

Creating and Managing Oracle Wallet

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1- Introduction

This document is based on:

- Oracle 11g (OK for 12c)

2- What is Oracle Wallet?

Oracle Wallet as a way to store the connection information to the database across multiple domains. The table below illustrates that a wallet containing content.

DB Connection String	Username	Passwod
(DESCRIPTION = (ADDRESS = (PROTOCOL = TCP)(HOST = myserver1)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_NAME = db11g)))	dev	dev001
(DESCRIPTION = (ADDRESS = (PROTOCOL = TCP)(HOST = myserver2)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_NAME = db12c)))	prod	prod123

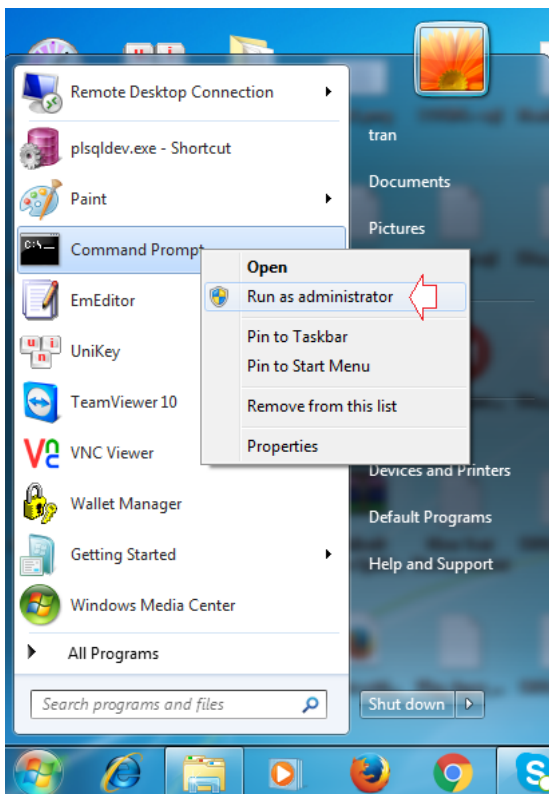
Thus **Wallet** containing the credentials so that you can access a certain database. When information about this database change, you can update the wallet. Your application can use the credentials on the Wallet to access a database instead of manually managing information.



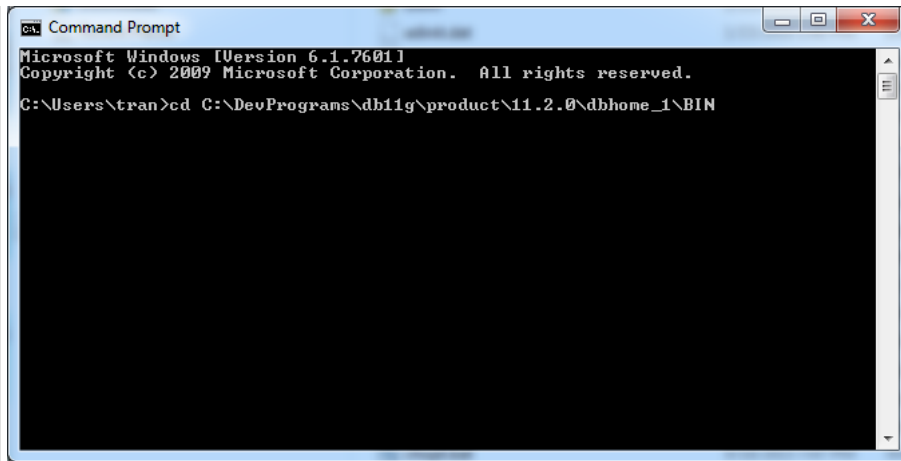
3- Wallet in Oracle 11g, 12c

3.1- Creating and Managing Wallet (11g, 12c)

You must open CMD as Administrator.



