

Configuring the Controller Node



Andrew Mallett

LINUX AUTHOR AND TRAINER

@theurbanpenguin www.theurbanpenguin.com



Objectives



Install OpenStack Client

Install MySQL Database Server

Install Rabbit MQ Server



Work on the Controller
Node.

Scripts are Provided From
the Exercise Files
Downloads Page



```
# apt-get install -y python-openstackclient  
# openstack --version #Make sure 1.7 or higher
```

OpenStack Client

Later OpenStack releases are moving towards a global client that can be used to configure all OpenStack Services. This is the Python based OpenStack Client.



Install MySQL

```
# apt-get install -y mysql-server python-mysqldb
```

```
# cat > /etc/mysql/conf.d/openstack.cnf << END
```

```
[mysqld]
```

```
bind-address = 0.0.0.0
```

```
default-storage-engine = innodb
```

```
innodb_file_per_table
```

```
collation-server = utf8_general_ci
```

```
init-connect = 'SET NAMES utf8'
```

```
character-set-server = utf8
```

```
END
```

```
# service mysql restart
```



Install MySQL



Install Rabbit MQ

```
# apt-get install -y rabbitmq-server
```

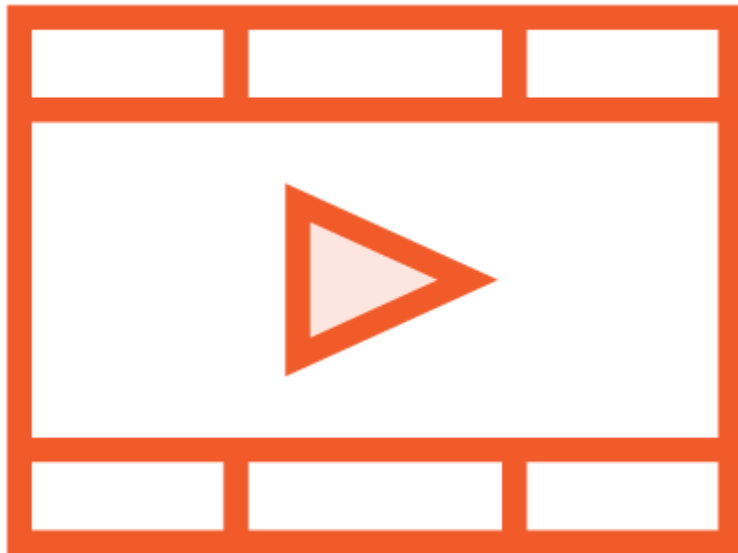
```
# rabbitmqctl add_user openstack Password1
```

```
# rabbitmqctl set_permissions openstack ".*" ".*" ".*"
```



Install Rabbit





Started the Install of OpenStack: We added the OpenStack Client and checked the version number to be 1.7 or higher

Added in the Database: Many databases are supported and we choose MySQL and the Python Libraries. Don't forget to ensure the Server is listening on all interfaces.

Message Queue: Rabbit MQ is the Message Queue Server we use. This is used to control communication between services.



Next up: Installing the
Keystone Identity Service

