



CYBERARK®
The Identity Security Company™

PAM Administration

Accounts – Part 1



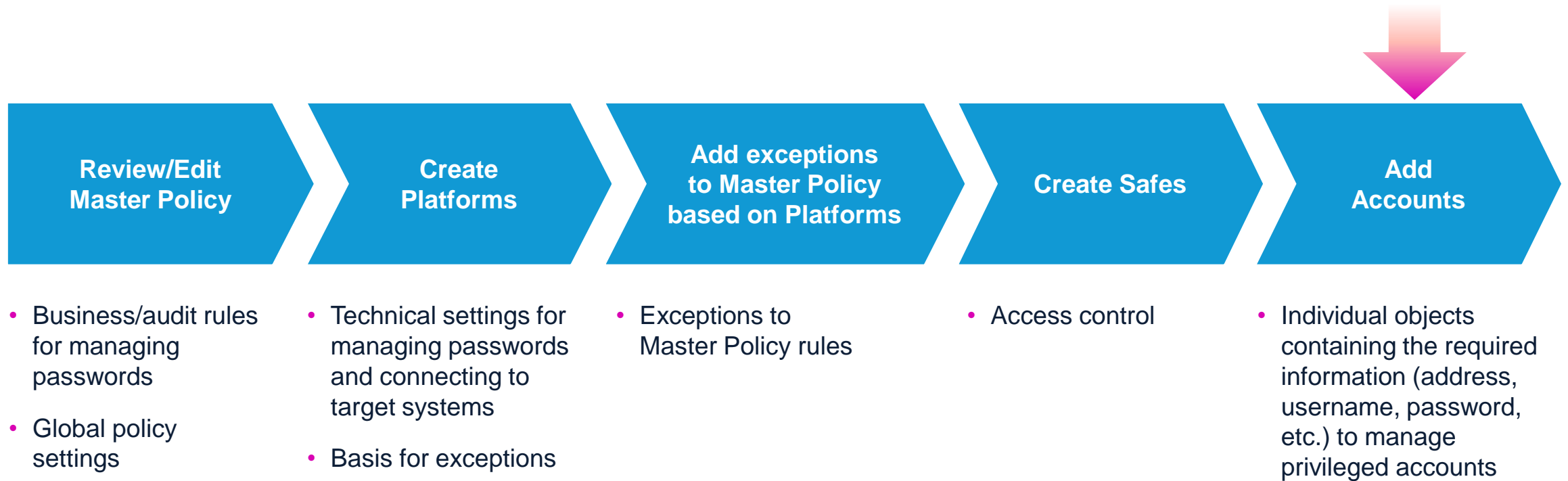
Agenda

By the end of this session, you will be able to:

1. Add an **Account** via the **PVWA**
2. Understand the different password management operations

Overview

Policies, Platforms, Safes, and Accounts



Accounts

Accounts – The actual privileged account IDs and passwords

- Stored in **Safes**
- Examples include:
 - Domain administrators
 - Local administrators
 - Root accounts
 - Service accounts
 - And more
- Every account resides in a single **Safe**
- Every account is associated with a single **Target Account Platform**

Account view

Last sign in: 10/19/2022 | mike

Filter | Search for accounts

36 results for: All accounts

Additional details & actions in classic interface

☆	Status	Username	Address	Platform ID	Safe ↑	Access request	
★	⚡	root	10.0.30.2	LINSSH30	CyberArk Servers	-	Connect
★	⚡	root	target-lin.acme.corp	LINSSH30	CyberArk Servers	-	Connect
☆	-	cpm-scan	acme.corp	WINDOMADM15	CyberArk-Service-Accounts	-	Connect
☆	-	s-reconcile	acme.corp	WINDOMADM15	CyberArk-Service-Accounts	-	Connect
★	-	root01b	target-lin.acme.corp	LINKEYS60	Lin-Fin-US	-	Connect
☆	-	app-account01	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect
☆	⚡	logon01	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect
☆	-	logon02	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect
☆	⚡	logon03	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect
☆	⚡	logon04	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect
☆	⚡	logon05	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect
☆	⚡	logon06	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect
☆	⚡	logon07	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect
☆	⚡	logon08	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect
☆	⚡	logon09	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect
☆	⚡	logon10	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect

