

# PAS Reporter Release Notes



>> PAS Reporter v0.60 <<



The EVD and PACLI versions that are packaged in the latest release of PAS Reporter are 12.2 in the MarketPlace. It will not work with Vault with version 12.6 or higher. You must update these 2 packaged components to match your Vault version.

For example, for v13.2 Vault here are the binaries you need to download and replace in PAS Reporter:

v13.2 EVD: <https://cyberark.my.site.com/mplace/s/#software-aK4Ht000000fxT4KAI-?file=aK2Ht000000CajxKAC>

v13.2 PACLI: <https://cyberark.my.site.com/mplace/s/#software-aK4Ht000000fxT4KAI-?file=aK2Ht000000XZEGKA4>

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## PAS Reporter v0.60 Release Notes

### New Reports section with summary reports

A new section called “Reports” has been added. In this section, structured summary reports are available that contain numerous charts and KPIs about the environment.

The reports can be exported to PDF, XLSX, DOCX, and HTML. Furthermore, reports can be automatically sent via email.

Additionally, some reports can also be automatically obfuscated so that sensitive information is anonymized.

The screenshot displays the PAS Reporter v0.60 web application interface. At the top, a navigation bar includes icons for Reports, Config Management, Safe Management, Account Management, User Management, Session Management, Permission Management, and Transa Management. Below this, the 'Reports View' section is active, showing a list of reports. The 'Environment report' is selected, and its preview is displayed. The preview shows the title 'CyberArk Privileged Access Security Environment Report' and 'Version v11.5'. A navigation pane on the left lists the report's contents, including sections like '1. Installed Product Versions', '2. License Capacity', '3. Account Management', '4. Safe Management', and '5. Session Management'. The main content area shows the report's header and a CyberArk logo.

An example summary report can be downloaded from the marketplace:

<https://cyberark-customers.force.com/mplace/s/#a352J000000pg09QAA-a392J000001h4PKQAY>

## Email (SMTP) integration

The reports from the new reports section can automatically be sent via email to desired recipients.

In the new “Report settings” section of the tool, the SMTP settings can be configured.

**Report cover page settings**

Add company name: ☒ CyberArk

Add environment name: ☒ Example Environment

Add logo to cover: ☒ Default ☐ Custom ☐ No logo

**Obfuscation settings**

---

**Email SMTP settings**

SMTP server address:

SMTP server port:   Enable TLS: ☒ Check certificate: ☒

Sender email address:

Sender display name:

SMTP authentication: ☒ Yes ☐ No

SMTP username:

Credentials retrieval: ☒ Use CP ☐ Use CCP ☐ Use PACLI

Folder name:

Safe name:

Object name:

Retrieval reason:

Application ID:

If SMTP authentication is required, the according credentials can be retrieved via AAM or PACLI.

Email jobs can be defined and configured to be sent on specific weekdays.

|           |                                                                                                                                                                                                                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Job ID:   | <input type="text" value="0"/>                                                                                                                                                                                                                                                             |
| Job name: | <input type="text" value="Example email job"/>                                                                                                                                                                                                                                             |
| Report:   | <input type="text" value="Environment report"/> <input type="button" value="v"/>                                                                                                                                                                                                           |
|           | Extensive report about the CyberArk PAS environment.<br>The report contains numerous charts and KPIs about the analyzed environment.                                                                                                                                                       |
| Format:   | <input type="text" value="PDF"/> <input type="button" value="v"/>                                                                                                                                                                                                                          |
| To:       | <input type="text" value="test@myexamplemailserver.com"/>                                                                                                                                                                                                                                  |
| CC:       | <input type="text" value="Specify CC recipients for the email job. Multiple recipients can be separated with semicolon."/>                                                                                                                                                                 |
| BCC:      | <input type="text" value="Specify BCC recipients for the email job. Multiple recipients can be separated with semicolon."/>                                                                                                                                                                |
| Weekdays: | <input checked="" type="checkbox"/> Mon <input checked="" type="checkbox"/> Tues <input checked="" type="checkbox"/> Wed <input checked="" type="checkbox"/> Thurs <input checked="" type="checkbox"/> Fri <input checked="" type="checkbox"/> Sat <input checked="" type="checkbox"/> Sun |
|           | <input type="checkbox"/> Send only once per day <span style="float: right;">Last non-manual sent date: -</span>                                                                                                                                                                            |

## New export capabilities

The reports from the new “Reports” section can be automatically exported to PDF, XLSX, DOCX, and HTML.