CD to BIN directory of Oracle:



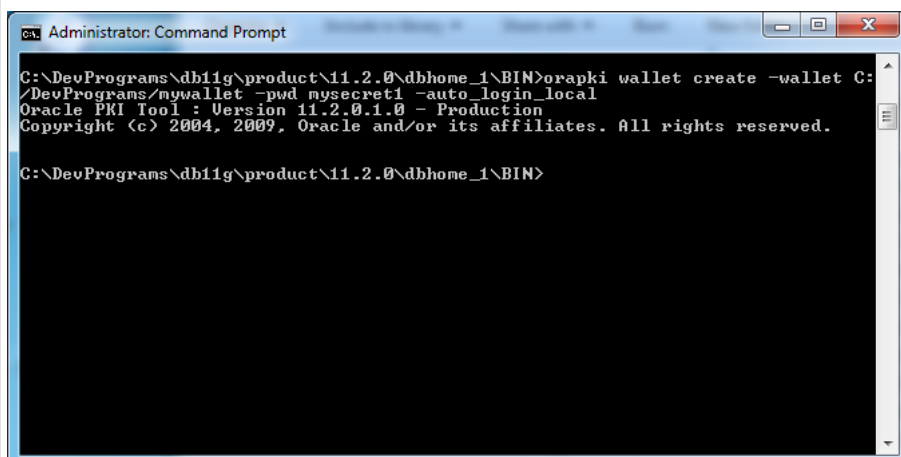
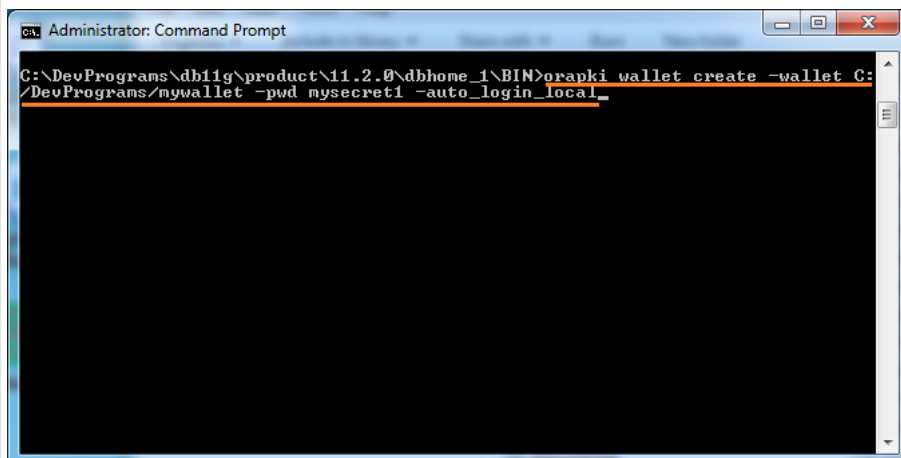
Wallets can be copied to different machines, which can represent a security risk. In 11g Release 2, you can prevent the auto login functionality of the wallet from working if it is copied to another machine by creating a local wallet using the "**orapki**" command, instead of the "**mkstore**" command.

Creating wallet with "**orapki**" command:

```

1  # wallet_location is the path to the directory where you want to create and store the wallet.
2
3
4  orapki wallet create -wallet <wallet_location> -pwd <password> -auto_login_local
5
6
7  # Example:
8
9  orapki wallet create -wallet C:/DevPrograms/mywallet -pwd mysecret1 -auto_login_local

```



Wallet was created, it consists of two files **ewallet.sso** & **ewallet.p12**

3.2- Display Wallet Information (11g,12c)

Display wallet info:

