

PAM Administration

Discovery and Onboarding Part 2





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

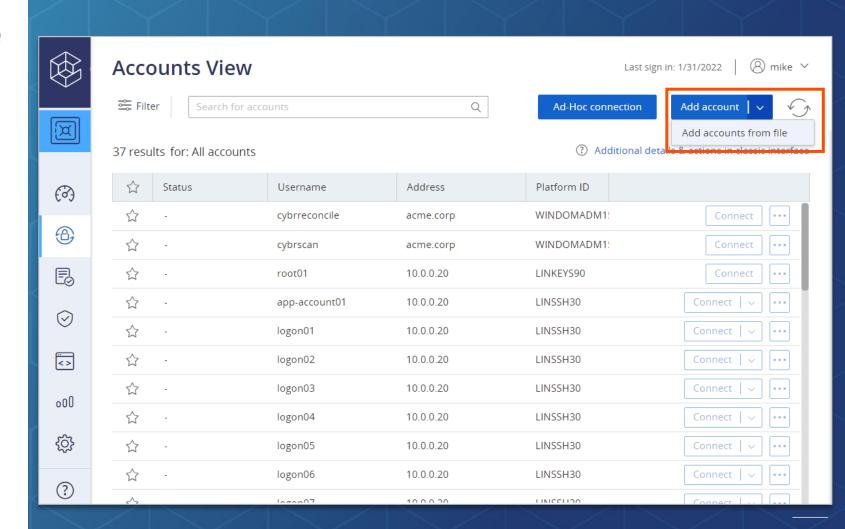
- Add multiple accounts from a file
- Describe the main capabilities of Continuous Accounts Discovery via PTA
- Describe the main capabilities of onboarding accounts via the REST API

Add Multiple Accounts From File



Add Multiple Accounts from File

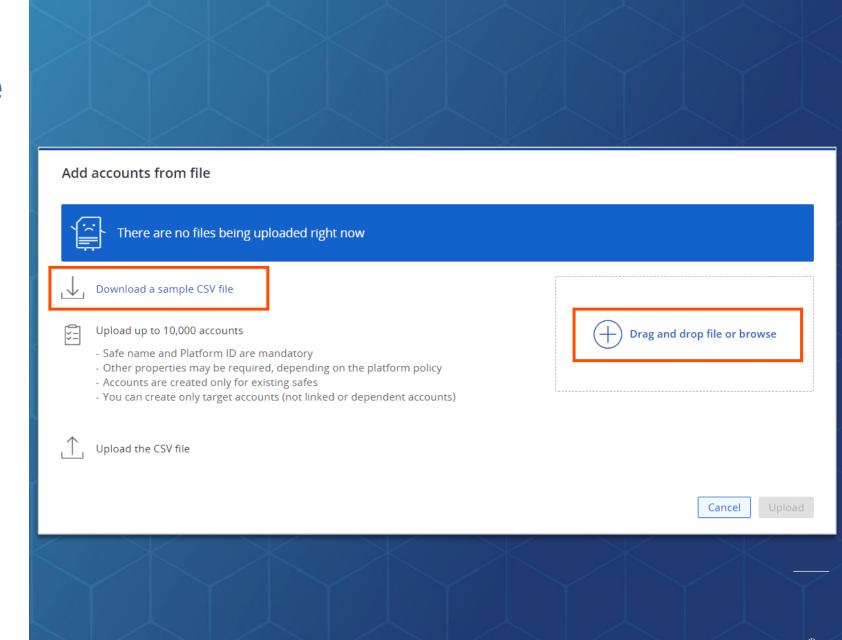
- Frequently there is a need to upload many known accounts from an existing repository
- This is especially valuable during the early stages of implementing CyberArk
 PAM, migrating from another solution, or when onboarding a new department into the PAM solution





