



PAM Administration

Accounts – Part 1



Agenda

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

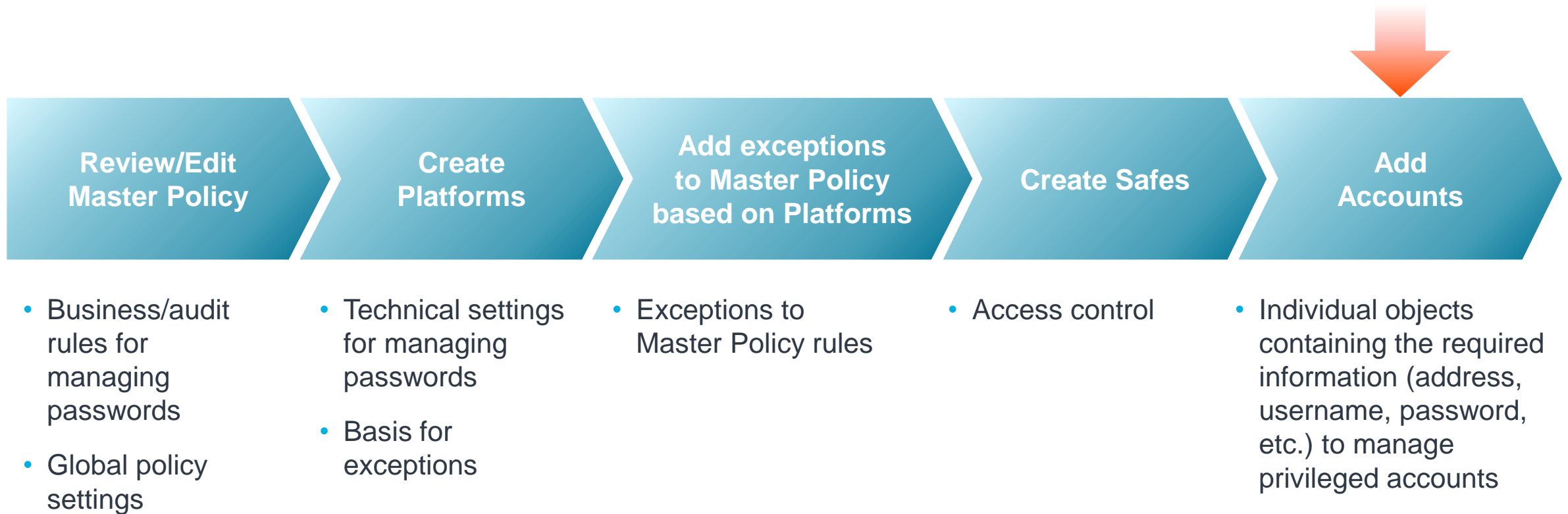
- Add an Account via the **PVWA**
- Understand the different password management operations



