# Sample cnSGW-C Configuration

## Sample Configuration

The following is a sample configuration.

```
show running-config
profile compliance comp1
 service nsmf-pdusession
  version uri v1
  version full 1.0.0
  version spec 15.4.0
 exit
 service namf-comm
  version uri v1
  version full 1.0.0
  version spec 15.4.0
 exit
 service n1
  version uri v1
  version full 1.0.0
  version spec 15.4.0
 exit
 service n2
  version uri v1
  version full 1.0.0
  version spec 15.4.0
 exit
 service nudm-sdm
  version uri v1
  version full 1.0.0
  version spec 15.4.0
 exit
 service nudm-uecm
  version uri v1
  version full 1.0.0
  version spec 15.4.0
 exit
 service nnrf-disc
  version uri v1
  version full 1.0.0
  version spec 15.4.0
 exit
 service nnrf-nfm
  version uri v1
```

```
     version full 1.0.0
     version spec 15.4.0
    exit
    service npcf-smpolicycontrol
     version uri v1
     version full 1.0.0
     version spec 15.4.0
    exit
    service nchf-convergedcharging
     version uri v1
     version full 1.0.0
     version spec 15.3.0
    exit
   exit
   profile network-element amf amf1
    nf-client-profile         AP1
    failure-handling-profile FH3
    query-params [ dnn ]
   exit
   profile network-element udm udm1
    nf-client-profile         UP1
    failure-handling-profile FH4
    query-params [ dnn ]
   exit
   profile network-element pcf pcf1
    nf-client-profile         PP1
    failure-handling-profile FH1
    query-params [ dnn ]
    rulebase-prefix           cbn#
    predefined-rule-prefix    crn#
   exit
   profile network-element chf chf1
    nf-client-profile         CP1
    failure-handling-profile  FH2
    query-params [ dnn ]
    nf-client-profile-offline CP2
   exit
   profile network-element chf chgser1
   exit
   profile network-element upf upf1
    node-id      upf1@sgw.com
    n4-peer-address ipv4 209.165.200.234
    n4-peer-port 8805
    dnn-list     [ cisco.com intershat starent.com ]
    capacity     65535
    priority     65535
   exit
   profile upf-group group1
    failure-profile FH1
   exit
   profile icmpv6 icmpprf1
    options virtual-mac b6:6d:57:45:45:45
   exit
   profile charging chgprf1
    method [ offline ]
   exit
   profile charging-characteristics 1
    charging-profile chgprf1
   exit
   profile failure-handling FH1
    interface pfcp
     message N4SessionEstablishmentReq
      cause-code pfcp-entity-in-congestion action retry-terminate max-retry 2
      cause-code system-failure action terminate
```

```
      cause-code service-not-supported action terminate
      cause-code no-resource-available action retry-terminate max-retry 3
      cause-code no-response-received action retry-terminate max-retry 1
      cause-code reject action terminate
     exit
     message N4SessionModificationReq
      cause-code mandatory-ie-incorrect action terminate
      cause-code session-ctx-not-found action terminate
      cause-code reject action terminate
     exit
   exit
exit
profile failure-handling gtp1
 interface gtpc message S5S8CreateBearerReq
  cause-code temp-fail
   action retry timeout 1000 max-retry 2
  exit
 exit
 interface gtpc message S5S8UpdateBearerReq
  cause-code temp-fail
   action retry timeout 1000 max-retry 2
  exit
 exit
 interface gtpc message S5S8DeleteBearerReq
  cause-code temp-fail
   action retry timeout 1000 max-retry 2
  exit
 exit
exit
profile access access1
 n26 idft enable timeout 15
 n2 idft enable timeout 15
 gtpc gtpc-failure-profile gtp1
exit
profile dnn default-profile
 network-element-profiles chf chf1
 network-element-profiles amf amf1
 network-element-profiles pcf pcf1
 network-element-profiles udm udm1
 charging-profile chgprf1
 virtual-mac      b6:6d:47:47:47:47
 ssc-mode 2 allowed [ 3 ]
 session type IPV4 allowed [ IPV6 IPV4V6 ]
 upf apn starent.com
exit
profile dnn intershat
 network-element-profiles chf chf1
 network-element-profiles amf amf1
 network-element-profiles pcf pcf1
 network-element-profiles udm udm1
 charging-profile chgprf1
 virtual-mac      b6:6d:47:47:47:47
 ssc-mode 2 allowed [ 3 ]
 session type IPV4 allowed [ IPV6 IPV4V6 ]
 upf apn intershat
 dcnr             true
exit
profile dnn intershat1
 network-element-profiles chf chf1
 network-element-profiles amf amf1
 network-element-profiles pcf pcf1
 network-element-profiles udm udm1
