



BTECH TRAINING

Study Plan OpenStack Administration (OS-ADM)



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.
- Installing OpenStack



Target Audience

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

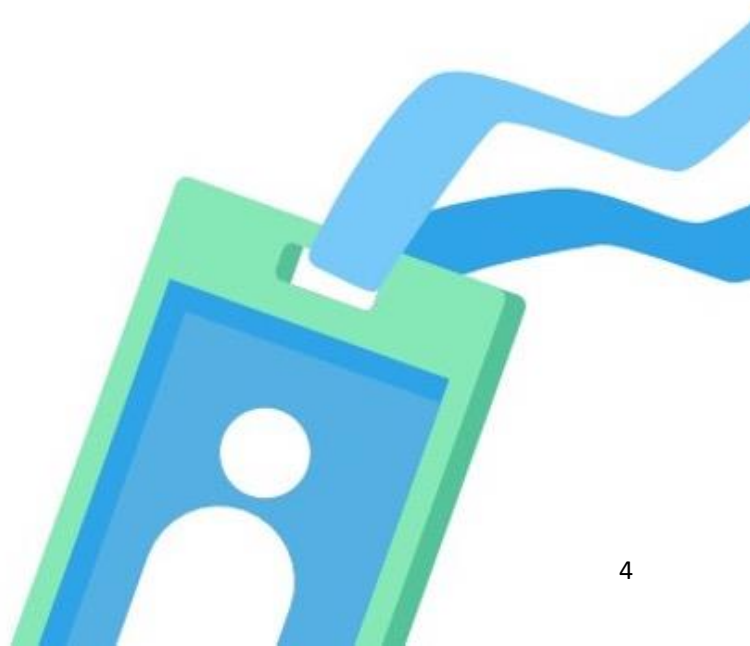
Prerequisites

- Docker Administration (DO-ADM)
- Linux System Administrator (LF-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



Technical Requirements

Participants must have a laptop or computer with the following minimum specifications and tools installed:

| Specification | Details |
|------------------|---|
| 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 and Resources

Participants will have access to the following resources on and after the training:

- **Virtual machine lab** : Available until H+5 post-training for hands-on practice and experimentation.
- **Discussion group** : Available until H+30 post-training for ongoing support and collaboration with peers.
- **Class materials** : Access to all class materials for 1 year (start day one training)
- **Certificate** : Participants will receive a certificate of completion upon finishing the course.
- **Recording Class** : Access to recorded sessions for review and reinforcement of learning.

Terms and Conditions

Course Purchase Rules

- **Registration:**

Participants must register through the official ADINUSA website and fill out the registration form with accurate and complete information.

- **Payment:**

Course payment must be made in full before access to training materials is granted. Accepted payment methods include bank transfer, credit card, and digital payment.

- **Purchase Confirmation:**

After payment is received, participants will receive a confirmation email containing course details and instructions for accessing the materials.

- **Schedule Changes:**

ADINUSA reserves the right to change the course schedule or replace instructors if necessary. Participants will be notified of such changes via email or whatsapp.

Terms and Conditions

Access Management

- **Access License:**

Each participant will be granted an access license for 1 year, starting from the date of registration. This license includes access to all relevant training materials.

- **Use of Materials:**

Training materials may only be used for personal purposes and may not be distributed, sold, or published without written permission from ADINUSA.

- **Account Security:**

Participants are responsible for maintaining the confidentiality of their account information. ADINUSA is not liable for any losses arising from unauthorized account use.

- **Access Termination:**

ADINUSA reserves the right to terminate a participant's access to training materials if violations of the applicable terms and conditions are found, including but not limited to unauthorized distribution of materials.

For detailed information regarding our terms and conditions, please visit [Terms and Conditions](#).

Certification

Upon successful completion of the course, participants will receive two certificates:



