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RedHat Openstack 16.2 Installation

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undercloud(director)

containers-prepare-parameter.yaml

```
# Generated with the following on 2022-02-07T15:38:01.717320
#
# openstack tripleo container image prepare default --local-push-
destination --output-env-file containers-prepare-parameter.yaml
#

parameter_defaults:
  ContainerImagePrepare:
    - push_destination: true
      set:
        ceph_alertmanager_image: ose-prometheus-alertmanager
        ceph_alertmanager_namespace: registry.redhat.io/openshift4
        ceph_alertmanager_tag: 4.1
        ceph_grafana_image: rhceph-4-dashboard-rhel8
        ceph_grafana_namespace: registry.redhat.io/rhceph
        ceph_grafana_tag: 4
        ceph_image: rhceph-4-rhel8
        ceph_namespace: registry.redhat.io/rhceph
        ceph_node_exporter_image: ose-prometheus-node-exporter
        ceph_node_exporter_namespace: registry.redhat.io/openshift4
        ceph_node_exporter_tag: v4.1
        ceph_prometheus_image: ose-prometheus
        ceph_prometheus_namespace: registry.redhat.io/openshift4
        ceph_prometheus_tag: 4.1
        ceph_tag: latest
        name_prefix: openstack-
        name_suffix: ''
        namespace: registry.redhat.io/rhosp-rhel8
        neutron_driver: ovn
```

```
rhel_containers: false
tag: '16.1.7'
tag_from_label: '{version}-{release}'
ContainerImageRegistryCredentials:
  registry.redhat.io:
    userid@domain.co.kr: 'password'
ContainerImageRegistryLogin: true
```

undercloud.conf

```
[DEFAULT]
# /
clean_nodes = true
# ( false)
#cleanup = true
#
container_images_file = /home/stack/containers-prepare-parameter.yaml
#
#container_insecure_registries = registry:5000
# telemetry
enable_telemetry = false
local_interface = enp2s0
local_ip = 192.168.10.1/24
#local_mtu = 1500
local_subnet = ctlplane-subnet
# DNS . CloudDomain

#overcloud_domain_name = cloud.localdomain

subnets = ctlplane-subnet
undercloud_admin_host = 192.168.10.3
undercloud_hostname = director.osp.kepri
undercloud_public_host = 192.168.10.2
undercloud_ntp_servers = 192.168.10.250
undercloud_timezone = 'Asia/Seoul'

[ctlplane-subnet]
cidr = 192.168.10.0/24
dhcp_end = 192.168.10.249
dhcp_start = 192.168.10.230
gateway = 192.168.10.1
inspection_iprange = 192.168.10.210,192.168.10.229
masquerade = true
```

Overcloud

Undercloud/Director 가

Overcloud

roles

```
# roles
$ openstack overcloud roles list

# role roles_data.yaml
$ openstack overcloud roles generate \
  --roles-path /usr/share/openstack-tripleo-heat-templates/roles/ \
  -o /home/stack/roles_data.yaml \
  Controller Compute ComputeAlt BlockStorage ObjectStorage CephStorage
```

network

VLAN

```
- name: Storage
  vip: true
  vlan: 30
  name_lower: storage
  ip_subnet: '172.16.1.0/24'
  allocation_pools: [{'start': '172.16.1.4', 'end': '172.16.1.250'}]
  mtu: 1500
- name: StorageMgmt
  name_lower: storage_mgmt
  vip: true
  vlan: 40
  ip_subnet: '172.16.3.0/24'
  allocation_pools: [{'start': '172.16.3.4', 'end': '172.16.3.250'}]
  mtu: 1500
- name: InternalApi
  name_lower: internal_api
  vip: true
  vlan: 20
  ip_subnet: '172.16.2.0/24'
  allocation_pools: [{'start': '172.16.2.4', 'end': '172.16.2.250'}]
  mtu: 1500
- name: Tenant
  vip: false # Tenant network does not use VIPs
  name_lower: tenant
  vlan: 50
```

```
ip_subnet: '172.16.0.0/24'
allocation_pools: [{'start': '172.16.0.4', 'end': '172.16.0.250'}]
mtu: 1500
- name: External
  vip: true
  name_lower: external
  ip_subnet: '192.168.0.0/24'
  allocation_pools: [{'start': '192.168.0.140', 'end': '192.168.0.149'}]
  gateway_ip: '192.168.0.1'
  mtu: 1500
```

template rendering

roles_data.yaml network_data.yaml heat template

```
#!/bin/bash
cd /usr/share/openstack-tripleo-heat-templates
./tools/process-templates.py -o ~/templates -n
/home/stack/custom/network_data.yaml -r /home/stack/custom/roles_data.yaml
```

node

- boot_mode : uefi, bios
- boot_option : local, pxe
- disk_label : gpt, msdos → uefi gpt , bios msdos