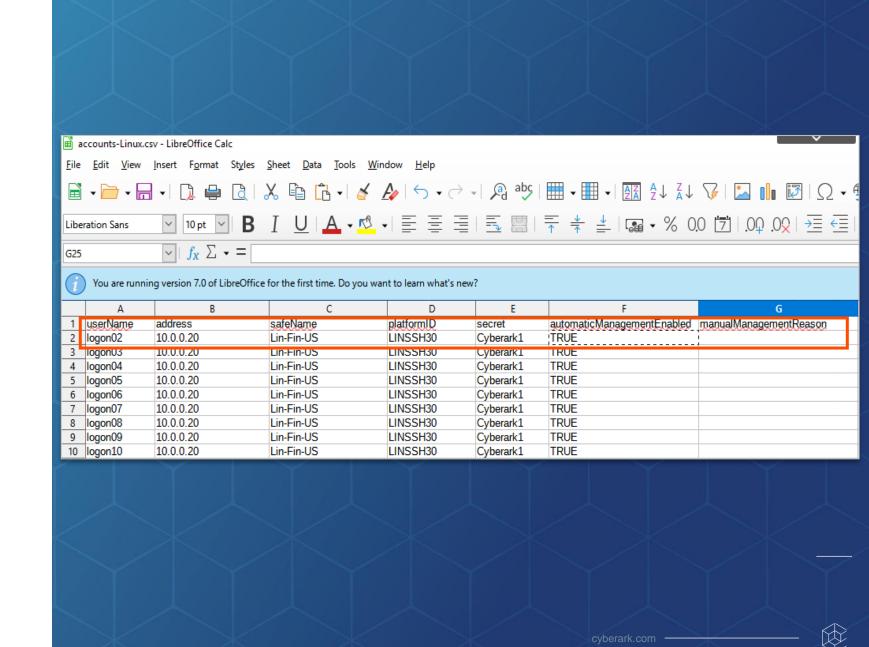
Add Multiple Accounts from File

- You can download a sample CSV file
- Once completed, you can then upload the file to the system for processing, either by browsing to the file or using drag & drop



Accounts File

- Account parameters to be uploaded to the Vault are entered into a text file as Comma Separated Values (CSV)
- Each row represents an account and contains the properties for that account



Limitations

- Linked accounts and dependencies are not supported
- All accounts must be uploaded into existing Safes and groups
- Each file can contain a maximum of 10,000 accounts
- The upload process cannot be cancelled once started
- You must wait for the current file to finish uploading before you can upload another file
- Multiple users cannot upload files at the same time



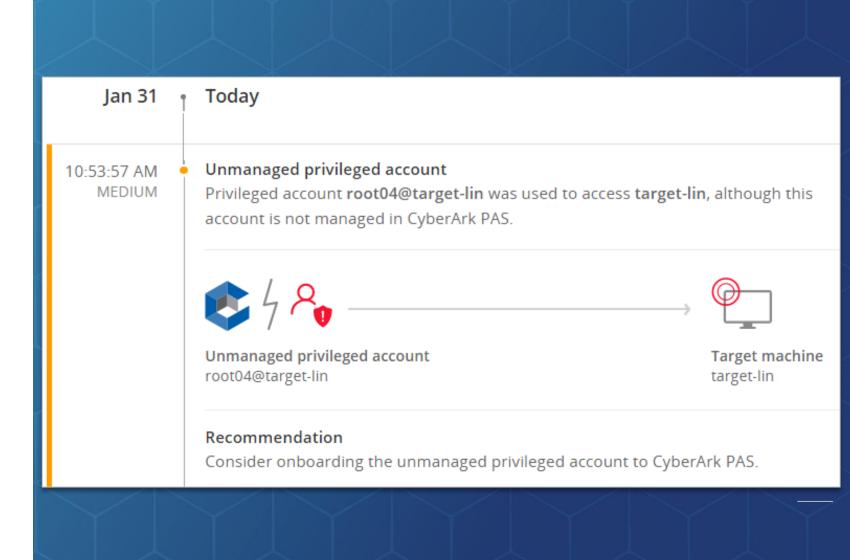
Continuous Account Discovery

- Continuous accounts discovery via log-in events for:
 - Windows
 - UNIX-like
 - Oracle
 - AWS
 - Azure
 - Other
- Continuous discovery via group membership for Windows Accounts



