



DBmaestro DevOps Platform

CyberArk Integration Guide

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DBmaestro DevOps Platform

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1 About this Guide

This guide is meant for:

- Database developers and administrators who manage database structures and data development
- Database managers who are responsible for reviewing changes performed to an organization's database

1.1 Overview

The DBmaestro Server connects to the CyberArk password vault on TCP port 1858 (by default) by using CyberArk AAM provider, and retrieves an account (object) that contains the password in Oracle. The CyberArk AAM Provider identifies the DBmaestro Server based on the application ID and authenticates it based on the runtime characteristics of the application defined within the CyberArk product.

The CyberArk storage hierarchy consists of vaults, which contain safes, which contain accounts.

The DBmaestro application ID requires Retrieve access to each safe that will be used as a source for the Oracle passwords.

DBmaestro can integrate with CyberArk Application Identity Management software to retrieve the password of the Oracle users. The administrator who sets up the integration needs to know the following details:

- Vault address - IP address or hostname of the CyberArk password vault
- Vault credentials - username and password of an account with administrative access to the password vault
- Provider name - user name in the CyberArk password vault of the AAM Provider installed in the DBmaestro Server host. This provider user is created during the AAM Provider installation, and it is typically the hostname of the DBmaestro Server prefixed with Prov_ (example: Prov_DBMAESTRO)
- Application ID - string that identifies the DBmaestro application in the CyberArk password vault. The recommended DBmaestro application is DBmaestro.
- Safe - name of the safe that contains the Oracle account/s in the vault
- Folder - path to the account within the safe (default is Root)
- Object - Oracle account name within the safeView history of an object

2 Configuring the CyberArk Application Access Manager agent on the DBmaestro Server

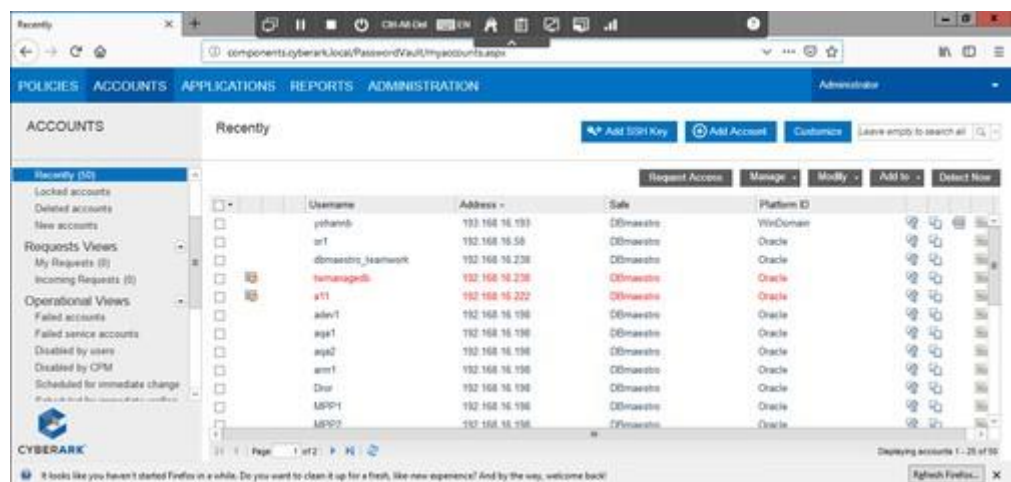
1. Obtain the CyberArk Application Access Manager software from CyberArk.
2. Obtain the connection information for the CyberArk Vault on your network. This includes the Vault hostname or IP address and a username and password.
3. Install the CyberArk Application Access Manager agent on the DBmaestro server. Refer to CyberArk Credential Provider and Application Server Credential Provider Implementation Guide for detailed installation instructions.

