

PAM Administration

Dependent Platforms





By the end of this session the participant will be able to:

 Configure various types of Dependent Platforms



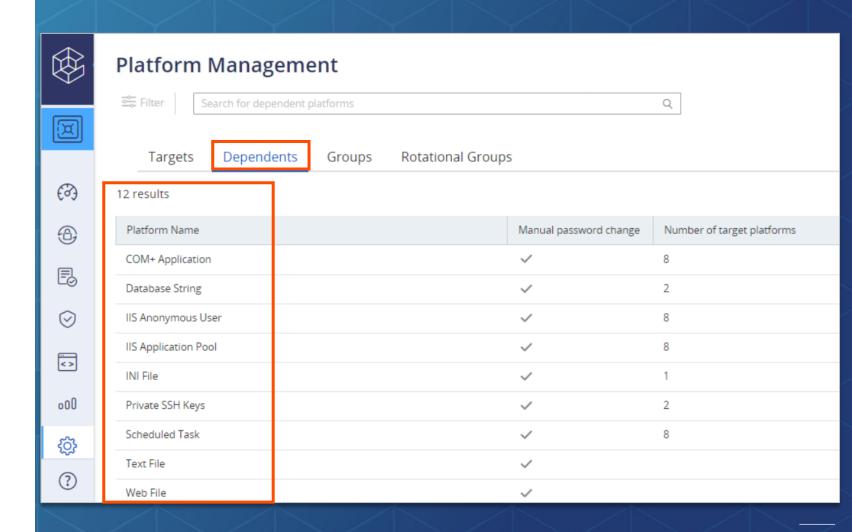


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Dependents

Dependents are another type of **Platform** and are used for managing **Usages**

- A usage refers to an instance when an account, which is created at the operating system or domain level, is also used to perform some task somewhere else
- When we change the password for the target account, we must also make sure that any other occurrences (or usages) of the password are also changed



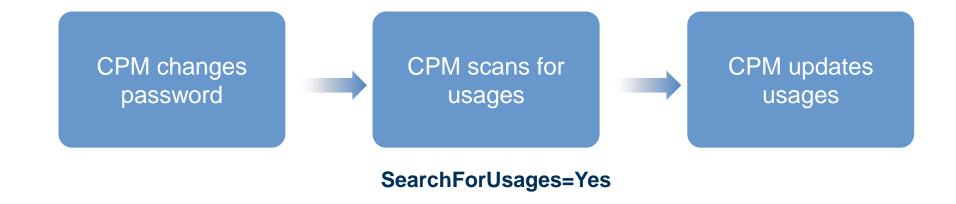


Usages

The **CPM** can synchronize an account password with all other occurrences of the same password on the same server or anywhere in the network, provided that those occurrences are registered in **CyberArk PAM**.