Overview



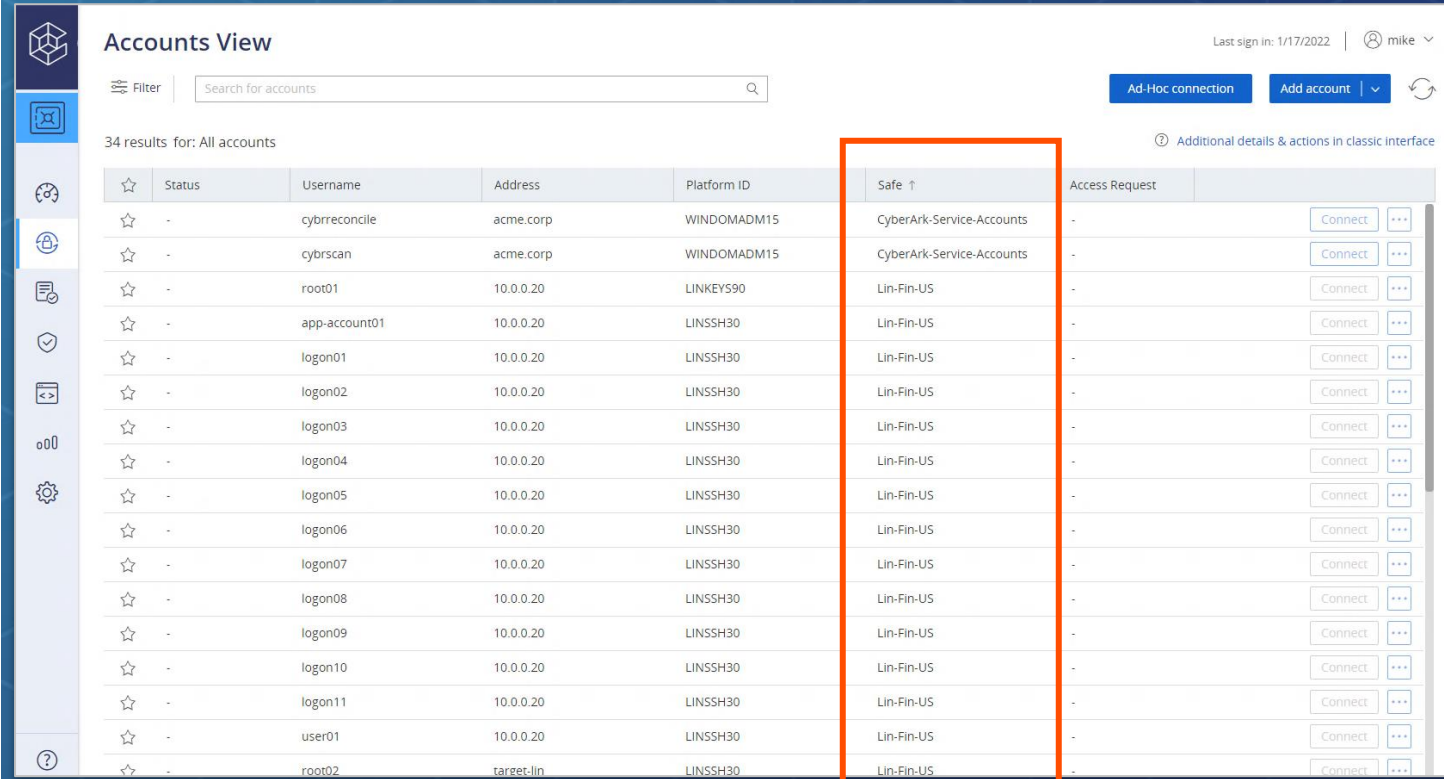
Policies, Platforms, Safes and Accounts



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**



Accounts View

Filter | Search for accounts

34 results for: All accounts

☆	Status	Username	Address	Platform ID	Safe ↑	Access Request	
☆	-	cybrreconcile	acme.corp	WINDOMADM15	CyberArk-Service-Accounts	-	Connect ...
☆	-	cybrscan	acme.corp	WINDOMADM15	CyberArk-Service-Accounts	-	Connect ...
☆	-	root01	10.0.0.20	LINKEYS90	Lin-Fin-US	-	Connect ...
☆	-	app-account01	10.0.0.20	LINSSH30	Lin-Fin-US	-	Connect ...
☆	-	logon01	10.0.0.20	LINSSH30	Lin-Fin-US	-	Connect ...
☆	-	logon02	10.0.0.20	LINSSH30	Lin-Fin-US	-	Connect ...
☆	-	logon03	10.0.0.20	LINSSH30	Lin-Fin-US	-	Connect ...
☆	-	logon04	10.0.0.20	LINSSH30	Lin-Fin-US	-	Connect ...
☆	-	logon05	10.0.0.20	LINSSH30	Lin-Fin-US	-	Connect ...
☆	-	logon06	10.0.0.20	LINSSH30	Lin-Fin-US	-	Connect ...
☆	-	logon07	10.0.0.20	LINSSH30	Lin-Fin-US	-	Connect ...
☆	-	logon08	10.0.0.20	LINSSH30	Lin-Fin-US	-	Connect ...
☆	-	logon09	10.0.0.20	LINSSH30	Lin-Fin-US	-	Connect ...
☆	-	logon10	10.0.0.20	LINSSH30	Lin-Fin-US	-	Connect ...
☆	-	logon11	10.0.0.20	LINSSH30	Lin-Fin-US	-	Connect ...
☆	-	user01	10.0.0.20	LINSSH30	Lin-Fin-US	-	Connect ...
☆	-	root02	target.lin	LINSSH30	Lin-Fin-US	-	Connect ...