3 Logging In to the CyberArk Vault

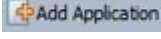
1. Connect to the CyberArk Vault using the connection information provided by CyberArk. The **Privileged Account Security** Sign In page is displayed:

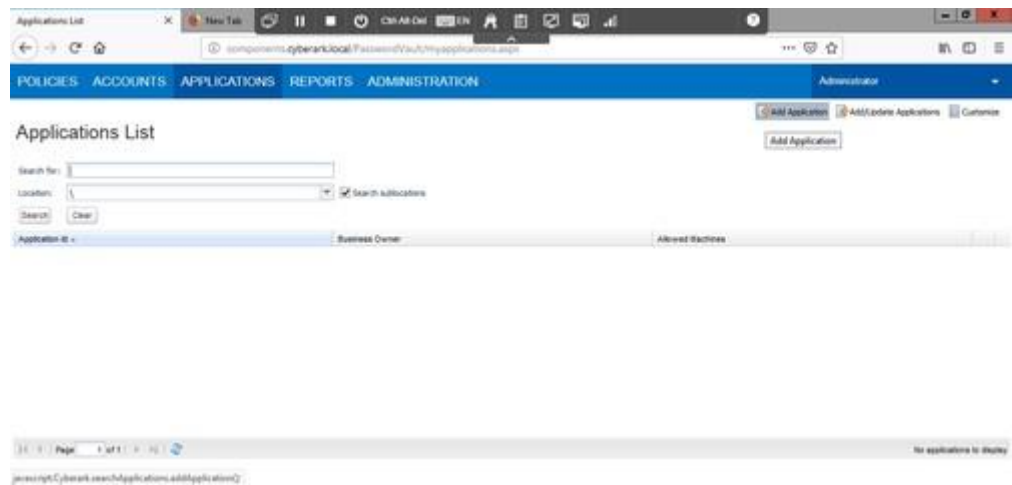


2. Enter the CyberArk user and password and click **Sign in**. The CyberArk Accounts page is displayed:

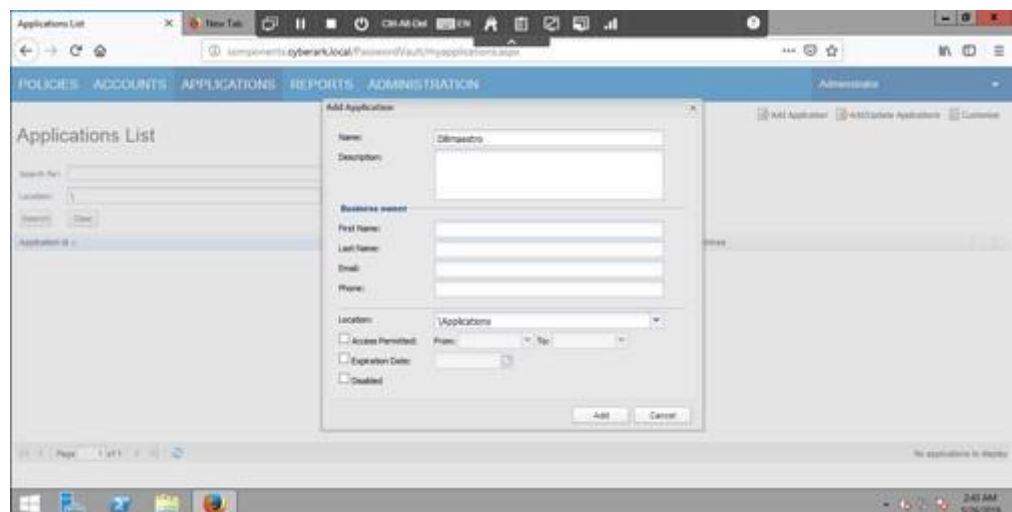


4 Configuring the CyberArk DBmaestro Application ID

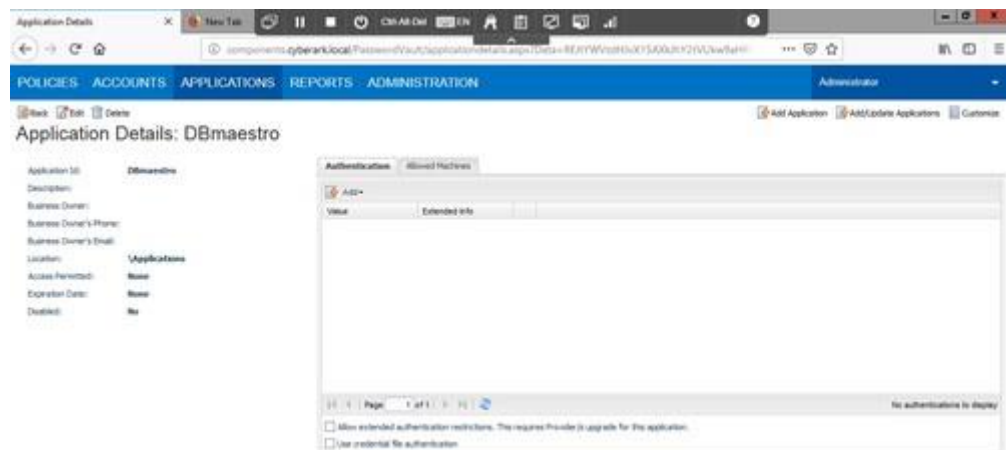
1. Select the **Applications** tab and click :