Add An Account

Add A New Linux Account



Master Policy

- Change passwords every 60 days



Platform: LIN SSH 30

- Password length should be 10 characters long
- Master Policy Exception: Change password every 30 days



Safe: Lin-Fin-US

- Members of the “LinuxAdmins” Team group will have “Use and list” permissions



Account:

- Username: logon01
- Password: *****
- Address: target-lin.acme.corp

Accounts View – Add a Linux Account

Account view

Last sign in: 10/19/2022 | mike

Filter

Search for accounts

Ad hoc connection

Add account


36 results for: All accounts

Additional details & actions in classic interface

☆	Status	Username	Address	Platform ID	Safe ↑	Access request	
★	⚡	root	10.0.30.2	LINSSH30	CyberArk Servers	-	Connect
★	⚡	root	target-lin.acme.corp	LINSSH30	CyberArk Servers	-	Connect
☆	-	cpm-scan	acme.corp	WINDOMADM15	CyberArk-Service-Accounts	-	Connect
☆	-	s-reconcile	acme.corp	WINDOMADM15	CyberArk-Service-Accounts	-	Connect
★	-	root01b	target-lin.acme.corp	LINKEYS60	Lin-Fin-US	-	Connect
☆	-	app-account01	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect
☆	⚡	logon01	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect
☆	-	logon02	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect
☆	⚡	logon03	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect
☆	⚡	logon04	target-lin.acme.corp	LINSSH30	Lin-Fin-US	-	Connect

Accounts View – Add a Linux Account

Add Account

Last sign in: 10/19/2022 |  mike ▾


1 Select system type

2 Assign to platform


3 Store in Safe

4 Define properties

1. Select system type




Windows




*NIX


Select




Database



Application



Website




Cloud Service

Cancel


Next >


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Accounts View – Add a Linux Account


Add Account

Last sign in: 10/19/2022 |  mike ▾

 Select system type
*NIX


 Assign to platform


 Store in Safe

 Define properties

2. Select platform

Filter list by platform name

LIN KEYS 60

LIN SSH 30


Select

Cancel

< Back

Next >

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Accounts View – Add a Linux Account

Add Account

Last sign in: 10/19/2022 | mike

✓

Select system type

*NIX

✓

Assign to platform

LIN SSH 30

3

Store in Safe

4

Define properties

3. Select Safe

Create Safe

Filter list by Safe name

Lin-Fin-US

Select

Cancel

< Back

Next >

Accounts View – Add a Linux Account

Add Account

✓

Select system type

*NIX

✓

Assign to platform

LIN SSH 30


✓

Store in Safe

Lin-Fin-US

4

Define properties

Last sign in: 10/19/2022 |  mike ▾

4. Define account properties

Primary properties

Address

target-lin.acme.corp

Username

logon01

Password (optional)

.....

Confirm password

.....

☒ Customize account name ?

Additional properties

Use Sudo On Reconcile (optional)

Cancel

< Back

Add ▾

What Just Happened?

So, we have “created” an account.
But what does that mean?

Did we create a new account called
“logon01” on that target system?

No. All we have done is registered
information in the **CyberArk PAM**
database about an account named
logon01.

