

IoT-FND : 无法检查数据库连接。例外 : java.sql.SQLException : ORA-28001 : 密码 超时

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Introduction

本文描述如何取消锁定Oracle用户帐户思科IoT字段网络导控器(IoT-FND)和更改设置对无限个的密码到期。

Prerequisites

Requirements

Cisco 建议您了解以下主题：

- 基本Linux shell操作(视图日志，开始进程等)
- SQL查询基本的了解

Components Used

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment.All of the devices used in this document started with a cleared (default) configuration.如果您的网络实际，请保证您了解所有命令潜在影响。

背景信息

本文假设，您有两个独立的Linux服务器：

- IoT FND SRV -服务器该主机IoT FND应用程序。
- IoT FND Oracle -主机IoT-FND应用程序的Oracle数据库的服务器。

问题

症状1 : IoT-FND不开始 , 失败的数据库连接验证。

```
[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.
```

症状2 : cgms_db_connection_test.log包含条目类似于 :

```
[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
```

Note:IoT-FND应用程序使用CGMS_DEV数据库用户访问Oracle数据库。

Note:默认情况下 , Oracle数据库有启用的密码到期 , 因此在一些时间以后 , 帐户密码获得已到期 , 并且使用他们是不可能的 , 无需更改密码。

症状3 : Oracle CGMS_DEV用户帐户客户状态设置对已到期。

```
[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
```

解决方案

步骤1. IoT-FND服务器的洛金有SSH的。

步骤2.终止FND服务。

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

Note: 如果不终止IoT-FND服务，FND将设法连接到数据库使用旧密码，并且帐户将阻拦，直到您用此步骤完成。

步骤3.登录有SSH的Oracle服务器。

步骤4.对oracle系统用户的交换机：

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

步骤5.连接对Oracle数据库的根实例作为sysdba用户：

```
[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>
```

步骤6.设置对无限个的修改password_life_limit：

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

```
Profile altered.
```

步骤 7. 检查哪些帐户有过期密码。

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

```
USERNAME
```

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

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

```
OPEN
```

```
CGMS_DEV
```

```
EXPIRED
```

步骤8. CGMS_DEV用户的Set password：

```
sql> ALTER USER CGMS_DEV IDENTIFIED BY <new-password>;
```

User altered.

Note: 如果认识旧密码您能重新使用它。如果没有，将需要运行在IoT-FND服务器的 **cgmsSetup.sh**脚本修改在FND设置的数据库密码。

步骤9.取消锁定CGMS_DEV用户帐户：

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

User altered.

步骤10.验证CGMS_用户客户状态：

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

```
USERNAME
```

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

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

```
OPEN
```

```
CGMS_DEV
```

```
OPEN
```

步骤11. IoT-FND服务器的洛金有SSH的。

步骤 12启动更改数据库密码设置的/opt/cgms/bin/setupCgms.sh脚本。留下与他们的默认值的其他设置：

```
[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: **<enter cgms_dev database user password>**

Re-enter database password: **<repeat cgms_dev database user 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 =====

步骤 13验证数据库连接：

```
[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.
```

步骤 14启动IoT-FND应用程序：

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

步骤 15验证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.
```