2. The **Add Application** window opens:



- Click **Add**. If the operation is successful, the **Applications Details** page is displayed:



5 Configuring the DBmaestro Repository Accounts in CyberArk

Create the CyberArk Accounts for the TWMANAGEDB and TWVERSIONDB Oracle users of DBmaestro repository schemas. The CyberArk Accounts must be stored in the same Safe and Folder which the DBmaestro Provider name and Application ID have access.

Note: there is no need to create the Oracle users; the DBmaestro Oracle Server installation will create them based on the information from the CyberArk Safe.

For each of the two DBmaestro repository schemas:

- Select the Accounts tab and click **Add Account**. The Add Account page is displayed:



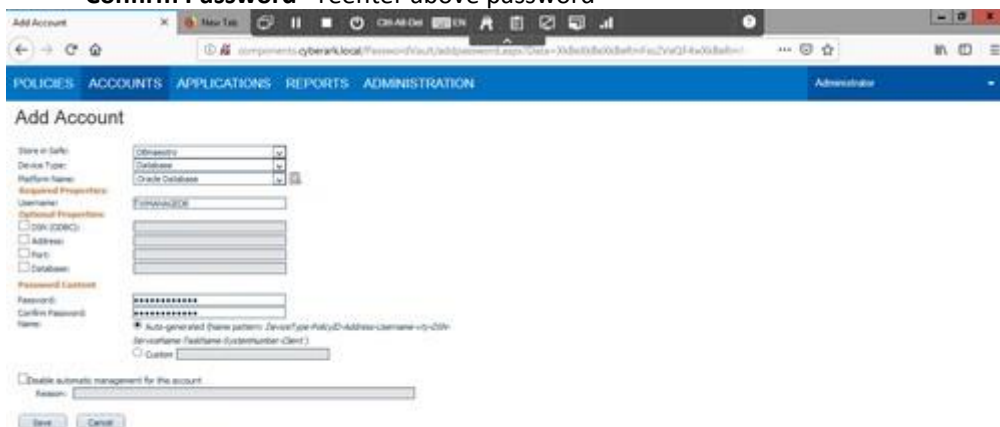
- Select the following parameters by from the dropdown list:

- Store in Safe** - DBmaestro
- Device Type** - Database
- Platform Name** - Oracle Database

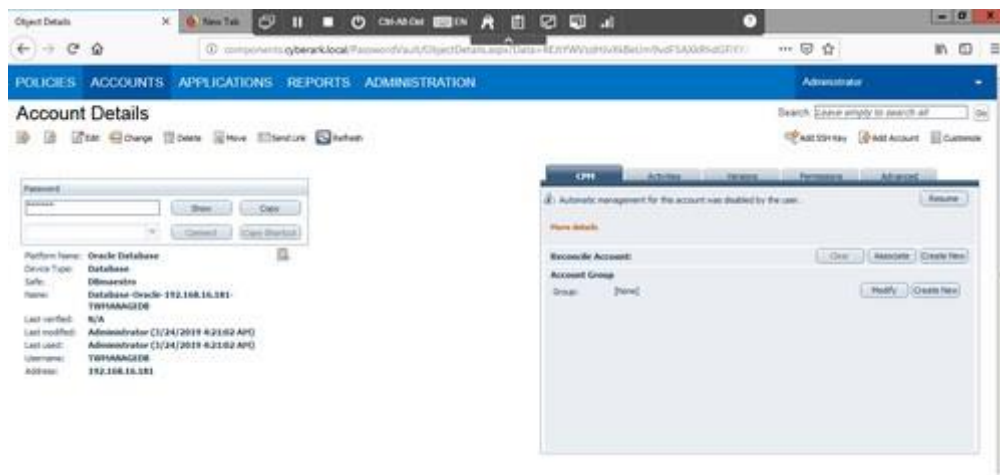
- Enter the following parameters:

- Username** - TWMANAGEDB or TWVERSIONDB
- Password** - password for Username entered