Add An Account



Add A New Linux Account



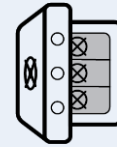
Master Policy

- 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: 10.0.0.20

Accounts View – Add a Linux Account

Accounts View

Last sign in: 8/25/2021 | mike

Ad-Hoc connection | **Add account** | ↺

Views | Recent | Saved

My accounts

- All accounts (default)
- Recently used
- Favorites
- Checked-out

Status

- Disabled by CPM
- Failed
- Newly added
- Deleted

Operational state

- Scheduled for Change
- Scheduled for Verification
- Scheduled for Reconciliation
- Successfully Reconciled


16 results for: All accounts

Additional details & actions in classic interface


☆	Status	Username	Address	Platform ID	Safe ↑	Access Request	
☆	⚡	cybreconcile	acme.corp	WINDOMADM15	CyberArk-Service-Accounts	-	Connect ...
☆	⚡	cybrscan	acme.corp	WINDOMADM15	CyberArk-Service-Accounts	-	Connect ...



Accounts View – Add a Linux Account





Add Account


Last sign in: 8/25/2021 |  mike ▾


- 1 Select system type
- 2 Assign to platform
- 3 Store in Safe
- 4 Define properties

1. Select system type

 Windows

 *NIX

 Database

 Application



Accounts View – Add a Linux Account

Add Account

Last sign in: 8/25/2021 | mike

1. Select system type
*NIX
2. Assign to platform
3. Store in Safe
4. Define properties


2. Select platform

Filter list by platform name


- LIN KEYS 90
- LIN SSH 30




Accounts View – Add a Linux Account




Add Account


Last sign in: 8/25/2021 |  mike ▾




Select system type
*NIX



Assign to platform
LIN SSH 30



Store in Safe



Define properties

3. Select Safe


Lin-Fin-US

Create Safe


Filter list by Safe name



Accounts View – Add a Linux Account



Add Account

Last sign in: 8/25/2021 |  mike ▾

✓ Select system type
*NIX

✓ Assign to platform
LIN SSH 30

✓ Store in Safe
Lin-Fin-US

4 Define properties

4. Define account properties


Primary properties

Address

Username

Password (optional)

Confirm Password

☒ Customize account name 

Cancel

< Back

Add ▾



Accounts View – Add a Linux Account

The screenshot displays the 'Accounts View' interface. On the left is a sidebar with navigation icons. The main header shows 'Accounts View' and a user profile 'mike' with the last sign-in time '8/25/2021'. Below the header is a search bar with 'logon01' and a 'Filter' button. A table lists 2 results for 'logon01':

☆	Status	Username	A
☆	⚡	logon01	10
☆	⚡	user01	10

The detailed view for 'logon01 On 10.0.0.20' is shown, including a 'Compliance Status' section (highlighted with a red box) and an 'Activities' section.

logon01 On 10.0.0.20

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

[Connect](#) [Show](#) [⋮](#)

[Additional details & actions in classic interface](#) [×](#)

[Overview](#) [Details](#) [Activities](#) [Versions](#)

Compliance Status Compliant

0 Days ago

Changed by mike
Aug 25, 2021 6:21 AM

[Reconcile](#) [Change](#)

Activities (Last 5)

- Aug 25 6:21:42 AM mike Add File Category
- Aug 25 6:21:42 AM mike Add File Category
- Aug 25 6:21:42 AM mike Add File Category

Last Verified



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. Technically speaking, that account does not even need to exist for us to do what we just did (although it does in our example).
- Once the account is “created” in CyberArk PAM, we need to make sure that we have entered the information correctly and that CyberArk PAM can actually communicate with the target machine.