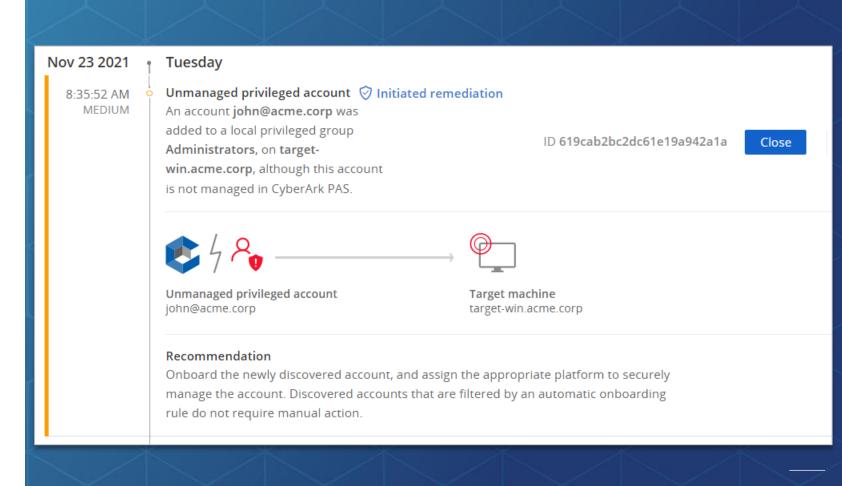
Continuous Account Discovery: Login Events

- CyberArk Privileged Threat Analytics detects unmanaged privileged access events
- The PTA can detect when a connection to a machine or a cloud service is made with a privileged account that is not stored in the Vault and automatically onboard the account
- This detection is supported out of the box for Windows, UNIX, AWS, and Azure accounts
- Other platforms can be supported by building custom plug-ins for PTA



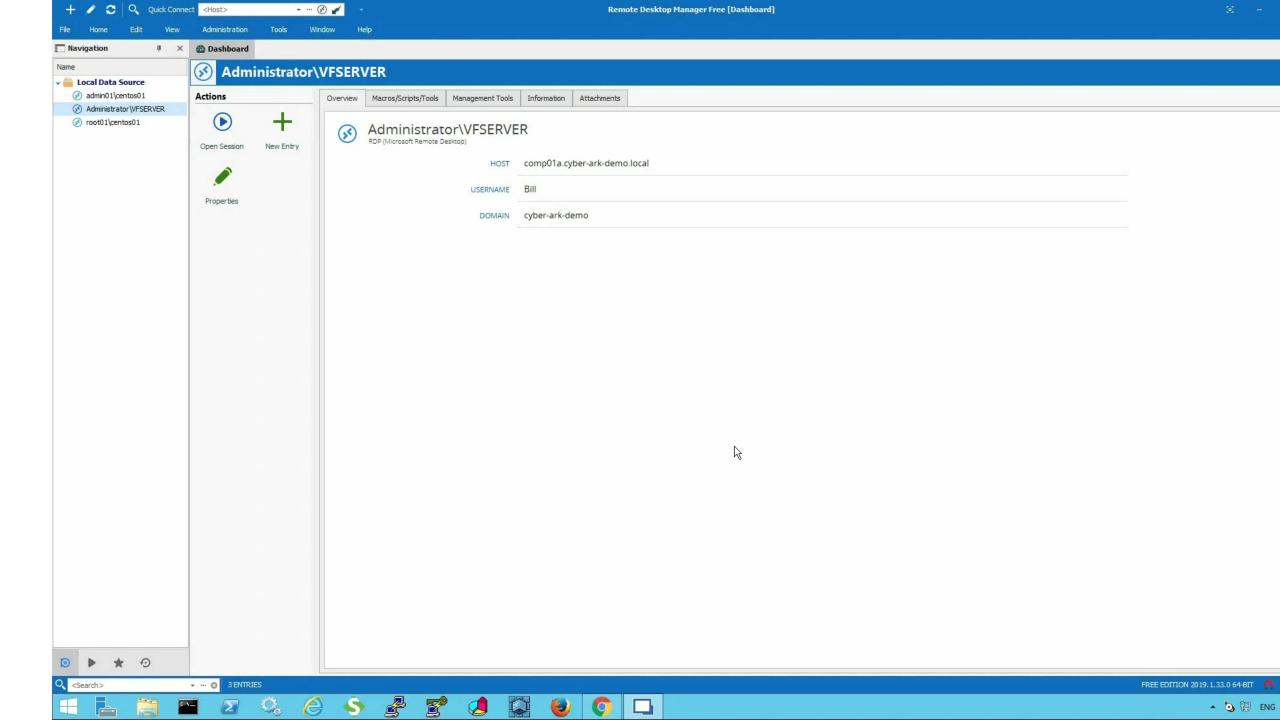
Continuous Account Discovery: Group Membership

