



Connecting to the database

ADW Connectivity

- SQL*Net, JDBC, ODBC
- All connections use SSL for encryption, no unsecure connections allowed
- Clients require a security credentials wallet to connect
 - Download from the web console
- Two connectivity options
 - Through the public internet
 - Using FastConnect with Public Peering
 - Provides private connections from on-prem networks

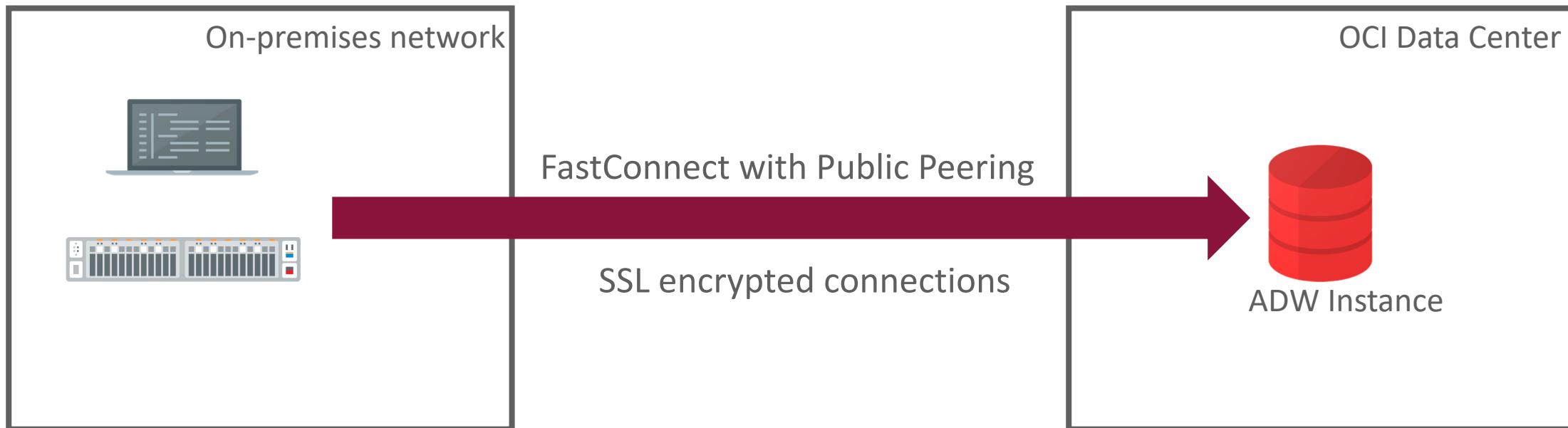
ADW Connectivity

Through the public internet



ADW Connectivity

Using FastConnect with Public Peering





Getting the wallet

Oracle Cloud Infrastructure

https://console.eu-frankfurt-1.oraclecloud.com/a/db/adw/ocid1.autonomousdwdatabase.oc1.eu-frankfurt-1.abtheljrqzv3ck5ri6afhk7kuio63x745h7pwsrmrg7htd5c4qr5elss7baa

Autonomous Data Warehouses » Autonomous Data Warehouse Details

Human Resources Central Europe

ADW AVAILABLE

DB Connection Stop Actions ▾

Autonomous Data Warehouse Information Tags

Display Name: Human Resources Central Europe
Database Name: HRCentral
Database Version: 18.0.3.3
CPU Core Count: 6
Storage (TB): 4

Created: Tue, 16 Oct 2018 21:04:32 GMT
Compartment: HumanResources
OCID: ...ss7baa Show Copy
License Type: Bring Your Own License
Lifecycle State: Available

Backups

Backups are automatically created daily.

Create Manual Backup

Name	State	Type	Started	Ended
No items found.				

Showing 0 Item(s) < Page 1 >

☰ MENU ORACLE Cloud Infrastructure Search eu-frankfurt-1 Help

The screenshot shows the Oracle Cloud Infrastructure Autonomous Data Warehouse Details page. A modal window titled "Database Connection" is open, providing instructions for connecting to the database using client credentials and a wallet. It includes sections for "Download Client Credentials (Wallet)" and "Connection Strings". The "Download" button in the first section is highlighted with a red box and a red arrow pointing to it.