The screenshot displays the CyberArk PAM interface for an account named 'logon01' on host '10.0.0.20'. The interface includes a top navigation bar with tabs for 'Overview', 'Details', 'Activities', and 'Versions'. The 'Overview' tab is active, showing a 'Compliance Status' of 'Compliant' with a large green '0' indicating '0 Days ago'. It also shows the account was 'Changed by mike' on 'Aug 25, 2021 6:21 AM' with 'Reconcile' and 'Change' buttons. A 'Last Verified' section is partially visible. On the right, the 'Activities (Last 5)' section shows three identical entries: 'Aug 25 6:21:42 AM' by 'mike' for the action 'Add File Category'. A 'Connect' button and a 'Show' button are located at the top right of the account details section.

logon01 On 10.0.0.20

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

Connect Show

Overview Details Activities Versions

Compliance Status **Compliant**

0 Days ago

Changed by mike
Aug 25, 2021 6:21 AM

Reconcile Change

Activities (Last 5)

Aug 25 6:21:42 AM	mike	Add File Category
Aug 25 6:21:42 AM	mike	Add File Category
Aug 25 6:21:42 AM	mike	Add File Category

Last Verified



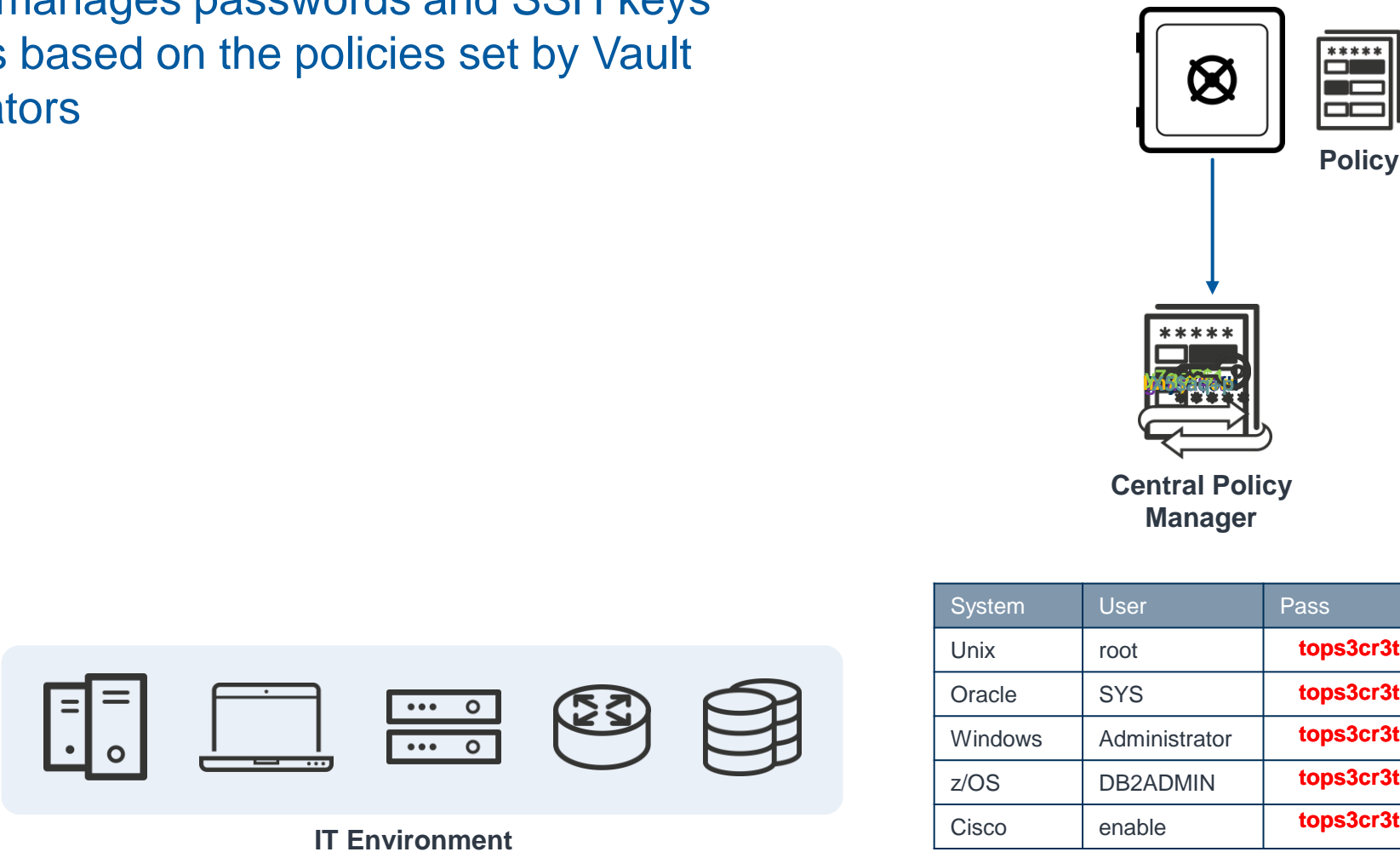
Account Management Operations

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



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

