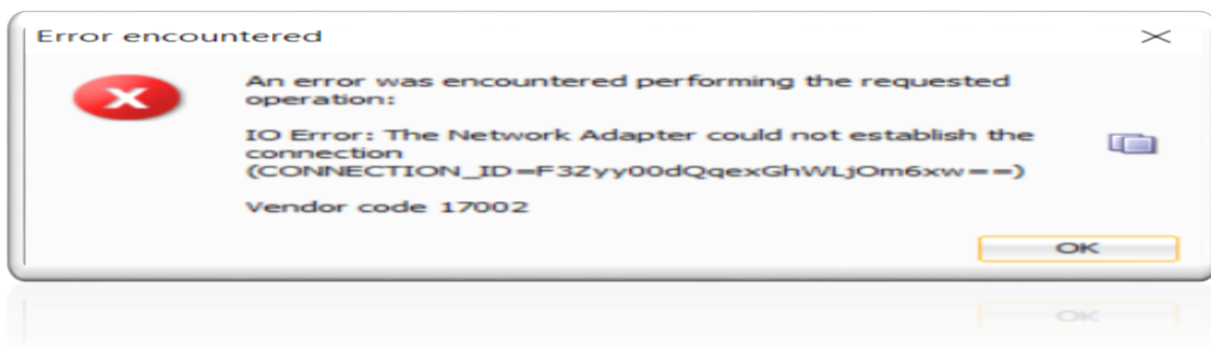


IO Error: The Network Adapter could not establish the connection

Problem description:

After installing oracle database 19C on oracle linux 7.9 virtual machine and tried to connect through SQL developer I faced the below error:

IO Error: The Network Adapter could not establish the connection



Solution:

Login with root user on your virtual machine and check the below:

1- listener status: it is OK

```
[oracle@oraclelab1 u02]$ lsnrctl
LSNRCTL for Linux: Version 19.0.0.0.0 - Production on 21-OCT-2023 19:04:22
Copyright (c) 1991, 2019, Oracle. All rights reserved.
Welcome to LSNRCTL, type "help" for information.

LSNRCTL> status
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=oraclelab1.localdomain.com)(PORT=1521)))
STATUS of the LISTENER
-----
Alias                LISTENER
Version              TNSLSNR for Linux: Version 19.0.0.0.0 - Production
Start Date            21-OCT-2023 18:14:27
Uptime                0 days 0 hr. 49 min. 58 sec
Trace Level           off
Security              ON: Local OS Authentication
SNMP                  OFF
Listener Parameter File /u01/app/19.0.0.0/grid/network/admin/listener.ora
Listener Log File     /u01/app/oracle/diag/tnslsnr/oraclelab1/listener/alert/log.xml
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=oraclelab1.localdomain.com)(PORT=1521)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1521)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcps)(HOST=oraclelab1.localdomain.com)(PORT=5500))(Security=(my_wallet_directory=/u01/app/oracle/admin/TESTDB/xdw_wallet))(Pres
entation=HTTP)(Session=RAW))
Services Summary...
Service "+ASM" has 1 instance(s).
  Instance "+ASM", status READY, has 1 handler(s) for this service...
Service "+ASM_ASM_FILES" has 1 instance(s).
  Instance "+ASM", status READY, has 1 handler(s) for this service...
Service "+ASM_DATA_DG1" has 1 instance(s).
  Instance "+ASM", status READY, has 1 handler(s) for this service...
Service "+ASM", status READY, has 1 handler(s) for this service...
Service "+ASM_FAST_RECOVERY" has 1 instance(s).
  Instance "+ASM", status READY, has 1 handler(s) for this service...
Service "+ASM_RED01" has 1 instance(s).
  Instance "+ASM", status READY, has 1 handler(s) for this service...
Service "+ASM_RED02" has 1 instance(s).
  Instance "+ASM", status READY, has 1 handler(s) for this service...
Service "+ASM", status READY, has 1 handler(s) for this service...
Service "TESTDB" has 1 instance(s).
  Instance "TESTDB", status READY, has 1 handler(s) for this service...
Service "TESTDBXDB" has 1 instance(s).
  Instance "TESTDB", status READY, has 1 handler(s) for this service...
The command completed successfully
LSNRCTL>
```