The screenshot displays the CyberArk PAM interface for an account named 'logon01' on the target system 'target-lin.acme.corp'. The interface includes a header with the account name and a link for 'Additional details & actions in classic interface'. Below the header, there are tabs for 'Overview', 'Details', 'Activities', and 'Versions'. The 'Overview' tab is selected, showing the 'Compliance Status' as 'Compliant' with a green '0' days ago indicator. It also shows the account was changed by 'paul' on 'Sep 23, 2022 1:10 PM' with 'Reconcile' and 'Change' buttons. The 'Activities' tab shows a list of recent actions, including 'Add File Category' and 'Activate Windows' by 'paul' on 'Sep 23 1:10:25 PM'.

logon01 On target-lin.acme.corp

Platform: LIN SSH 30 Safe: Lin-Fin-US

Show Copy ... Connect

Overview Details Activities Versions

Compliance Status **Compliant**

0 Days ago

Changed by paul
Sep 23, 2022 1:10 PM

Reconcile Change

Activities (Last 5)

Sep 23 1:10:25 PM paul Add File Category

Sep 23 1:10:25 PM paul Add File Category

Sep 23 paul Activate Windows
Go to Settings to activate Windows.

Accounts View – Add a Linux Account

Account view

Last sign in: 9/23/2022 | paul

Filter

Search for accounts

Ad hoc connection

Add account

3 results for: All accounts

☆	Status	Username	
☆	⚡	cpm-scan	ac
☆	⚡	s-reconcile	ac
☆	⚡	logon01	ta

logon01 On target-lin.acme.corp

⚡ Platform: LIN SSH 30 Safe: Lin-Fin-US

Additional details & actions in classic interface

Show

Copy

...

Connect

Overview

Details

Activities

Versions

Compliance Status Compliant

0

Days ago

Changed by paul
Sep 23, 2022 1:10 PM

Reconcile

Change


Activities (Last 5)

Sep 23 1:10:25 PM paul Add File Category

Sep 23 1:10:25 PM paul Add File Category

Sep 23 paul Activate Windows
Go to Settings to activate Windows.

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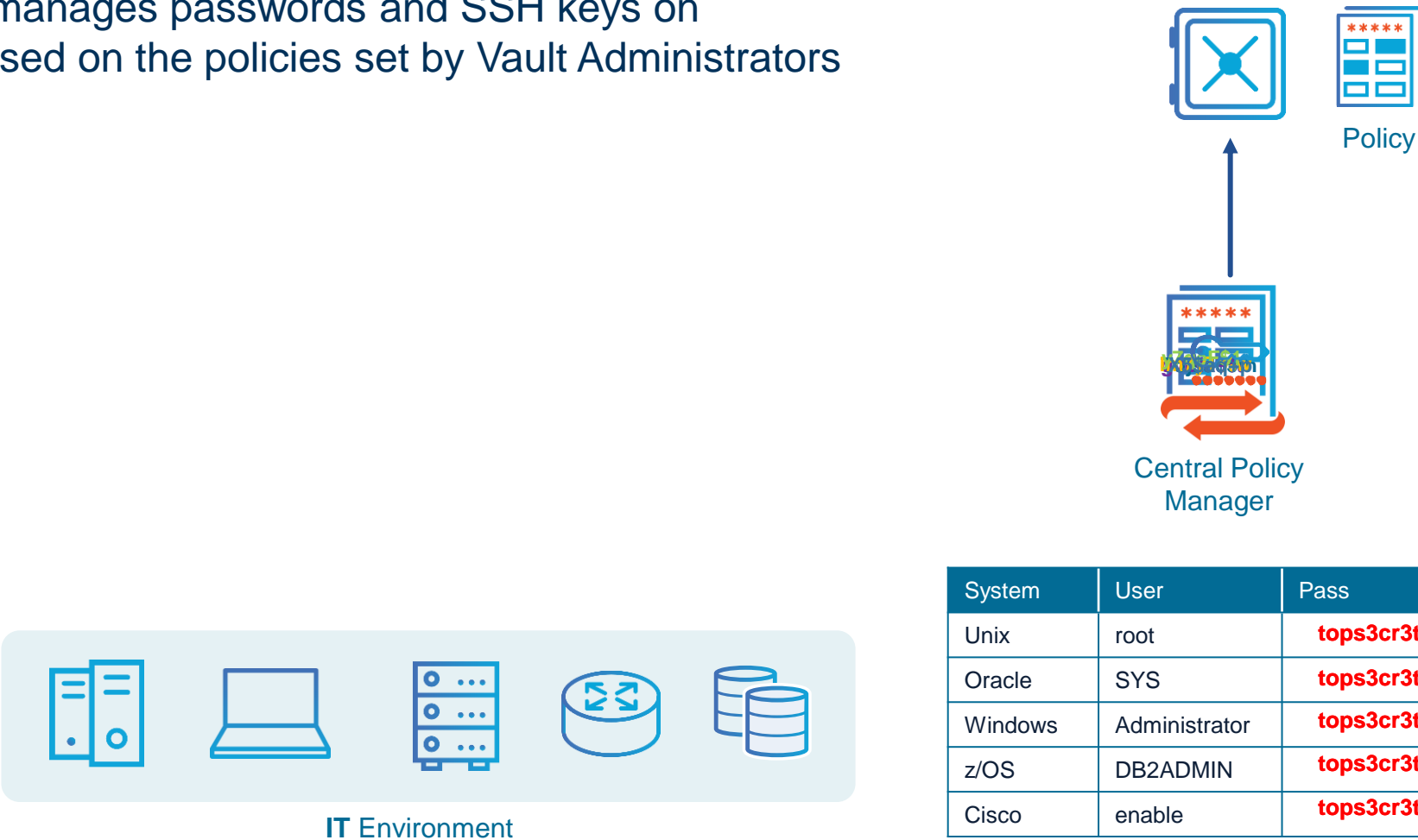
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Account Management Operations

