# IoT-FND:无法检查数据库连接。异常: java.sql.SQLException:ORA-28001:密码已过期

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## 简介

本文档介绍如何解锁Cisco IoT Field Network Director(IoT-FND)的Oracle用户帐户,并将密码到期 设置更改为无限制。

## 先决条件

### 要求

Cisco 建议您了解以下主题:

- •基本Linux外壳操作(查看日志、启动进程等)
- •基本了解SQL查询

#### 使用的组件

本文档不限于特定的软件和硬件版本。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原 始(默认)配置。如果您的网络处于活动状态,请确保您了解所有命令的潜在影响。

## 背景信息

本文档假设您有两台独立的Linux服务器:

- IoT-FND-SRV 托管IoT FND应用的服务器。
- IoT-FND-Oracle 托管IoT-FND应用的Oracle数据库的服务器。

### 问题

症状 1:loT-FND未启动,数据库连接验证失败。

[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包含类似于的条目:

[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

注意: IoT-FND应用使用CGMS\_DEV数据库用户访问Oracle数据库。

**注意:**默认情况下,Oracle数据库启用了密码到期,因此,在一段时间后,帐户密码将过期 ,如果不更改密码,就无法使用这些密码。

症状 3:Oracle CGMS\_DEV用户帐户状态设置为"已过期"。

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

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

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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

解决方案

步骤1.使用SSH登录IoT-FND服务器。

步骤2.停止FND服务。

**注**意:如果不停止IoT-FND服务,FND将尝试使用旧密码连接到数据库,在完成此过程之前 ,帐户将被阻止。

步骤3.使用SSH登录Oracle服务器。

步骤4.切换到oracle系统用户:

[root@IoT-FND-Oracle]\$ su - oracle
[oracle@IoT-FND-Oracle]\$
步骤5.以sysdba用户身份连接到Oracle数据库的根实例:

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

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

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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.将password\_life\_limit设置修改为无限制:

sql> alter profile default limit password\_life\_time unlimited;

Profile altered. 步骤7.检查哪些帐户的密码已过期。

SQL> SELECT USERNAME, ACCOUNT\_STATUS FROM DBA\_USERS WHERE ACCOUNT\_STATUS='EXPIRED';

USERNAME

ACCOUNT\_STATUS

CGMSDBA OPEN

CGMS\_DEV EXPIRED

步骤8.为CGMS\_DEV用户设置密码:

sql> ALTER USER CGMS\_DEV IDENTIFIED BY

**注**意:如果您知道旧密码,可以重用它。如果否,则需要在IoT-FND服务器上运行 cgmsSetup.sh脚本,以修改FND中设置的数据库密码。

步骤9.解锁CGMS\_DEV用户帐户:

SQL> ALTER USER CGMS\_DEV ACCOUNT UNLOCK;

User altered.

步骤10.验证CGMS\_用户的帐户状态:

SQL> SELECT USERNAME, ACCOUNT\_STATUS FROM DBA\_USERS WHERE USERNAME LIKE 'cg%';

USERNAME

ACCOUNT\_STATUS
-----CGMSDBA
OPEN

CGMS\_DEV

OPEN

步骤11.使用SSH登录IoT-FND服务器。

步骤12.启动/opt/cgms/bin/setupCgms.sh脚本以更改数据库密码设置。保留所有其他设置的默认值 :

[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)?  $\boldsymbol{n}$ 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

[root@IoT-FND-SRV ~] # service cgms status IOT-FND Version X.X.X-XXX

[root@IoT-FND-SRV ~] # service cgms start 步骤15.检验IoT-FND操作:

#### 步骤14.启动IoT-FND应用:

[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.

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)?  $\boldsymbol{n}$ 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.检验数据库连通性:

Re-enter database password:

Enter database password:

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

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

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

wait ...

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.