This is done through *Usages*





Scheduled Task Example

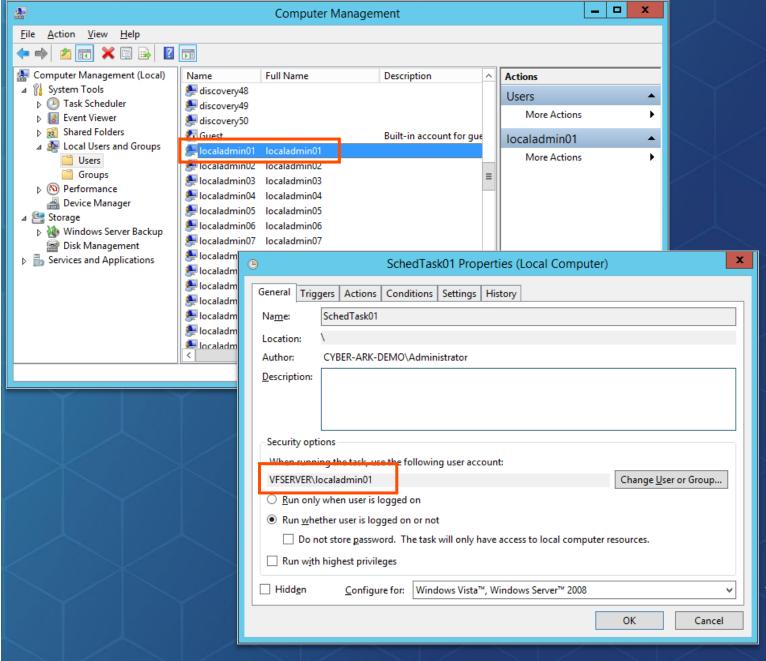


Scheduled Task Example

In our example, a local
Windows user – *localadmin01*– is used to run a scheduled
task – *SchedTask01*.

 When we change the password for *localadmin01*, we must also change the copy of the password that is stored with the scheduled task.

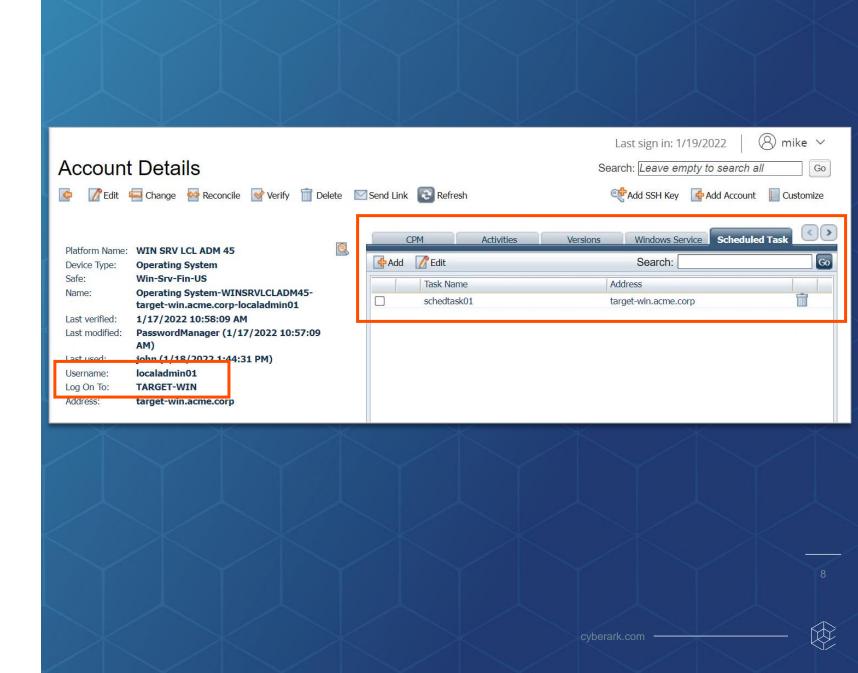
If we don't, the scheduled task will no longer run.





Scheduled Task Example

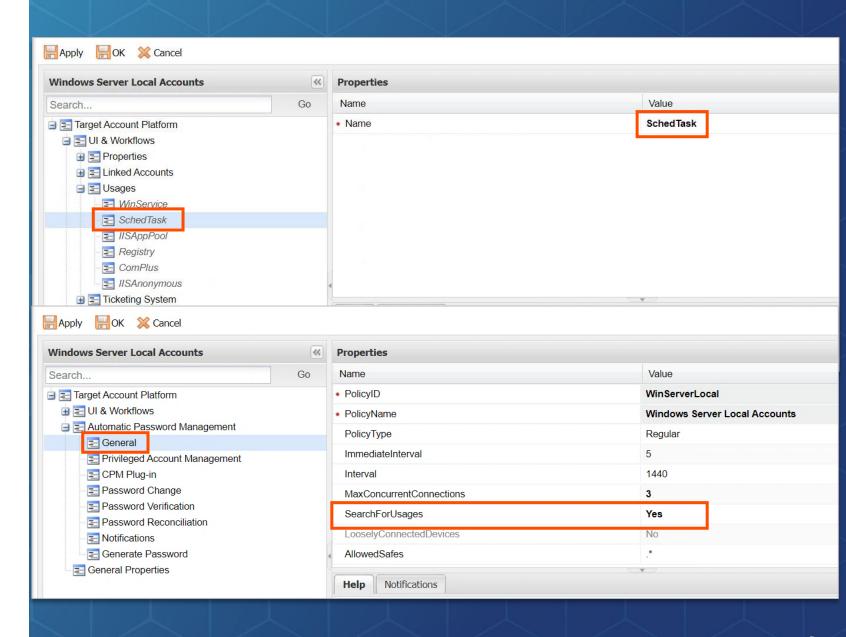
- Viewing the account details
 for *localadmin01* in the
 Classic Interface, you will see
 the *Scheduled Task* tab.
 This is where we need to add
 the task, providing the name
 of the task and the server
 address.
- When the CPM changes the password for *localadmin01*, it will also change the password in the Scheduled Tasks.