Autonomous Data Warehouses » Autonomous Data Warehouse Details

Human Resource

ADW

AVAILABLE

Autonomous Data Warehouse Info

Display Name: Human Resource

Database Name: HRCentral

Database Version: 18.0.3.3

CPU Core Count: 6

Storage (TB): 4

Backups

Backups are automatically created daily.

Create Manual Backup

Name

No items found.

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Resources

Backups

Autonomous Data Warehouse Details

Database Connection

You will need the client credentials and connection information to connect to your database. The client credentials include the wallet, which is required for all types of connections.

Download Client Credentials (Wallet)

To download the client credentials, click Download, and supply a password for the wallet.

Download

Connection Strings

Use the following connection strings or TNS names for your connections. See the [documentation](#) for details.

TNS Name <i>i</i>	Connection String <i>i</i>
HRCentral_HIGH	...bipnjpq6xevimi_hrcentral_high.adwc.oraclecloud.com Show Copy
HRCentral_MEDIUM	...pnjpq6xevimi_hrcentral_medium.adwc.oraclecloud.com Show Copy
HRCentral_LOW	...qbipnjpq6xevimi_hrcentral_low.adwc.oraclecloud.com Show Copy

Showing 3 Item(s)

Close

Help

eu-frankfurt-1

Search

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Oracle Cloud Infrastructure

Autonomous Data Warehouses » Autonomous Data Warehouse Details

Human Resources

ADW

AVAILABLE

DB Connection Service Configuration

Autonomous Data Warehouse Information

Display Name: Human Resources

Database Name: HRCentral

Database Version: 18.0.3.3

CPU Core Count: 6

Storage (TB): 4

Download Wallet

help cancel

Database connections to your Autonomous Data Warehouse database use a secure connection. The wallet file will be required to configure your database clients and tools to access Autonomous Data Warehouse database.

Please create a password for this wallet. Some database clients will require that you provide both the wallet and password to connect to your database (other clients will auto-login using the wallet without a password).

PASSWORD

*

Password must be 6 to 60 characters and contain at least 1 alphabetic and 1 numeric character.

Download

Resources

Backups

Backups are automatically created daily.