 charging-profile chgprf1
 virtual-mac      b6:6d:47:47:47:48
```

```
 pcscf-profile    PCSCF_Prof_2
 ssc-mode 1
 session type IPV4
exit
profile dnn intershat2
 network-element-profiles chf chf
 network-element-profiles amf amf
 network-element-profiles pcf pcf
 network-element-profiles udm udm
 charging-profile chgprf1
 virtual-mac      b6:6d:47:47:47:49
 ssc-mode 2 allowed [ 3 ]
 session type IPV4 allowed [ IPV6 IPV4V6 ]
 upf apn intershat2
exit
profile dnn starent.com
 network-element-profiles chf chf1
 network-element-profiles amf amf1
 network-element-profiles pcf pcf1
 network-element-profiles udm udm1
 charging-profile chgprf1
 virtual-mac      b6:6d:47:47:47:47
 ssc-mode 2 allowed [ 3 ]
 session type IPV4 allowed [ IPV6 IPV4V6 ]
 upf apn starent.com
exit
profile qos abc
 ambr ul "250 Kbps"
 ambr dl "500 Kbps"
 qi5      7
 arp priority-level 14
 arp preempt-cap NOT_PREEMPT
 arp preempt-vuln PREEMPTABLE
 priority 120
 max data-burst 2000
exit
profile nf-client nf-type udm
 udm-profile UP1
  locality LOC1
   priority 30
   service name type nudm-sdm
    endpoint-profile EP1
     capacity   30
     uri-scheme http
     version
      uri-version v2
      exit
     exit
     endpoint-name EP1
      primary ip-address ipv4 209.165.201.21
      primary ip-address port 8001
     exit
    exit
   exit
   service name type nudm-uecm
    endpoint-profile EP1
     capacity   30
     uri-scheme http
     endpoint-name EP1
      primary ip-address ipv4 209.165.201.21
      primary ip-address port 8001
     exit
    exit
   exit
```

```
                    service name type nudm-ee
                     endpoint-profile EP1
                      capacity       30
                      api-uri-prefix PREFIX
                      api-root       ROOT
                      uri-scheme     http
                      endpoint-name EP1
                       priority 56
                       primary ip-address ipv4 209.165.201.21
                       primary ip-address port 8001
                      exit
                     exit
                    exit
                  exit
                 exit
                exit
                profile nf-client nf-type pcf
                 pcf-profile PP1
                  locality LOC1
                   priority 30
                   service name type npcf-am-policy-control
                    endpoint-profile EP1
                     capacity   30
                     uri-scheme http
                     endpoint-name EP1
                      priority 56
                      primary ip-address ipv4 209.165.201.21
                      primary ip-address port 8003
                     exit
                    exit
                   exit
                   service name type npcf-smpolicycontrol
                    endpoint-profile EP1
                     capacity   30
                     uri-scheme http
                     endpoint-name EP1
                      priority 56
                      primary ip-address ipv4 209.165.201.21
                      primary ip-address port 8003
                     exit
                    exit
                   exit
                  exit
                 exit
                exit
                profile nf-client nf-type amf
                 amf-profile AP1
                  locality LOC1
                   priority 30
                   service name type namf-comm
                    endpoint-profile EP2
                     capacity   30
                     uri-scheme http
                     endpoint-name EP1
                      priority 56
                      primary ip-address ipv4 209.165.201.21
                      primary ip-address port 8002
                     exit
                    exit
                   exit
                  exit
                 exit
                exit
                profile nf-client nf-type chf
```

```
 chf-profile CP1
  locality LOC1
   priority 30
    service name type nchf-convergedcharging
     endpoint-profile EP1
      capacity   30
      uri-scheme http
      version
       uri-version v2
       exit
      exit
      endpoint-name EP1
       priority 56
       primary ip-address ipv4 209.165.201.21
       primary ip-address port 8004
      exit
     exit
    exit
