

```
2018-11-30T04:48:37.665Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
org.onap.so.openstack.utils.MsoCommonUtils - Found an environment variable - value: parameters:
cloud_env: "PUT openstack OR rackspace HERE"
dcae_collector_ip: "10.0.4.1"
dcae_collector_port: "8081"
demo_artifacts_version: "1.3.0-SNAPSHOT"
flavor_name: "PUT THE VM FLAVOR NAME HERE (m1.medium suggested)"
image_name: "PUT THE VM IMAGE NAME HERE (UBUNTU 1404)"
install_script_version: "1.3.0-SNAPSHOT"
key_name: "vfw_key"
nexus_artifact_repo: "https://nexus.onap.org"
onap_private_net_cidr: "10.0.0.0/16"
onap_private_net_id: "PUT THE ONAP PRIVATE NETWORK NAME HERE"
onap_private_subnet_id: "PUT THE ONAP PRIVATE NETWORK NAME HERE"
protected_private_net_cidr: "192.168.20.0/24"
protected_private_net_id: "zdfw1fwl01_protected"
protected_private_subnet_id: "zdfw1fwl01_protected_sub"
pub_key: "PUT YOUR KEY HERE"
public_net_id: "PUT THE PUBLIC NETWORK ID HERE"
sec_group: "PUT THE ONAP SECURITY GROUP HERE"
unprotected_private_net_cidr: "192.168.10.0/24"
unprotected_private_net_id: "zdfw1fwl01_unprotected"
unprotected_private_subnet_id: "zdfw1fwl01_unprotected_sub"
vf_module_id: "vFirewallCL"
vfw_name_0: "zdfw1fwl01fwl01"
vfw_private_ip_0: "192.168.10.100"
vfw_private_ip_1: "192.168.20.100"
vfw_private_ip_2: "10.0.100.1"
vnf_id: "vFirewall_demo_app"
vpg_private_ip_0: "192.168.10.200"
vsn_name_0: "zdfw1fwl01snk01"
vsn_private_ip_0: "192.168.20.250"
vsn_private_ip_1: "10.0.100.3"
```

```
2018-11-30T04:48:37.667Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
org.onap.so.openstack.utils.MsoCommonUtils - stack
request:CreateStackParam{stackName='firewall', templateUrl='null',
template='#####
###
#
#=====LICENSE_START=====
====
#
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```

```
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```

```
#
```

```
#####LICENSE_END#####
```

```
====
```

```
#
```

```
# ECOMP is a trademark and service mark of AT&T Intellectual Property.
```

```
#
```

```
#####
```

```
heat_template_version: 2013-05-23
```

```
description: Heat template that deploys vFirewall Closed Loop demo app (vFW and vSink) for ONAP
```

```
#####
```

```
# #
```

```
# PARAMETERS #
```

```
# #
```

```
#####
```

```
parameters:
```

```
  image_name:
```

```
    type: string
```

```
    label: Image name or ID
```

```
    description: Image to be used for compute instance
```

```
  flavor_name:
```

```
    type: string
```

```
    label: Flavor
```

```
    description: Type of instance (flavor) to be used
```

```
  public_net_id:
```

```
    type: string
```

```
    label: Public network name or ID
```

```
    description: Public network that enables remote connection to VNF
```

```
  unprotected_private_net_id:
```

```
    type: string
```

```
    label: Unprotected private network name or ID
```

```
    description: Private network that connects vPacketGenerator with vFirewall
```

```
  unprotected_private_subnet_id:
```

```
    type: string
```

```
    label: Unprotected private subnetwork name or ID
```

```
    description: Private subnetwork of the protected network
```

```
  unprotected_private_net_cidr:
```

```
    type: string
```

```
    label: Unprotected private network CIDR
```

```
    description: The CIDR of the unprotected private network
```

```
  protected_private_net_id:
```

```
    type: string
```

```
    label: Protected private network name or ID
```

```
    description: Private network that connects vFirewall with vSink
```

protected\_private\_subnet\_id:  
type: string  
label: Protected private subnetwork name or ID  
description: Private subnetwork of the unprotected network

protected\_private\_net\_cidr:  
type: string  
label: Protected private network CIDR  
description: The CIDR of the protected private network

onap\_private\_net\_id:  
type: string  
label: ONAP management network name or ID  
description: Private network that connects ONAP components and the VNF