: <https://docs.openstack.org/ironic/latest/install/advanced.html>

nodes.yaml

```
nodes:
- mac:
  - "52:54:00:00:65:49"
  name: "control0"
  pm_type: "pxe_ipmitool"
  pm_user: "admin"
  pm_password: "admin"
  pm_addr: "192.168.0.31"
  pm_port: "6231"
  capabilities: "profile:control,node:control0,boot_option:local"
- mac:
  - "52:54:00:28:b4:7a"
  name: "control1"
  pm_type: "pxe_ipmitool"
```

```
pm_user: "admin"
pm_password: "admin"
pm_addr: "192.168.0.31"
pm_port: "6232"
capabilities: "profile:control,node:control1,boot_option:local"
- mac:
  - "52:54:00:a8:5d:6f"
name: "control2"
pm_type: "pxe_ipmitool"
pm_user: "admin"
pm_password: "admin"
pm_addr: "192.168.0.31"
pm_port: "6233"
capabilities: "profile:control,node:control2,boot_option:local"
- mac:
  - "52:54:00:ef:83:7f"
name: "compute0"
pm_type: "pxe_ipmitool"
pm_user: "admin"
pm_password: "admin"
pm_addr: "192.168.0.31"
pm_port: "6234"
capabilities: "profile:compute,node:compute0,boot_option:local"
- mac:
  - "52:54:00:f9:24:75"
name: "compute1"
pm_type: "pxe_ipmitool"
pm_user: "admin"
pm_password: "admin"
pm_addr: "192.168.0.31"
pm_port: "6235"
capabilities: "profile:compute,node:compute1,boot_option:local"
- mac:
  - "52:54:00:28:e9:fb"
name: "compute2"
pm_type: "pxe_ipmitool"
pm_user: "admin"
pm_password: "admin"
pm_addr: "192.168.0.31"
pm_port: "6236"
capabilities: "profile:compute,node:compute2,boot_option:local"
- mac:
  - "52:54:00:74:7c:52"
name: "compute3"
pm_type: "pxe_ipmitool"
pm_user: "admin"
pm_password: "admin"
pm_addr: "192.168.0.31"
pm_port: "6237"
capabilities: "profile:compute,node:compute3,boot_option:local"
- mac:
```

```
- "52:54:00:76:e0:a4"  
  name: "compute4"  
  pm_type: "pxe_ipmitool"  
  pm_user: "admin"  
  pm_password: "admin"  
  pm_addr: "192.168.0.31"  
  pm_port: "6238"  
  capabilities: "profile:compute,node:compute4,boot_option:local"
```

template

network-environment.yaml

```
resource_registry:  
  OS::Triple0::Controller::Net::SoftwareConfig:  
    ../network/config/custom-nic/controller.yaml  
  OS::Triple0::Compute::Net::SoftwareConfig:  
    ../network/config/custom-nic/compute.yaml  
parameter_defaults:  
  StorageNetCidr: '172.16.1.0/24'  
  StorageAllocationPools: [{'start': '172.16.1.4', 'end': '172.16.1.250'}]  
  StorageNetworkVlanID: 30  
  StorageMgmtNetCidr: '172.16.3.0/24'  
  StorageMgmtAllocationPools: [{'start': '172.16.3.4', 'end':  
'172.16.3.250'}]  
  StorageMgmtNetworkVlanID: 40  
  InternalApiNetCidr: '172.16.2.0/24'  
  InternalApiAllocationPools: [{'start': '172.16.2.4', 'end':  
'172.16.2.250'}]  
  InternalApiNetworkVlanID: 20  
  TenantNetCidr: '172.16.0.0/24'  
  TenantAllocationPools: [{'start': '172.16.0.4', 'end': '172.16.0.250'}]  
  TenantNetworkVlanID: 50  
  TenantNetPhysnetMtu: 1500  
  ExternalNetCidr: '192.168.0.0/24'  
  ExternalAllocationPools: [{'start': '192.168.0.140', 'end':  
'192.168.0.149'}]  
  ExternalInterfaceDefaultRoute: '192.168.0.1'  
  DnsServers: ['8.8.8.8']  
  NeutronNetworkType: 'geneve,vlan,flat'  
  NeutronNetworkVLANRanges: 'datacentre:1:1000'  
  BondInterfaceOvsOptions: "bond_mode=active-backup"  
  NeutronEnableDVR: false
```