   exit
 exit
 chf-profile CP2
  locality LOC1
   priority 31
    service name type nchf-convergedcharging
     endpoint-profile EP1
      capacity   30
      uri-scheme http
      version
       uri-version v2
       exit
      exit
      endpoint-name EP1
       priority 56
       primary ip-address ipv4 209.165.201.21
       primary ip-address port 9040
      exit
     exit
    exit
   exit
  exit
 exit
profile nf-pair nf-type UDM
 nrf-discovery-group udmdiscovery
 locality client  LOC1
 locality preferred-server LOC1
 locality geo-server GEO
exit
profile nf-pair nf-type AMF
 nrf-discovery-group udmdiscovery
 locality client  LOC1
 locality preferred-server LOC1
 locality geo-server GEO
exit
profile nf-pair nf-type PCF
 nrf-discovery-group udmdiscovery
 locality client  LOC1
 locality preferred-server LOC1
 locality geo-server GEO
exit
profile nf-pair nf-type UPF
 nrf-discovery-group udmdiscovery
 locality client  LOC1
 locality preferred-server LOC1
 locality geo-server GEO
```

```
                        exit
                        profile nf-pair nf-type CHF
                         nrf-discovery-group udmdiscovery
                         locality client  LOC1
                         locality preferred-server LOC1
                         locality geo-server GEO
                        exit
                        profile nf-client-failure nf-type udm
                         profile failure-handling FH4
                          service name type nudm-sdm
                           message type UdmSdmGetUESMSubscriptionData
                            status-code httpv2 403
                             retry  3
                             action retry-and-ignore
                            exit
                            status-code httpv2 404
                             action continue
                            exit
                            status-code httpv2 413
                             retry  3
                             action retry-and-continue
                            exit
                            status-code httpv2 501,504
                             retry  3
                             action retry-and-terminate
                            exit
                            status-code httpv2 503
                             action terminate
                            exit
                           exit
                           message type UdmSdmSubscribeToNotification
                            status-code httpv2 403
                             retry  3
                             action retry-and-ignore
                            exit
                            status-code httpv2 404
                             action continue
                            exit
                            status-code httpv2 413
                             retry  3
                             action retry-and-continue
                            exit
                            status-code httpv2 501,504
                             retry  3
                             action retry-and-terminate
                            exit
                            status-code httpv2 503
                             action terminate
                            exit
                           exit
                          exit
                          service name type nudm-uecm
                           message type UdmUecmRegisterSMF
                            status-code httpv2 403
                             retry  3
                             action retry-and-ignore
                            exit
                            status-code httpv2 404
                             action continue
                            exit
                            status-code httpv2 413
                             retry  3
                             action retry-and-continue
                            exit
```

```
               status-code httpv2 501,504
                retry  3
                action retry-and-terminate
               exit
               status-code httpv2 503
                action terminate
               exit
              exit
             exit
            exit
          exit
         profile nf-client-failure nf-type pcf
          profile failure-handling FH1
