



## Sample neutron-cisco-vts.yaml Configuration

This appendix provides typical sample configuration for different Cisco VTS deployment modes.

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- [Sample “neutron-cisco-vts.yaml” for Deploying Cisco VTS Plugin with Cisco VTS Agent, page 2](#)
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## Sample “neutron-cisco-vts.yaml” for Deploying Cisco VTS Plugin with OVS Agent

```
resource_registry:

  OS::TripleO::Services::NeutronCorePluginVTS:
    /usr/share/openstack-tripleo-heat-templates/puppet/services/neutron-plugin-ml2-cisco-vts.yaml

  OS::TripleO::Services::NeutronCorePlugin: OS::TripleO::Services::NeutronCorePluginVTS

  ## Comment out below line when deploying VTS Agent on compute nodes instead of VPP/VPFA
  OS::TripleO::Services::ComputeNeutronCorePlugin: OS::Heat::None

parameter_defaults:

  #####
  ### VTS General ###
  #####

  VTSUsername: 'admin'
  VTSPassword: 'YldKnf3qSsKA2JWQT9a0Sg=='
  VTSServer: '10.194.132.26'
  VTSVMID: '691ce4a4-dfa3-4b63-855c-5813519498da'

  #####
  ### Neutron ML2 ###
  #####

  NeutronCorePlugin: 'neutron.plugins.ml2.plugin.Ml2Plugin'
  NeutronMechanismDrivers: 'sriovnicswitch,cisco_vts'
  NeutronTypeDrivers: 'vxlan,vlan,flat'
  NeutronServicePlugins: 'cisco_vts_router,trunk'

  #####
  ### VTS Agent Config ###
  #####
```

```

VTSPhysicalNet: 'phys_tenant'
#VTSRetries: 15
#VSTimeout:
#VTSPollingInterval: 6

```

## Sample "neutron-cisco-vts.yaml" for Deploying Cisco VTS Plugin with Cisco VTS Agent

```

# A Heat environment file which can be used to enable Cisco VTS extensions, configured via
puppet

# By default the configuration has items required to deploy VPP/VPFA on all nodes + the
cisco ML2 VTS driver

resource_registry:

    OS::TripleO::Services::NeutronCorePluginVTS:
    /usr/share/openstack-tripleo-heat-templates/puppet/services/neutron-plugin-ml2-cisco-vts.yaml

    OS::TripleO::Services::NeutronCorePlugin: OS::TripleO::Services::NeutronCorePluginVTS

    ## Comment out below line when deploying VTS Agent on compute nodes instead of VPP/VPFA
    #OS::TripleO::Services::ComputeNeutronCorePlugin: OS::Heat::None

    ## Disable Neutron L3 agent that conflict with VPFA
    OS::TripleO::Services::NeutronL3Agent: OS::Heat::None

    ## OVS and VTS Agent sub-section ##

    ## Disable/enable the default OVS Agent for compute and controller
    OS::TripleO::Services::ComputeNeutronOvsAgent: OS::Heat::None
    OS::TripleO::Services::NeutronOvsAgent: OS::Heat::None

    ## Disable/enable VTS agent service. VTS agent and OVS agent are mutually exclusive
    ## NOTE: The OS::TripleO::Services::VTSAgent needs to be added to the deployment role
file
    OS::TripleO::Services::VTSAgent:
    /usr/share/openstack-tripleo-heat-templates/puppet/services/neutron-cisco-vts-agent.yaml

parameter_defaults:

    #####
    ### VTS General ###
    #####

    VTUsername: 'admin'
    VTSPassword: 'YLdKnf3qSsKA2JWQT9a0Sg=='
    VTSServer: '10.194.132.26'
    VTSVMID: '691ce4a4-dfa3-4b63-855c-5813519498da'

    #####
    ### Neutron ML2 ###
    #####

    NeutronCorePlugin: 'neutron.plugins.ml2.plugin.Ml2Plugin'
    NeutronMechanismDrivers: 'sriovnicswitch,cisco_vts'
    NeutronTypeDrivers: 'vxlan,vlan,flat'
    NeutronServicePlugins: 'cisco_vts_router,trunk'
    NeutronOVSHybridFirewallDriver:
'neutron.agent.linux.iptables_firewall.OVSHybridIptablesFirewallDriver'

    #####
    ### VTS Agent Config ###
    #####

    VTSPhysicalNet: 'phys_tenant'
    #VTSRetries: 15