Physical Certificate



Digital Certificate



Learning Strategies



Pre-Test



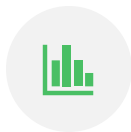
Theory



Hands-on Lab



Post-Test



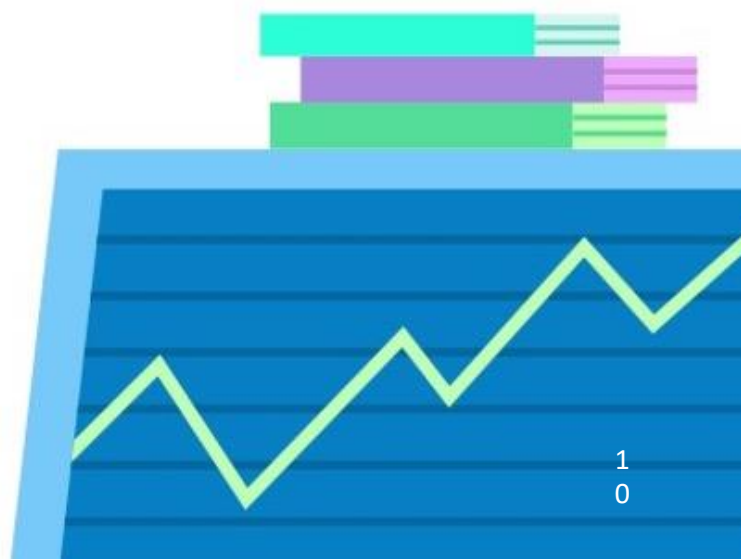
Internal Exam



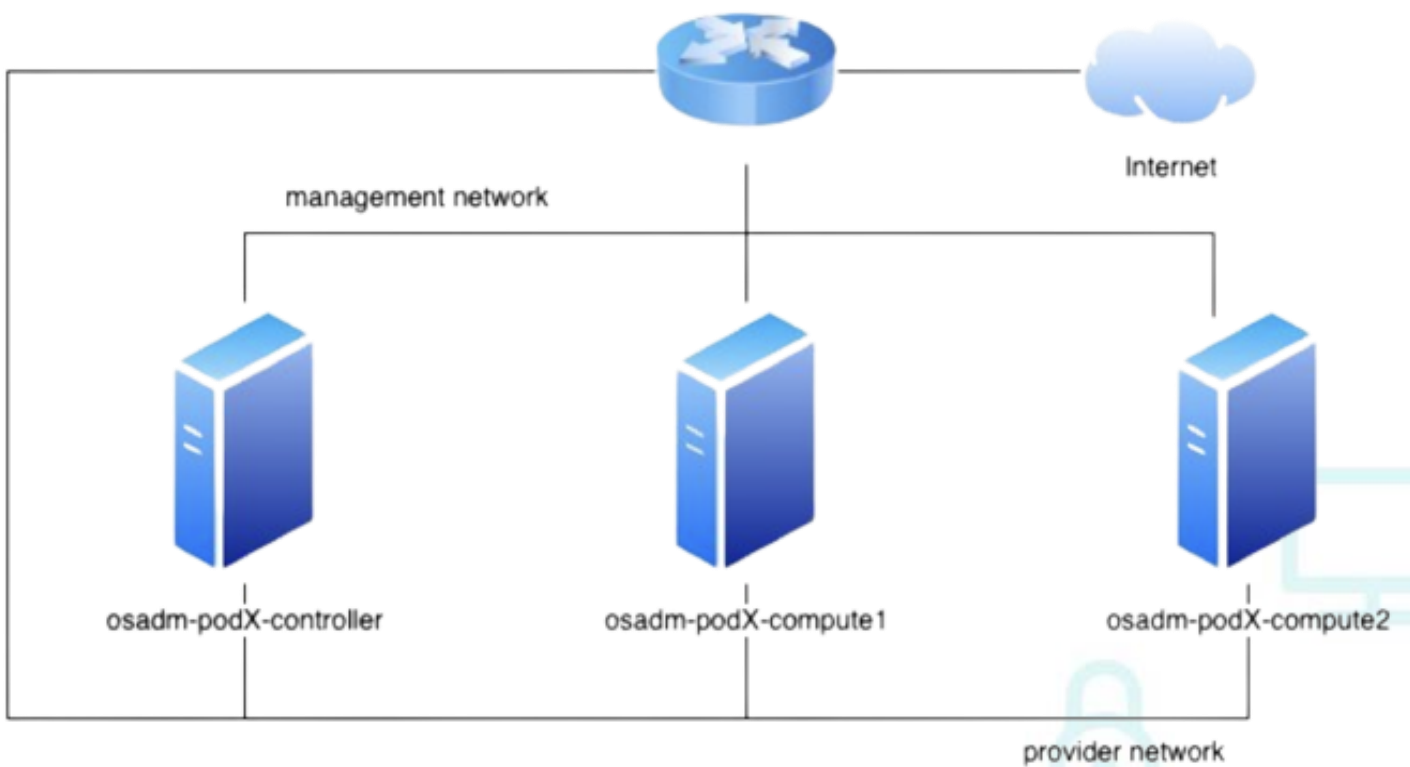
Reporting



Forum
Discussion



Training Topology



Learning Modules

| Training Plan | |
|---|---|
| Topic | Outcome |
| IT Infrastructure | <ul style="list-style-type: none"> • Understand about Traditional IT architecture. • Understand how cloud technology works and types. |
| Openstack Overview | <ul style="list-style-type: none"> • Understand the role of openstack as IaaS • Understand the services available in openstack and their functions. |
| Installing Openstack | <ul style="list-style-type: none"> • Perform the preparation needed to build openstack. • Installing openstack using kolla-ansible • Checking and testing access to openstack. |
| Identity Management | <ul style="list-style-type: none"> • Understand how to create Project, User, Access Role, and quota. |
| Openstack Operation via Dashboard Horizon | <ul style="list-style-type: none"> • Understand how to manage services in openstack such as images, flavors, networks, routers, and keypair through horizon. • Understand how to run instances through horizon. |

| | |
|---|---|
| <p>Openstack Operation via CLI</p> | <ul style="list-style-type: none"> • Understand how to manage services in openstack such as images, flavors, networks, routers, and keypair through CLI. • Understand how to run instances through CLI. |
| <p>Managing Block Storage</p> | <ul style="list-style-type: none"> • Understand the use of volumes on instances • Adding volumes to instances • Creating a bootable image on a volume. |
| <p>Managing Object Storage</p> | <ul style="list-style-type: none"> • Understand the use of additional storage in openstack • Adds additional storage access to instances |
| <p>Managing compute</p> | <ul style="list-style-type: none"> • Adding compute to an openstack cluster. • Performing compute reduction on an openstack cluster. |
| <p>Managing instances</p> | <ul style="list-style-type: none"> • Performing specification size changes on instances. • Migration instances between compute locations • Run instances with compute specifications. |
| <p>Infrastructure as Code (IaC)</p> | <ul style="list-style-type: none"> • Understand the concept of Infrastructure as Code (IaC) on IaaS. • Can run IaC Tools to run a large number of instances. |

Thank You

Another Course :

<https://adinusa.id/pro-training>