In this section we will discuss the account management operations performed by the **CPM**

Password Management is Performed By the CPM

The **CPM** manages passwords and SSH keys on devices based on the policies set by Vault Administrators

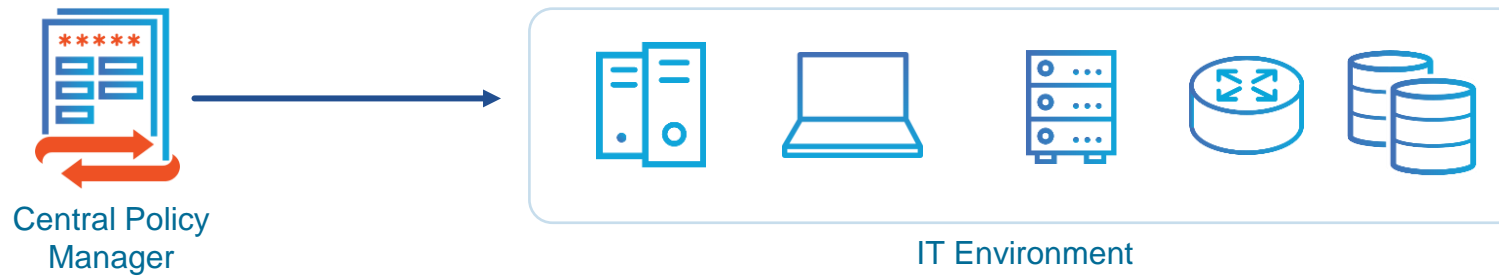


System	User	Pass
Unix	root	tops3cr3t
Oracle	SYS	tops3cr3t
Windows	Administrator	tops3cr3t
z/OS	DB2ADMIN	tops3cr3t
Cisco	enable	tops3cr3t

Password Management Overview

There are three actions performed by the CPM in order to manage privileged accounts:

- 1 Password Verification:**
Confirms the password stored in the Vault matches the password on the target system
- 2 Password Change:**
Changes the password automatically based upon an expiration period or by user intervention
- 3 Reconciliation of unknown or lost passwords:**
Process used when the password stored in the Vault does not match the target system