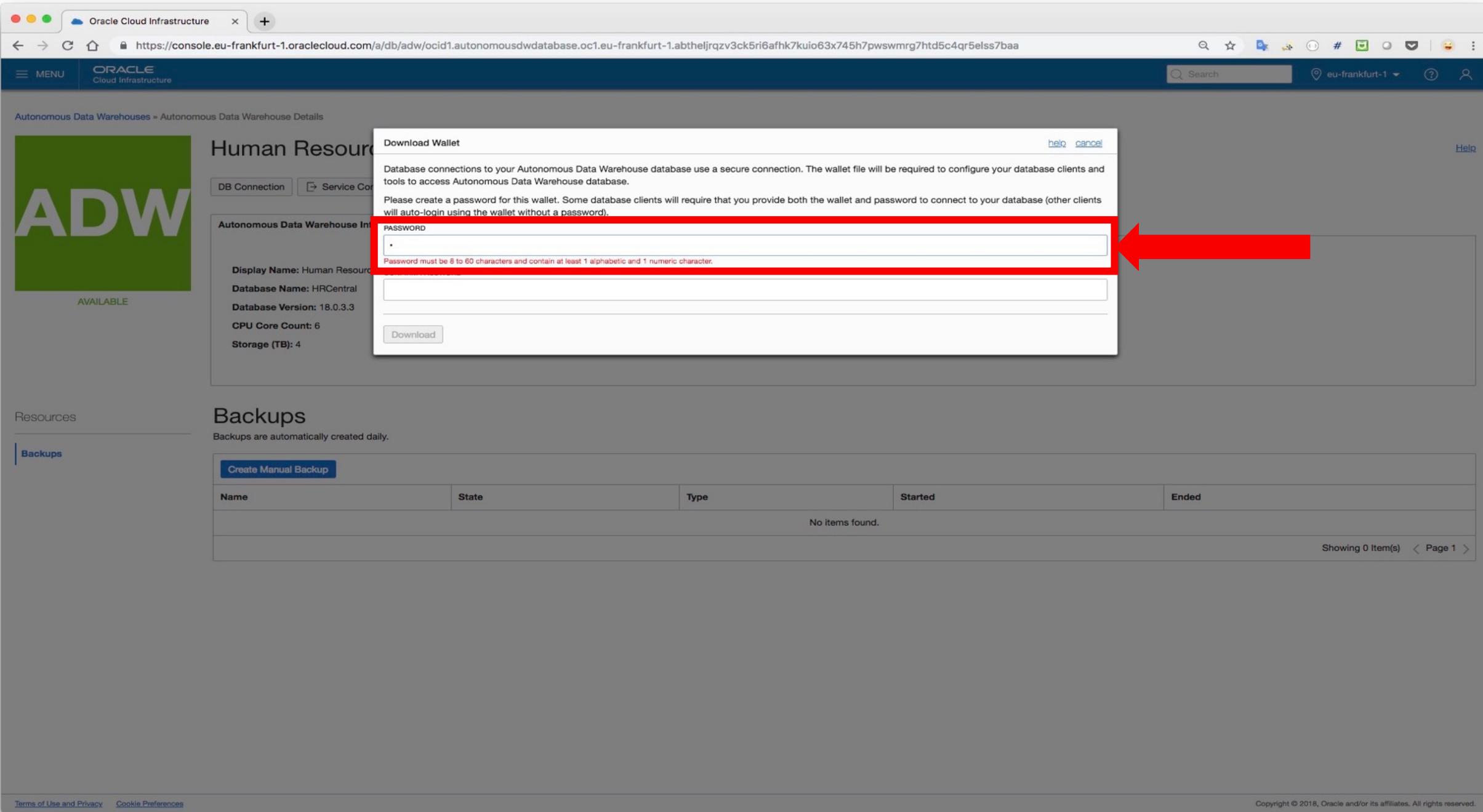
Create Manual Backup

Name	State	Type	Started	Ended
No items found.				

Showing 0 Item(s) < Page 1 >

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Oracle Cloud Infrastructure

https://console.eu-frankfurt-1.oraclecloud.com/a/db/adw/ocid1.autonomousdwdatabase.oc1.eu-frankfurt-1.abtheljrqzv3ck5ri6afhk7kuio63x745h7pwsrmrg7htd5c4qr5elss7baa

Autonomous Data Warehouses » Autonomous Data Warehouse Details

Human Resources

ADW

AVAILABLE

DB Connection Service Configuration

Autonomous Data Warehouse Info

Display Name: Human Resources
Database Name: HRCentral
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CPU Core Count: 6
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PASSWORD
.....

CONFIRM PASSWORD
.....

Download

Resources

Backups

Backups are automatically created daily.

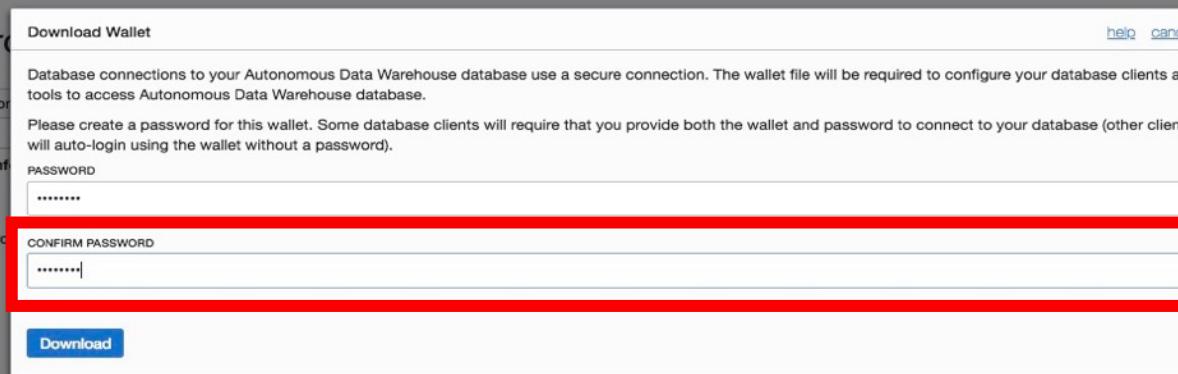
Create Manual Backup

Name	State	Type	Started	Ended
No items found.				