NIC Config

controller.yaml

```
heat_template_version: rocky
description: >
  Software Config to drive os-net-config to configure multiple interfaces
  for the Controller role.
parameters:
  ControlPlaneIp:
    default: ''
    description: IP address/subnet on the ctlplane network
    type: string
  ControlPlaneSubnetCidr:
    default: ''
    description: >
      The subnet CIDR of the control plane network. (The parameter is
      automatically resolved from the ctlplane subnet's cidr attribute.)
    type: string
  ControlPlaneDefaultRoute:
    default: ''
    description: The default route of the control plane network. (The
    parameter
      is automatically resolved from the ctlplane subnet's gateway_ip
    attribute.)
    type: string
  ControlPlaneStaticRoutes:
    default: []
    description: >
      Routes for the ctlplane network traffic.
      JSON route e.g. [{'destination':'10.0.0.0/16', 'nexthop':'10.0.0.1'}]
      Unless the default is changed, the parameter is automatically resolved
      from the subnet host_routes attribute.
    type: json
  ControlPlaneMtu:
    default: 1500
    description: The maximum transmission unit (MTU) size(in bytes) that is
    guaranteed to pass through the data path of the segments in the
    network.
      (The parameter is automatically resolved from the ctlplane network's
    mtu attribute.)
    type: number

  StorageIpSubnet:
    default: ''
    description: IP address/subnet on the storage network
    type: string
  StorageNetworkVlanID:
    default: 30
```

```
description: Vlan ID for the storage network traffic.
type: number
StorageMtu:
default: 1500
description: The maximum transmission unit (MTU) size(in bytes) that is
guaranteed to pass through the data path of the segments in the
Storage network.
type: number
StorageInterfaceRoutes:
default: []
description: >
Routes for the storage network traffic.
JSON route e.g. [{'destination':'10.0.0.0/16', 'nexthop':'10.0.0.1'}]
Unless the default is changed, the parameter is automatically resolved
from the subnet host_routes attribute.
type: json
StorageMgmtIpSubnet:
default: ''
description: IP address/subnet on the storage_mgmt network
type: string
StorageMgmtNetworkVlanID:
default: 40
description: Vlan ID for the storage_mgmt network traffic.
type: number
StorageMgmtMtu:
default: 1500
description: The maximum transmission unit (MTU) size(in bytes) that is
guaranteed to pass through the data path of the segments in the
StorageMgmt network.
type: number
StorageMgmtInterfaceRoutes:
default: []
description: >
Routes for the storage_mgmt network traffic.
JSON route e.g. [{'destination':'10.0.0.0/16', 'nexthop':'10.0.0.1'}]
Unless the default is changed, the parameter is automatically resolved
from the subnet host_routes attribute.
type: json
InternalApiIpSubnet:
default: ''
description: IP address/subnet on the internal_api network
type: string
InternalApiNetworkVlanID:
default: 20
description: Vlan ID for the internal_api network traffic.
type: number
InternalApiMtu:
default: 1500
description: The maximum transmission unit (MTU) size(in bytes) that is
guaranteed to pass through the data path of the segments in the
```

```
InternalApi network.
type: number
InternalApiInterfaceRoutes:
  default: []
  description: >
    Routes for the internal_api network traffic.
    JSON route e.g. [{'destination':'10.0.0.0/16', 'nexthop':'10.0.0.1'}]
    Unless the default is changed, the parameter is automatically resolved
    from the subnet host_routes attribute.
  type: json
TenantIpSubnet:
  default: ''
  description: IP address/subnet on the tenant network
  type: string
TenantNetworkVlanID:
  default: 50
  description: Vlan ID for the tenant network traffic.
  type: number
TenantMtu:
  default: 1500
  description: The maximum transmission unit (MTU) size(in bytes) that is
    guaranteed to pass through the data path of the segments in the
    Tenant network.
  type: number
TenantInterfaceRoutes:
  default: []
  description: >
    Routes for the tenant network traffic.
    JSON route e.g. [{'destination':'10.0.0.0/16', 'nexthop':'10.0.0.1'}]
    Unless the default is changed, the parameter is automatically resolved
    from the subnet host_routes attribute.
  type: json
ExternalIpSubnet:
  default: ''
  description: IP address/subnet on the external network
  type: string
ExternalNetworkVlanID:
  default: 10
  description: Vlan ID for the external network traffic.
  type: number
ExternalMtu:
  default: 1500
  description: The maximum transmission unit (MTU) size(in bytes) that is
    guaranteed to pass through the data path of the segments in the