onap\_private\_subnet\_id:  
type: string  
label: ONAP management sub-network name or ID  
description: Private sub-network that connects ONAP components and the VNF

onap\_private\_net\_cidr:  
type: string  
label: ONAP private network CIDR  
description: The CIDR of the protected private network

vfw\_private\_ip\_0:  
type: string  
label: vFirewall private IP address towards the unprotected network  
description: Private IP address that is assigned to the vFirewall to communicate with the

vPacketGenerator

vfw\_private\_ip\_1:  
type: string  
label: vFirewall private IP address towards the protected network  
description: Private IP address that is assigned to the vFirewall to communicate with the vSink

vfw\_private\_ip\_2:  
type: string  
label: vFirewall private IP address towards the ONAP management network  
description: Private IP address that is assigned to the vFirewall to communicate with ONAP

components

vpg\_private\_ip\_0:  
type: string  
label: vPacketGenerator private IP address towards the unprotected network  
description: Private IP address that is assigned to the vPacketGenerator to communicate with the

vFirewall

vsn\_private\_ip\_0:  
type: string  
label: vSink private IP address towards the protected network  
description: Private IP address that is assigned to the vSink to communicate with the vFirewall

vsn\_private\_ip\_1:  
type: string  
label: vSink private IP address towards the ONAP management network  
description: Private IP address that is assigned to the vSink to communicate with ONAP

components

vfw\_name\_0:  
type: string  
label: vFirewall name  
description: Name of the vFirewall

vsn\_name\_0:  
type: string  
label: vSink name  
description: Name of the vSink

vnf\_id:  
type: string  
label: VNF ID  
description: The VNF ID is provided by ONAP

vf\_module\_id:  
type: string  
label: vFirewall module ID  
description: The vFirewall Module ID is provided by ONAP

dcae\_collector\_ip:  
type: string  
label: DCAE collector IP address  
description: IP address of the DCAE collector

dcae\_collector\_port:  
type: string  
label: DCAE collector port  
description: Port of the DCAE collector

key\_name:  
type: string  
label: Key pair name  
description: Public/Private key pair name

pub\_key:  
type: string  
label: Public key  
description: Public key to be installed on the compute instance

install\_script\_version:  
type: string  
label: Installation script version number  
description: Version number of the scripts that install the vFW demo app

demo\_artifacts\_version:  
type: string  
label: Artifacts version used in demo vnfs  
description: Artifacts (jar, tar.gz) version used in demo vnfs

nexus\_artifact\_repo:  
type: string  
description: Root URL for the Nexus repository for Maven artifacts.  
default: "https://nexus.onap.org"

cloud\_env:  
type: string  
label: Cloud environment  
description: Cloud environment (e.g., openstack, rackspace)

sec\_group:  
type: string  
description: ONAP Security Group

```
#####  
#      #  
# RESOURCES #  
#      #
```

#####

resources:

random-str:  
type: OS::Heat::RandomString  
properties:  
length: 4

my\_keypair:  
type: OS::Nova::KeyPair  
properties:  
name:  
str\_replace:  
template: base\_rand  
params:  
base: { get\_param: key\_name }  
rand: { get\_resource: random-str }  
public\_key: { get\_param: pub\_key }  
save\_private\_key: false

unprotected\_private\_network:  
type: OS::Neutron::Net  
properties:  
name: { get\_param: unprotected\_private\_net\_id }

unprotected\_private\_subnet:  
type: OS::Neutron::Subnet  
properties:  
name: { get\_param: unprotected\_private\_subnet\_id }  
network\_id: { get\_resource: unprotected\_private\_network }  
cidr: { get\_param: unprotected\_private\_net\_cidr }

protected\_private\_network:  
type: OS::Neutron::Net  
properties:  
name: { get\_param: protected\_private\_net\_id }

protected\_private\_subnet:  
type: OS::Neutron::Subnet  
properties:  
name: { get\_param: protected\_private\_subnet\_id }  
network\_id: { get\_resource: protected\_private\_network }  
cidr: { get\_param: protected\_private\_net\_cidr }