Showing 0 Item(s) < Page 1 >

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Oracle Cloud Infrastructure

https://console.eu-frankfurt-1.oraclecloud.com/a/db/adw/ocid1.autonomousdwdatabase.oc1.eu-frankfurt-1.abtheljrqzv3ck5ri6afhk7kuio63x745h7pwsrmrg7htd5c4qr5elss7baa

Autonomous Data Warehouses » Autonomous Data Warehouse Details

Human Resources

ADW

AVAILABLE

DB Connection Service Configuration

Autonomous Data Warehouse Info

Display Name: Human Resources
Database Name: HRCentral
Database Version: 18.0.3.3
CPU Core Count: 6
Storage (TB): 4

Download Wallet

Database connections to your Autonomous Data Warehouse database use a secure connection. The wallet file will be required to configure your database clients and tools to access Autonomous Data Warehouse database.

Please create a password for this wallet. Some database clients will require that you provide both the wallet and password to connect to your database (other clients will auto-login using the wallet without a password).

PASSWORD: CONFIRM PASSWORD:

Download

Resources

Backups

Backups are automatically created daily.

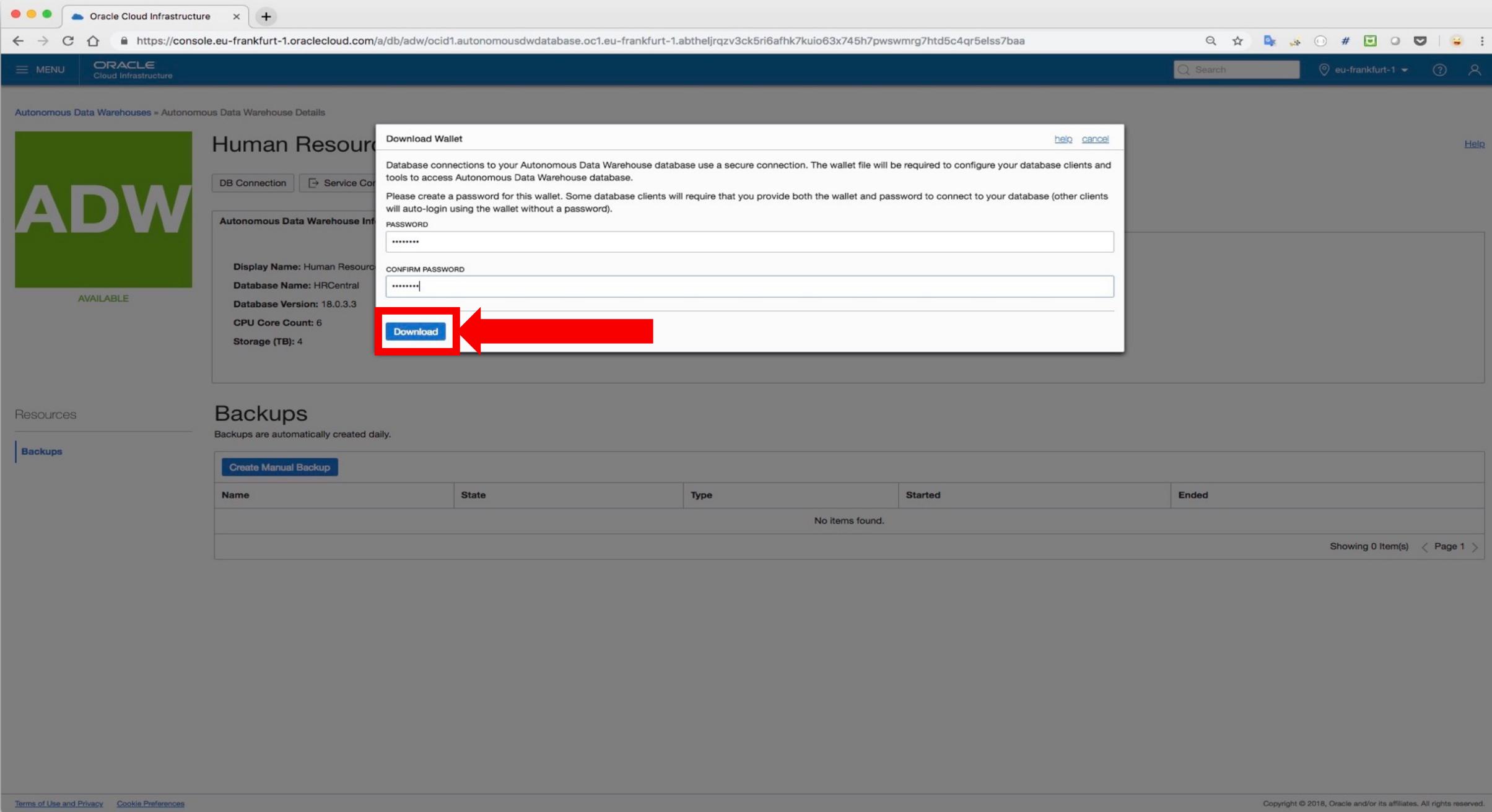
Create Manual Backup

Name	State	Type	Started	Ended
No items found.				

Showing 0 Item(s) < Page 1 >

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Oracle Cloud Infrastructure +

Autonomous Data Warehouses » Autonomous Data Warehouse Details

