

CLSRSC-119: Start of the exclusive mode cluster failed While Running root.sh While Installing Grid Infrastructure 19c (Doc ID 2568395.1)

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APPLIES TO:

Oracle Database - Enterprise Edition - Version 12.1.0.2 to 19.5.0.0.0 [Release 12.1 to 19]

Information in this document applies to any platform.

SYMPTOMS

While installing / configuring Oracle Grid Infrastructure 19c, specifically while running root.sh, the error "**CLSRSC-119: Start of the exclusive mode cluster failed**" is encountered as follows:

```
#<GRID_HOME>/root.sh
.
.
2019/12/17 02:00:00 CLSRSC-594: Executing installation step 16 of 19: 'InitConfig'.
CRS-2672: Attempting to start 'ora.evmd' on '<HOSTNAME1>'
CRS-2672: Attempting to start 'ora.mdnsd' on '<HOSTNAME1>'
CRS-2676: Start of 'ora.mdnsd' on '<HOSTNAME1>' succeeded
CRS-2676: Start of 'ora.evmd' on '<HOSTNAME1>' succeeded
CRS-2672: Attempting to start 'ora.gpnpd' on '<HOSTNAME1>'
CRS-2676: Start of 'ora.gpnpd' on '<HOSTNAME1>' succeeded
CRS-2672: Attempting to start 'ora.cssdmonitor' on '<HOSTNAME1>'
CRS-2672: Attempting to start 'ora.gipcd' on '<HOSTNAME1>'
CRS-2676: Start of 'ora.cssdmonitor' on '<HOSTNAME1>' succeeded
CRS-2674: Start of 'ora.gipcd' on '<HOSTNAME1>' failed
CRS-2673: Attempting to stop 'ora.cssdmonitor' on '<HOSTNAME1>'
CRS-2677: Stop of 'ora.cssdmonitor' on '<HOSTNAME1>' succeeded
CRS-2673: Attempting to stop 'ora.gpnpd' on '<HOSTNAME1>'
CRS-2677: Stop of 'ora.gpnpd' on '<HOSTNAME1>' succeeded
CRS-2673: Attempting to stop 'ora.mdnsd' on '<HOSTNAME1>'
CRS-2677: Stop of 'ora.mdnsd' on '<HOSTNAME1>' succeeded
CRS-2673: Attempting to stop 'ora.evmd' on '<HOSTNAME1>'
CRS-2677: Stop of 'ora.evmd' on '<HOSTNAME1>' succeeded
CRS-4000: Command Start failed, or completed with errors.
2019/12/17 02:01:50 CLSRSC-119: Start of the exclusive mode cluster failed
Died at <GRID_HOME>/crs/install/crsinstall.pm line 2439.
```

gipcd.trc under <ORACLE_BASE>/diag/crs/<HOSTNAME>/crs/trace folder location have following messages

```
2018-12-17 02:00:57.057 : default:617420544: Initied LSF context: 0x7f96080c0360
2018-12-17 02:00:57.066 : CLSCRED:617420544: clsCredCommonInit: Initied singleton credctx.
2018-12-17 02:00:57.067 : GIPCTLS:617420544: gipcmoTlsGetWalletObjFromCred: using rootCredDomName: NULL,
baseCredDomName:nodecert
2018-12-17 02:00:57.074 : GIPCTLS:617420544: gipcmoTlsGetWalletObjFromCred: found base dom: nodecert
2018-12-17 02:00:57.081 :GIPCXCPT:617420544: gipcmoTlsGetWalletObjFromCred: invalid certificate count[! = 1]in
credSet:0, ret gipcretBadArg (37)
2018-12-17 02:00:57.082 : default:617420544: clsCredDomClose: Credctx deleted 0x7f960812ea20
```

```
2018-12-17 02:00:57.082 :GIPCXCPT:617420544: gipcListenF [gipcdNodeThread : gipcdNodeThread.c : 5433]:  
EXCEPTION[ ret gipcretBadArg (37) ] failed to listen on endp 0x7f96080add80 [0000000000000052c] { gipcEndpoint :  
localAddr'gipcha://<HOSTNAME1>:gipcdha_<HOSTNAME1>_', remoteAddr "", numPend 1, numReady 0, numDone 0,  
numDead 0, numTransfer 0, objFlags 0x0, pidPeer 0, readyRef (nil), ready 0, wobj 0x7f9608128fc0, sendp (nil) status  
13flags 0x20038602,  
flags-2 0x10, usrFlags 0x0 }, flags 0x0  
2018-12-17 02:00:57.082 :GIPCDNDE:617420544: gipcdNodeThread: gipcListen() failed (37) on endp  
0000000000000052c  
2018-12-17 02:00:57.082 :GIPCDNDE:617420544: gipcdNodeThreadShutdown: deleting all the peer connections  
2018-12-17 02:00:57.082 : GIPCTLS:617420544: gipcmmodTlsDisconnect: [tls] disconnect issued on endp  
0x7f96080add80 [0000000000000052c] { gipcEndpoint : localAddr  
'gipcha://<HOSTNAME1>:gipcdha_<HOSTNAME1>_', remoteAddr "", numPend  
1, numReady 0, numDone 0, numDead 0, numTransfer 0, objFlags 0x0, pidPeer 0, readyRef (nil), ready 0, wobj  
0x7f9608128fc0, sendp (nil) status 13flags 0x26038602, flags-2 0x10, usrFlags 0x0 }
```

CHANGES

New installation / configuration of Oracle Grid Infrastructure 19c.

CAUSE

In 19c, GIPC is unable to accommodate larger (> 15 characters) cluster names and this results in a failure to start Oracle Grid Infrastructure while running root.sh. Cluster_name length can be verified from rootcrs_<HOSTNAME>_<TIMESTAMP>.log like below sample entry

```
2018-12-17 01:56:17: CLUSTER_NAME=<Cluster name with > 15 characters>
```

Reference:

BUG 29113384 - LNX64-19.2-CDB:ROOT.SH FAILED ON FIRST NODE IF CLUSTER_NAME > 15 CHARACTERS
-- duplicates --
BUG 28628631 - LNX-191-INS: LONG CLUSTER NAME WILL CAUSE FAILED ROOT CONFIGURATION

SOLUTION

The fix for the code defect bug 28628631 has been included in version 18.8.0.0.0 onwards.

Or, as a workaround choose cluster name smaller than 15 characters.

REFERENCES

[NOTE:2028511.1](#) - 12.1.0.2 Grid Infrastructure Stack not Start due to .pid file issues

[NOTE:1949541.1](#) - ora.gipcd not starting due to wrong ownership/permission

[NOTE:28628631.8](#) - Bug 28628631 - LINUX 19.1 - Install CRS : Long Cluster Name Will Cause Failure of "root"
Configuration with Error INS-32123

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