Windows Usages: Platform Configuration

Windows **Usages** are enabled by default in all the Windows **Target Platforms**.

- The Target Platform must reference the Dependent Platforms for the Usages.
- And have the parameter
 SearchForUsages set to
 Yes.





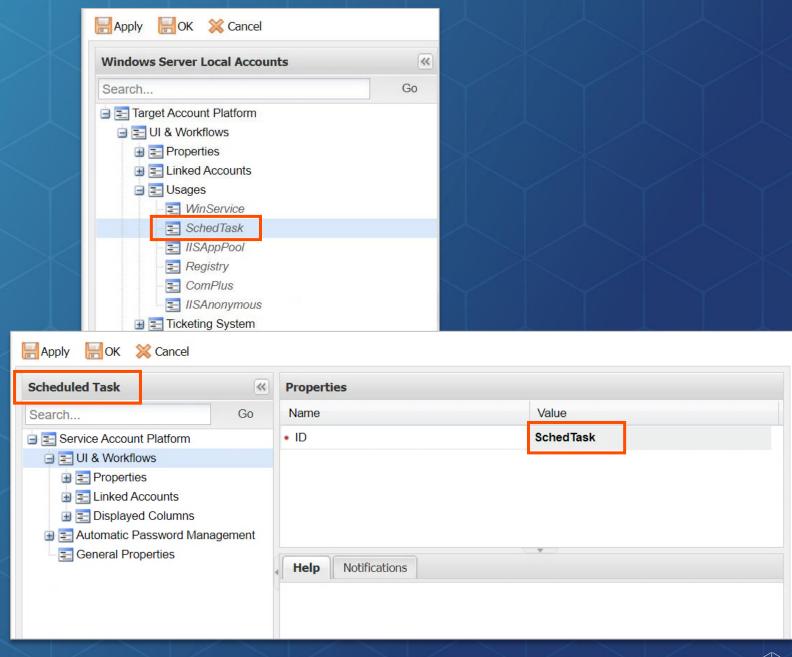
Windows Usages: Platform Configuration

The names listed under Usages reference the PAM object IDs for the Dependent Platforms.

Here we see the usage **SchedTask**.

If we look at the dependent platform *Scheduled Task*, we will see that its ID is also *SchedTask*.

This parameter informs the **Target Platform** what kinds of **Dependents** it should look for when scanning for usages.



Configuration File Example



Config File Example

Certain applications are hard-coded to retrieve credentials from configuration files