Verifying the Account

logon01 On target-lin.acme.corp

Platform: LIN SSH 30

Safe: Lin-Fin-US

Additional details & actions in classic interface

×

Connect

Show

⋮

Overview

Details

Versions

Compliance Status

Compliant

25

Days ago

Changed by PasswordManager
Sep 23, 2022 1:13 PM

Reconcile

Change

Last Access

by PasswordManager
Yesterday

Last Verified

0


Days ago

Verified on
Oct 18, 2022 8:05 AM

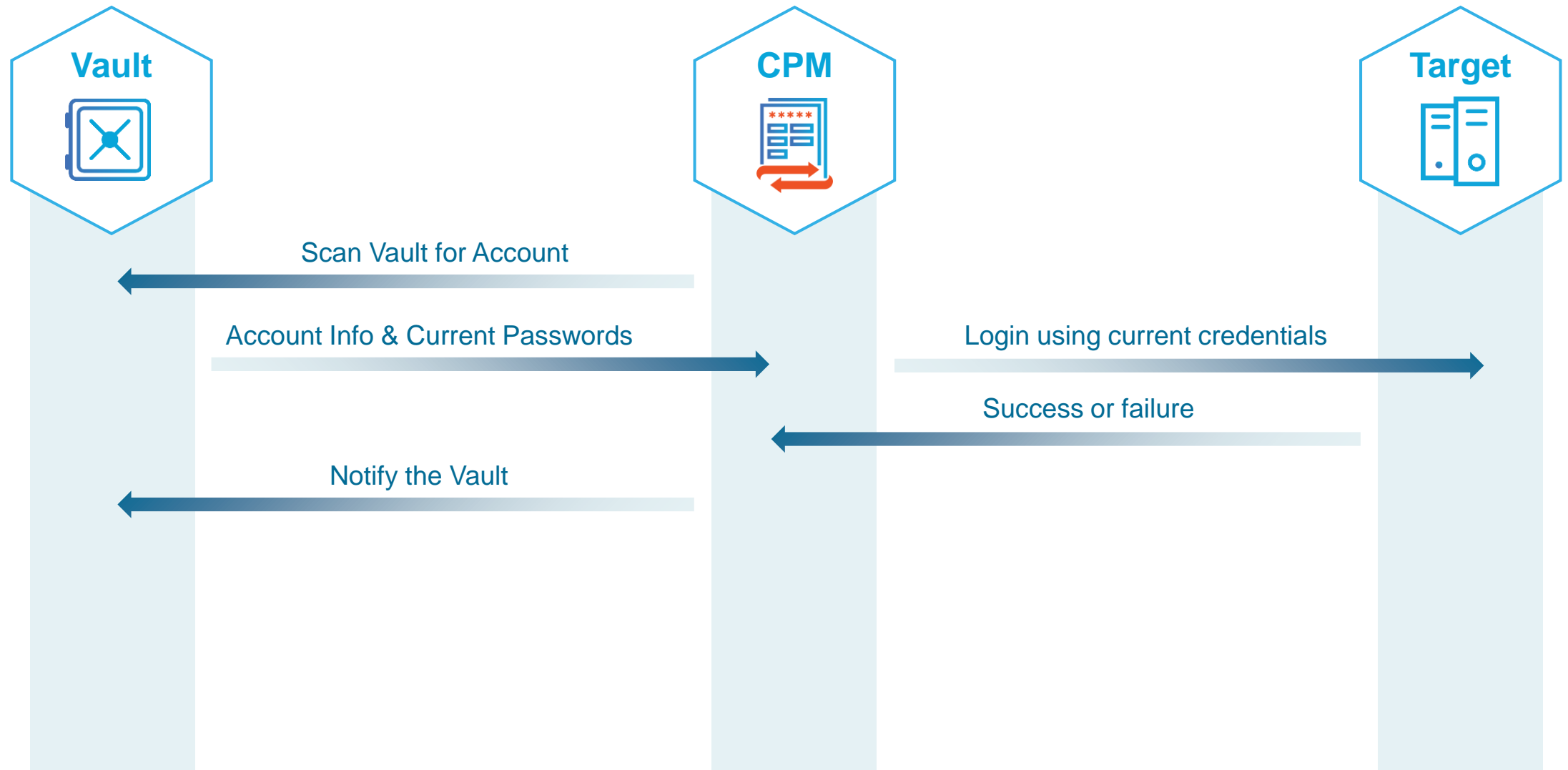
Verify

←

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Verify Process



Completed Verification

logon01 On target-lin.acme.corp

Platform: LIN SSH 30

Safe: Lin-Fin-US

Connect

Show

Overview

Details

Versions

Compliance Status Compliant

25

Days ago

Changed by PasswordManager

Sep 23, 2022 1:13 PM

Reconcile

Change

Last Access

by PasswordManager

Today

Last Verified

0


Days ago

Verified on

Oct 19, 2022 7:17 AM

Verify

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Password Change

logon01 On target-lin.acme.corp

⚡

Platform: LIN SSH 30

Safe: Lin-Fin-US

?

Additional details & actions in classic interface

✕

Show

Copy

...

Connect | ▾

Overview

Details

Activities

Versions

Compliance Status

Compliant

0

Days ago

Changed by paul

Sep 23, 2022 1:10 PM

Reconcile

Change

Activities (Last 5)

Sep 23 1:10:25 PM

paul

Add File Category