Human Resources Central Europe

DB Connection Service Console Scale Up/Down Stop Actions ▾

Autonomous Data Warehouse Information Tags

Display Name: Human Resources Central Europe
Database Name: HRCentral
Database Version: 18.0.3.3
CPU Core Count: 6
Storage (TB): 4

Created: Tue, 16 Oct 2018 21:04:32 GMT
Compartment: HumanResources
OCID: ...ss7baa Show Copy
License Type: Bring Your Own License
Lifecycle State: Available

Resources

Backups

Backups are automatically created daily.

Create Manual Backup

Name	State	Type	Started	Ended
No items found.				

Showing 0 Item(s) < Page 1 >

File History Backups Create Backup

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Wallet_HRCentral.zip ^ Show All X



Connecting with SQL Developer

Oracle SQL Developer

Connections

- Oracle Connections
- Oracle NoSQL Connections
- Database Schema Service Connections

Welcome Page

ORACLE SQL Developer

Version: 18.3.0.277.2354

Database Connection

Recent Databases Detected

Click to add the connection
No TNS entries found in {USER Home dir=/Users/hbaer}

Load a TNS file

Create a Connection Manually

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Docker Images
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Feature Screenshots

The SQL Worksheet allows you to run queries and scripts, and offers a code insight feature to help you auto-complete your code.