            service name type npcf-smpolicycontrol
             message type PcfSmpolicycontrolCreate
              status-code httpv2 0,403
               action retry-and-ignore
              exit
              status-code httpv2 400
               action continue
              exit
              status-code httpv2 404
               action terminate
              exit
              status-code httpv2 500
               retry  2
               action retry-and-ignore
              exit
              status-code httpv2 503
               retry  2
               action retry-and-continue
              exit
             exit
             message type PcfSmpolicycontrolUpdate
              status-code httpv2 0,403
               action retry-and-ignore
              exit
              status-code httpv2 400
               action continue
              exit
              status-code httpv2 404
               action terminate
              exit
              status-code httpv2 500
               retry  2
               action retry-and-ignore
              exit
              status-code httpv2 503
               retry  2
               action retry-and-continue
              exit
             exit
             message type PcfSmpolicycontrolDelete
              status-code httpv2 0,403
               action retry-and-ignore
              exit
              status-code httpv2 400
               action continue
              exit
              status-code httpv2 404
               action terminate
              exit
              status-code httpv2 500
               retry  2
```

```
      action retry-and-ignore
     exit
     status-code httpv2 503
      retry  2
      action retry-and-continue
     exit
    exit
   exit
  exit
exit
profile nf-client-failure nf-type chf
 profile failure-handling FH2
  service name type nchf-convergedcharging
   message type ChfConvergedchargingCreate
    status-code httpv2 0,500,504
     action continue
    exit
    status-code httpv2 400,404
     retry  3
     action retry-and-terminate
    exit
    status-code httpv2 403
     retry  3
     action retry-and-ignore
    exit
    status-code httpv2 503
     action terminate
    exit
   exit
   message type ChfConvergedchargingUpdate
    status-code httpv2 0,500,504
     action continue
    exit
    status-code httpv2 400,404
     retry  3
     action retry-and-terminate
    exit
    status-code httpv2 403
     retry  3
     action retry-and-ignore
    exit
    status-code httpv2 503
     action terminate
    exit
   exit
   message type ChfConvergedchargingDelete
    status-code httpv2 0,500,504
     action continue
    exit
    status-code httpv2 400,404
     retry  3
     action retry-and-terminate
    exit
    status-code httpv2 403
     retry  3
     action retry-and-ignore
    exit
    status-code httpv2 503
     action terminate
    exit
   exit
  exit
 exit
exit
```

```
profile smf smf1
 locality      LOC1
 allowed-nssai [ slice1 ]
 plmn-id mcc 123
 plmn-id mnc 456
 service name nsmf-pdu
  type             pdu-session
  schema           http
  service-id       1
  version          1.Rn.0.0
  http-endpoint base-url http://smf-service
  icmpv6-profile     icmpprf1
  compliance-profile comp1
  access-profile     access1
  subscriber-policy  polSub
 exit
exit
profile sgw sgw1
 sgw-charging-threshold thre1
 sgw-charging-profile   ch1
 locality               LOC2
 fqdn                   cisco.com.apn.epc.mnc456.mcc123
 charging-mode          gtpp
exit
profile sgw-charging-threshold thre1
 cc profile value 1
  volume total 100000
  buckets  1
  duration 60
 exit
 cc profile value 2
  volume uplink 100000
  volume downlink 100000
  buckets  1
  duration 120
 exit
exit
profile sgw-charging-profile ch1
 gtpp-triggers volume-limit enable
 gtpp-triggers time-limit enable
 gtpp-profile pf1
exit
profile gtpp-profile pf1 gtpp
 local-storage
  file
   rotation
    volume        5
    cdr-count     1000
    time-interval 60
   exit
   name
    prefix              NYPCF508
    format              .%Y-%m-%d%H-%M-%S.%4Q
    max-file-seq-num    4
    start-file-seq-num  1
    recover-file-seq-num false
   exit
   purge-processed-files purge-interval 10
   format custom5
  exit
  push
   encrypted-url
"$8$6vhjkoHt8RL2noFs/ON6ZJavTDzwGS2KUn/YqlBzgkezFmx5SzvnARYzAdVacCSyCirYOvcC\nTFnHpBNim3QY3Q=="
