

Deploying OpenStack Liberty and Tacker

This step by step guide describes how to deploy OpenStack Liberty and Tacker on Ubuntu 64-bit 14.0.4 LTS on a Physical node



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# STEP 1: Physical server setup and Ubuntu 14.04 64-bit OS install

* Identify and obtain a physical server with at least 1 network interfaces, at least 500 GB hard drive and 64 GB RAM.
* Connect NIC 1 from all the physical nodes to a switch (or any available means) that allows access to an external network.
* Install Ubuntu [14.04.3 LTS 64-bit OS](http://releases.ubuntu.com/14.04/ubuntu-14.04.3-server-amd64.iso) on the physical server. As part of installation:
  + Specify DNS name servers
  + Select OpenSSH package to be installed as part of OS install
* Enable "virtualization technology" mode from the BIOS for the physical node.
* Ensure DNS is setup properly by pinging [www.google.com](http://www.google.com) or [www.yahoo.com](http://www.yahoo.com) to test a successful external connectivity before proceeding to the next set of steps.
* Ensure that the /etc/hosts file has the entry for the hostname
  + Ping using the hostname to ensure it is reachable
* Ensure bash is installed
  + Execute “echo $BASH\_VERSION” and ensure non-empty value

# STEP 2: Download distribution bundle

* Extract distribution bundle **liberty.tar** that contains
  + 01-pre\_setup.sh
  + 02-export\_var\_cntrl
  + 03-cntrl\_node\_setup.sh
  + 04-tacker.sh
  + 05-tacker-server.sh
  + compute\_node.sh (IGNORE FOR NOW)
* Copy the above files to the **home** directory
* Ensure that executable permissions are set for the scripts; if not set, use the “sudo chmod +x <file\_name>”
  + 01-pre\_setup.sh
  + 03-cntrl\_node\_setup.sh
  + 04-tacker.sh
  + 05-tacker-server.sh
* Execute the **01-pre\_setup.sh** script that

(NOTE: User maybe prompted for inputs during script execution)

* + installs openssh, git, OpenStack packages
  + synchronizes time
  + reboots at the end of script execution
* Edit the **02-export\_var\_cntrl file** file with values for the below fields
  + **MY\_PUBLIC\_IP** 🡺 IP address of external network interface
  + **MY\_IP** 🡺 Same as the value of **MY\_PUBLIC\_IP**
* Execute the **03-cntrl\_node\_setup.sh** file that installs and configures the below components

(NOTE: Script prompts user input and asks to verify machine IP address )

* + RabbitMQ, MySQL 5.5
  + Keystone
  + Glance
  + Nova
  + Neutron
  + Heat
  + Horizon
* Execute the **04-tacker.sh** to install and configure tacker-server
* Copy the contents of **05-tacker-server.sh** and execute from command line to run the tacker service

# Step 3: Logging into horizon

The URL to login to Horizon would be http://<”node external interface IP address”>/horizon

The default **admin** credentials to login into horizon are: **admin/devstack**

The default **demo** credentials to login into horizon are: **demo/devstack**

The default **tacker** credentials to login into horizon are: **tacker/nottacker**