```

```
#VTSTimeout:
#VTSPollingInterval: 6
```

## Sample "neutron-cisco-vts.yaml" for Deploying Cisco VTS Plugin with VTF

```
# A Heat environment file which can be used to enable Cisco VTS extensions, configured via puppet

# By default the configuration has items required to deploy VPP/VPFA on all nodes + the cisco ML2 VTS driver

resource_registry:

    OS::TripleO::Services::NeutronCorePluginVTS:
    /usr/share/openstack-tripleo-heat-templates/puppet/services/neutron-plugin-ml2-cisco-vts.yaml

    OS::TripleO::Services::NeutronCorePlugin: OS::TripleO::Services::NeutronCorePluginVTS

    ## Comment out below line when deploying VTS Agent on compute nodes instead of VPP/VPFA
    OS::TripleO::Services::ComputeNeutronCorePlugin: OS::Heat::None

    ## Disable Neutron L3 agent that conflict with VPFA
    OS::TripleO::Services::NeutronL3Agent: OS::Heat::None

    ## OVS and VTS Agent sub-section ##

    ## Disable/enable the default OVS Agent for compute and controller
    OS::TripleO::Services::ComputeNeutronOvsAgent: OS::Heat::None
    OS::TripleO::Services::NeutronOvsAgent: OS::Heat::None

    ## Disable/enable VTS agent service. VTS agent and OVS agent are mutually exclusive
    ## NOTE: The OS::TripleO::Services::VTSAgent needs to be added to the deployment role file
    #OS::TripleO::Services::VTSAgent:
    /usr/share/openstack-tripleo-heat-templates/puppet/services/neutron-cisco-vts-agent.yaml

    ## VPFA Configuration Hook scripts
    #OS::TripleO::ComputeExtraConfigPre:
    /usr/share/openstack-tripleo-heat-templates/puppet/extraconfig/pre_deploy/cisco_vts_vpfa.yaml

    ## Additional hook scripts for controller. Enable/disable as disctated by the scope of the deployment
    #OS::TripleO::ControllerExtraConfigPre:
    /usr/share/openstack-tripleo-heat-templates/puppet/extraconfig/pre_deploy/cisco_vts_vpfa.yaml

    ## Same hook scripts as above for all nodes in one. Enable/disable as disctated by the scope of the deployment.
    OS::TripleO::NodeExtraConfig:
    /usr/share/openstack-tripleo-heat-templates/puppet/extraconfig/pre_deploy/cisco_vts_vpfa.yaml

    ## Rsyslog client
    OS::TripleO::Services::RsyslogClient:
    /usr/share/openstack-tripleo-heat-templates/puppet/services/rsyslog-client.yaml
    OS::TripleO::Services::Vpp: OS::Heat::None
    OS::TripleO::Services::VppCompute:
    /usr/share/openstack-tripleo-heat-templates/puppet/services/vpp-compute.yaml
    OS::TripleO::Services::VppController:
    /usr/share/openstack-tripleo-heat-templates/puppet/services/vpp-controller.yaml
    OS::TripleO::Services::CiscoVpfaCompute:
    /usr/share/openstack-tripleo-heat-templates/puppet/services/cisco-vpfa-compute.yaml
    OS::TripleO::Services::CiscoVpfaController:
    /usr/share/openstack-tripleo-heat-templates/puppet/services/cisco-vpfa-controller.yaml
```

```

parameter_defaults:

#####
### VTS General ###
#####

VTSUsername: 'admin'
VTSPassword: 'YLdKnf3qSsKA2JWQT9a0Sg=='
VTSServer: '10.194.132.26'
VTSVMMID: '691ce4a4-dfa3-4b63-855c-5813519498da'

#####
### Neutron ML2 ###
#####

NeutronCorePlugin: 'neutron.plugins.ml2.plugin.Ml2Plugin'
NeutronMechanismDrivers: 'sriovnicswitch,cisco_vts'
NeutronTypeDrivers: 'vxlan,vlan,flat'
NeutronServicePlugins: 'cisco_vts_router,trunk'

## DHCP Agent interface driver. Uncomment ONLY if/when deploying VPP on the controller
node(s).
NeutronInterfaceDriver: 'cisco_controller.drivers.agent.linux.interface.NamespaceDriver'

#####
### VTS Agent Config ###
#####

VTSPhysicalNet: 'phys_tenant'
#VTSRetries: 15
#VTSTimeout:
#VTSPollingInterval: 6

#####
### VPFA Config ###
#####

UnderlayIpNeworksList: '21.0.0.0/8'
VTSR_u_IPAddressList: '21.1.1.5'
#VPFAHostname: 'foo'
#NetworkConfigMethod: 'static'
#NetworkNameServerIP: ''
VifTypeCompute: 'vhostuser'
VifTypeController: 'tap'

# Set common VTS Network Gateway address or set/override it in PerNodeData below
VTSNetworkIPv4Gateway: '21.1.1.1'

PerNodeData: |
{
  "A73EB684-FE95-084D-8260-9052DFD50EEA": {
    "cisco_vpfa:vtf_underlay_ip_v4": "21.1.1.11",
    "cisco_vpfa:vtf_underlay_mask_v4": "24",
    "cisco_vpfa:network_ipv4_gateway": "21.1.1.1"},
  "90117168-52E8-074F-A159-8186CFBF7B5C": {
    "cisco_vpfa:vtf_underlay_ip_v4": "21.1.1.12",
    "cisco_vpfa:vtf_underlay_mask_v4": "24",
    "cisco_vpfa:network_ipv4_gateway": "21.1.1.1"}
}

#####
### VPP Configuration Parameters ###
#####

## MTU for Tun/tap interfaces
VppTunTapMtu: '9000'

##The CPUs listed below need to be part of the grub isol CPU list (configured elsewhere)
VppCpuMainCoreController: '6'
VppCpuMainCoreCompute: '6'

## Comma delimited workers list

```

```
VppCpuCorelistWorkersCompute: '7,8,9'  
VppCpuCorelistWorkersController: '7,8,9'  
  
## Avoid dumping vhost-user shared memory segments to core files  
#VppVhostUserDontDumpMem: True
```