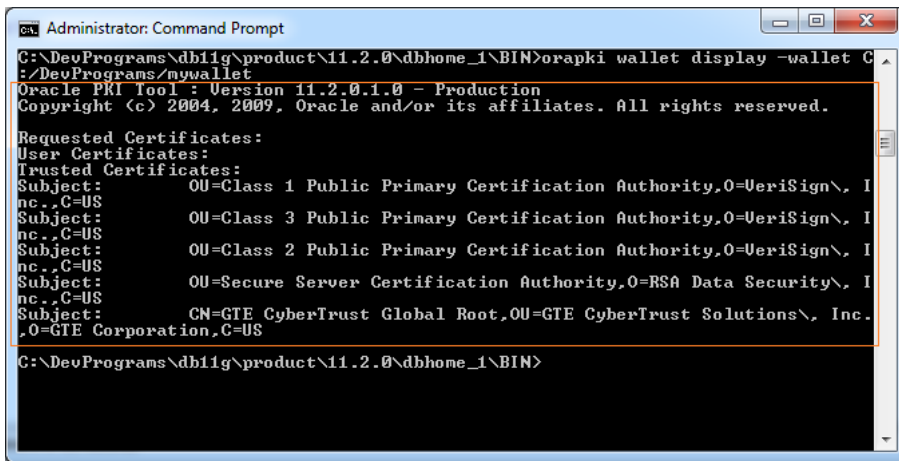
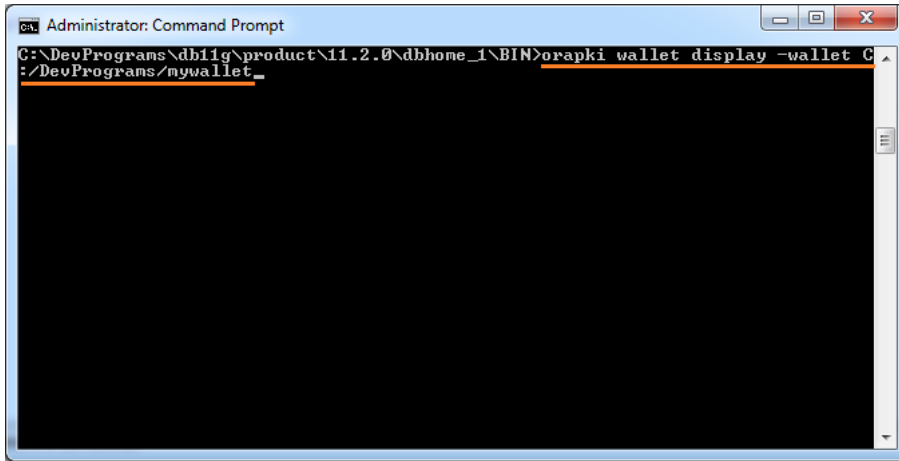
```

1  # Syntax:
2
3  orapki wallet display -wallet <wallet-location>
4
5  # Example:
6

```



```
7 | orapki wallet display -wallet C:/DevPrograms/mywallet
```



3.3- Change Wallet Password (11g,12c)

```

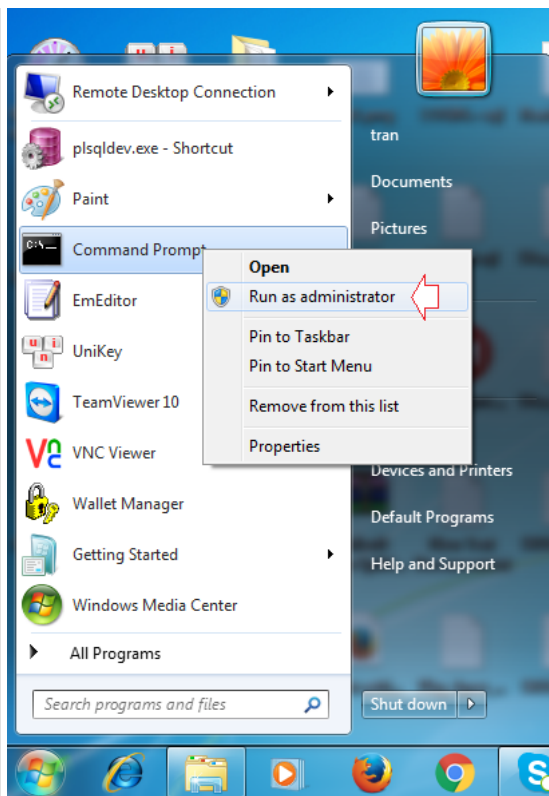
1 | # Syntax
2 |
3 | orapki wallet change_pwd -wallet <wallet-location> -oldpwd <old password> -newpwd <new password>
4 |
5 | # Example:
6 |
7 | orapki wallet change_pwd -wallet C:/DevPrograms/mywallet -oldpwd mysecret1 -newpwd mysecret2

