



## Sample PCF Configuration

- [Sample Configuration File, on page 1](#)

### Sample Configuration File

The following is only a sample configuration file provided solely for your reference. You must create and modify your own configuration file according to the specific needs of your deployment.



#### Important

The mandatory parameters are required to ensure that the critical pods such as CRD and Policy Engine are in the running state.

```
config
datastore primary-endpoint connection-settings keep-alive keep-alive-time-ms 200
datastore primary-endpoint connection-settings channel count 4
datastore primary-endpoint connection-settings timeout-ms 300
ldap replicas 2
ldap server-set USD
search-user dn cn=sdcUser,dc=C-NTDB
search-user password siemens
health-check interval-ms 10000
health-check dn cn=sdcUser,dc=C-NTDB
health-check filter msisdn=918369110173
health-check attributes napCustType
initial-connections 10
max-connections 10
retry-count 2
retry-timer-ms 100
max-failover-connection-age-ms 60000
binds-per-second 0.2
number-consecutive-timeouts-for-bad-connection 2
missing-attribute-result-code 32
connection 192.0.2.18 389
  priority 400
  connection-rule ROUND_ROBIN
  auto-reconnect true
  timeout-ms 200
  bind-timeout-ms 3000
exit
connection 192.0.2.18 389
  priority 400
  connection-rule ROUND_ROBIN
```

```

    auto-reconnect true
    timeout-ms 200
    bind-timeout-ms 3000
  exit
exit
//This is a mandatory parameter
db global-settings db-replica 3
//This is a mandatory parameter
db spr shard-count 1
db balance shard-count 1
debug tracing type DISABLED
debug splunk hec-url http://192.0.2.18:6066
debug splunk hec-token efd41999-fa22-1111-aca7-2222fb36c6af
debug splunk batch-interval-ms 100
debug splunk batch-count 10
debug splunk batch-size-bytes 102400
debug logging default-level error
diameter settings timeouts-ms dpa 5000
diameter application rx
  application-id 16777236
  tgpp-application true
  vendor [ 10415 ]
exit
diameter group rx-pcf01-protol
  mode server
  stack rx
  application rx
  bind-ip 192.0.2.18
  bind-port 3868
  fqdn pcf-rx-server-1
  realm pcf.rx.server.cisco.com
  node-host pcf01-protocol01
  exit
exit
diameter group rx-pcf01-PROTO2
  mode server
  stack rx
  application rx
  bind-ip 192.0.2.18
  bind-port 3868
  fqdn pcf-rx-server-2
  realm pcf.rx.server.cisco.com
  node-host pcf01-protocol02
  exit
exit
//This is a mandatory parameter
rest-endpoint ips [ 192.0.2.18 192.0.2.19 192.0.2.20 ]
//This is a mandatory parameter
rest-endpoint port 9088
rest-endpoint tracing-service-name pcf-rest-endpoint
rest-endpoint replicas 2
rest-endpoint interface n28
  ip [ 192.0.2.18 ]
  exit
rest-endpoint interface n7
  ip [ 192.0.2.19 ]
  exit
rest-endpoint interface nnrf
  ip [ 192.0.2.20 ]
  exit
advance-tuning overload-control rest global limits max-requests-per-sec 5000
advance-tuning overload-control rest global action throttle-action REJECT
advance-tuning overload-control diameter global limits max-requests-per-sec 5000
advance-tuning overload-control diameter global action throttle-action DROP

```

```
advance-tuning async-threading request-timeout-ms 300
api unified engine-group pcf01production
//This is a mandatory parameter
engine pcf01production
//This is a mandatory parameter
  replicas 2
//This is a mandatory parameter
  unified-api-replicas 1
//This is a mandatory parameter
  subversion-run-url http://svn/repos/run
//This is a mandatory parameter
  subversion-config-url http://svn/repos/configuration
//This is a mandatory parameter
  tracing-service-name pcf-engine
  grpc port 5005
  grpc externalIPs [ 192.0.2.21 ]
  properties com.cisco.engine.log.type
    value 2
  exit
properties disableCommandClient
  value true
  exit
properties ldap.retry.time.ms
  value 200
  exit
exit
label protocol-layer key smi.cisco.com/node-type
label protocol-layer value protocol
label service-layer key smi.cisco.com/node-type
label service-layer value service
label cdl-layer key smi.cisco.com/node-type
label cdl-layer value session
label oam-layer key smi.cisco.com/node-type
label oam-layer value oam
profile nf-client nf-type chf
  chf-profile chprofile
  locality locchfl
  priority 10000
  service name type nchf-spendinglimitcontrol
  endpoint-profile chf-profile
    capacity 10
    priority 10
    uri-scheme http
    version
    uri-version v1
    exit
  exit
  endpoint-name ep1
    primary ip-address ipv4 192.0.2.22
    primary ip-address port 5088
  exit
  exit
  exit
  exit
  exit
profile nf-pair nf-type CHF
  nrf-discovery-group discoveryGroup
  subscription-enabled false
  subscription-extension 3
  locality client pcf01
  locality preferred-server loc1
  locality geo-server loc2
  exit
```

```
//This is a mandatory parameter
service-registration profile locality pcf01
//This is a mandatory parameter
service-registration profile plmn-list 100 010
//This is a mandatory parameter
exit
//This is a mandatory parameter
service-registration profile plmn-list 123 456
//This is a mandatory parameter
exit
//This is a mandatory parameter
service-registration profile snssais 1
//This is a mandatory parameter
sd 123456
exit
group nf-mgmt group1
nrf-mgmt-group registerGroup
locality pcf01
failover sla 100
reconnect interval 60000
exit
group nrf discovery discoveryGroup
service type nrf nnrf-disc
endpoint-profile discoveryProfile
capacity 10
priority 10
uri-scheme http
version
uri-version v1
exit
exit
endpoint-name ep1
priority 1
capacity 10
primary ip-address ipv4 192.0.2.12
primary ip-address port 8183
secondary ip-address ipv4 192.0.2.12
secondary ip-address port 8184
tertiary ip-address ipv4 192.0.2.12
tertiary ip-address port 8185
exit
exit
exit
group nrf mgmt registerGroup
service type nrf nnrf-nfm
endpoint-profile registerProfile
capacity 20
priority 10
uri-scheme http
version
uri-version v1
exit
exit
endpoint-name ep1
priority 1
capacity 10
primary ip-address ipv4 192.0.2.12
primary ip-address port 8183
secondary ip-address ipv4 192.0.2.12
secondary ip-address port 8184
tertiary ip-address ipv4 192.0.2.12
tertiary ip-address port 8185
exit
```

```
    exit
  exit
exit
cdl system-id 1
cdl node-type session
cdl zookeeper data-storage-size 1
cdl zookeeper log-storage-size 1
cdl zookeeper replica 3
cdl logging default-log-level warn
cdl datastore session
  cluster-id 1
  endpoint replica 4
  index map 4
  slot replica 2
  slot map 10
  slot notification limit 10
exit
cdl kafka replica 3
cdl kafka storage 1
end
```