The screenshot displays the CyberArk Accounts View interface. On the left, a sidebar contains navigation icons. The main header shows 'Accounts View' and a search bar with 'logon01' entered. Below the search bar, a table lists two results for 'logon01':

☆	Status	Username	Address
☆	⚡	logon01	10.0.0.20
☆	⚡	user01	10.0.0.20

The right pane shows details for 'logon01 On 10.0.0.20'. It includes a 'Compliance Status' section with a green '0' in a circle, indicating 'Compliant' status, and a 'Last Verified' section with a red exclamation mark in a circle, indicating 'Never Verified'. A red box highlights the 'Verify' button in the 'Last Verified' section. Other sections include 'Activities (Last 5)' and 'Last Access'.

logon01 On 10.0.0.20

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

Connect Show

[Overview](#) Details Activities Versions

Compliance Status Compliant

0 Days ago

Changed by mike
Aug 25, 2021 6:21 AM

[Reconcile](#) [Change](#)

Last Verified

Never Verified
Created a few seconds ago

[Verify](#)

Activities (Last 5)

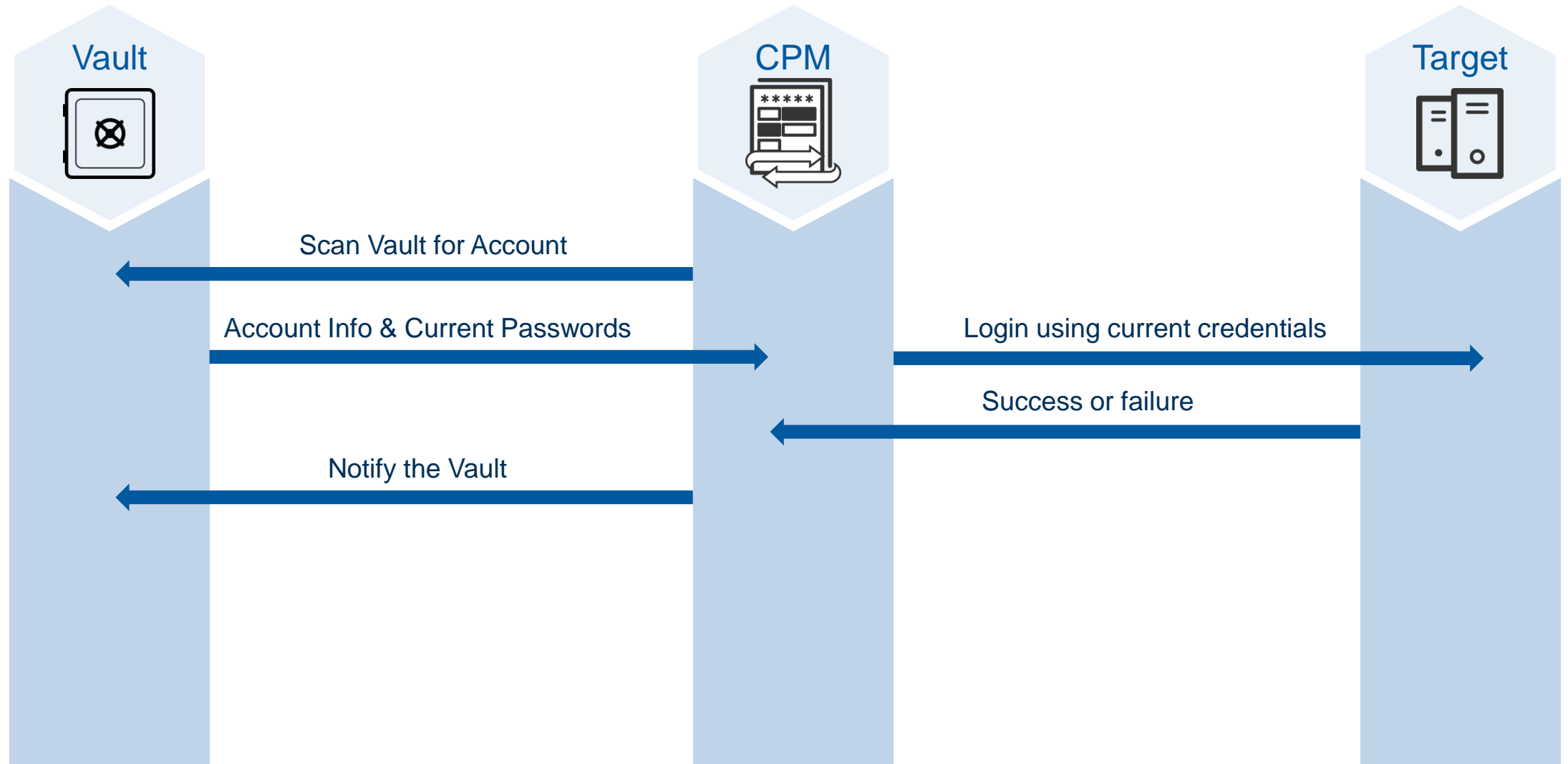
- Aug 25 6:21:42 AM mike Add File Category
- Aug 25 6:21:42 AM mike Add File Category
- Aug 25 6:21:42 AM mike Add File Category
- Aug 25 6:21:42 AM mike Add File Category
- Aug 25 6:21:42 AM mike Add File Category