Oracle SQL Developer : hr

File Edit View Navigate Run Source Team Tools Window Help

Oracle SQL Developer

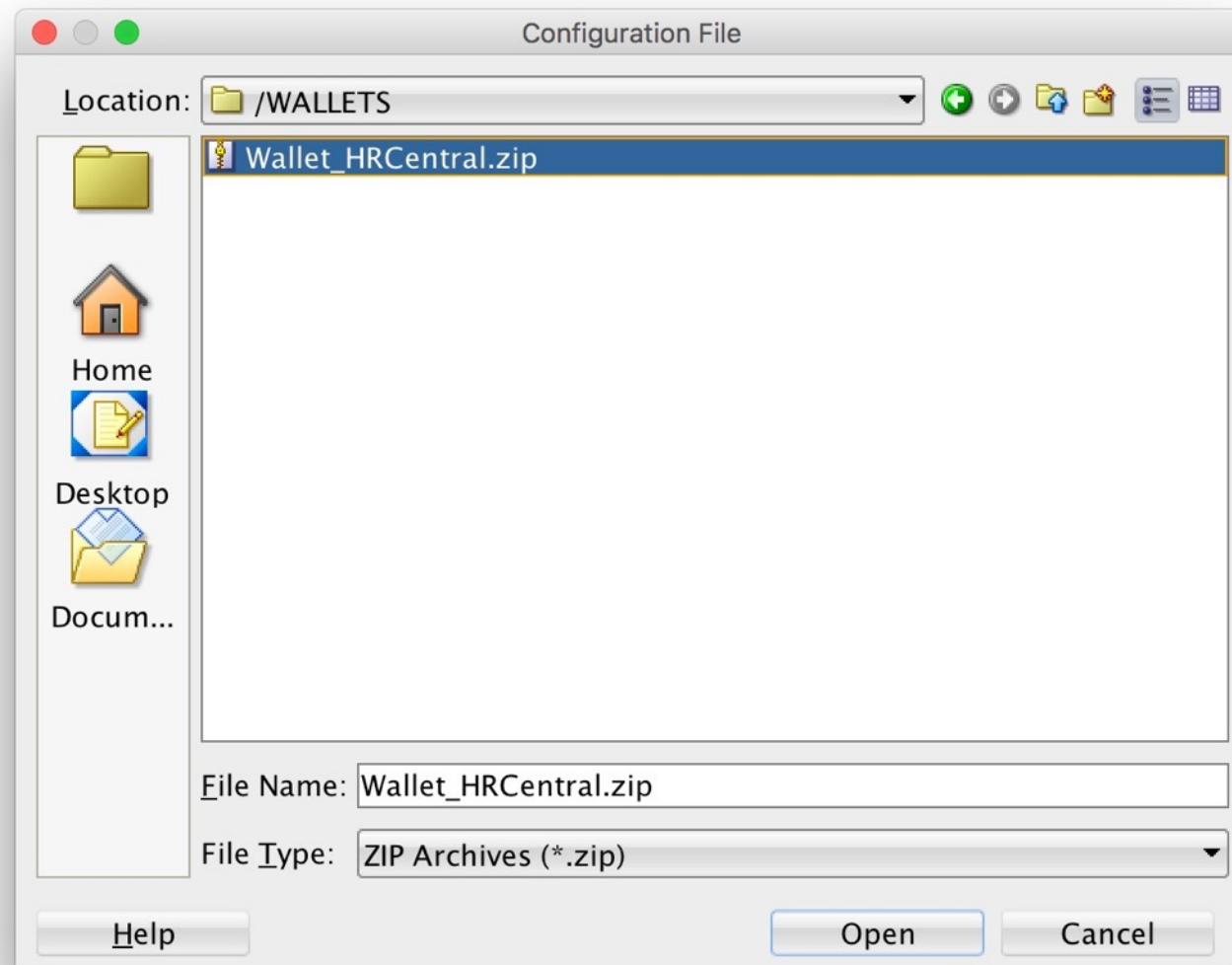
New / Select Database Connection

Connection Name	Connection Description
Connection Name: HR Central Europe	
Username	admin
Password	*****
<input type="checkbox"/> Save Password <input checked="" type="checkbox"/> Connection Color	
Oracle	
Connection Type	Basic
Hostname	localhost
Port	1521
<input checked="" type="radio"/> SID	Cloud Wallet
<input type="radio"/> Service name	Advanced
Role default	
<input type="checkbox"/> OS Authentication <input type="checkbox"/> Kerberos Authentication <input type="checkbox"/> Advanced...	
Status :	
<input type="button" value="Help"/> <input type="button" value="Save"/> <input type="button" value="Clear"/> <input type="button" value="Test"/> <input type="button" value="Connect"/> <input type="button" value="Cancel"/>	