In the “Report settings” section of the tool, according report export jobs can be configured.

The 'Add export job' dialog box contains the following information:

- Report:** Environment report  
Extensive report about the CyberArk PAS environment. The report contains numerous charts and KPIs about the analyzed environment.
- Format:** PDF
- Folder:** C:\Users\Test\Documents (with a 'Select' button)
- Weekdays:** ☒ Mon ☒ Tues ☒ Wed ☒ Thurs ☒ Fri ☒ Sat ☒ Sun
- ☐ Export only once per day

Buttons at the bottom: Cancel, Add export job

Furthermore, the PAS Reporter data can now also be exported to CSV files automatically.

The 'CSV Export Settings' window includes the following sections:

**General Information:**

With the CSV export capability of this tool, the processed data from the tool which is stored in the tool's SQLite database can be exported to CSV files. This means that for each table that contains processed data, a CSV file can be generated that contains the table's information. Please note, that only tables that contain data can be exported. For instance, the tool does only create the platform policies information table if platform policy ini-files were added and processed with the tool. Another example is that the PSM session information tables are only created if the EVD loglist export has been added and processed with the tool.

Generally, the tool can create and provide the most information if all supported EVD exports and all supported configuration files were added and successfully processed with the tool. Please also see the Help section of this tool in order to get further information about the supported EVD exports, configuration files, and other important information regarding this tool.

**Select tables for CSV file export**  
Note: Only tables with data will be exported

| Table Name                                                                 | Data | View Table Data                 |
|----------------------------------------------------------------------------|------|---------------------------------|
| <input checked="" type="checkbox"/> SafeStatistics                         | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> SafesCreation                          | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> TopSafeCreators                        | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> ObjectsInVault                         | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> LargestSafes                           | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> SafesObjectFilesAccounts               | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> AllObjectsGroupedByCreationsDate       | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> ObjectsCountByPeriod                   | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> TotalFilesGrowth                       | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> SafeRetentionSettings                  | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> OwnerShips                             | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> AllDeletedObjectsGroupedByDeletionDate | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> NumberOfObjectsDifference              | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> AccountStatistics                      | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> AccountByCPMStatus                     | Yes  | <a href="#">View table data</a> |
| <input checked="" type="checkbox"/> AccountsByPolicy                       | Yes  | <a href="#">View table data</a> |

**Export Options:**

- File encoding: utf-8
- Export folder: C:\Users\Mike\Desktop\Ex (with a 'Select' button)
- Column headers: ☒ Include column headers in CSV export
- Filename: ☐ Add datetime to filename  
☒ Prepend datetime ☐ Append datetime
- Subfolders: ☐ Put export in subfolder with datetime as folder name
- Auto export: ☒ No ☐ Yes ☐ Only when tool is run in auto-mode

Buttons at the bottom: Export, Load defaults, Save

## REST API integration

This version comes with a REST API integration which allows to retrieve information that is (exclusively) available via REST API.

The REST API integration can be configured in the new “REST API Settings” section of the tool.

The screenshot shows the 'Settings and Help' window with the 'REST API Settings' tab selected. The 'Connection settings' section includes fields for PVWA address (https://comp01), Application name (PasswordVault), Authentication method (RADIUS), Concurrent connection (RADIUS), Skip SSL certificate check, and Use client certificate. The 'Authentication settings' section includes fields for Automate authentication, EPV / LDAP user, Credentials retrieval (Use CP, Use CCP, Use PACLI), Folder name (Root), Safe name, Object name, Retrieval reason (PAS Reporter automation), and Application ID. A text box on the right explains the REST API integration and lists three checked options: Get installed component versions, Get additional policies information, and Get OPM policy rules.