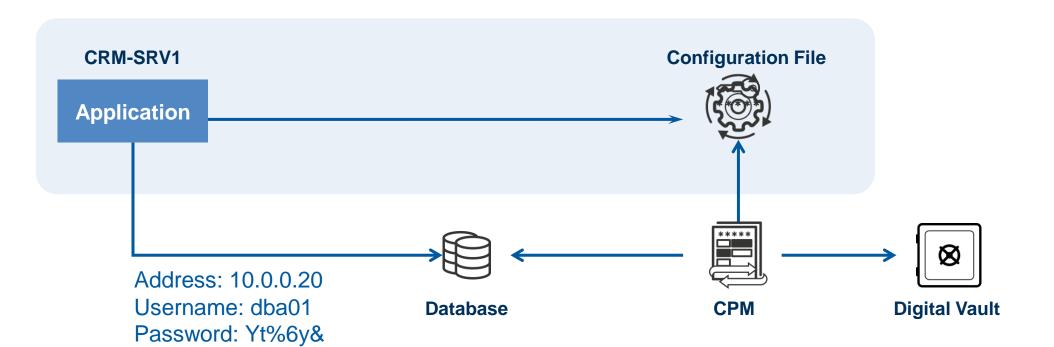
- The CPM can manage application accounts in the following types of files:
 - Plain text
 - INI files
 - XML files
 - Web configuration files
- These usages must be added manually to the appropriate Target
 Platforms

```
□ [Startup]
     Product=App Server
     ProductGUID=bf1f0850-d1c7-11d3-8e83-0000e8efafe3
     CompanyName=CyberArkDemo
     CompanyURL=www.cyber-ark-demo.com
 6
     MediaFormat=1
     LoaMode=1
 8
     SmallProgress=N
 9
     SplashTime=
10
     CheckMD5=Y
     CmdLine=
11
     ShowPasswordDialog=N
12
13
     ScriptDriven=4
14
    □ [Languages]
     Default=0x0409
16
17
     Supported=0x0409
     RequireExactLangMatch=0x0404,0x0804
18
19
     RTLLangs=0x0401,0x040d
20
    □ [Server]
     Hostname=DBServer01
     Password=Cyberark1
    □ [Database]
     Db=MySQL
     Port=3306
29
```

perark.com ———

Config File Usage Explained

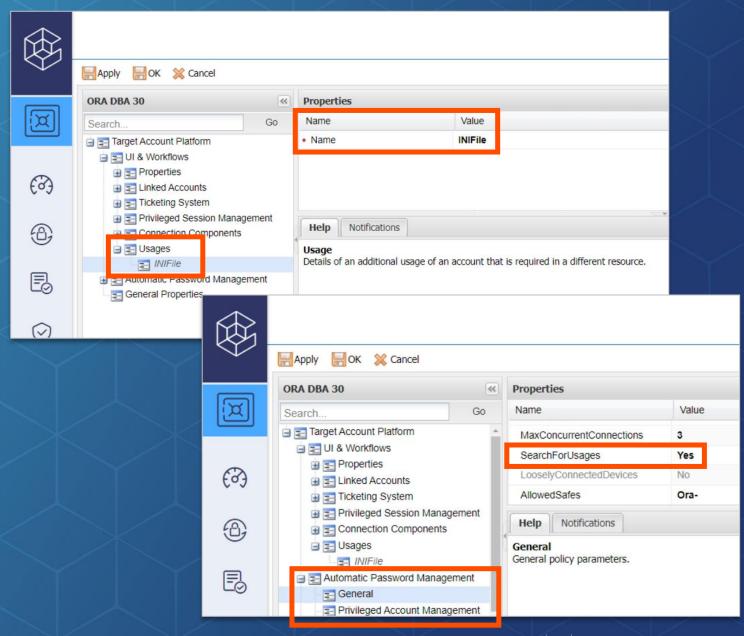
- In this example, we have an application that uses a database account dba01 to retrieve
 data for processing. The application retrieves the password for (the privileged account) from
 a configuration file and uses the credentials to authenticate to a target database.
- When the CPM changes the password for **dba01**, it must also push the updated password to the config file that is used by the application.



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Add Config File Usage (1)

