Theory

- Study Case

- Pre-Test & Post-Test

- Quiz

- Hands-on Lab

- Internal Exam (optional)

Training Topology

Learning Modules

Training Plan	
Topic	**Outcome**
IT Infrastructure	• Understand about Traditional IT architecture. • Understand how cloud technology works and types.
Openstack Overview	• Understand the role of openstack as IaaS • Understand the services available in openstack and their functions.
Installing Openstack	• Perform the preparation needed to build openstack. • Installing openstack using kolla-ansible • Checking and testing access to openstack.
Identity Management	• Understand how to create Project, User, Access Role, and quota.
Openstack Operation via Dashboard Horizon	• Understand how to manage services in openstack such as images, flavors, networks, routers, and keypair through horizon. • Understand how to run instances through horizon.

Openstack Operation via CLI	• Understand how to manage services in openstack such as images, flavors, networks, routers, and keypair through CLI. • Understand how to run instances through CLI.
Managing Block Storage	• Understand the use of volumes on instances • Adding volumes to instances • Creating a bootable image on a volume.
Managing Object Storage	• Understand the use of additional storage in openstack • Adds additional storage access to instances
Managing compute	• Adding compute to an openstack cluster. • Performing compute reduction on an openstack cluster.
Managing instances	• Performing specification size changes on instances. • Migration instances between compute locations • Run instances with compute specifications.
Orchestration Resource Openstack	• Understand the concept of orchestration resources in openstack • Can run orchestration instances in openstack
Infrastructure as Code (IaC)	• Understand the concept of Infrastructure as Code (IaC) on IaaS. • Can run IaC Tools to run a large number of instances.
Btech Certified Openstack Administrator	• Testing the competence of participants based on certain case studies

Thank You

Another Course :

https://adinusa.id/pro-training