All authentication methods that are currently via REST API can be used. Furthermore, the authentication for some authentication methods (e. g. CyberArk & LDAPS) can be automated via automatic credentials retrieval through AAM or PACLI.

The REST API integration allows to retrieve the following information:

- Installed component versions (e. g. PVWA, CPM, PSM versions)
- Additional policy information (e. g. whether or not a platform is active or inactive)
- OPM policy rules information

## New configuration management reports

In the configuration management sections, new reports are available for installed versions, OPM command groups, and OPM policy rules.

 The installed Vault version is determined through the Italog file. The installed component versions are determined through the REST API. Please process the Vault Italog file with the tool and configure the installed components determination in the REST API settings section of this tool.

Search

| Component    | Version     | IP        | Disabled | Last Logon Date     | Last Logon Days Ago |
|--------------|-------------|-----------|----------|---------------------|---------------------|
| ▶ Vault      | 11.5.0.14   | 10.0.0.10 | -        | -                   | -                   |
| PVWA         | 11.5.0.2    | 10.0.0.15 | No       | 2020-07-12 18:56:27 | 0                   |
| CPM          | 11.5.0.2    | 10.0.0.15 | No       | 2020-07-12 18:56:40 | 0                   |
| PSM          | 11.4.0.6    | 10.0.0.15 | No       | 2020-07-12 18:56:10 | 0                   |
| PSM for SSH  | 10.6.0.0    | 10.0.0.45 | No       | 2020-05-18 15:11:13 | 55                  |
| PSM for SSH  | 11.4.0.0    | 10.0.0.50 | No       | 2020-06-28 21:04:40 | 14                  |
| AAM Provider | 10.10.0.628 | 10.0.0.20 | No       | 2020-06-28 21:26:25 | 14                  |
| AAM Provider | 7.20.92.0   | 10.0.0.50 | No       | 2020-06-28 21:04:33 | 14                  |
| AAM Provider | 11.2.0.11   | 10.0.0.15 | No       | 2020-06-28 17:42:13 | 14                  |
| AAM Provider | 11.2.0.11   | 10.0.0.15 | No       | 2020-06-22 23:06:30 | 20                  |
| AAM Provider | 10.10.0.628 | 10.0.0.15 | No       | 2020-07-12 19:24:51 | 0                   |
| AAM Provider | 7.20.92.0   | 10.0.0.70 | No       | 2020-06-26 20:04:47 | 16                  |

