

IoT-FND:無法檢查資料庫連線。例外： java.sql.SQLException:ORA-28001:密碼已過期

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簡介

本文檔介紹如何解鎖Cisco IoT Field Network Director(IoT-FND)的Oracle使用者帳戶，並將密碼到期設定更改為無限制。

必要條件

需求

思科建議您瞭解以下主題：

- 基本Linux shell操作（檢視日誌、啟動進程等）
- 對SQL查詢的基本瞭解

採用元件

本文件所述內容不限於特定軟體和硬體版本。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

背景資訊

本檔案假設您有兩個獨立的Linux伺服器：

- IoT-FND-SRV — 承載IoT FND應用程式的伺服器。
- IoT-FND-Oracle — 為IoT-FND應用程式託管Oracle資料庫的伺服器。

問題

症狀1:IoT-FND未啟動，資料庫連線驗證失敗。

```
[root@IoT-FND-SRV ~]# service cgms status
IoT-FND Version X.X.XX
08-01-2018 15:14:58 CEST: INFO: IoT-FND database server: XX.XX.XX.XX
08-01-2018 15:15:01 CEST: ERROR: IoT-FND database connection verification failed.
08-01-2018 15:15:02 CEST: ERROR: IoT-FND application server is not running.
```

症狀2:cgms_db_connection_test.log包含類似以下內容的條目：

```
[root@IoT-FND-SRV ~]# tail -n 50 /opt/cgms/server/cgms/log/cgms_db_connection_test.log
2018-08-01 12:27:22,767:INFO:main:TestDBConnection: Checking database connection. Please wait
...
2018-08-01 12:27:22,856:INFO:main:TestDBConnection: Database URL:
jdbc:oracle:thin:@XX.XX.XX.XX:1522:cgms
2018-08-01 12:27:22,856:INFO:main:TestDBConnection: Database user: cgms_dev
2018-08-01 12:27:23,156:ERROR:main:TestDBConnection: Unable to check database connection.
Exception:
java.sql.SQLException: ORA-28001: the password has expired
```

附註：IoT-FND應用程式使用CGMS_DEV資料庫使用者訪問Oracle資料庫。

附註：預設情況下，Oracle資料庫已啟用口令過期功能，因此一段時間後，帳戶口令會過期，如果不更改口令，將無法使用它們。

症狀3:Oracle CGMS_DEV使用者帳戶狀態設定為EXPIRED。

```
[oracle@IoT-FND-Oracle]$ sqlplus / as sysdba

SQL*Plus: Release 12.1.0.2.0 Production on Wed Aug 1 16:02:25 2018

Copyright (c) 1982, 2014, Oracle. All rights reserved.

Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options

SQL> SELECT USERNAME,ACCOUNT_STATUS FROM DBA_USERS WHERE USERNAME LIKE 'cg%';

USERNAME
-----
ACCOUNT_STATUS
-----
CGMSDBA
OPEN

CGMS_DEV
EXPIRED
```

解決方案

步驟1.使用SSH登入到IoT-FND伺服器。

步驟2.停止FND服務。

```
[root@IoT-FND-SRV]$ service cgms stop
```

註：如果不停止IoT-FND服務，FND將嘗試使用舊密碼連線到資料庫，帳戶將被阻止，直到您完成此過程。

步驟3.使用SSH登入Oracle伺服器。

步驟4.切換到oracle system user:

```
[root@IoT-FND-Oracle]$ su - oracle  
[oracle@IoT-FND-Oracle]$
```

步驟5.以sysdba使用者身份連線到Oracle資料庫的根例項：

```
[oracle@IoT-FND-Oracle]$ sqlplus / as sysdba
```

```
SQL*Plus: Release 12.1.0.2.0 Production on Wed Aug 1 16:19:23 2018
```

```
Copyright (c) 1982, 2014, Oracle. All rights reserved.
```

```
Connected to:
```

```
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
```

```
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options
```

```
SQL>
```

步驟6.將password_life_limit設定修改為無限制：

```
sql> ALTER PROFILE DEFAULT LIMIT PASSWORD_LIFE_TIME UNLIMITED;
```

```
Profile altered.
```

步驟7.檢查哪些帳戶的密碼已過期。

```
SQL> SELECT USERNAME,ACCOUNT_STATUS FROM DBA_USERS WHERE ACCOUNT_STATUS='EXPIRED';
```

```
USERNAME
```

```
-----  
ACCOUNT_STATUS
```

```
-----  
CGMSDBA
```

```
OPEN
```

```
CGMS_DEV
```

```
EXPIRED
```

步驟8.設定CGMS_DEV使用者的密碼：

```
sql> ALTER USER CGMS_DEV IDENTIFIED BY
```

User altered.