```

```
        exit
       exit
       dictionary custom24
      exit
      policy subscriber polSub
       precedence 1
        sst                02
        sdt                Abf123
        serving-plmn mcc 123
        serving-plmn mnc 456
        supi-start-range 100000000000001
        supi-stop-range  999999999999999
        gpsi-start-range 1000000000
        gpsi-stop-range  9999999999
        operator-policy  opPol1
       exit
       precedence 511
        operator-policy defOprPol1
       exit
      exit
      policy operator defOprPol1
       policy dnn          defPolDnn
       policy network-capability nc1
      exit
      policy operator opPol1
       policy dnn          polDnn
       policy network-capability nc1
      exit
      policy dnn defPolDnn
       profile default-profile
       dnn dnn2 profile profile2
       dnn intershat profile intershat
       dnn intershat1 profile intershat1
       dnn starent.com profile starent.com
      exit
      policy dnn polDnn
       profile default-profile
       dnn dnn2 profile profile2
       dnn intershat profile intershat
       dnn intershat1 profile intershat1
       dnn intershat2 profile intershat2
       dnn starent.com profile starent.com
      exit
      policy network-capability nc1
       nw-support-local-address-tft true
      exit
      nssai name slice1
       sst 2
       sdt Abf123
       dnn [ dnn1 intershat intershat1 intershat2 ]
      exit
      ipam
       instance 1
        source local
        address-pool poolv4
         vrf-name ISP
         tags
          dnn starent.com
         exit
         ipv4
          split-size
           per-cache 1024
           per-dp    256
          exit
```

```
         address-range 209.165.202.129 209.165.200.253
        exit
       exit
       address-pool poolv4DNN2
        vrf-name ISP
        tags
         dnn intershat1
        exit
        ipv4
         split-size
          per-cache 1024
          per-dp    256
         exit
         address-range 209.165.200.241 209.165.200.244
        exit
       exit
       address-pool poolv4DNN3
        vrf-name ISP
        static
        tags
         dnn intershat2
        exit
        ipv4
         split-size
          per-cache 512
          per-dp    512
         exit
         address-range 209.165.200.247 209.165.200.248
        exit
        ipv6
         prefix-ranges
          split-size
           per-cache 8192
           per-dp    8192
          exit
          prefix-range 2002:db0:: length 48
         exit
        exit
       exit
       address-pool poolv4vDNN
        vrf-name ISP
        tags
         dnn intershat1
        exit
        ipv4
         split-size
          per-cache 1024
          per-dp    256
         exit
         address-range 209.165.200.245 209.165.200.244
        exit
       exit
       address-pool poolv6
        vrf-name ISP
        tags
         dnn intershat
        exit
        ipv6
         prefix-ranges
          split-size
           per-cache 8192
           per-dp    1024
          exit
          prefix-range 2001:db0:: length 48
```

```
     exit
    exit
   exit
  address-pool poolv6DNN2
   vrf-name ISP
   tags
    dnn intershat1
   exit
   ipv6
    prefix-ranges
     split-size
      per-cache 8192
      per-dp    1024
     exit
     prefix-range 2001:ef0:: length 48
    exit
   exit
  exit
  address-pool poolv6vDNN
   vrf-name ISP
   tags
    dnn intershat1
   exit
   ipv6
    prefix-ranges
     split-size
      per-cache 8192
      per-dp    1024
     exit
     prefix-range 2001:ab0:: length 48
    exit
   exit
  exit
 exit
exit
cdl system-id          1
cdl enable-geo-replication true
cdl deployment-model   small
cdl zookeeper replica 1
cdl remote-site 2
 db-endpoint host 209.165.202.157
 db-endpoint port 8882
 kafka-server 209.165.202.157 10001
 exit
exit
cdl datastore session
 geo-remote-site [ 2 ]
 slice-names     [ cnSGW1 cnSGW2 ]
 endpoint replica 1
 endpoint external-ip 209.165.202.156
 endpoint external-port 8882
 index map     1
 index write-factor 1
 slot replica 1
 slot map     1
 slot write-factor 1
 features instance-aware-notification enable true
 features instance-aware-notification system-id 1
  slice-names [ cnSGW1 ]
 exit