Search

Policy ID ▲ Command Group ▲

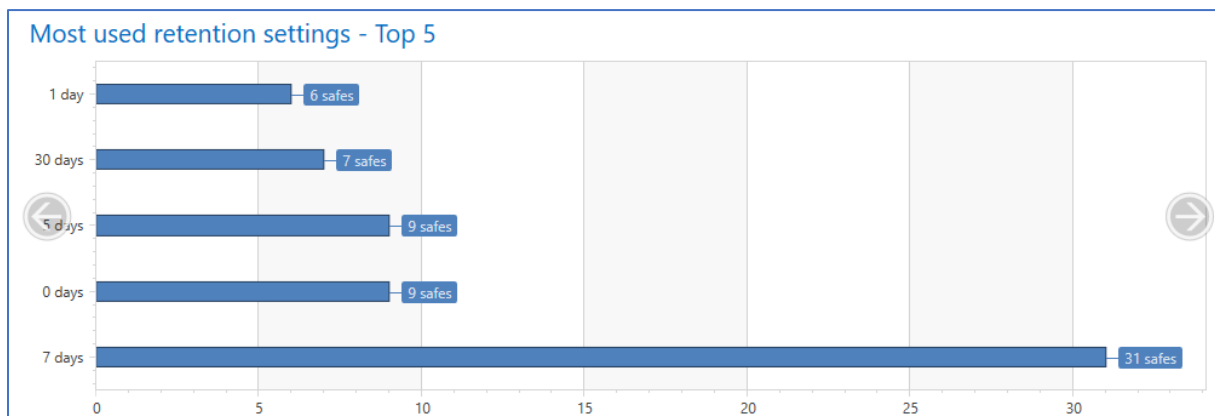
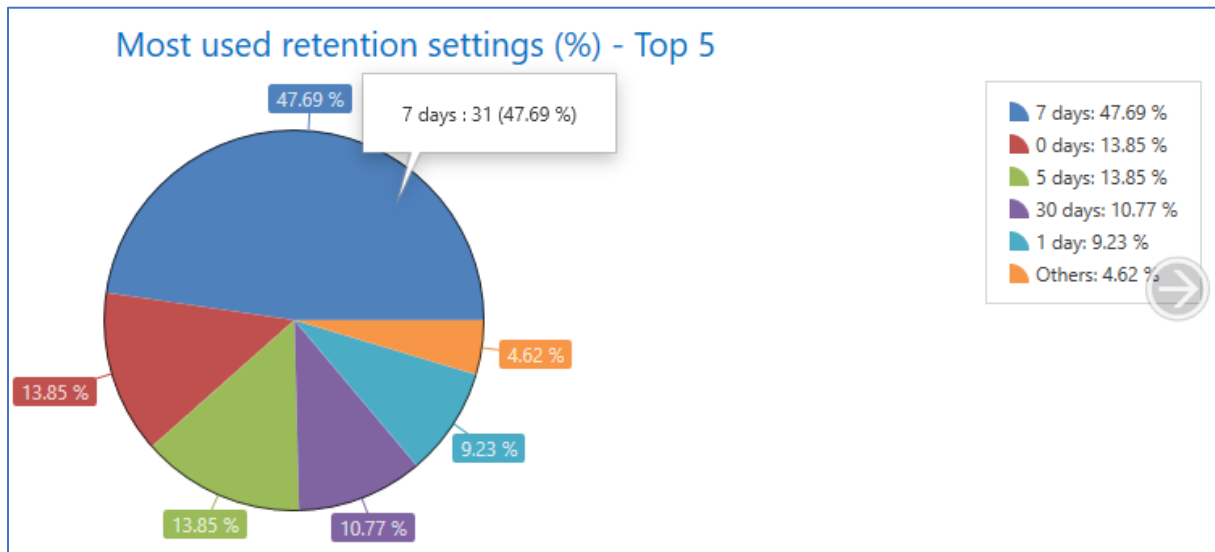
| Platform Is Active      | OPM Enabled | Command                                 |
|-------------------------|-------------|-----------------------------------------|
| ▲ Policy ID: DB2UnixSSH |             |                                         |
| ▶                       | ▶           | Command Group: BashProfile              |
|                         | ▶           | Command Group: SHELLS                   |
|                         | ▶           | Command Group: sysconfig-network-linux4 |
|                         | ▶           | Command Group: tcshProfile              |
|                         | ▶           | Policy ID: InformixUnixSSH              |
|                         | ▶           | Policy ID: MacLocalAccounts             |

Search

|   | Policy ID | Platform Is Active | Command         | Command Group | Permission Type | Type   | User Name   | Is Group |
|---|-----------|--------------------|-----------------|---------------|-----------------|--------|-------------|----------|
| ▶ | UnixSSH   | Yes                | .*              | No            | Allow           | Policy | *           | No       |
|   | UnixSSH   | Yes                | /usr/bin/rm.*   | No            | Allow           | Policy | Unix Admins | Yes      |
| ⊞ | UnixSSH   | Yes                | Etc/Shadow      | Yes           | Allow           | Policy | Unix Admins | Yes      |
| ⊞ | UnixSSH   | Yes                | Firewall Config | Yes           | Allow           | Policy | Unix Admins | Yes      |
| ⊞ | UnixSSH   | Yes                | UserAdd         | Yes           | Deny            | Policy | *           | No       |
| ⊞ | UnixSSH   | Yes                | VI              | Yes           | Allow           | Policy | Unix Admins | Yes      |

## New safe management reports

In the safe management section new reports are available about safe retention settings.



Furthermore, the safe IDs as well as the sharing options can now be seen in the “Safes View”.