Sep 23 1:10:25 PM

paul

Add File Category

Sep 23

paul

Activate Windows

Go to Settings to activate Windows.

Confirm Change

Account view

Filter

Search for accounts

3 results for: All accounts

☆	Status	Username
☆	⚡	cpm-scan
☆	⚡	s-reconcile
☆	⚡	logon01

Last sign in: 9/23/2022 | paul

Ad hoc connectionAdd account

Additional details & actions in classic interface

ShowCopy...Connect

Activities (Last 5)

Sep 23 1:10:25 PMpaulAdd File Category

Sep 23 1:10:25 PMpaulAdd File Category

Sep 23paul

Change password for account
logon01 on target-lin.acme.corp

The CPM will change the password to a new random password

More options

Change the password only in the Vault

Specify the password for next CPM change

CancelChange

Pending Change

Account

Account is marked for change

9/23/2022 | paul

Filter

Search for accounts

Ad hoc connection

Add account

3 results for: All accounts

☆	Status	Username	
☆	⚡	cpm-scan	ac
☆	⚡	s-reconcile	ac
☆	⚡	logon01	ta

logon01 On target-lin.acme.corp

Additional details & actions in classic interface

⌚ ⚡ Platform: LIN SSH 30 Safe: Lin-Fin-US

ShowCopy...Connect

OverviewDetailsActivitiesVersions

⌚ The password for this account has been manually scheduled for change

Compliance Status Compliant

0

Days ago

Changed by paul
Sep 23, 2022 1:10 PM

ReconcileChange

Activities (Last 5)