    External network.
  type: number
ExternalInterfaceDefaultRoute:
  default: ''
  description: default route for the external network
  type: string
ExternalInterfaceRoutes:
```

```
default: []
description: >
  Routes for the external network traffic.
  JSON route e.g. [{'destination':'10.0.0.0/16', 'nexthop':'10.0.0.1'}]
  Unless the default is changed, the parameter is automatically resolved
  from the subnet host_routes attribute.
type: json

DnsServers: # Override this via parameter_defaults
default: []
description: >
  DNS servers to use for the Overcloud (2 max for some implementations).
  If not set the nameservers configured in the ctlplane subnet's
  dns_nameservers attribute will be used.
type: comma_delimited_list
DnsSearchDomains: # Override this via parameter_defaults
default: []
description: A list of DNS search domains to be added (in order) to
  resolv.conf.
type: comma_delimited_list
#####
resources:

MinViableMtu:
  # This resource resolves the minimum viable MTU for interfaces, bonds
and
  # bridges that carry multiple VLANs. Each VLAN may have different MTU.
The
  # bridge, bond or interface must have an MTU to allow the VLAN with the
  # largest MTU.
type: OS::Heat::Value
properties:
  type: number
  value:
    yaql:
      expression: $.data.max()
      data:
        - {get_param: ControlPlaneMtu}
        - {get_param: StorageMtu}
        - {get_param: InternalApiMtu}
        - {get_param: TenantMtu}

OsNetConfigImpl:
type: OS::Heat::SoftwareConfig
properties:
  group: script
  config:
    str_replace:
      template:
        get_file: ../../scripts/run-os-net-config.sh
```

```
    params:
      $network_config:
        network_config:

##### Main Interface [Provision]
  - type: interface
    name: nic1
    mtu:
      get_param: ControlPlaneMtu
    use_dhcp: false
    dns_servers:
      get_param: DnsServers
    domain:
      get_param: DnsSearchDomains
    addresses:
      - ip_netmask:
          list_join:
            - /
            - - get_param: ControlPlaneIp
              - get_param: ControlPlaneSubnetCidr
    routes:
      list_concat_unique:
        - get_param: ControlPlaneStaticRoutes

##### Main Interface [VLAN]
  - type: ovs_bridge
    name: br-local
    dns_server:
      get_param: DnsServers
    use_dhcp: false

    members:
##### Sub Interface
  - type: interface
    name: nic2
    mtu:
      get_attr: [MinViableMtu, value]
      # force the MAC address of the bridge to this interface
    primary: true
##### Sub Interface [Storage]
  - type: vlan
    mtu:
      get_param: StorageMtu
    vlan_id:
      get_param: StorageNetworkVlanID
    addresses:
      - ip_netmask:
          get_param: StorageIpSubnet
    routes:
      list_concat_unique:
```

```
        - get_param: StorageInterfaceRoutes
##### Sub Interface [StorageMgmt]
    - type: vlan
      mtu:
        get_param: StorageMgmtMtu
      vlan_id:
        get_param: StorageMgmtNetworkVlanID
      addresses:
        - ip_netmask:
            get_param: StorageMgmtIpSubnet
          routes:
            list_concat_unique:
              - get_param: StorageMgmtInterfaceRoutes
##### Sub Interface [InternalApi]
    - type: vlan
      mtu:
        get_param: InternalApiMtu
      vlan_id:
        get_param: InternalApiNetworkVlanID
      addresses:
        - ip_netmask:
            get_param: InternalApiIpSubnet
          routes:
            list_concat_unique:
              - get_param: InternalApiInterfaceRoutes
##### Sub Interface [Tenant]
    - type: vlan
      mtu:
        get_param: TenantMtu
      vlan_id:
        get_param: TenantNetworkVlanID
      addresses:
        - ip_netmask:
            get_param: TenantIpSubnet
          routes:
            list_concat_unique:
              - get_param: TenantInterfaceRoutes

##### Main Interface [External - NIC]
    - type: ovs_bridge
      name: bridge_name
      mtu:
        get_param: ExternalMtu
      dns_servers:
        get_param: DnsServers
      use_dhcp: false
      addresses:
        - ip_netmask:
            get_param: ExternalIpSubnet
          routes:
```

```

        list_concat_unique:
          - get_param: ExternalInterfaceRoutes
            - - default: true
              next_hop:
                get_param: ExternalInterfaceDefaultRoute
        members:
          - type: interface
            name: nic3
            mtu:
              get_param: ExternalMtu
            use_dhcp: false
            primary: true

#####
outputs:
  OS::stack_id:
    description: The OsNetConfigImpl resource.
    value:
      get_resource: OsNetConfigImpl(undercloud)