 features instance-aware-notification system-id 2
  slice-names [ cnSGW2 ]
 exit
exit
```

```
cdl kafka replica 1
cdl kafka external-ip 209.165.202.156 10001
exit
etcd replicas 1
instance instance-id 1
 endpoint li
  replicas 1
  vip-ip 209.165.200.237
 exit
 endpoint nodemgr
  replicas 1
  nodes    1
 exit
 endpoint gtp
  replicas 1
  interface s5
   vip-ip 209.165.201.11
  exit
  interface s5e
   vip-ip 209.165.201.21
  exit
  interface s11
   vip-ip 209.165.200.237
  exit
 exit
 endpoint pfcp
  replicas 1
  interface sxa
   heartbeat
    interval 0
   exit
  exit
  interface n4
   heartbeat
    interval               0
    retransmission-timeout 3
    max-retransmissions    5
   exit
  exit
 exit
 endpoint radius-dns
  replicas 1
  vip-ip 209.165.201.21
 exit
 endpoint service
  replicas 1
 exit
 endpoint protocol
  replicas      1
  internal-vip 209.165.201.11
  vip-ip 209.165.201.21
  interface sxa
   vip-ip 209.165.201.21
  exit
  interface n4
   vip-ip 209.165.201.11
  exit
 exit
 endpoint gtpprime
  replicas 2
  nodes    1
 exit
 endpoint sgw-service
  replicas 1
```

```
            exit
            endpoint geo
             replicas 1
             nodes     2
             interface geo-internal
              vip-ip 209.165.200.233 vip-port 7001
             exit
             interface geo-external
              vip-ip 209.165.200.234 vip-port 7002
             exit
            exit
            endpoint sbi
             replicas 1
             vip-ip 209.165.201.21
            exit
            endpoint bgpspeaker
             replicas 1
             nodes     2
            exit
           exit
           instance instance-id 2
            endpoint li
             replicas 1
             vip-ip 209.165.200.238
            exit
            endpoint nodemgr
             replicas 1
             nodes     1
            exit
            endpoint gtp
             replicas 1
             interface s5
              vip-ip 209.165.201.12
             exit
             interface s5e
              vip-ip 209.165.201.141
             exit
             interface s11
              vip-ip 209.165.200.238
             exit
            exit
            endpoint pfcp
             replicas 1
             interface sxa
              heartbeat
               interval 0
              exit
             exit
             interface n4
              heartbeat
               interval                0
               retransmission-timeout 3
               max-retransmissions     5
              exit
             exit
            exit
            endpoint radius-dns
             replicas 1
             vip-ip 209.165.201.141
            exit
            endpoint service
             replicas 1
            exit
            endpoint protocol
```

```
           replicas     1
           internal-vip 209.165.201.11
           vip-ip 209.165.201.141
           interface sxa
            vip-ip 209.165.201.141
           exit
           interface n4
            vip-ip 209.165.201.12
           exit
         exit
         endpoint gtpprime
          replicas 2
          nodes     1
         exit
         endpoint sgw-service
          replicas 1
         exit
         endpoint geo
          replicas 1
          nodes     2
          interface geo-internal
           vip-ip 209.165.200.235 vip-port 7001
          exit
          interface geo-external
           vip-ip 209.165.200.236 vip-port 7002
          exit
         exit
         endpoint sbi
          replicas 1
          vip-ip 209.165.201.141
         exit
         endpoint bgpspeaker
          replicas 1
          nodes     2
         exit
        exit
        logging level application debug
        logging level transaction debug
        logging level tracing debug
        logging name gtpp-ep0.application.config level application debug
        logging name gtpp-ep0.application.gen level application trace
        logging name gtpp-ep1.application.config level application debug
        logging name gtpp-ep1.application.gen level application trace
        logging name infra.cdr.core level application debug
        logging name infra.cdr_sftp.core level application debug
        logging name infra.config.core level application trace
        logging name infra.config.core level transaction trace
