

Understanding Back-end Services



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Objectives



Database Service

Securing MariaDB / MySQL

Backing Up Databases

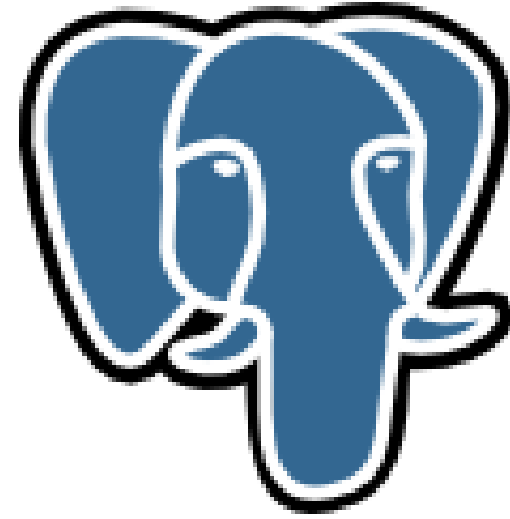
Message Queue Service



OpenStack Databases



MySQL/MariaDB variants are common in OpenStack deployments



Postgresql is used in the SUSE Cloud implementation of OpenStack

```
# mysql  
> SELECT USER();  
  
# mysql_secure_installation
```

Secure MySQL / MariaDB

Even though we looked at retrieving the MariaDB root password, root can log in **without a password**. We can secure the installation with the command line wizard.



Secure MariaDB



```
# mysqldump --opt --all-databases -p > /tmp/alldb.sql  
# mysqldump --opt neutron -p > /tmp/neutroldb.sql  
# mysqlshow #Shortcut to SHOW DATABASES;
```

Backing Up Databases

The `mysqldump` command can be used to backup databases



Backing Up Databases



RabbitMQ is a popular
Advanced Message Queue
Server for OpenStack.
Others include Apache's
QPID Server




```
# rabbitmq-plugins list  
# rabbitmq-plugins enable rabbitmq_management  
# systemctl restart rabbitmq-server  
http://192.168.56.5:15672
```

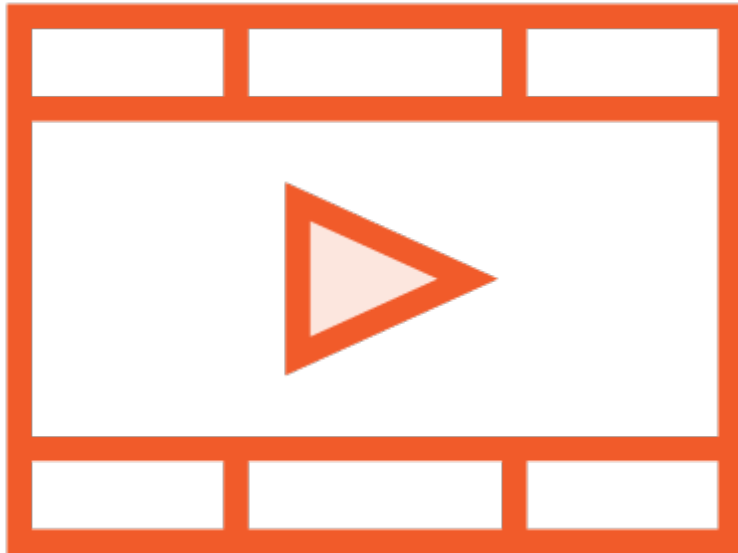
Monitoring Rabbit

RabbitMQ has a Graphical Console that can be enabled for monitoring.



Monitoring RabbitMQ





Secured MariaDB:
`mysql_secure_installation`

Backupped Databases: `mysqldump`

Monitored RabbitMQ: `rabbitmq-plugins`
`enable rabbitmq_management`



Next up: Verify Keystone
Identity Service