- **Confirm Password** - reenter above password



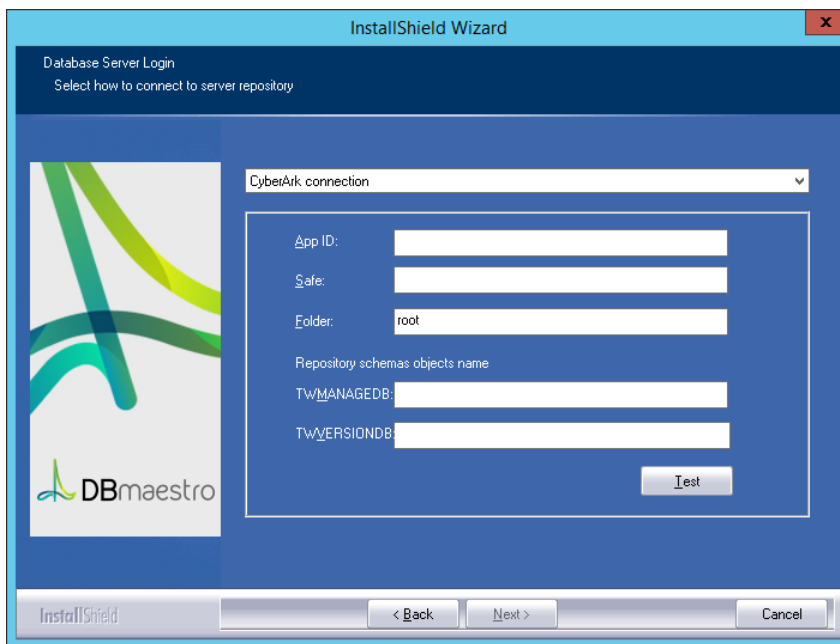
4. Click **Save**. The **Account Details** page is displayed:



6 Installing the DBmaestro Oracle Server with CyberArk Connection

Install the DBmaestro Oracle Server with connection to Oracle via CyberArk. See [DBmaestro Server Installation](#) for complete details.

In the **Database Server Login** screen, select **CyberArk connection**:



Database Server Login
Select how to connect to server repository

CyberArk connection

App ID:

Safe:

Folder:

Repository schemas objects name

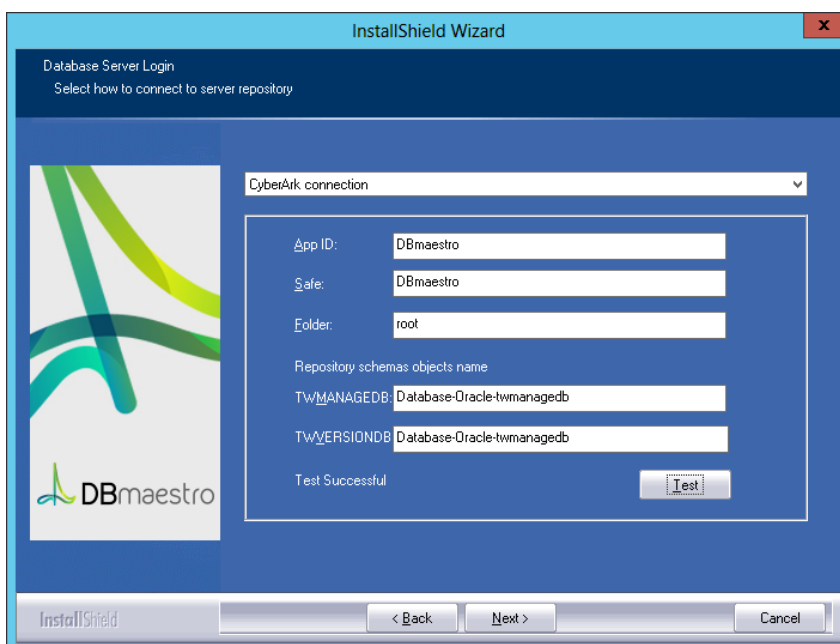
TWMANAGEDB:

TWVERSIONDB:

Test

InstallShield < Back Next > Cancel

Enter the CyberArk connection parameters and click **Test**:



Database Server Login
Select how to connect to server repository

CyberArk connection

App ID:

Safe:

Folder:

Repository schemas objects name

TWMANAGEDB:

TWVERSIONDB:

Test Successful

Test

InstallShield < Back Next > Cancel

If the caption **Test Successful** appears, click **Next** and complete the DBmaestro Server installation.