# Virtual Firewall instantiation

vfw\_private\_0\_port:  
type: OS::Neutron::Port  
properties:  
network: { get\_resource: unprotected\_private\_network }  
fixed\_ips: [{"subnet": { get\_resource: unprotected\_private\_subnet }, "ip\_address": { get\_param:  
vfw\_private\_ip\_0 }}]  
security\_groups:

- { get\_param: sec\_group }

vfw\_private\_1\_port:

type: OS::Neutron::Port

properties:

allowed\_address\_pairs: [{ "ip\_address": { get\_param: vpg\_private\_ip\_0 } }]

network: { get\_resource: protected\_private\_network }

fixed\_ips: [{"subnet": { get\_resource: protected\_private\_subnet }, "ip\_address": { get\_param: vfw\_private\_ip\_1 } }]

security\_groups:

- { get\_param: sec\_group }

vfw\_private\_2\_port:

type: OS::Neutron::Port

properties:

network: { get\_param: onap\_private\_net\_id }

fixed\_ips: [{"subnet": { get\_param: onap\_private\_subnet\_id }, "ip\_address": { get\_param: vfw\_private\_ip\_2 } }]

security\_groups:

- { get\_param: sec\_group }

vfw\_0:

type: OS::Nova::Server

properties:

image: { get\_param: image\_name }

flavor: { get\_param: flavor\_name }

name: { get\_param: vfw\_name\_0 }

key\_name: { get\_resource: my\_keypair }

networks:

- network: { get\_param: public\_net\_id }

- port: { get\_resource: vfw\_private\_0\_port }

- port: { get\_resource: vfw\_private\_1\_port }

- port: { get\_resource: vfw\_private\_2\_port }

metadata: {vnf\_id: { get\_param: vnf\_id }, vf\_module\_id: { get\_param: vf\_module\_id } }

user\_data\_format: RAW

user\_data:

str\_replace:

params:

\_\_dcae\_collector\_ip\_\_ : { get\_param: dcae\_collector\_ip }

\_\_dcae\_collector\_port\_\_ : { get\_param: dcae\_collector\_port }

\_\_demo\_artifacts\_version\_\_ : { get\_param: demo\_artifacts\_version }

\_\_install\_script\_version\_\_ : { get\_param: install\_script\_version }

\_\_vfw\_private\_ip\_0\_\_ : { get\_param: vfw\_private\_ip\_0 }

\_\_vfw\_private\_ip\_1\_\_ : { get\_param: vfw\_private\_ip\_1 }

\_\_vfw\_private\_ip\_2\_\_ : { get\_param: vfw\_private\_ip\_2 }

\_\_unprotected\_private\_net\_cidr\_\_ : { get\_param: unprotected\_private\_net\_cidr }

\_\_protected\_private\_net\_cidr\_\_ : { get\_param: protected\_private\_net\_cidr }

\_\_onap\_private\_net\_cidr\_\_ : { get\_param: onap\_private\_net\_cidr }

\_\_cloud\_env\_\_ : { get\_param: cloud\_env }

\_\_nexus\_artifact\_repo\_\_ : { get\_param: nexus\_artifact\_repo }

template: |

#!/bin/bash

```

# Create configuration files
mkdir /opt/config
echo "__dcae_collector_ip__" > /opt/config/dcae_collector_ip.txt
echo "__dcae_collector_port__" > /opt/config/dcae_collector_port.txt
echo "__demo_artifacts_version__" > /opt/config/demo_artifacts_version.txt
echo "__install_script_version__" > /opt/config/install_script_version.txt
echo "__vfw_private_ip_0__" > /opt/config/vfw_private_ip_0.txt
echo "__vfw_private_ip_1__" > /opt/config/vfw_private_ip_1.txt
echo "__vfw_private_ip_2__" > /opt/config/vfw_private_ip_2.txt
echo "__unprotected_private_net_cidr__" > /opt/config/unprotected_private_net_cidr.txt
echo "__protected_private_net_cidr__" > /opt/config/protected_private_net_cidr.txt
echo "__onap_private_net_cidr__" > /opt/config/onap_private_net_cidr.txt
echo "__cloud_env__" > /opt/config/cloud_env.txt
echo "__nexus_artifact_repo__" > /opt/config/nexus_artifact_repo.txt

# Download and run install script
apt-get update
apt-get -y install unzip
if [[ "__install_script_version__" =~ "SNAPSHOT" ]]; then REPO=snapshots; else
REPO=releases; fi
curl -k -L "__nexus_artifact_repo__/service/local/artifact/maven/redirect?r=${
{REPO}}&g=org.onap.demo.vnf.vfw&a=vfw-scripts&e=zip&v=__install_script_version__" -o
/opt/vfw-scripts-__install_script_version__.zip
unzip -j /opt/vfw-scripts-__install_script_version__.zip -d /opt v_firewall_install.sh
cd /opt
chmod +x v_firewall_install.sh
./v_firewall_install.sh

# Virtual Sink instantiation
vsn_private_0_port:
  type: OS::Neutron::Port
  properties:
    network: { get_resource: protected_private_network }
    fixed_ips: [{"subnet": { get_resource: protected_private_subnet }, "ip_address": { get_param:
vsn_private_ip_0 }}]
  security_groups:
    - { get_param: sec_group }

vsn_private_1_port:
  type: OS::Neutron::Port
  properties:
    network: { get_param: onap_private_net_id }
    fixed_ips: [{"subnet": { get_param: onap_private_subnet_id }, "ip_address": { get_param:
vsn_private_ip_1 }}]
  security_groups:
    - { get_param: sec_group }

vsn_0:
  type: OS::Nova::Server
  properties:

```

```

image: { get_param: image_name }
flavor: { get_param: flavor_name }
name: { get_param: vsn_name_0 }
key_name: { get_resource: my_keypair }
networks:
  - network: { get_param: public_net_id }
  - port: { get_resource: vsn_private_0_port }
  - port: { get_resource: vsn_private_1_port }
metadata: { vnf_id: { get_param: vnf_id }, vf_module_id: { get_param: vf_module_id } }
user_data_format: RAW
user_data:
  str_replace:
    params:
      __protected_net_gw__: { get_param: vfw_private_ip_1 }
      __unprotected_net__: { get_param: unprotected_private_net_cidr }
      __install_script_version__: { get_param: install_script_version }
      __vsn_private_ip_0__: { get_param: vsn_private_ip_0 }
      __vsn_private_ip_1__: { get_param: vsn_private_ip_1 }
      __protected_private_net_cidr__: { get_param: protected_private_net_cidr }
      __onap_private_net_cidr__: { get_param: onap_private_net_cidr }
      __cloud_env__: { get_param: cloud_env }
      __nexus_artifact_repo__: { get_param: nexus_artifact_repo }
    template: |
      #!/bin/bash

      # Create configuration files
      mkdir /opt/config
      echo "__protected_net_gw__" > /opt/config/protected_net_gw.txt
      echo "__unprotected_net__" > /opt/config/unprotected_net.txt
      echo "__install_script_version__" > /opt/config/install_script_version.txt
      echo "__vsn_private_ip_0__" > /opt/config/vsn_private_ip_0.txt
      echo "__vsn_private_ip_1__" > /opt/config/vsn_private_ip_1.txt
      echo "__protected_private_net_cidr__" > /opt/config/protected_private_net_cidr.txt
      echo "__onap_private_net_cidr__" > /opt/config/onap_private_net_cidr.txt
      echo "__cloud_env__" > /opt/config/cloud_env.txt
      echo "__nexus_artifact_repo__" > /opt/config/nexus_artifact_repo.txt

      # Download and run install script
      apt-get update
      apt-get -y install unzip
      if [[ "__install_script_version__" =~ "SNAPSHOT" ]]; then REPO=snapshots; else
REPO=releases; fi
      curl -k -L "__nexus_artifact_repo__/service/local/artifact/maven/redirect?r=${
{REPO}}&g=org.onap.demo.vnf.vfw&a=vfw-scripts&e=zip&v=__install_script_version__" -o
/opt/vfw-scripts-__install_script_version__.zip
      unzip -j /opt/vfw-scripts-__install_script_version__.zip -d /opt v_sink_install.sh
      cd /opt
      chmod +x v_sink_install.sh
      ./v_sink_install.sh
', parameters={vf_module_id=246c38b8-d7e7-47d9-8db2-6f1ce1f37d69, vnf_id=8f4a7d73-c6a3-
49dc-96f1-48ba9526566c}, timeoutMinutes=120, environment='parameters:
cloud_env: "PUT openstack OR rackspace HERE"