```

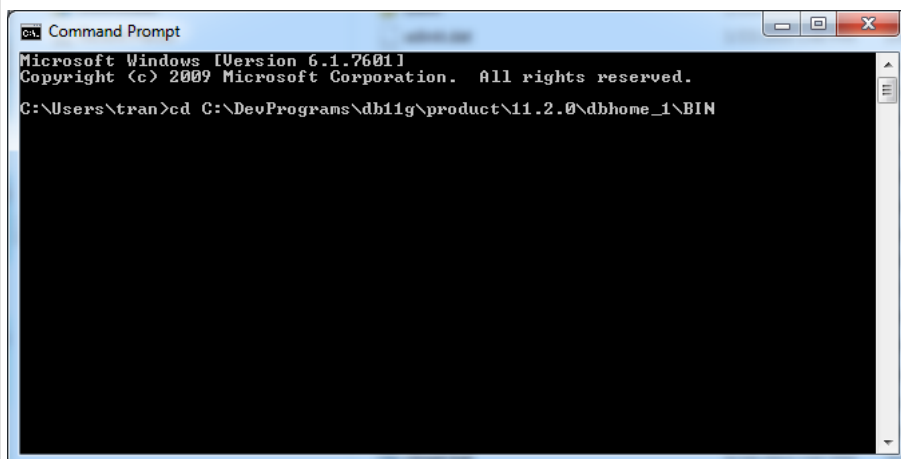
4- Wallet in Oracle 10g

4.1- Creating and Managing Wallet (10g)

You must open CMD as Administrator.



CD to BIN directory of Oracle:

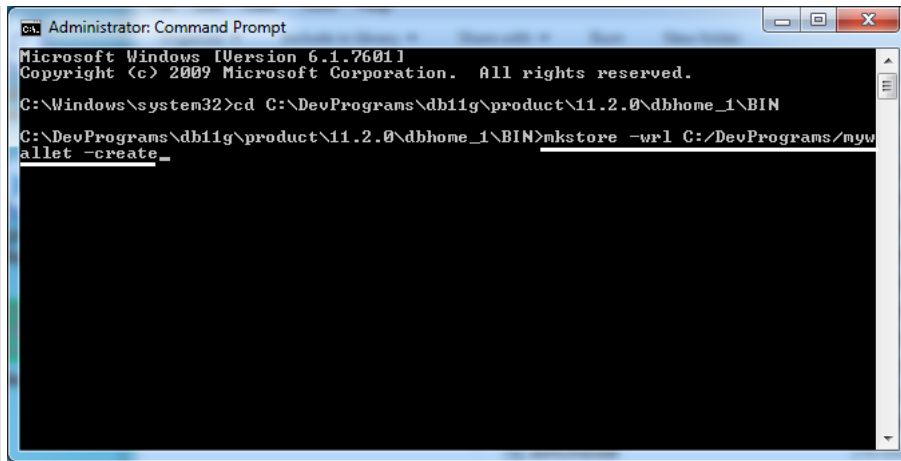


Creating wallet:

```
1 # wallet_location is the path to the directory where you want to create and store the wallet.
2
3 mkstore -wr1 <wallet_location> -create
4
5
6 # Example:
7
8 mkstore -wr1 C:/DevPrograms/mywallet -create
```

?





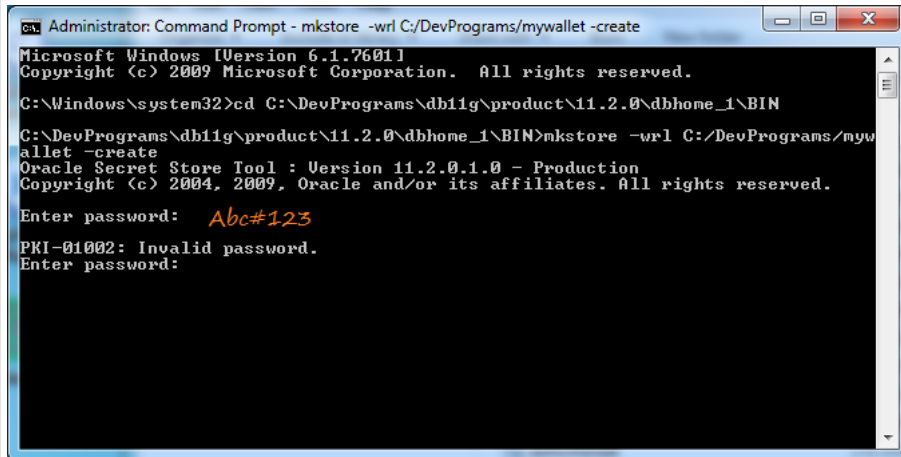
```

Administrator: Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd C:\DevPrograms\db11g\product\11.2.0\dbhome_1\BIN
C:\DevPrograms\db11g\product\11.2.0\dbhome_1\BIN>mkstore -wrl C:/DevPrograms/myw
allet -create_