Sep 23 1:12:40 PM

paul

Add File Category

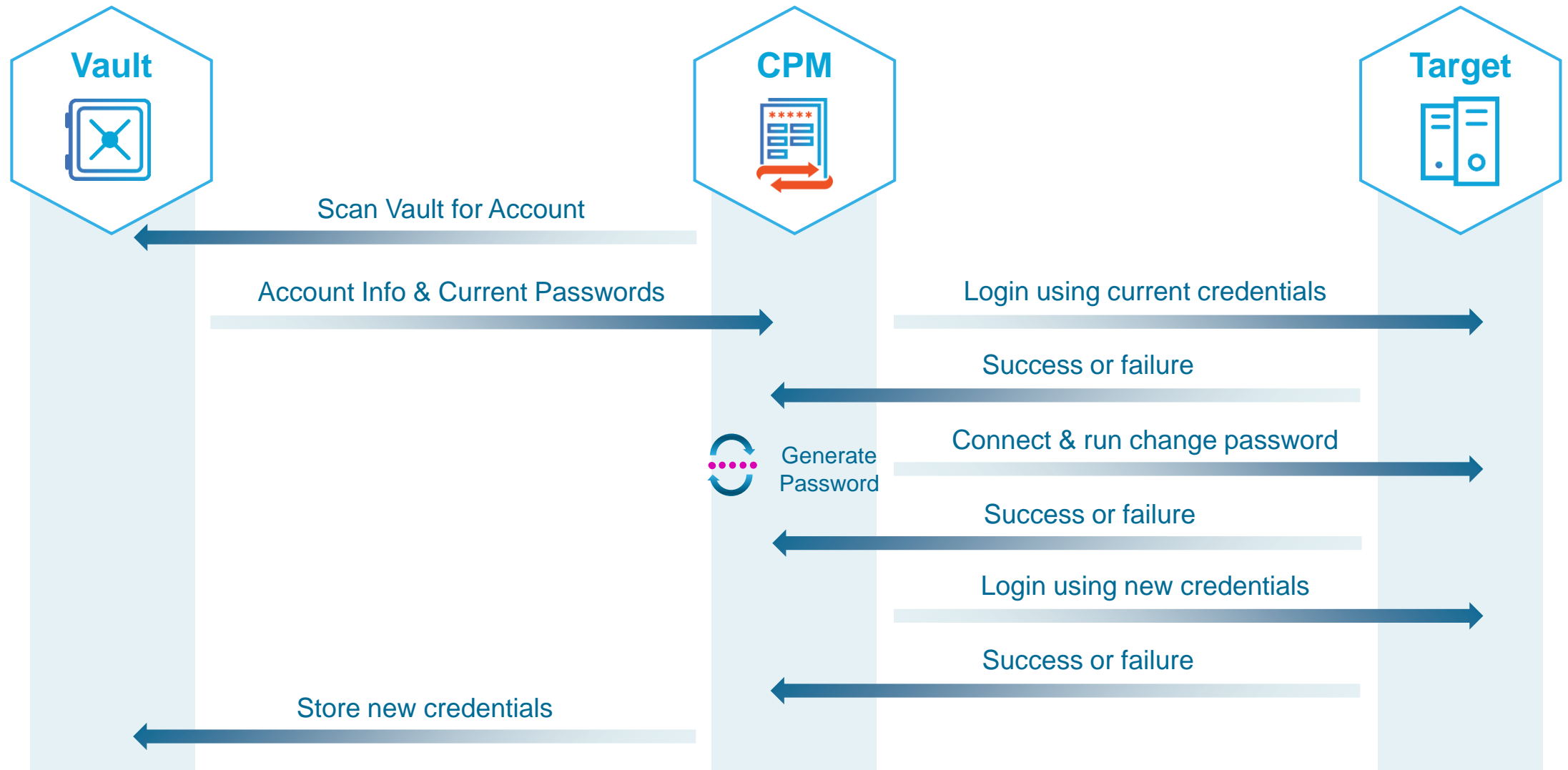
Sep 23 1:10:25 PM

paul

Add File Category

Activate Windows
Go to Settings to activate Windows.

Change Process



Completed Change

logon01 On target-lin.acme.corp

Platform: LIN SSH 30

Safe: Lin-Fin-US

Connect

Show

Overview

Details

Versions

Compliance Status Compliant

0

Days ago

Changed by PasswordManager

Oct 19, 2022 8:06 AM

Reconcile

Change

Last Access

by PasswordManager

Today


Last Verified

0

Verified on

Oct 19, 2022 7:17 AM

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Summary



Summary

In this session we discussed:

- What accounts are
- How to add an account to CyberArk PAM via the PVWA
- The different password management operations

Additional Resources



Documentation

[Rapid Risk Reduction:
A 30-Day Sprint to Protect Privileged Credentials](#)

You may now complete the following exercises:

Securing Windows Domain Accounts

- Account Management
 - Add the reconcile account
 - Add the accounts discovery account

Securing Unix SSH Accounts

Securing Oracle Database Accounts