```

```
dcae_collector_ip: "10.0.4.1"
dcae_collector_port: "8081"
demo_artifacts_version: "1.3.0-SNAPSHOT"
flavor_name: "PUT THE VM FLAVOR NAME HERE (m1.medium suggested)"
image_name: "PUT THE VM IMAGE NAME HERE (UBUNTU 1404)"
install_script_version: "1.3.0-SNAPSHOT"
key_name: "vfw_key"
nexus_artifact_repo: "https://nexus.onap.org"
onap_private_net_cidr: "10.0.0/16"
onap_private_net_id: "PUT THE ONAP PRIVATE NETWORK NAME HERE"
onap_private_subnet_id: "PUT THE ONAP PRIVATE NETWORK NAME HERE"
protected_private_net_cidr: "192.168.20.0/24"
protected_private_net_id: "zdfw1fwl01_protected"
protected_private_subnet_id: "zdfw1fwl01_protected_sub"
pub_key: "PUT YOUR KEY HERE"
public_net_id: "PUT THE PUBLIC NETWORK ID HERE"
sec_group: "PUT THE ONAP SECURITY GROUP HERE"
unprotected_private_net_cidr: "192.168.10.0/24"
unprotected_private_net_id: "zdfw1fwl01_unprotected"
unprotected_private_subnet_id: "zdfw1fwl01_unprotected_sub"
vf_module_id: "vFirewallCL"
vfw_name_0: "zdfw1fwl01fwl01"
vfw_private_ip_0: "192.168.10.100"
vfw_private_ip_1: "192.168.20.100"
vfw_private_ip_2: "10.0.100.1"
vnf_id: "vFirewall_demo_app"
vpg_private_ip_0: "192.168.10.200"
vsn_name_0: "zdfw1fwl01snk01"
vsn_private_ip_0: "192.168.20.250"
vsn_private_ip_1: "10.0.100.3"
', disableRollback='true', files=null}
2018-11-30T04:48:37.679Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
org.onap.so.openstack.utils.MsoMulticloudUtils - ERROR making multicloud JSON body
com.fasterxml.jackson.databind.JsonMappingException: No content to map due to end-of-input
at [Source: ; line: 1, column: 0]
    at
com.fasterxml.jackson.databind.JsonMappingException.from(JsonMappingException.java:270)
    at com.fasterxml.jackson.databind.ObjectMapper._initForReading(ObjectMapper.java:3854)
    at
com.fasterxml.jackson.databind.ObjectMapper._readMapAndClose(ObjectMapper.java:3799)
    at com.fasterxml.jackson.databind.ObjectMapper.readTree(ObjectMapper.java:2397)
    at
org.onap.so.openstack.utils.MsoMulticloudUtils.createStack(MsoMulticloudUtils.java:191)
    at
org.onap.so.openstack.utils.MsoMulticloudUtils.instantiateVdu(MsoMulticloudUtils.java:660)
    at
org.onap.so.adapters.vnf.MsoVnfPluginAdapterImpl.createVfModule(MsoVnfPluginAdapterImpl.java:1098)
    at org.onap.so.adapters.vnf.MsoVnfPluginAdapterImpl$$FastClassBySpringCGLIBS
$2ff25d29.invoke(<generated>)
    at org.springframework.cglib.proxy.MethodProxy.invoke(MethodProxy.java:204)
```

```
at
org.springframework.aop.framework.CglibAopProxy$CglibMethodInvocation.invokeJoinpoint(CglibAopProxy.java:736)
at
org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:157)
at
org.springframework.transaction.interceptor.TransactionInterceptor$1.proceedWithInvocation(TransactionInterceptor.java:99)
at
org.springframework.transaction.interceptor.TransactionAspectSupport.invokeWithinTransaction(TransactionAspectSupport.java:282)
at
org.springframework.transaction.interceptor.TransactionInterceptor.invoke(TransactionInterceptor.java:96)
at
org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:179)
at
org.springframework.aop.framework.CglibAopProxy$DynamicAdvisedInterceptor.intercept(CglibAopProxy.java:671)
at org.onap.so.adapters.vnf.MsoVnfPluginAdapterImpl$$EnhancerBySpringCGLIB$$25f9c99.createVfModule(<generated>)
at
org.onap.so.adapters.vnf.VnfAdapterRestV2$CreateVfModuleTask.run(VnfAdapterRestV2.java:445)
at java.lang.Thread.run(Thread.java:748)
2018-11-30T04:48:37.681Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
o.onap.so.logging.jaxrs.filter.SpringClientFilter - Could not Target Entity: http://so-catalog-db-adapter.onap:8082/cloudSite/RegionOne