```

Enter password for **wallet**:



```

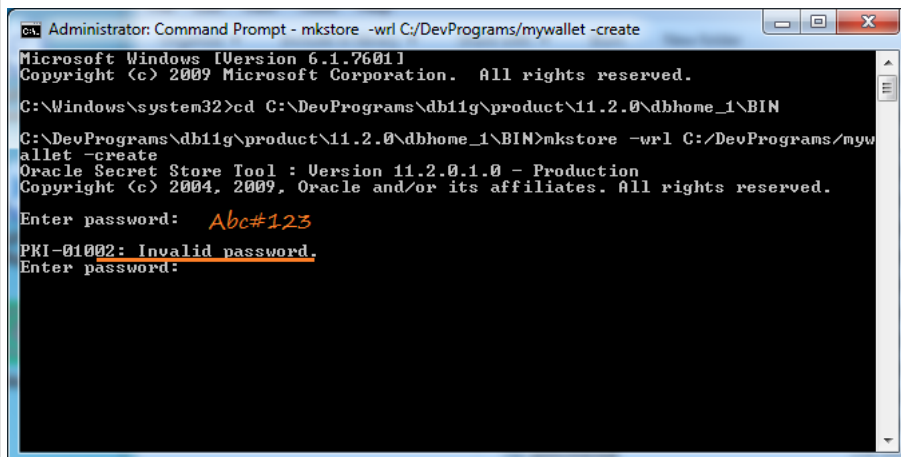
Administrator: Command Prompt - mkstore -wrl C:/DevPrograms/mywallet -create
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd C:\DevPrograms\db11g\product\11.2.0\dbhome_1\BIN
C:\DevPrograms\db11g\product\11.2.0\dbhome_1\BIN>mkstore -wrl C:/DevPrograms/myw
allet -create
Oracle Secret Store Tool : Version 11.2.0.1.0 - Production
Copyright (c) 2004, 2009, Oracle and/or its affiliates. All rights reserved.

Enter password: Abc#123
PKI-01002: Invalid password.
Enter password:

```

Note: The password you entered may not meet the standard and you will receive an error message, such as entering a password less than 8 characters.



```

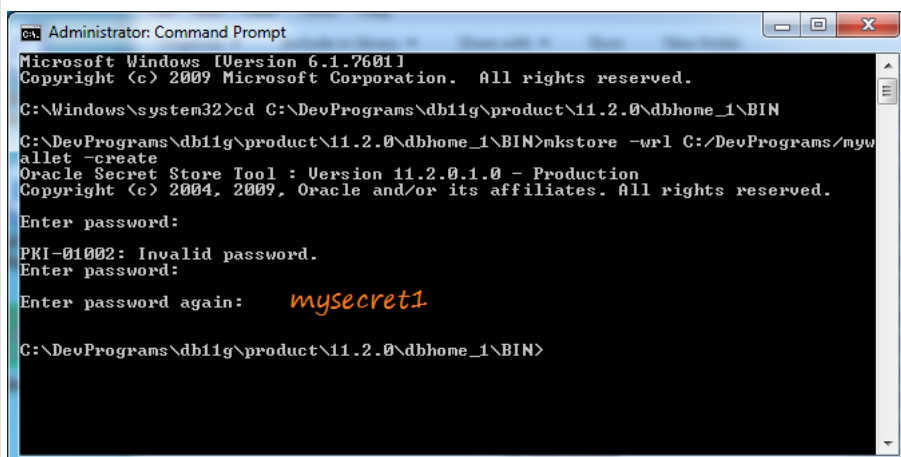
Administrator: Command Prompt - mkstore -wrl C:/DevPrograms/mywallet -create
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd C:\DevPrograms\db11g\product\11.2.0\dbhome_1\BIN
C:\DevPrograms\db11g\product\11.2.0\dbhome_1\BIN>mkstore -wrl C:/DevPrograms/myw
allet -create
Oracle Secret Store Tool : Version 11.2.0.1.0 - Production
Copyright (c) 2004, 2009, Oracle and/or its affiliates. All rights reserved.

Enter password: Abc#123
PKI-01002: Invalid password.
Enter password:

```

Re enter password: **mysecret1**



```

Administrator: Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

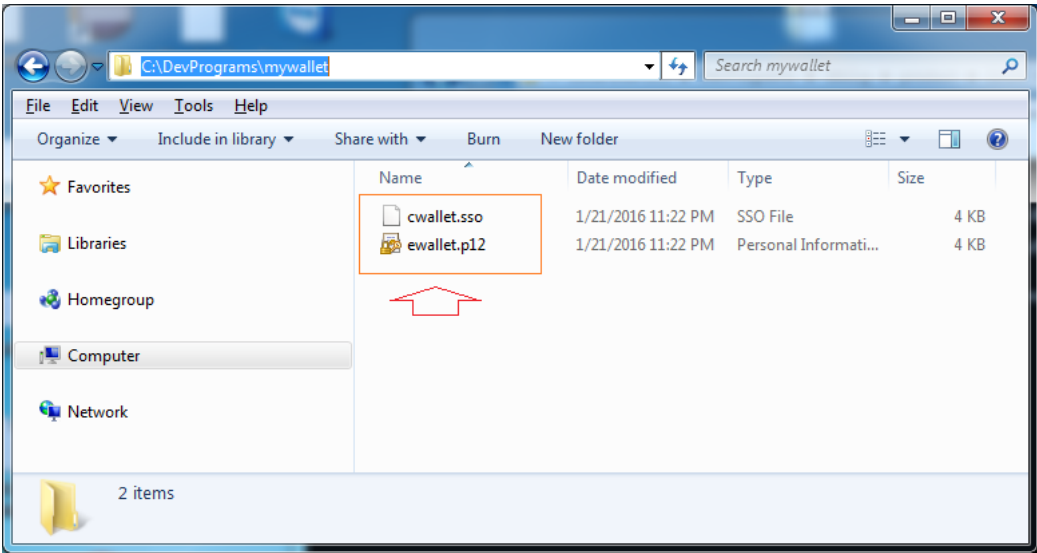
C:\Windows\system32>cd C:\DevPrograms\db11g\product\11.2.0\dbhome_1\BIN
C:\DevPrograms\db11g\product\11.2.0\dbhome_1\BIN>mkstore -wrl C:/DevPrograms/myw
allet -create
Oracle Secret Store Tool : Version 11.2.0.1.0 - Production
Copyright (c) 2004, 2009, Oracle and/or its affiliates. All rights reserved.

Enter password:
PKI-01002: Invalid password.
Enter password:
Enter password again: mysecret1

C:\DevPrograms\db11g\product\11.2.0\dbhome_1\BIN>

```

Wallet was created, it consists of two files **cwallet.sso** & **ewallet.p12**



5- Add database login credentials to an existing client wallet (10g,11g,12c)

1 | `mkstore -wrl <wallet_location> -createCredential <db_connect_string> <username> <password>`

DB Connection String	Username	Passwod
(DESCRIPTION = (ADDRESS = (PROTOCOL = TCP)(HOST = myserver1)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_NAME = db11g)))	dev	dev001
(DESCRIPTION = (ADDRESS = (PROTOCOL = TCP)(HOST = myserver2)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_NAME = db12c)))	prod	prod123

Example:

1 | `# <wallet_location>`
2 |
3 | `C:\DevPrograms\mywallet`
4 |
5 | `# <db_connect_string>`
6 |
7 | `"(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=myserver1)(PORT=1521))(CONNECT_DATA=(SERVER=DEDICATED)(SERVICE_NAME=db11g)))"`

Oracle APEX

- Creating and Managing Oracle Wallet
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- Installing and configuring Oracle Apex 5.0
- Install Oracle REST Data Services (ORDS) for Oracle APEX
- Oracle APEX Tutorial for Beginners (APEX 5.0)
- Oracle APEX Tabular Form Tutorial
- Oracle APEX Master Details Tutorial
- Custom Authentication in Oracle APEX
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