注意：如果您知道舊密碼，可以重複使用。如果不是，則您需要在IoT-FND伺服器上運行 **cgmsSetup.sh** 指令碼來修改FND中設定的資料庫密碼。

步驟9.解鎖CGMS_DEV使用者帳戶：

```
SQL> ALTER USER CGMS_DEV ACCOUNT UNLOCK;
```

User altered.

步驟10.驗證CGMS_使用者的帳戶狀態：

```
SQL> SELECT USERNAME,ACCOUNT_STATUS FROM DBA_USERS WHERE USERNAME LIKE 'cg%';
```

```
USERNAME
```

```
-----  
ACCOUNT_STATUS
```

```
-----  
CGMSDBA
```

```
OPEN
```

```
CGMS_DEV
```

```
OPEN
```

步驟11.使用SSH登入到IoT-FND伺服器。

步驟12.啟動/opt/cgms/bin/setupCgms.sh 指令碼更改資料庫密碼設定。保留所有其他設定及其預設值：

```
[root@IoT-FND-SRV]# /opt/cgms/bin/setupCgms.sh
```

```
08-01-2018 16:40:43 CEST: INFO: ===== IoT-FND Setup Started - 2018-08-01-16-40-43  
=====
```

```
08-01-2018 16:40:43 CEST: INFO: Log file: /opt/cgms/bin/./server/cgms/log/cgms_setup.log
```

```
Are you sure you want to setup IoT-FND (y/n)? y
```

```
08-01-2018 16:40:46 CEST: INFO: User response: y
```

```
Do you want to change the database settings (y/n)? y
```

```
08-01-2018 16:40:54 CEST: INFO: User response: y
```

```
Enter database server hostname or IP [XX.XX.XX.XX]:
```

```
08-01-2018 16:40:55 CEST: INFO: Database server: XX.XX.XX.XX
```

```
Enter database server port [1522]:
```

```
08-01-2018 16:40:57 CEST: INFO: Database server port: 1522
```

```
Enter database SID [cgms]:
```

```
08-01-2018 16:40:59 CEST: INFO: Database SID: cgms
```

```
Do you wish to configure another database server for this IoT-FND ? (y/n)? n
```

```
08-01-2018 16:41:02 CEST: INFO: User response: n
```

```
08-01-2018 16:41:02 CEST: INFO: Configuring database settings. This may take a while. Please
```

wait ...

08-01-2018 16:41:03 CEST: INFO: Database settings configured.

Do you want to change the database password (y/n)? **y**

08-01-2018 16:41:06 CEST: INFO: User response: **y**

Enter database password:

Re-enter database password:

08-01-2018 16:41:10 CEST: INFO: Configuring database password. This may take a while. Please wait ...

08-01-2018 16:41:13 CEST: INFO: Database password configured.

Do you want to change the keystore password (y/n)? **n**

08-01-2018 16:41:16 CEST: INFO: User response: **n**

Do you want to change the web application 'root' user password (y/n)? **n**

08-01-2018 16:41:19 CEST: INFO: User response: **n**

Do you want to change the FTP settings (y/n)? **n**

08-01-2018 16:41:22 CEST: INFO: User response: **n**

Do you want to change router CGDM protocol settings (y/n)? **n**

08-01-2018 16:41:24 CEST: INFO: User response: **n**

Do you want to change log file settings)? (y/n)? **n**

08-01-2018 16:41:25 CEST: INFO: User response: **n**

08-01-2018 16:41:25 CEST: INFO: ===== IoT-FND Setup Completed Successfully =====

步驟13.驗證資料庫連線：

```
[root@IoT-FND-SRV ~]# service cgms status
```

```
IoT-FND Version X.X.X-XXX
```

```
08-01-2018 16:46:14 CEST: INFO: IoT-FND database server: XX.XX.XX.XX
```

```
08-01-2018 16:46:15 CEST: INFO: IoT-FND database connection verified.
```

```
08-01-2018 16:46:15 CEST: ERROR: IoT-FND application server is not running.
```

步驟14.啟動IoT-FND應用程式：

```
[root@IoT-FND-SRV ~]# service cgms start
```

步驟15.驗證IoT-FND操作：

```
[root@IoT-FND-SRV ~]# service cgms status
```

```
IoT-FND Version X.X.X-XXX
```

08-01-2018 16:49:04 CEST: INFO: IoT-FND database server: XX.XX.XX.XX
08-01-2018 16:49:04 CEST: INFO: IoT-FND database connection verified.
08-01-2018 16:49:05 CEST: INFO: IoT-FND application server is up and running.
08-01-2018 16:49:06 CEST: INFO: IoT-FND is up and running.