New / Select Database Connection

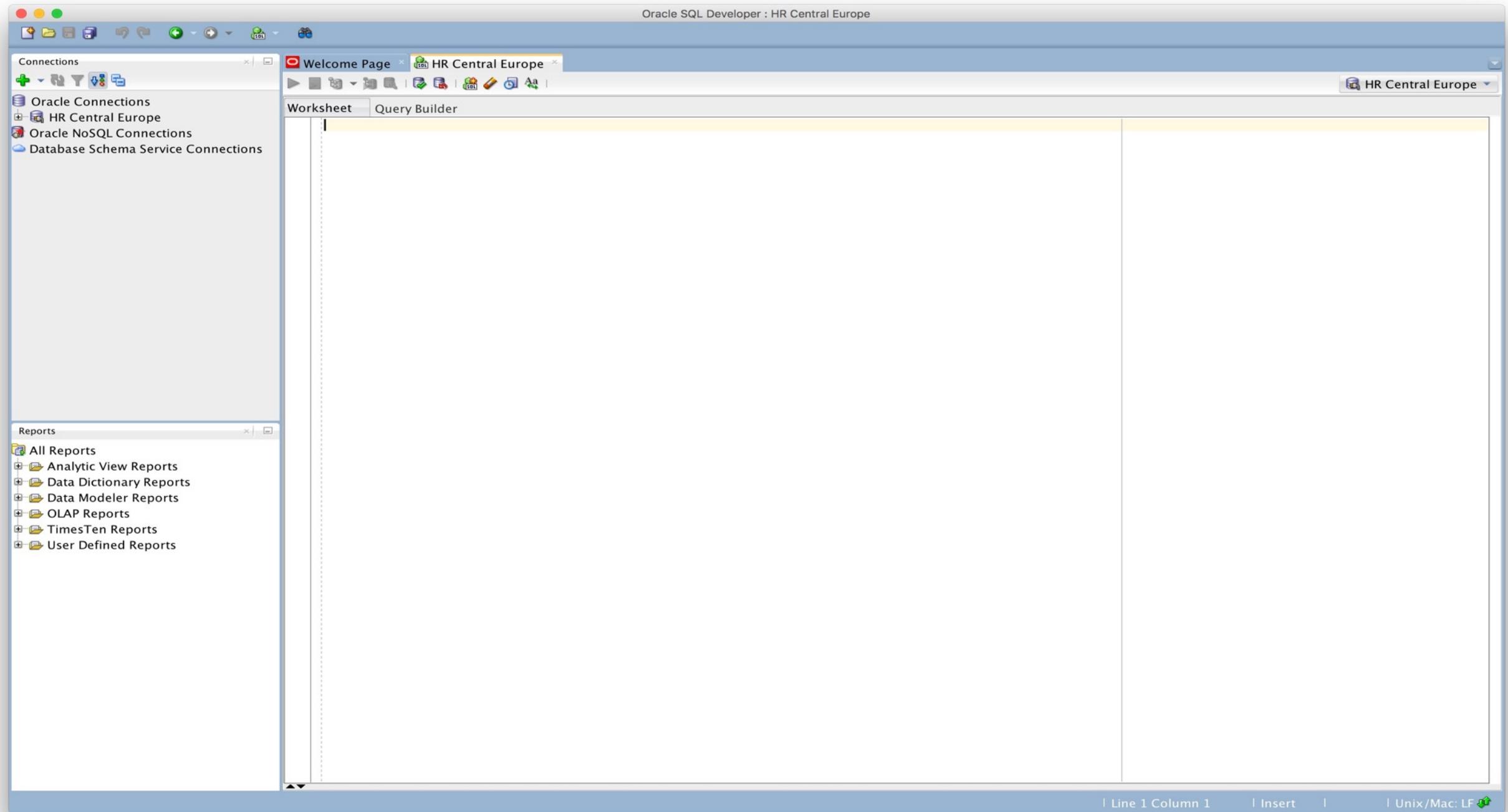
Connection Na...	Connection De...
Connection Name <input type="text" value="HR Central Europe"/>	
Username <input type="text" value="admin"/>	
Password <input type="password" value="*****"/>	
<input type="checkbox"/> Save Password <input checked="" type="checkbox"/> Connection Color	
Oracle	
Connection Type <input type="button" value="Cloud Wallet"/>	Role <input type="button" value="default"/>
Configuration File <input type="text" value="~none~"/>	<input type="button" value="Browse..."/>
Service <input type="button"/>	
<input type="checkbox"/> Use HTTP Proxy Host <input type="text"/> Port <input type="text"/>	
<input type="button" value="Configure OSS"/>	
<input type="checkbox"/> OS Authentication <input type="checkbox"/> Kerberos Authentication <input type="button" value="Advanced..."/>	