- The PTA continuously monitors
 Windows Local Administrator
 groups to identify when users are
 added to these privileged groups.
 As soon as an account is granted
 privileged permissions, the PTA
 responds with an alert and can
 take control of this unmanaged
 privileged account
- This shortens the time it takes to detect an attacker or a malicious insider who attempts to create a backdoor account, bypassing the organizational policy



Continuous Discovery Demonstration





Rest API

- Add discovered accounts
- Add account
- Create bulk upload of accounts



PAM Web Services API

- The PAM Web Services API is a set of RESTbased calls that are installed on the PVWA that allow scripts and applications to communicate with the VauIt
- It is used by CyberArk applications as well as third-party applications, allowing organizations to develop custom interactions with the Vault to automate business processes

EXAMPLE: Integrating the process of adding a new Windows machine to the company's network with automatic provisioning of the target server local Administrator account in the **Vault**

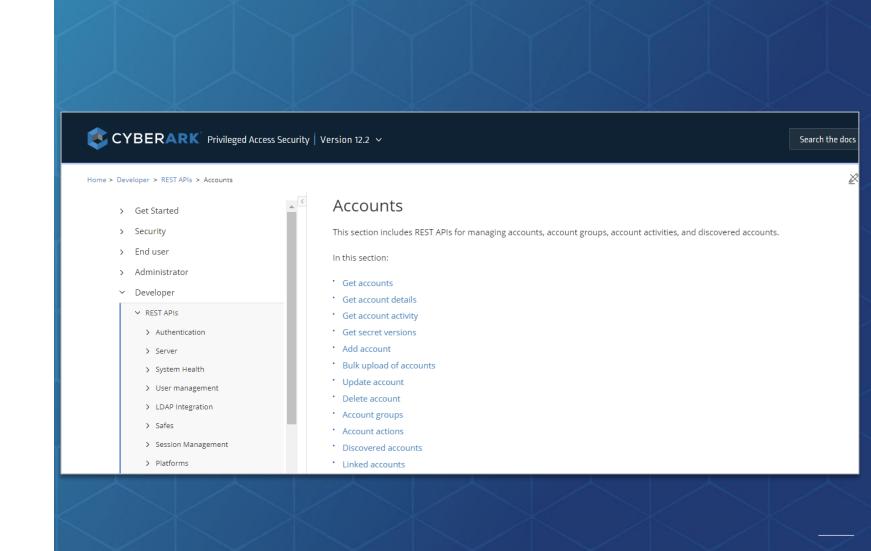




Onboarding Rest Methods

There are three main REST methods that are relevant for the process of onboarding accounts:

- Add account
- Add discovered accounts
- Create bulk upload of accounts



Add Account

The *Add Account* method will be used when the target *Safe* and *Platform* are known to the onboarding utility



Home > Developer > REST APIs > Accounts > Add account

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Add account

This method adds a new privileged account or SSH key to the Vault.