2018-11-30T04:48:37.682Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
o.onap.so.logging.jaxrs.filter.SpringClientFilter - =====request
begin=====
2018-11-30T04:48:37.683Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
o.onap.so.logging.jaxrs.filter.SpringClientFilter - URI : http://so-catalog-db-adapter.onap:8082/cloudSite/RegionOne
2018-11-30T04:48:37.684Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
o.onap.so.logging.jaxrs.filter.SpringClientFilter - Method : GET
2018-11-30T04:48:37.695Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
o.onap.so.logging.jaxrs.filter.SpringClientFilter - Headers : {Accept=[application/hal+json], Content-Length=[0], Content-Type=[application/hal+json], X-ONAP-RequestID=[232e716e-d92b-4dd3-bd4c-8a5bf9bb165b], X-ONAP-InvocationID=[null], X-ONAP-PartnerName=[SO]}
2018-11-30T04:48:37.697Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
o.onap.so.logging.jaxrs.filter.SpringClientFilter - Request body:
2018-11-30T04:48:37.700Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
o.onap.so.logging.jaxrs.filter.SpringClientFilter - =====request
end=====
2018-11-30T04:48:37.787Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
o.onap.so.logging.jaxrs.filter.SpringClientFilter - =====response
begin=====
2018-11-30T04:48:37.787Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
o.onap.so.logging.jaxrs.filter.SpringClientFilter - Status code : 200
```

```
2018-11-30T04:48:37.788Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
o.onap.so.logging.jaxrs.filter.SpringClientFilter - Status text :
2018-11-30T04:48:37.788Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
o.onap.so.logging.jaxrs.filter.SpringClientFilter - Headers : {X-Application-
Context=[application:8082], X-Content-Type-Options=[nosniff], X-XSS-Protection=[1;
mode=block], Cache-Control=[no-cache, no-store, max-age=0, must-revalidate], Pragma=[no-
cache], Expires=[0], X-Frame-Options=[DENY], Content-
Type=[application/hal+json;charset=UTF-8], Transfer-Encoding=[chunked], Date=[Fri, 30 Nov
2018 04:48:37 GMT]}
2018-11-30T04:48:37.790Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|
o.onap.so.logging.jaxrs.filter.SpringClientFilter - Response body: {
  "id" : "RegionOne",
  "identityService" : {
    "id" : "DEFAULT_KEYSTONE",
    "handler" : { },
    "identityServerTypeAsString" : "KEYSTONE",
    "hibernateLazyInitializer" : { },
    "identity_url" : "http://msb-iag.onap:80/api/multicloud-
titaniumcloud/v1/openstack/RegionOne/infra_workload",
    "mso_id" : "onap",
    "mso_pass" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "admin_tenant" : "service",
    "member_role" : "admin",
    "tenant_metadata" : true,
    "identity_server_type" : "KEYSTONE",
    "identity_authentication_type" : "USERNAME_PASSWORD",
    "last_updated_by" : "FLYWAY",
    "creation_timestamp" : "2018-11-29T11:24:10.000+0000",
    "update_timestamp" : "2018-11-29T11:24:10.000+0000"
  },
  "uri" : null,
  "region_id" : "RegionOne",
  "aic_version" : "2.5",
  "cli" : "RegionOne",
  "platform" : null,
  "orchestrator" : "multicloud",
  "cloudify_id" : null,
  "identity_service_id" : "DEFAULT_KEYSTONE",
  "last_updated_by" : "FLYWAY",
  "creation_timestamp" : "2018-11-29T11:24:10.000+0000",
  "update_timestamp" : "2018-11-29T11:24:10.000+0000",
  "_links" : {
    "self" : {
      "href" : "http://so-catalog-db-adapter.onap:8082/cloudSite/RegionOne"
    },
    "cloudSite" : {
      "href" : "http://so-catalog-db-adapter.onap:8082/cloudSite/RegionOne"
    }
  }
}
```