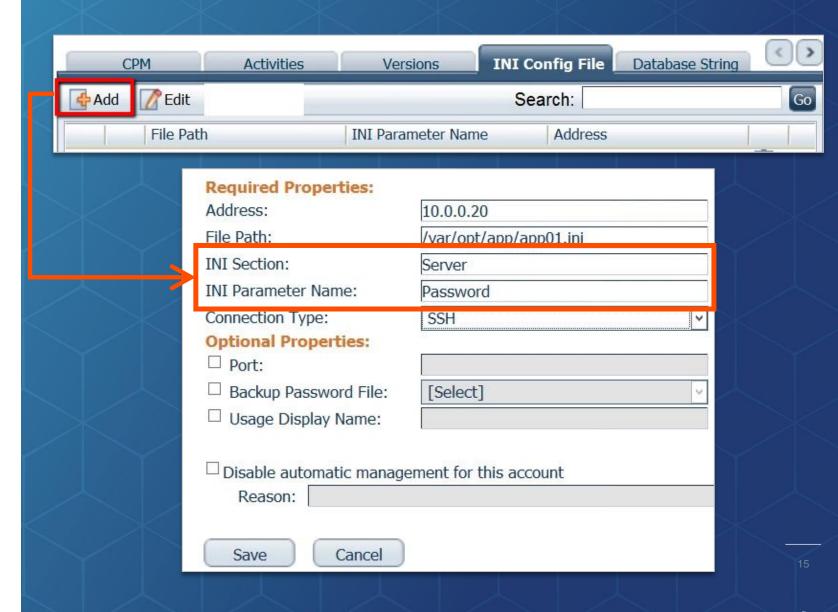
- To add a configuration file usage, you will first need to add manually the relevant usage in the target account platform
- Then enable the parameter
 SearchForUsages





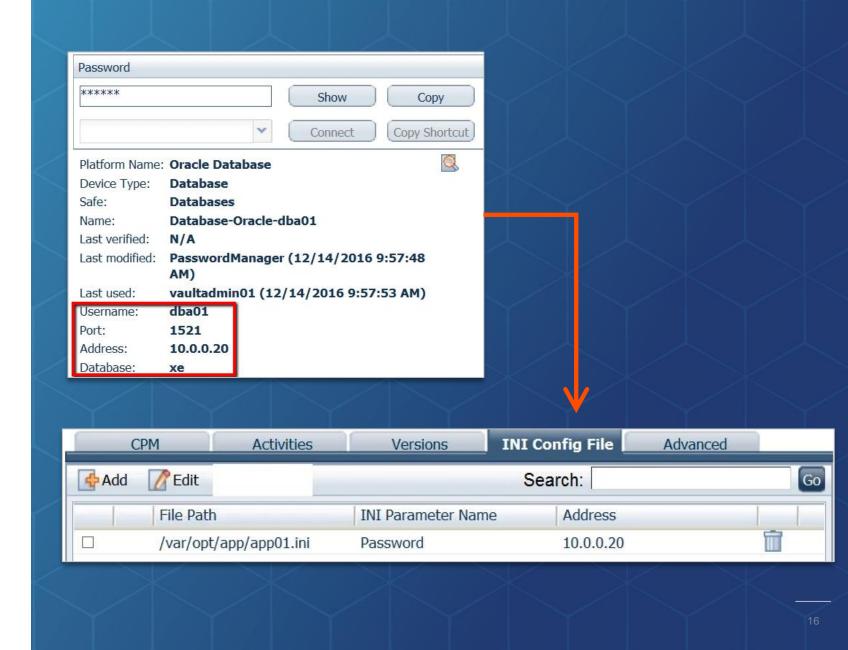
Add Config File Usage (2)

- Then you must associate the specific INI config file usage with the relevant account
- Notice that, in addition to providing the server address and the full path to the INI file, this usage also specifies where in the file the password can be found: in the section Server at the parameter Password