2- database status: it is OK

```
[oracle@oraclelab1 u02]$ sqlplus

SQL*Plus: Release 19.0.0.0.0 - Production on Sat Oct 21 19:05:43 2023
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Enter user-name: / as sysdba

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0

SQL> set lines 600
SQL> select status from v$instance;

STATUS
-----
OPEN
```

3- check tnsping status: it is OK

```
[oracle@oraclelab1 u02]$ tnsping TESTDB

TNS Ping Utility for Linux: Version 19.0.0.0.0 - Production on 21-OCT-2023 19:06:44

Copyright (c) 1997, 2019, Oracle. All rights reserved.

Used parameter files:

Used TNSNAMES adapter to resolve the alias
Attempting to contact (DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP)(HOST = oraclelab1.localdomain.com)(PORT = 1521))) (CONNECT_DATA = (SERVICE_NAME = TESTDB)))
OK (0 msec)
[oracle@oraclelab1 u02]$
```

4- finally save your day and disable the firewall on the VM as below:

systemctl status firewalld

```
[root@oraclelab1 ~]# systemctl status firewalld
● firewalld.service - firewalld - dynamic firewall daemon
   Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; vendor preset: enabled)
   Active: active (running) since Sat 2023-10-21 19:01:00 EET; 6min ago
     Docs: man:firewalld(1)
    Main PID: 11170 (firewalld)
      Tasks: 2
    CGroup: /system.slice/firewalld.service
           └─11170 /usr/bin/python2 -Es /usr/sbin/firewalld --nofork --nopid

Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete FORWARD --...hain?').
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete FORWARD --...hain?').
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete FORWARD --...hain?').
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete FORWARD --...t name.
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete FORWARD --...t name.
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete INPUT --in...hain?').
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete INPUT --in...hain?').
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete OUTPUT --o...hain?').
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete INPUT --in...hain?').
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete INPUT --in...hain?').
Hint: Some lines were ellipsized, use -l to show in full.
[root@oraclelab1 ~]#
```

systemctl | grep -i firewall

```
[root@oraclelab1 ~]# systemctl | grep -i firewall
firewalld.service                                loaded active running  firewalld - dynamic firewall daemon
[root@oraclelab1 ~]#
```

systemctl stop firewalld

```
[root@oraclelab1 ~]# systemctl stop firewalld
[root@oraclelab1 ~]# █
```

systemctl status firewalld

```
[root@oraclelab1 ~]# systemctl status firewalld
● firewalld.service - firewalld - dynamic firewall daemon
   Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; vendor preset: enabled)
   Active: inactive (dead) since Sat 2023-10-21 19:12:35 EET; 33s ago
     Docs: man:firewalld(1)
   Process: 11170 ExecStart=/usr/sbin/firewalld --nofork --nopid $FIREWALLD_ARGS (code=exited, status=0/SUCCESS)
  Main PID: 11170 (code=exited, status=0/SUCCESS)

Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete FORWARD --...hain?).
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete FORWARD --...t name.
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete FORWARD --...t name.
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete INPUT --in...hain?).
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete INPUT --in...hain?).
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete OUTPUT --o...hain?).
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete INPUT --in...hain?).
Oct 21 19:01:00 oraclelab1.localdomain.com firewalld[11170]: WARNING: COMMAND_FAILED: '/usr/sbin/iptables -w10 -w --table filter --delete INPUT --in...hain?).
Oct 21 19:12:34 oraclelab1.localdomain.com systemd[1]: Stopping firewalld - dynamic firewall daemon...
Oct 21 19:12:35 oraclelab1.localdomain.com systemd[1]: Stopped firewalld - dynamic firewall daemon.
Hint: Some lines were ellipsized, use -l to show in full.
```