        logging name infra.config.core level tracing off
        logging name infra.message_log.core level transaction trace
        router bgp 65061
         bfd interval 250000 min_rx 250000 multiplier 3
         interface v4001
          neighbor 209.165.202.131 remote-as 65060 fail-over bfd
         exit
         policy-name allow-all ip-prefix 209.165.201.30/0 mask-range 0..32
        exit
        deployment
         app-name     smf
         cluster-name Local
         dc-name      DC
         model        small
        exit
        k8 label protocol-layer key disktype value ssd
        exit
```

```
geomonitor podmonitor pods bgpspeaker-pod
 retryCount               1
 retryInterval            200
 retryFailOverInterval 200
 failedReplicaPercent  40
exit
geomonitor podmonitor pods gtpp-ep
 retryCount               1
 retryInterval            200
 retryFailOverInterval 200
 failedReplicaPercent  40
exit
geomonitor podmonitor pods li-ep
 retryCount               1
 retryInterval            200
 retryFailOverInterval 200
 failedReplicaPercent  40
exit
geomonitor podmonitor pods sgw-service
 retryCount               1
 retryInterval            200
 retryFailOverInterval 200
 failedReplicaPercent  40
exit
instances instance 1
 system-id  DCNAME001
 cluster-id CLUSTER0001
 slice-name cnSGW1
exit
instances instance 2
 system-id  DCNAME002
 cluster-id CLUSTER0002
 slice-name cnSGW2
exit
local-instance instance 1
system mode running
helm default-repository cn
helm repository cn
 access-token
sgw-deployer.gen:AKCp8ihVrCfvm9puwTSt8oKGK6HxP1Fn8sLY5fzqWyR3NhrBmjjJrUHaxfZD3ziQpiLkAy1Q3
 url
https://engci-maven-master.cisco.com/artifactory/smi-fuse-internal-snapshot/mobile-cnat-cn/cn-products/rel-2021.02/
exit
k8s name              cn
k8s namespace         cn
k8s nf-name           smf
k8s registry          dockerhub.cisco.com/smi-fuse-docker-internal
k8s single-node       true
k8s use-volume-claims true
k8s image-pull-secrets regcred
k8s ingress-host-name 209.165.200.235.nip.io
aaa authentication users user admin
 uid        117
 gid        117
 password   $1$g8J36yTY$1g/tM5a9pdsGMnKcspnxD.
 ssh_keydir /tmp/admin/.ssh
 homedir    /tmp/admin
exit
aaa ios level 0
 prompt "\h> "
exit
aaa ios level 15
 prompt "\h# "
exit
```

```
aaa ios privilege exec
 level 0
  command action
  exit
  command autowizard
  exit
  command enable
  exit
  command exit
  exit
  command help
  exit
  command startup
  exit
 exit
 level 15
  command configure
  exit
 exit
exit
nacm write-default deny
nacm groups group LI
 user-name [ liadmin ]
exit
nacm groups group LI2
 user-name [ liadmin2 ]
exit
nacm groups group LI3
 user-name [ liadmin3 ]
exit
nacm groups group admin
 user-name [ admin ]
exit
nacm rule-list admin
 group [ admin ]
 rule li-deny-tap
  module-name       lawful-intercept
  path              /lawful-intercept
  access-operations *
  action            deny
 exit
 rule li-deny-clear
  module-name       tailf-mobile-smf
  path              /clear/lawful-intercept
  access-operations *
  action            deny
 exit
 rule any-access
  action permit
 exit
exit
nacm rule-list confd-api-manager
 group [ confd-api-manager ]
 rule any-access
  action permit
 exit
exit
nacm rule-list ops-center-security
 group [ * ]
 rule change-self-password
  module-name       ops-center-security
  path              /smiuser/change-self-password
  access-operations exec
  action            permit
```

```
 exit
 rule smiuser
  module-name       ops-center-security
  path              /smiuser
  access-operations exec
  action            deny
 exit
exit
nacm rule-list lawful-intercept
 group [ LI LI2 LI3 ]
 rule li-accept-tap
  module-name       lawful-intercept
  path              /lawful-intercept
  access-operations *
  action            permit
 exit
 rule li-accept-clear
  module-name       tailf-mobile-smf
  path              /clear/lawful-intercept
  access-operations *
  action            permit
 exit
exit
nacm rule-list any-group
 group [ * ]
 rule li-deny-tap
  module-name       lawful-intercept
  path              /lawful-intercept
  access-operations *
  action            deny
 exit
 rule li-deny-clear
  module-name       tailf-mobile-smf
  path              /clear/lawful-intercept
  access-operations *
  action            deny
 exit
exit
```