2018-11-30T04:48:37.791Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
o.onap.so.logging.jaxrs.filter.SpringClientFilter - =====response  
end=====

2018-11-30T04:48:37.807Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
org.onap.so.openstack.utils.MsoMulticloudUtils - Multicloud Endpoint is: http://msb-  
iag.onap:80/api/multicloud-titaniumcloud/v1/openstack/RegionOne/infra\_workload

2018-11-30T04:48:37.808Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
org.onap.so.openstack.utils.MsoMulticloudUtils - Multicloud Endpoint is: http://msb-  
iag.onap:80/api/multicloud-titaniumcloud/v1/openstack/RegionOne/infra\_workload

2018-11-30T04:48:38.401Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
o.o.so.logging.jaxrs.filter.PayloadLoggingFilter - Making POST request to: http://msb-  
iag.onap:80/api/multicloud-titaniumcloud/v1/openstack/RegionOne/infra\_workload  
Request Headers: { Authorization=[Basic YnBlbDpwYXNzd29yZDEk], content-  
type=[application/json], Accept=[application/json], X-ONAP-RequestID=[232e716e-d92b-4dd3-  
bd4c-8a5bf9bb165b], X-ONAP-InvocationID=[c621944a-5099-4db3-8ca4-942a720cdf1], X-  
ONAP-PartnerName=[SO]}

2018-11-30T04:48:38.480Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
o.o.so.logging.jaxrs.filter.PayloadLoggingFilter - {"generic-vnf-id":"8f4a7d73-c6a3-49dc-96f1-  
48ba9526566c","vf-module-id":"246c38b8-d7e7-47d9-8db2-6f1ce1f37d69"}

2018-11-30T04:48:38.745Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
o.o.so.logging.jaxrs.filter.PayloadLoggingFilter - Response from POST: http://msb-  
iag.onap:80/api/multicloud-titaniumcloud/v1/openstack/RegionOne/infra\_workload  
Response Headers: { connection=[keep-alive], content-type=[text/html], Date=[Fri, 30 Nov 2018  
04:48:38 GMT], Server=[openresty], transfer-encoding=[chunked], Vary=[Cookie], X-Frame-  
Options=[SAMEORIGIN]}<h1>Server Error (500)</h1>

2018-11-30T04:48:38.796Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
org.onap.so.openstack.utils.MsoMulticloudUtils - StackInfo to convert: { }

2018-11-30T04:48:38.796Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
org.onap.so.openstack.utils.MsoMulticloudUtils - HeatStatus = FAILED msg = Internal Server  
Error

2018-11-30T04:48:38.797Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
org.onap.so.openstack.utils.MsoMulticloudUtils - Stack Status: FAILED

2018-11-30T04:48:38.797Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
org.onap.so.openstack.utils.MsoMulticloudUtils - Stack Status Message: Internal Server Error

2018-11-30T04:48:38.805Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
org.onap.so.adapters.vnf.MsoVnfPluginAdapterImpl - VF Module firewall successfully created

2018-11-30T04:48:39.449Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
org.onap.so.adapters.vnf.BpelRestClient - Sending response to BPEL: <?xml version="1.0"  
encoding="UTF-8" standalone="yes"?>  
<createVfModuleResponse>  
 <messageId>232e716e-d92b-4dd3-bd4c-8a5bf9bb165b-1543553309470</messageId>  
 <rollback>  
 <cloudSiteId>RegionOne</cloudSiteId>  
 <messageId>232e716e-d92b-4dd3-bd4c-8a5bf9bb165b-1543553309470</messageId>  
 <mode>CFY</mode>  
 <msoRequest>  
 <requestId>232e716e-d92b-4dd3-bd4c-8a5bf9bb165b</requestId>  
 <serviceInstanceId>0a928ed4-a8d7-48d4-8540-149a5903f158</serviceInstanceId>  
 </msoRequest>  
 <tenantId>5b8f3d1ff09c40ae890811ddc44cca23</tenantId>

```
<vfModuleCreated>true</vfModuleCreated>
<vfModuleId>246c38b8-d7e7-47d9-8db2-6f1ce1f37d69</vfModuleId>
<vfModuleStackId></vfModuleStackId>
<vnfId></vnfId>
</rollback>
<vfModuleCreated>true</vfModuleCreated>
<vfModuleId>246c38b8-d7e7-47d9-8db2-6f1ce1f37d69</vfModuleId>
<vfModuleOutputs/>
<vfModuleStackId></vfModuleStackId>
<vnfId>8f4a7d73-c6a3-49dc-96f1-48ba9526566c</vnfId>
</createVfModuleResponse>
```