7

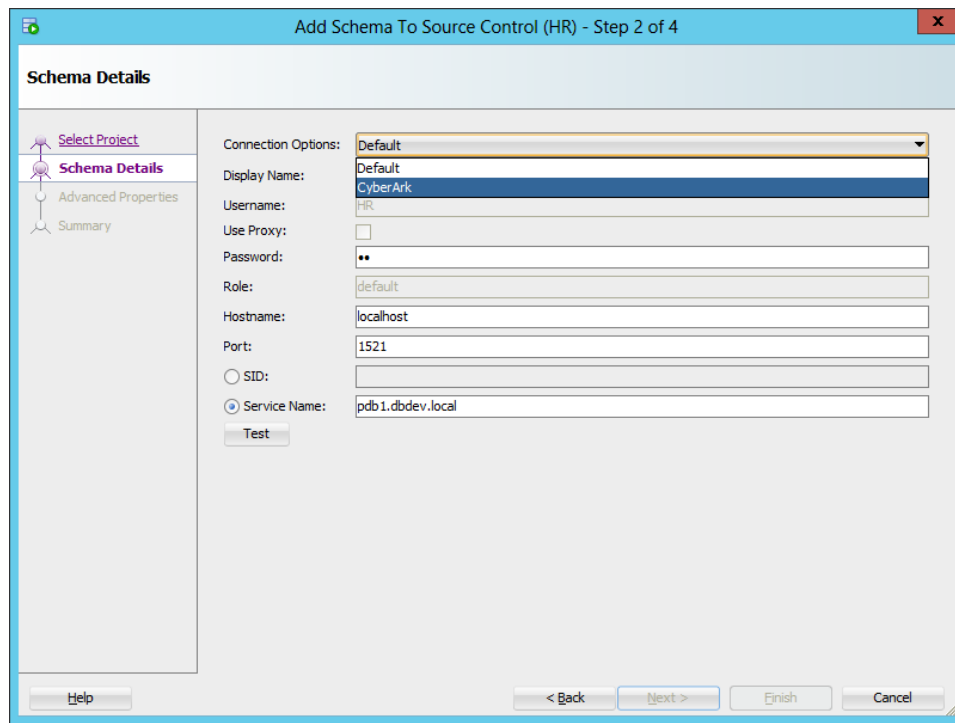
Creating CyberArk Objects for Oracle Schemas

Use the procedure described in Step 5 to create CyberArk objects for other Oracle schemas.

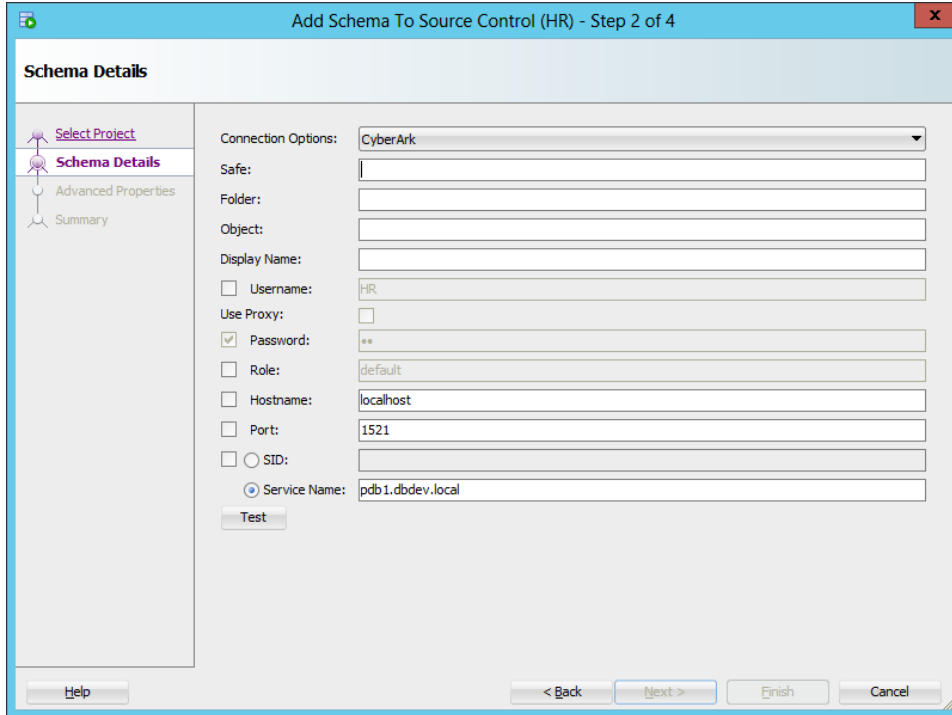
8 Adding Oracle Schemas to DBmaestro Source Control

For complete details, see [Adding Schemas to Source Control](#).

