

Hi Friend,

Greetings & Happy New Year 2017 Wishes! Thanks for expressing your interest for OpenStack Cloud trainings.

Please let me know, if any of you or your friends are interested in taking any of the below training's. Appreciate if you could help me circulate this hands-on training details to your friend's circle, there may be few people who are interested in getting trained on these technologies.

OpenStack Cloud - Hands-On training (3 Days)



Pre-requisite/s:

Working knowledge of SQL

Working knowledge on UNIX/Linux OS

Course Topics:

1. INTRODUCTION TO OPENSTACK

- 1.1 ORIGINS OF OPENSTACK
- 1.2 ROLE OF THE OPENSTACK FOUNDATION
- 1.3 OPENSTACK SERVICES

2. OPENSTACK TRAINING LABORATORY

- 2.1 ARCHITECTURE
- 2.2 CONTROLLER NODE

Networking

- 2.3 COMPUTE NODE
 - 2.3.1 Networking
- 2.4 PASSWORDS
- 2.5 VIRTUALBOX HYPERVISOR

3. BUILDING THE CLUSTER

- 3.1 CLUSTER TRAINING DIRECTORY VARIABLE
- 3.2 GET THE LAB FILES
- 3.3 LOG FILES
- 3.4 BUILD INTRODUCTION
- 3.5 BUILD STEPS
- 3.6 RUN THE SCRIPTS

4. USING THE CLUSTER

- 4.1 REVIEW THE RUNNING VMS
 - 4.1.1 Controller node
 - 4.1.2 Compute node
- 4.2 REVIEWING THE NETWORKS CREATED BY THE SCRIPT
- 4.3 ACCESS THE CONTROLLER NODE.
- 4.4 ACCESS THE COMPUTE NODE.

5. HORIZON.

6. OPERATING THE OPENSTACK TRAINING TESTBED.

- 6.1 MANAGING VIRTUALBOX VMS IN HEADLESS MODE.
 - 6.1.1 Starting the VMS.
 - 6.1.2 Powering off the VMS
 - 6.1.3 Saving VM state and stopping
- 6.2 MANAGING SNAPSHOTS
 - 6.2.1 Taking a snapshot
 - 6.2.2 Restoring to a previous snapshot
 - 6.2.3 Delete a snapshot

7. REVIEWING THE INSTALLATION

- 7.1 CONTROLLER NODE - DATABASE
- 7.2 CLIENT ENVIRONMENT SCRIPTS
- 7.3 IDENTITY SERVICE - KEYSTONE

- 7.3.1 Controller node
- 7.4 IMAGE SERVICE - GLANCE
 - 7.4.1 Controller node
- 7.5 COMPUTE SERVICE - NOVA
 - 7.5.1 API
 - 7.5.2 Compute core
 - 7.5.3 Networking for VMs
 - 7.5.4 Console interface
 - 7.5.5 Image management
 - 7.5.6 Command-line clients and other interfaces
 - 7.5.7 Other components
 - 7.5.8 Controller node
- 7.6 NETWORKING SERVICE - NEUTRON
 - 7.6.1 Controller node
 - 7.6.2 Networking
 - 7.6.3 Masquerade on virtualBox host
- 7.7 BLOCK STORAGE SERVICE - CINDER
 - 7.7.1 Controller node
- 7.8 ORCHESTRATION SERVICE - HEAT
- 7.9 INSTANCE FLAVOUR
- 8. TEST - LAUNCH A VM INSTANCE**
 - 8.1 CONTROLLER NODE
 - 8.1.1 Generate a key pair
 - 8.1.2 Security group
 - 8.1.3 Create volume
 - 8.1.4 Launch a CirrOS instance
 - 8.1.5 Attach the volume
 - 8.1.6 Connect to the new instance
 - 8.1.7 Provider network gateway
 - 8.1.8 VirtualBox host public interface
 - 8.1.9 IP Address on the public Internet
 - 8.2 REVIEW THE INSTANCE
 - 8.2.1 Controller node
 - 8.3 CONFIGURE THE VOLUME IN THE NEW INSTANCE
- 9. SCRIPTING THE BUILDING AND LAUNCHING NEW INSTANCE**
 - 9.1 CLEANING THE NODES
 - 9.2 LAUNCH NEW INSTANCE
 - 9.2.1 Confirm VM instance
- 10. DOWNLOAD AND BUILD A SECOND UBUNTU IMAGE**
 - 10.1 COMPUTE NODE
 - 10.2 GLANCE - IDENTITY SERVICE
 - 10.3 FLAVOUR

Thanks & Regards,
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