

- Heat Templates roles_data, network_data

```
[stack@osp-director ~]$ cd /usr/share/openstack-tripleo-heat-templates/
[stack@osp-director openstack-tripleo-heat-templates]$ cp roles_data.yaml
network_data.yaml ~/templates/main/
```

- roles_data, network_data
 - roles_data.yaml

```
##
##                                     ,      ** networks: **                                     NIC
#####
###
# Role: Controller
#
#####
###
- name: Controller
  description: |
    Controller role that has all the controller services loaded and handles
    Database, Messaging and Network functions.
  CountDefault: 1
  tags:
    - primary
    - controller
  networks:
    - External
    - InternalApi
    - Storage
    - StorageMgmt
    - Tenant
  default_route_networks: ['External']
  HostnameFormatDefault: '%stackname%-controller-%index%'
  uses_deprecated_params: True
  deprecated_param_extraconfig: 'controllerExtraConfig'
  deprecated_param_flavor: 'OvercloudControlFlavor'
  deprecated_param_image: 'controllerImage'
  deprecated_nic_config_name: 'controller.yaml'
  update_serial: 1
  ServicesDefault:
    - OS::TripleO::Services::Aide
    . . . . .
#####
###
# Role: Compute
#
#####
###
```

```

- name: Compute
  description: |
    Basic Compute Node role
  CountDefault: 1
  networks:
    - InternalApi
    - Storage
    - Tenant

```

- network_data .yaml
- , VIP
- : , API, , ,

```

- name: Storage
  vip: true
  vlan: 30
  name_lower: storage
  ip_subnet: '10.25.111.0/24'
  allocation_pools: [{'start': '10.25.111.4', 'end': '10.25.111.250'}]
- name: StorageMgmt
  name_lower: storage_mgmt
  vip: true
  vlan: 40
  ip_subnet: '10.25.112.0/24'
  allocation_pools: [{'start': '10.25.112.4', 'end': '10.25.112.250'}]
- name: InternalApi
  name_lower: internal_api
  vip: true
  vlan: 20
  ip_subnet: '10.25.113.0/24'
  allocation_pools: [{'start': '10.25.113.4', 'end': '10.25.113.250'}]
- name: Tenant
  vip: false # Tenant network does not use VIPs
  name_lower: tenant
  vlan: 50
  ip_subnet: '10.25.114.0/24'
  allocation_pools: [{'start': '10.25.114.4', 'end': '10.25.114.250'}]
- name: External
  vip: true
  name_lower: external
  vlan: 10
  ip_subnet: '10.25.115.0/24'
  allocation_pools: [{'start': '10.25.115.4', 'end': '10.25.115.250'}]
  gateway_ip: '10.25.115.1'
- name: Management
  # Management network is enabled by default for backwards-compatibility,
  but
  # is not included in any roles by default. Add to role definitions to use.
  enabled: false

```

```
vip: false # Management network does not use VIPs
name_lower: management
vlan: 60
ip_subnet: '10.0.1.0/24'
allocation_pools: [{'start': '10.0.1.4', 'end': '10.0.1.250'}]
```

- Heat-Teamlptes

```
// roles_data & network_data ( heat-template )
[stack@osp-director ~]$ cd /usr/share/openstack-tripleo-heat-templates/
[stack@osp-director openstack-tripleo-heat-templates]$ ./tools/process-
templates.py -o ~/openstack-tripleo-heat-templates-rendered -n
/home/stack/templates/main/network_data.yaml -r
/home/stack/templates/main/roles_data.yaml
```

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