2018-11-30T04:48:39.449Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
org.onap.so.adapters.vnf.BpelRestClient - Sending to BPEL server: http://so-bpmn-  
infra.onap:8081/mso/WorkflowMessage/VNFAResponse/232e716e-d92b-4dd3-bd4c-  
8a5bf9bb165b-1543553309470

2018-11-30T04:48:39.450Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
org.onap.so.adapters.vnf.BpelRestClient - Content is: <?xml version="1.0" encoding="UTF-8"  
standalone="yes"?>

```
<createVfModuleResponse>
  <messageId>232e716e-d92b-4dd3-bd4c-8a5bf9bb165b-1543553309470</messageId>
  <rollback>
    <cloudSiteId>RegionOne</cloudSiteId>
    <messageId>232e716e-d92b-4dd3-bd4c-8a5bf9bb165b-1543553309470</messageId>
    <mode>CFY</mode>
    <msoRequest>
      <requestId>232e716e-d92b-4dd3-bd4c-8a5bf9bb165b</requestId>
      <serviceInstanceId>0a928ed4-a8d7-48d4-8540-149a5903f158</serviceInstanceId>
    </msoRequest>
    <tenantId>5b8f3d1ff09c40ae890811ddc44cca23</tenantId>
    <vfModuleCreated>true</vfModuleCreated>
    <vfModuleId>246c38b8-d7e7-47d9-8db2-6f1ce1f37d69</vfModuleId>
    <vfModuleStackId></vfModuleStackId>
    <vnfId></vnfId>
  </rollback>
  <vfModuleCreated>true</vfModuleCreated>
  <vfModuleId>246c38b8-d7e7-47d9-8db2-6f1ce1f37d69</vfModuleId>
  <vfModuleOutputs/>
  <vfModuleStackId></vfModuleStackId>
  <vnfId>8f4a7d73-c6a3-49dc-96f1-48ba9526566c</vnfId>
</createVfModuleResponse>
```

2018-11-30T04:48:46.053Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
org.onap.so.adapters.vnf.BpelRestClient - Response code from BPEL server: 204

2018-11-30T04:48:46.054Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
org.onap.so.adapters.vnf.BpelRestClient - Response body is:

2018-11-30T04:48:46.054Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|  
org.onap.so.adapters.vnf.BpelRestClient - Got response code: 204: returning.

2018-11-30T04:48:46.154Z|232e716e-d92b-4dd3-bd4c-8a5bf9bb165b|

org.onap.so.adapters.vnf.VnfAdapterRestV2 - CreateVfModuleTask exit: code=200, resp=<?xml  
version="1.0" encoding="UTF-8" standalone="yes"?>

```
<createVfModuleResponse>
```

```
<messageId>232e716e-d92b-4dd3-bd4c-8a5bf9bb165b-1543553309470</messageId>
<rollback>
  <cloudSiteId>RegionOne</cloudSiteId>
  <messageId>232e716e-d92b-4dd3-bd4c-8a5bf9bb165b-1543553309470</messageId>
  <mode>CFY</mode>
  <msoRequest>
    <requestId>232e716e-d92b-4dd3-bd4c-8a5bf9bb165b</requestId>
    <serviceInstanceId>0a928ed4-a8d7-48d4-8540-149a5903f158</serviceInstanceId>
  </msoRequest>
  <tenantId>5b8f3d1ff09c40ae890811ddc44cca23</tenantId>
  <vfModuleCreated>true</vfModuleCreated>
  <vfModuleId>246c38b8-d7e7-47d9-8db2-6f1ce1f37d69</vfModuleId>
  <vfModuleStackId></vfModuleStackId>
  <vnfId></vnfId>
</rollback>
<vfModuleCreated>true</vfModuleCreated>
<vfModuleId>246c38b8-d7e7-47d9-8db2-6f1ce1f37d69</vfModuleId>
<vfModuleOutputs/>
<vfModuleStackId></vfModuleStackId>
<vnfId>8f4a7d73-c6a3-49dc-96f1-48ba9526566c</vnfId>
</createVfModuleResponse>
```