

Sample cnSGW-C Configuration

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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
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
```