Last Access

by mike Today



Verify Process



Completed Verification

The screenshot displays the 'Accounts View' interface. On the left, a sidebar contains navigation icons. The main header shows 'Accounts View' and a search filter set to 'logon01'. Below the header, a table lists search results for 'logon01'.

Status	Username	Address
⚡	logon01	10.0.0.20

The detailed view for 'logon01 On 10.0.0.20' is shown on the right. It includes tabs for Overview, Details, Activities, and Versions. The 'Overview' tab is active, displaying the 'Compliance Status' as 'Compliant' and 'Last Verified' as '0 Days ago'. The 'Last Verified' section is highlighted with a red border. Below the compliance status, there are buttons for 'Reconcile' and 'Change'. The 'Activities' section shows a list of recent actions, and the 'Last Access' section shows the last access by 'PasswordManager'.

logon01 On 10.0.0.20

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

Connect Show

Additional details & actions in classic interface

Compliance Status Compliant

0 Days ago

Changed by mike
Aug 25, 2021 6:21 AM

Reconcile Change

Last Verified

0 Days ago

Verified by PasswordManager
Aug 25, 2021 6:27 AM

Verify

Activities (Last 5)

- Aug 25 6:27:33 AM PasswordManager CPM Verify Password
- Aug 25 6:27:19 AM mike Delete File Category
- Aug 25 6:27:19 AM mike Delete File Category
- Aug 25 6:27:19 AM mike Delete File Category
- Aug 25 6:27:19 AM mike Delete File Category

Last Access

by PasswordManager Today



Password Change

The screenshot displays the CyberArk Accounts View interface. On the left, a sidebar contains navigation icons. The main header shows 'Accounts View' and a search filter set to 'logon01'. Below the filter, a table lists one result for 'logon01' with status 'Compliant' and address '10.0.0.20'. The detailed view for 'logon01 On 10.0.0.20' is shown, including tabs for Overview, Details, Activities, and Versions. The 'Overview' tab is active, displaying the 'Compliance Status' as 'Compliant' with a '0 Days ago' indicator. A 'Change' button is highlighted with a red box. Other sections include 'Last Verified' (0 Days ago), 'Activities' (Last 5), and 'Last Access'.