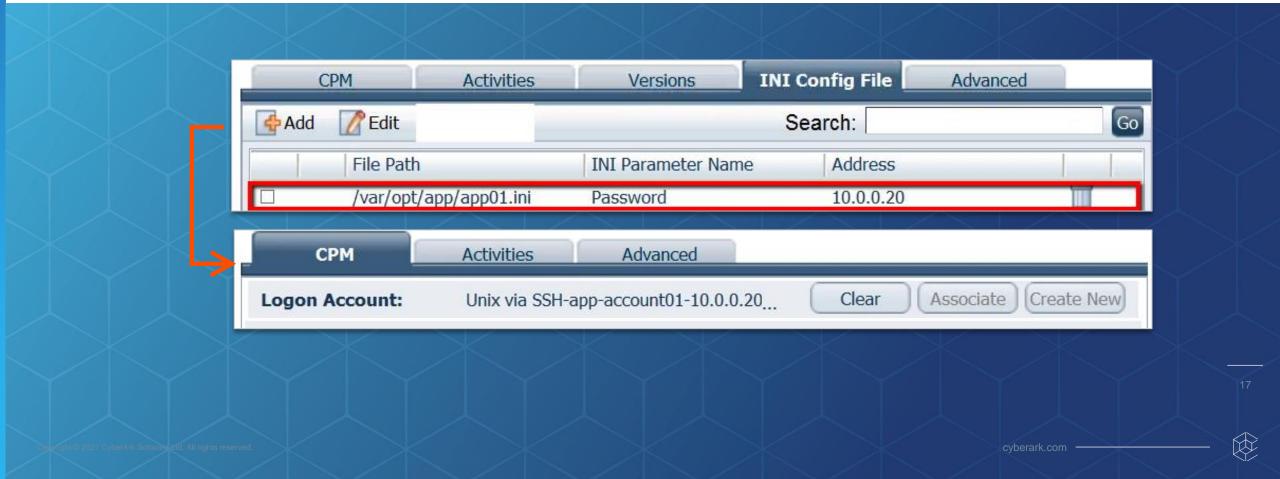
Configuration Files

In this example, when the **CPM** changes the password for *dba01*, it will also change the password in the file /*var/opt/app/app01.ini* on the server 10.0.0.20.



Logon Account

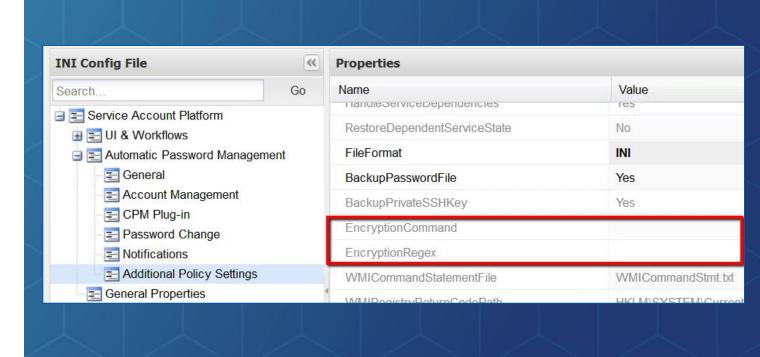
 If an extra account is required to log onto the remote machine where the usage exists, you will need to associate one with the usage.



Encrypting the Password in config Files

Passwords stored in configuration files can be encrypted using an external command:

- Encryption Command
 The full path of the encryption command that will encrypt the password. The encryption file can be stored in any location on the CPM machine.
- The regex parameter that handles the output of the Encryption Command parameter. If this parameter is not defined, it will behave as if "(.*)" has been specified. This parameter is only relevant when the Encryption Command parameter is defined.





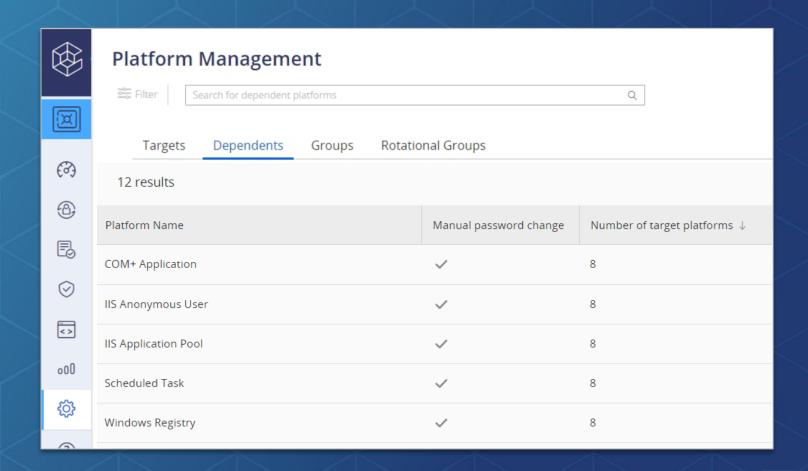
Discovering Dependencies



Discoverable Dependents

The **Accounts Discovery** process can detect the following Windows dependencies and automatically onboard them:

- Windows Services accounts
- Scheduled Tasks accounts
- IIS Application Pool accounts
- IIS Directory Security (Anonymous Access) accounts
- COM+ Applications accounts





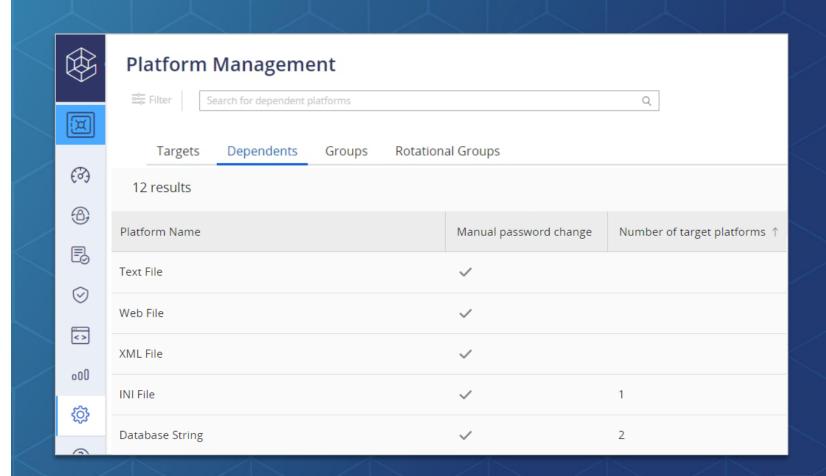
Non-Discoverable Dependents

The following types of dependent accounts cannot be discovered and must be added manually:

- Database String
- INI File
- Text File
- Web File
- XML File
- Private SSH Key
- Windows Registry

We will discuss Accounts

Discovery in more detail in a later session





Summary



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Summary

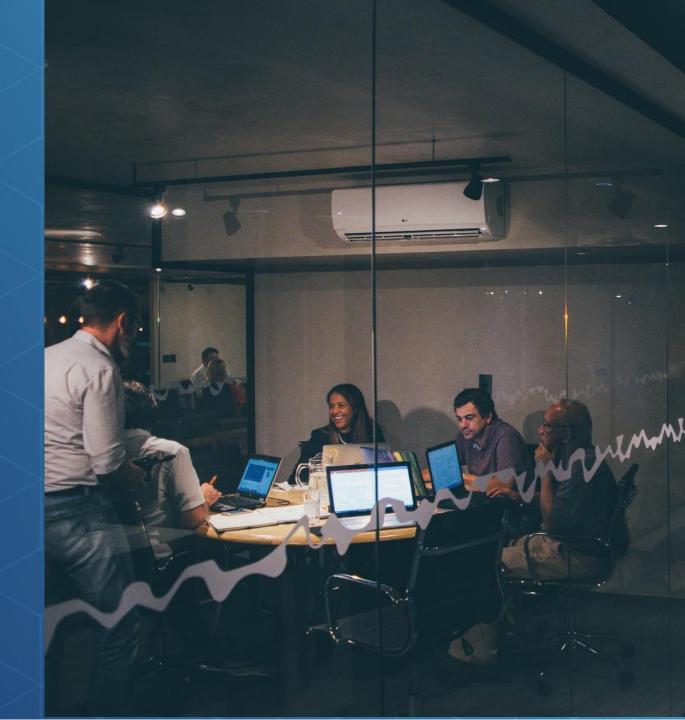
In this session we discussed,



Dependent platforms



How to configure various types of usages



You may now complete the following exercise:

Dependents – Securing Usages

- Manage a Scheduled Task Usage
- Managing a Configuration File Usage
 - Create a Logon account
 - Configure Usages on the Oracle platform
 - Add the Usage to the target account