Note:

Make sure there are no spaces in the URL.

The following characters are not supported in URL values: + & %

Select the method you want to use:

2nd gen API (recommended) ^

To run this web service, you must have the following permission in the Vault:

- Add account
- · Update password or Update password properties



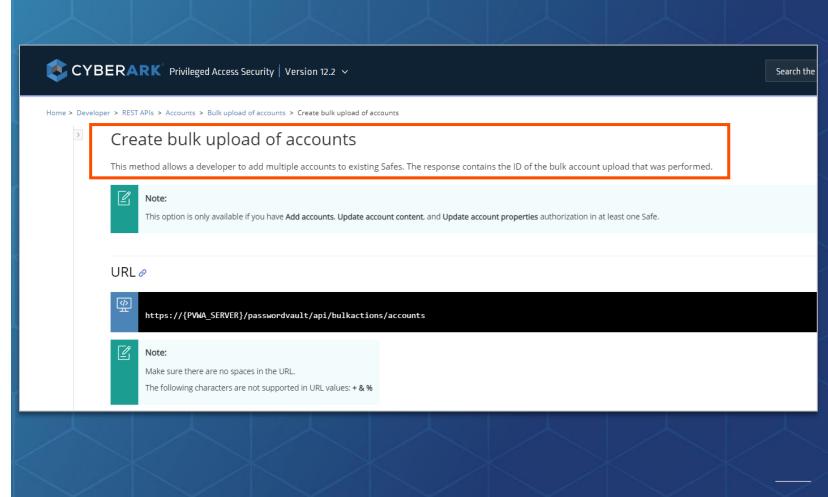
Add Discovered Accounts

CyberArk discovery and upload mechanisms, as well as third-party discovery mechanisms, will use the *Add Discovered Accounts* method in order to upload discovered accounts (and dependencies) to the Pending Safe or onboard the accounts directly via automatic onboarding rules



Create Bulk Upload of Accounts

- The Create bulk upload of accounts method is used to upload multiple accounts to existing Safes
- It is also used when adding multiple accounts from a file via the PVWA Web UI





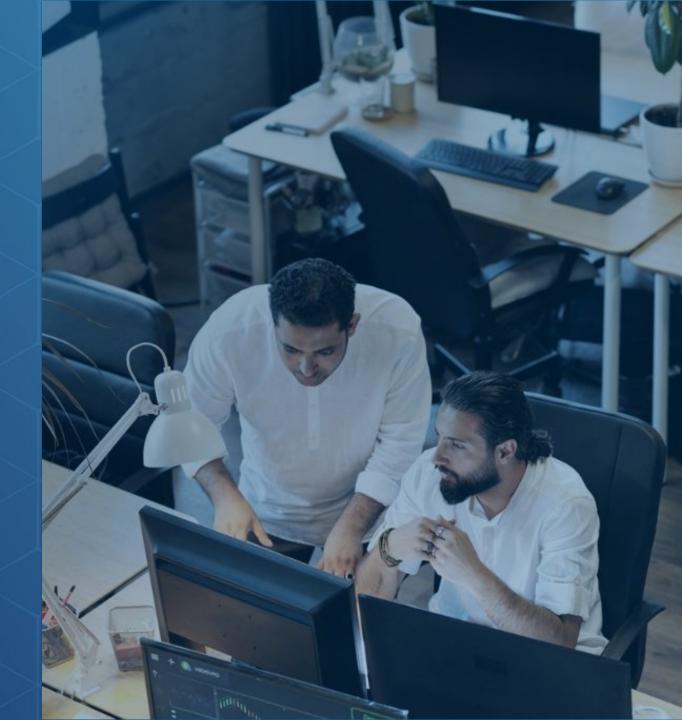
Summary

In this session we covered:



Continuous Account Discovery via PTA

Onboarding via REST API



Additional Resources



Utilities

PowerShell module for CyberArk
Privileged Account Security Web Service
RestAPI*

You may now complete the following exercises:

Discovery and Onboarding

Add multiple accounts from file