```

compute.yaml

```

heat_template_version: rocky
description: >
  Software Config to drive os-net-config to configure multiple interfaces
  for the Compute role.
parameters:
  ControlPlaneIp:
    default: ''
    description: IP address/subnet on the ctlplane network
    type: string
  ControlPlaneSubnetCidr:
    default: ''
    description: >
      The subnet CIDR of the control plane network. (The parameter is
      automatically resolved from the ctlplane subnet's cidr attribute.)
    type: string
  ControlPlaneDefaultRoute:
    default: ''
    description: The default route of the control plane network. (The
    parameter
      is automatically resolved from the ctlplane subnet's gateway_ip
    attribute.)
    type: string
  ControlPlaneStaticRoutes:
    default: []
    description: >
      Routes for the ctlplane network traffic.
      JSON route e.g. [{'destination':'10.0.0.0/16', 'nexthop':'10.0.0.1'}]

```

Unless the default is changed, the parameter is automatically resolved from the subnet `host_routes` attribute.

type: json

ControlPlaneMtu:

default: 1500

description: The maximum transmission unit (MTU) size(in bytes) that is guaranteed to pass through the data path of the segments in the network.

(The parameter is automatically resolved from the `ctlplane` network's `mtu` attribute.)

type: number

StorageIpSubnet:

default: ''

description: IP address/subnet on the storage network

type: string

StorageNetworkVlanID:

default: 30

description: Vlan ID for the storage network traffic.

type: number

StorageMtu:

default: 1500

description: The maximum transmission unit (MTU) size(in bytes) that is guaranteed to pass through the data path of the segments in the Storage network.

type: number

StorageInterfaceRoutes:

default: []

description: >

Routes for the storage network traffic.

JSON route e.g. `[{'destination':'10.0.0.0/16', 'nexthop':'10.0.0.1'}]`

Unless the default is changed, the parameter is automatically resolved from the subnet `host_routes` attribute.

type: json

InternalApiIpSubnet:

default: ''

description: IP address/subnet on the `internal_api` network

type: string

InternalApiNetworkVlanID:

default: 20

description: Vlan ID for the `internal_api` network traffic.

type: number

InternalApiMtu:

default: 1500

description: The maximum transmission unit (MTU) size(in bytes) that is guaranteed to pass through the data path of the segments in the `InternalApi` network.

type: number

InternalApiInterfaceRoutes:

default: []


```

description: >
  Routes for the internal_api network traffic.
  JSON route e.g. [{'destination':'10.0.0.0/16', 'nexthop':'10.0.0.1'}]
  Unless the default is changed, the parameter is automatically resolved
  from the subnet host_routes attribute.
type: json
TenantIpSubnet:
  default: ''
  description: IP address/subnet on the tenant network
  type: string
TenantNetworkVlanID:
  default: 50
  description: Vlan ID for the tenant network traffic.
  type: number
TenantMtu:
  default: 1500
  description: The maximum transmission unit (MTU) size(in bytes) that is
  guaranteed to pass through the data path of the segments in the
  Tenant network.
  type: number
TenantInterfaceRoutes:
  default: []
  description: >
    Routes for the tenant network traffic.
    JSON route e.g. [{'destination':'10.0.0.0/16', 'nexthop':'10.0.0.1'}]
    Unless the default is changed, the parameter is automatically resolved
    from the subnet host_routes attribute.
  type: json

ExternalMtu:
  default: 1500
  description: The maximum transmission unit (MTU) size(in bytes) that is
  guaranteed to pass through the data path of the segments in the
  External network.
  type: number

DnsServers: # Override this via parameter_defaults
  default: []
  description: >
    DNS servers to use for the Overcloud (2 max for some implementations).
    If not set the nameservers configured in the ctlplane subnet's
    dns_nameservers attribute will be used.
  type: comma_delimited_list
DnsSearchDomains: # Override this via parameter_defaults
  default: []
  description: A list of DNS search domains to be added (in order) to
  resolv.conf.
  type: comma_delimited_list
#####
resources:

```

```
MinViableMtu:
  # This resource resolves the minimum viable MTU for interfaces, bonds
and
  # bridges that carry multiple VLANs. Each VLAN may have different MTU.
The
  # bridge, bond or interface must have an MTU to allow the VLAN with the
  # largest MTU.
  type: OS::Heat::Value
  properties:
    type: number
    value:
      yaql:
        expression: $.data.max()
        data:
          - {get_param: ControlPlaneMtu}
          - {get_param: StorageMtu}
          - {get_param: InternalApiMtu}
          - {get_param: TenantMtu}

OsNetConfigImpl:
  type: OS::Heat::SoftwareConfig
  properties:
    group: script
    config:
      str_replace:
        template:
          get_file: ../../scripts/run-os-net-config.sh
      params:
        $network_config:
          network_config:

##### Main Interface [Provision]
  - type: interface
    name: nic1
    mtu:
      get_param: ControlPlaneMtu
    use_dhcp: false
    dns_servers:
      get_param: DnsServers
    domain:
      get_param: DnsSearchDomains
    addresses:
      - ip_netmask:
          list_join:
            - /
            - - get_param: ControlPlaneIp
              - get_param: ControlPlaneSubnetCidr
    routes:
      list_concat_unique:
        - get_param: ControlPlaneStaticRoutes
```

```
        - - default: true
          next_hop:
            get_param: ControlPlaneDefaultRoute

##### Main Interface [VLAN]
- type: ovs_bridge
  name: br-local
  dns_server:
    get_param: DnsServers
  use_dhcp: false

  members:
##### Sub Interface
- type: interface
  name: nic2
  mtu:
    get_attr: [MinViableMtu, value]
  # force the MAC address of the bridge to this interface
  primary: true
##### Sub Interface [Storage]
- type: vlan
  mtu:
    get_param: StorageMtu
  vlan_id:
    get_param: StorageNetworkVlanID
  addresses:
    - ip_netmask:
        get_param: StorageIpSubnet
  routes:
    list_concat_unique:
      - get_param: StorageInterfaceRoutes
##### Sub Interface [InternalApi]
- type: vlan
  mtu:
    get_param: InternalApiMtu
  vlan_id:
    get_param: InternalApiNetworkVlanID
  addresses:
    - ip_netmask:
        get_param: InternalApiIpSubnet
  routes:
    list_concat_unique:
      - get_param: InternalApiInterfaceRoutes
##### Sub Interface [Tenant]
- type: vlan
  mtu:
    get_param: TenantMtu
  vlan_id:
    get_param: TenantNetworkVlanID
  addresses:
    - ip_netmask:
```

```
        get_param: TenantIpSubnet
      routes:
        list_concat_unique:
          - get_param: TenantInterfaceRoutes

##### Main Interface [External -      NIC]
  - type: ovs_bridge
    name: bridge_name
    mtu:
      get_param: ExternalMtu
    dns_servers:
      get_param: DnsServers
    use_dhcp: false
    addresses:
      - ip_netmask:
          get_param: ExternalIpSubnet
    routes:
      list_concat_unique:
        - get_param: ExternalInterfaceRoutes
        - - default: true
          next_hop:
            get_param: ExternalInterfaceDefaultRoute
    members:
      - type: interface
        name: nic3
        mtu:
          get_param: ExternalMtu
        use_dhcp: false
        primary: true

#####

outputs:
  OS::stack_id:
    description: The OsNetConfigImpl resource.
    value:
      get_resource: OsNetConfigImpl(undercloud)
```

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