

Lab 13: CLI of OpenStack Networking

Objective 1.

Scope **amy/sales-crm**.

Create a New Project Network and New Subnet:

- Name: **crm-www-net**
 - Subnet Name: **crm-www-subnet**
 - Network Address: **192.168.30.0/24**
 - DNS Nameservers: **8.8.8.8**
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Objective 2.

Scope **amy/sales-crm**.

Create a New NS Router:

- Name: **crm-ns-router**
- External Network: **provider**

Add Interface to Router crm-ns-router:

- Subnet: **crm-www-subnet**
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Objective 3.

Scope **amy/sales-crm**.

Create a New Project Network and New Subnet:

- Name: **crm-db-net**
 - Subnet Name: **crm-db-subnet**
 - Network Address: **192.168.31.0/24**
 - Allocation Pools: **192.168.31.100,192.168.31.120**
 - DNS Nameservers: **8.8.8.8**
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Objective 4.

Scope **amy/sales-crm**.

Create a New EW Router:

- Name: **crm-ew-router**

Add Interfaces to Router **crm-ew-router**:

- Subnet: **crm-www-subnet**
 - Subnet: **crm-db-subnet**
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Objective 5.

Scope **amy/sales-crm**.

Create a New Security Group **sales-crm-web-sg**, add all incoming ICMP, SSH and TCP on ports 80 and 443 (HTTP and HTTPS).

Create a New Security Group **sales-crm-db-sg**, add all incoming ICMP, SSH and incoming TCP on 3306 (MySQL) from Security Group **sales-crm-web-sg**.

Objective 6.

Scope **lisa/admin**.

Allocate Floating IP to Project **sales-crm**.

Objective 7.

Scope **amy/sales-crm**.

Launch a New Instance:

- Name: **control-insta**
- Image: **devOS-3.5**
- Flavor: **m1.tiny**
- Network: **crm-www-net**
- Security Group: **default** plus **sales-crm-web-sg**

Associate Floating IP to Instance **control-insta**.

Objective 8.

Scope **amy/sales-crm**.

Login to Instance **control-insta** with SSH to Floating IP, using the network namespace of **crm-ns-router** and test ping openstack.org.

Objective 9.

Scope **amy/sales-crm**.

Attach interface to **control-insta**, with Network **crm-db-net**.

SSH to **control-insta** in context of **crm-www-net** and edit **/etc/network/interfaces** to add a New NIC:

```
auto eth1
```

```
iface eth1 inet dhcp
```

Turn up **eth1** interface:

```
ifup eth1
```

Fix Security Groups of **control-insta** to **default**, **sales-crm-web-sg** plus **sales-crm-db-sg**.

Launch a New Instance:

- Name: **sales-db1**
- Image: **devOS-3.5**
- Flavor: **m1.tiny**
- Network: **crm-db-net**
- Security Group: **default** plus **sales-crm-db-sg**

SSH from **control-insta** to **sales-db1**.

Objective 10.

Scope **lisa/admin**.

Create a Provider Network. (as in Objective 11 of Lab 12)