Accounts View

Filter: logon01

1 results for: logon01

Status	Username	Address
Compliant	logon01	10.0.0.20

logon01 On 10.0.0.20

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

Connect Show

Additional details & actions in classic interface

Overview Details Activities Versions

Compliance Status Compliant

0 Days ago

Changed by mike
Aug 25, 2021 6:21 AM

Reconcile **Change**

Last Verified

0 Days ago

Verified by PasswordManager
Aug 25, 2021 6:27 AM

Verify

Activities (Last 5)

- Aug 25 6:27:33 AM PasswordManager CPM Verify Password
- Aug 25 6:27:19 AM mike Delete File Category
- Aug 25 6:27:19 AM mike Delete File Category
- Aug 25 6:27:19 AM mike Delete File Category
- Aug 25 6:27:19 AM mike Delete File Category

Last Access

by PasswordManager Today



Confirm Change

The screenshot displays the CyberArk Accounts View interface. A modal dialog is open, titled "Change password for account logon01 on 10.0.0.20". The dialog contains the following text:

Change password for account
logon01 on 10.0.0.20

The CPM will change the password to a new random password

More options

[Change the password only in the Vault](#)

At the bottom of the dialog are two buttons: "Cancel" and "Change". The "Change" button is highlighted with a red rectangle.

In the background, the Accounts View interface is visible. It shows a table with 1 result for "logon01":

Status	Username	Address
⚡	logon01	10.0.0.20

The interface also includes a sidebar with navigation icons, a top bar with the user "mike" and the date "8/25/2021", and a "Last Verified" section showing a green "0" days ago and a "Verify" button.



Pending Change

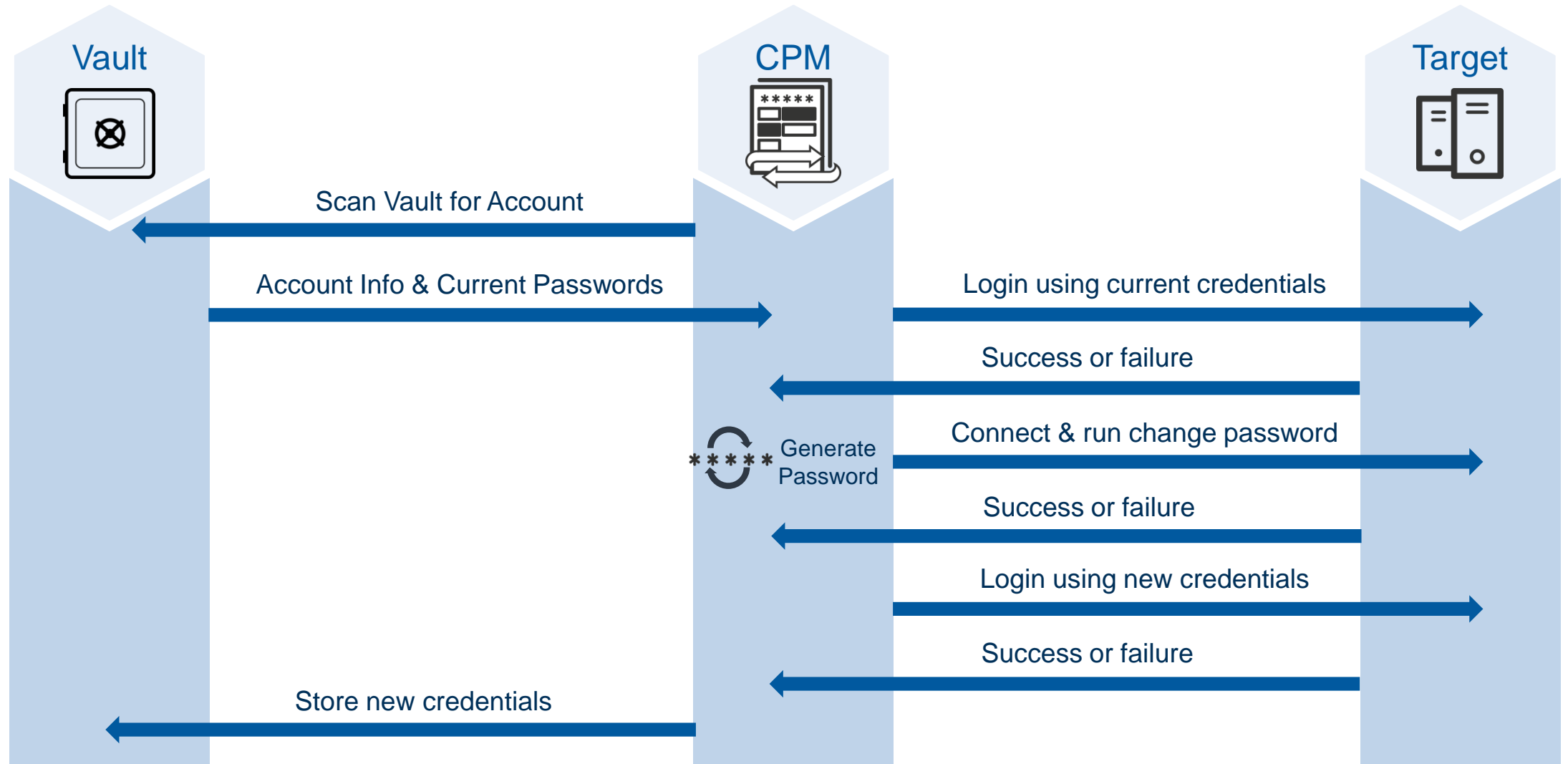
The screenshot displays the CyberArk Accounts View interface. On the left is a navigation sidebar with icons for Accounts, Connections, Policies, Reports, Settings, and a search bar. The main header shows 'Accounts View' and the user 'mike' with a last sign-in of 8/25/2021. A search filter for 'logon01' yields one result in a table:

☆	Status	Username	Address
☆	⚡	logon01	10.0.0.20

The details pane for 'logon01 On 10.0.0.20' is open, showing 'Platform: LIN SSH 30' and 'Safe: Lin-Fin-US'. A red box highlights a message: 'The password for this account has been manually scheduled for change'. Below this, the 'Compliance Status' is 'Compliant' (0 days ago), and the 'Last Verified' status is also 'Compliant' (verified by PasswordManager). The 'Activities' list shows several 'Delete File Category' actions by 'mike' and one 'Add File Category' action. The 'Last Access' section shows access by 'PasswordManager' today. Buttons for 'Connect', 'Show', and 'Ad-Hoc connection' are visible.



Change Process



Completed Change

The screenshot displays the CyberArk Accounts View interface. On the left, a sidebar contains navigation icons. The main header shows 'Accounts View' and a search bar with 'logon01' entered. Below the search bar, a table lists one result for 'logon01' with a status of 'Compliant' (indicated by a lightning bolt icon). The table has columns for Status, Username, and Address. The account details for 'logon01 On 10.0.0.20' are shown in a modal window. The 'Overview' tab is selected, showing a 'Compliance Status' of 'Compliant' with a green '0' in a circle indicating '0 Days ago'. The status was changed by PasswordManager on Aug 25, 2021 6:31 AM. Below this, the 'Last Verified' section shows a green '0' in a circle indicating '0 Days ago', verified by PasswordManager on Aug 25, 2021 6:27 AM. To the right of the compliance status, there are 'Reconcile' and 'Change' buttons. Further right, the 'Activities' section lists the last 5 activities, including 'PasswordManager CPM Change Password' and 'mike Delete File Category'. The 'Last Access' section shows access by PasswordManager today. The interface also includes buttons for 'Ad-Hoc connection', 'Add account', 'Connect', and 'Show'.

Accounts View

Filter: logon01

1 results for: logon01

Status	Username	Address
⚡	logon01	10.0.0.20

logon01 On 10.0.0.20

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

Connect Show

Additional details & actions in classic interface

Overview Details Activities Versions

Compliance Status Compliant

0 Days ago

Changed by PasswordManager
Aug 25, 2021 6:31 AM

Reconcile Change

Last Verified

0 Days ago

Verified by PasswordManager
Aug 25, 2021 6:27 AM

Verify

Activities (Last 5)

- Aug 25 6:31:39 AM PasswordManager CPM Change Password
- Aug 25 6:29:53 AM mike Delete File Category
- Aug 25 6:29:53 AM mike Delete File Category
- Aug 25 6:29:53 AM mike Delete File Category
- Aug 25 6:29:53 AM mike Add File Category

Last Access

by PasswordManager Today



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