1. When using the DBmaestro SQL Developer Extension to add an Oracle schema to Source Control, in Step 2 of the Add Schema wizard, select **Connection Options: CyberArk**:



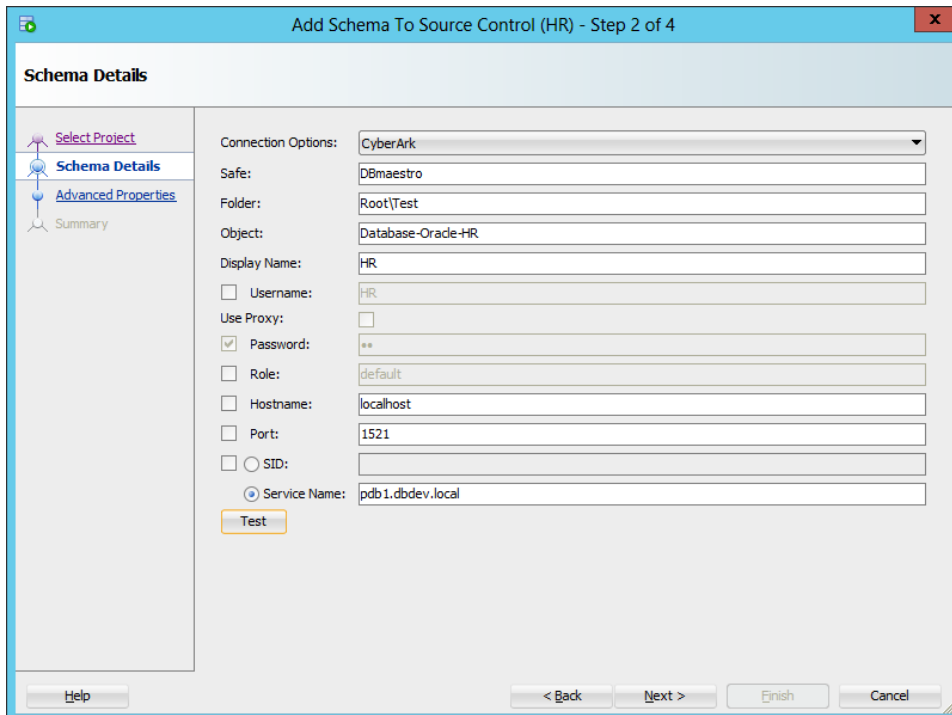
The **Schema Details** window displays the CyberArk parameters:



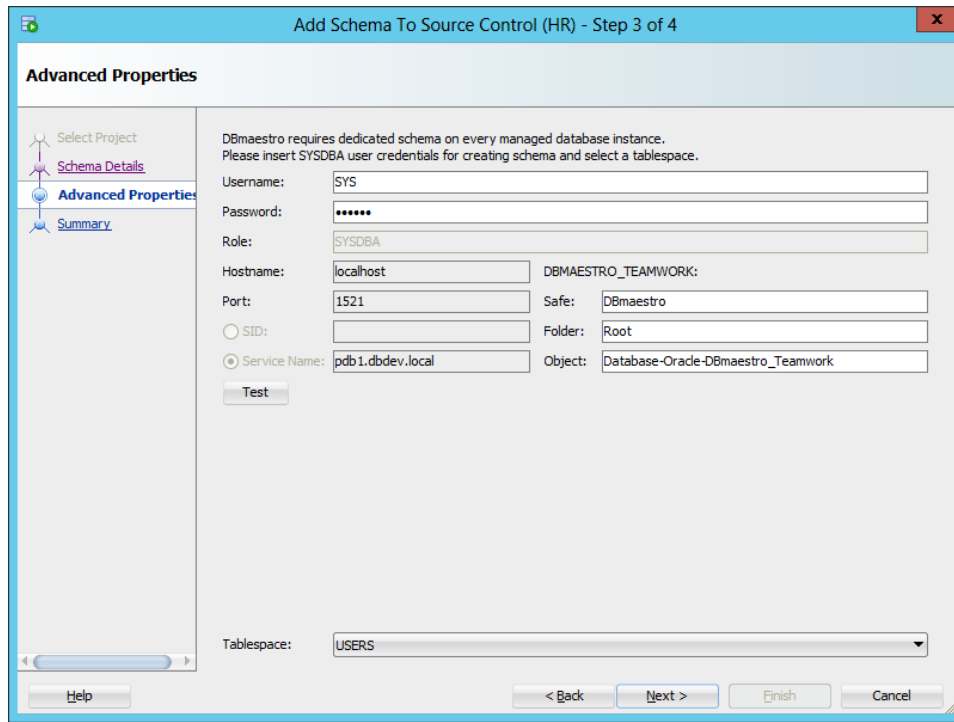
Enter the following parameters:

- CyberArk **Safe**, **Folder** and **Object** names
- **Display Name**, Oracle **Hostname**, **Port** number, and **SID** or **Service Name**
Note: the **Password** cannot be entered here because it is the CyberArk **Object** password, and must be identical to the Oracle schema password.

Do not check the **Username** and **Port** boxes.



2. Verify the connection parameters and click **Test**. If the caption **Status: Success** appears next to Test, click **Next**.
3. If this is the first schema to be added to the DBmaestro Source Control repository, the **Advanced Properties** window appears.
 - a. Enter the **Password** for the Oracle SYS user (SYSDBA).
 - b. Enter the CyberArk **Safe**, **Folder** and **Object** for the DBMAESTRO_TEAMWORK schema.



Add Schema To Source Control (HR) - Step 3 of 4

Advanced Properties

DBmaestro requires dedicated schema on every managed database instance. Please insert SYSDBA user credentials for creating schema and select a tablespace.

Username:

Password:

Role:

Hostname: DBMAESTRO_TEAMWORK:

Port: Safe:

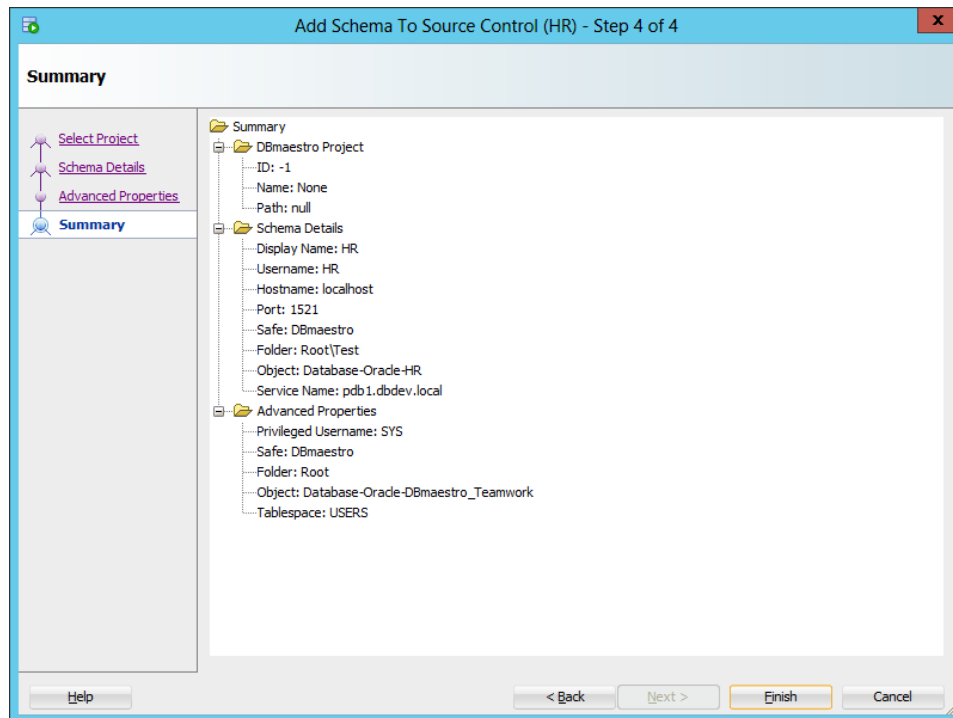
☐ SID:

☒ Service Name: Folder:

Object:

Tablespace:

4. Click **Test**.
5. If the caption **Status: Success** appears next to **Test**, click **Next**.
6. The Summary window appears:



7. Click **Finish**.