

Lab 9: Nova on Command Line

Objective 1.

Scope **amy/sales-crm**.

Create a Keypair named **amy-kp2** and store Private Key in file **amy-kp2.pem**.

Restrict access to this file.

Objective 2.

Scope **admin/admin**.

Create a new Public Flavor:

- Flavor Name: **funky.flavor**
 - ID: **20**
 - VCPUs: **1**
 - RAM: **600**
 - Disk: **1**
 - Property: **os_shutdown_timeout=45**
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Objective 3.

Scope **lisa/crm-dev**.

Modify Default Quotas for Project crm-dev:

- Cores: **5**
 - Key pairs: **5**
 - RAM: **2500**
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Objective 4.

Scope **amy/sales-crm**.

Launch a New Instance from Image:

- Name: **insta1**
- Flavor: **funky.flavor**
- Image: **system-4.0**
- Key pair: **amy-kp2**
- Network: **public**

Add Security Group **sales-crm-sg2** to Instance **insta1**.

Objective 5.

Scope **amy/sales-crm**.

List available Networks and note UUID of Network **public**.

List Network Name Spaces and identify one associated to Network **public**.

Using **ip netns exec**, **login to Instance insta1 using SSH** and Private Key **amy-kp2**.

Modify **.profile** file include green prompt:

```
PS1="\[\033[32m\] \[\h\] \[\033[37m\] $ "
```

Objective 6.

Scope **amy/sales-crm**.

Shutdown the Instance **insta1**.

Create an Instance Snapshot of Instance **insta1**, name it **insta1-snap**.

Launch a New Instance from Snapshot:

- Name: **insta2**
- Image: **insta1-snap**
- Flavor: **funky-flavor**
- Network: **public**
- Security Group: **default** and **sales-crm-sg2**

Login to Instance **insta2**, using **ip netns exec**, SSH and Private Key **amy-kp2**.

Ping openstack.org.

Shutdown the Instance **insta2**.

Objective 7.

Disable Compute Host **coa-lab** for maintenance using OpenStack Client. Check up Status of **nova-compute** Service on Host **coa-lab**.

Enable Compute Host **coa-lab** using the Horizon Dashboard.

List all Compute Hosts and their Services.

Display Hosts Statistics for **coa-lab**.

Analyse Diagnostic Data for selected Instance.

Monitor Usage Statistics for all Projects in Horizon and on Command Line.