Status :



New / Select Database Connection

Connection Name	Connection Description
Connection Name HR Central Europe	
Username	admin
Password	*****
<input type="checkbox"/> Save Password <input checked="" type="checkbox"/> Connection Color	
Oracle	
Connection Type	Cloud Wallet
Role	default
Configuration File	/WALLETS/Wallet_HRCentral.zip
Service	financeurope_high
<input type="checkbox"/> Use HTTP Proxy	H
<input type="button" value="Configure OSS"/>	
<input type="checkbox"/> OS Authentication	
Status :	
<input type="button" value="Help"/> <input type="button" value="Save"/> <input type="button" value="Clear"/> <input type="button" value="Test"/> <input type="button" value="Connect"/> <input type="button" value="Cancel"/>	



Database Service Names

- 3 pre-defined database services
 - Choice of performance and concurrency
- HIGH
 - Highest resources, lowest concurrency
 - Queries run in parallel
- MEDIUM
 - Less resources, higher concurrency
 - Queries run in parallel
- LOW
 - Least resources, highest concurrency
 - Queries run serially

Example for a database with 16 OCPUs

No of concurrent queries	Max idle time	CPU shares
HIGH	3	5 mins
MEDIUM	20	5 mins
LOW	32	1 hour



Connecting with JDBC 18.3

Connecting to ADW using JDBC

- Recommended JDBC driver version 18.3
 - Makes it easier to configure connections with the security credentials wallet
- Download 18.3 drivers from
<https://www.oracle.com/technetwork/database/application-development/jdbc/downloads/jdbc-ucp-183-5013470.html>
- Unzip the security credentials wallet zip file to an empty directory
- Specify the wallet directory in the JDBC connect string

Connecting to ADW using JDBC

Download JDBC 18.3 drivers

-  [**ojdbc8.jar**](#) the Oracle JDBC driver except classes for NLS support in Oracle Object and Collection types.
(4,161,744 bytes - SHA1: 4acaa9ab2b7470fa80f0a8ec416d7ea86608ac8c)
-  [**ucp.jar**](#) the Universal Connection Pool
(1,398,331 bytes - SHA1: b844d15da29d5c4f23a230318f9fd808087a9962)
-  [**ojdbc.policy**](#) Sample security policy file for Oracle Database JDBC driver
(11,596 bytes)
-  [**oraclepkj.jar**](#) Additional jar required to access Oracle Wallets from Java
(307,817 bytes - SHA1: 347500d8238a67e8b10b55a2d986b9c92ba495b3)
-  [**osdt_cert.jar**](#) Additional jar required to access Oracle Wallets from Java
(205,152 bytes - SHA1: 50c0e74c61e169adff5b83cb6a4fe1d7f4b53e8e)

Connecting to ADW using JDBC

Unzip the security credentials wallet zip file

```
[YBASKAN-mac:wallets ybaskan$ pwd  
/Users/ybaskan/ADW/wallets  
[YBASKAN-mac:wallets ybaskan$ unzip Wallet_testdw.zip  
Archive: Wallet_testdw.zip  
  inflating: cwallet.sso  
  inflating: tnsnames.ora  
  inflating: truststore.jks  
  inflating: ojdbc.properties  
  inflating: sqlnet.ora  
  inflating: ewallet.p12  
  inflating: keystore.jks
```

Connecting to ADW using JDBC

Specify the wallet directory in the JDBC connect string

```
public class UCPSample {  
    final static String DB_URL= "jdbc:oracle:thin:@testdw_low?TNS_ADMIN=/Users/ybaskan/ADW/wallets/testdw";  
    final static String DB_USER = "admin",  
    final static String DB_PASSWORD = "WelcomePMADWC18";
```

```
[YBASKAN-mac:UCPSample ybaskan$ java -classpath $PWD/ojdbc8.jar:$PWD/ucp.jar:. UCPSample  
Driver Name: Oracle JDBC driver  
Driver Version: 18.0.0.0.0  
Today's Date is: 2018-10-17 05:52:05  
Successfully connected to a cloud database
```