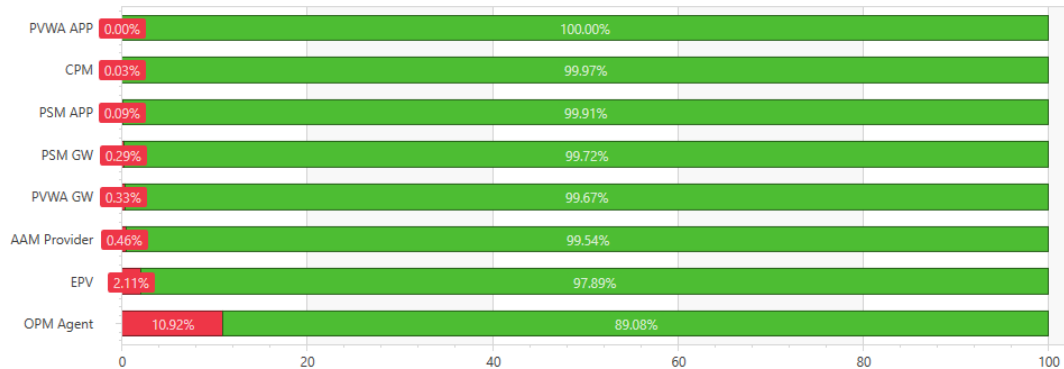
| Safe ID | Safe Name            | Access to fully impersonated u... | Access to partially impersonated users | Enfore safe opening from Priv... | Access with additional server au... |
|---------|----------------------|-----------------------------------|----------------------------------------|----------------------------------|-------------------------------------|
| 0       | System               | No                                | No                                     | No                               | No                                  |
| 1       | Pictures             | No                                | No                                     | No                               | No                                  |
| 2       | VaultInternal        | Yes                               | No                                     | No                               | Yes                                 |
| 3       | Notification Engine  | Yes                               | No                                     | No                               | Yes                                 |
| 4       | PVWAUserPrefs        | Yes                               | No                                     | No                               | Yes                                 |
| 5       | PVWAConfig           | Yes                               | No                                     | No                               | Yes                                 |
| 6       | SharedAuth_Internal  | Yes                               | No                                     | No                               | Yes                                 |
| 7       | PVWAReports          | Yes                               | No                                     | No                               | Yes                                 |
| 8       | PVWATicketingSyst... | Yes                               | No                                     | No                               | Yes                                 |
| 9       | PVWATaskDefinitions  | Yes                               | No                                     | No                               | Yes                                 |
| 10      | PVWAPrivateUserP...  | No                                | No                                     | No                               | No                                  |
| 11      | PVWAPublicData       | Yes                               | No                                     | No                               | Yes                                 |

## New transaction management reports

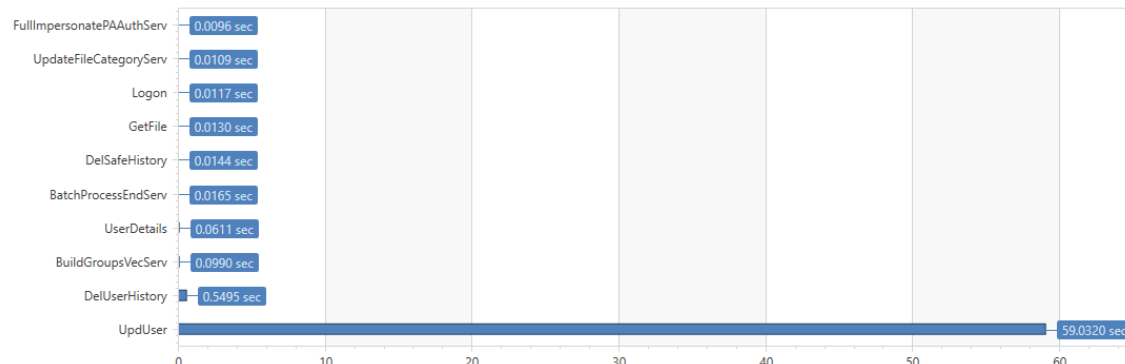
Various new reports have been added to the transaction management section.

- Reports about determined component versions (via logon transactions)
- Reports on failed transactions
- Reports about search output records
- Reports about average and maximum queue times

Failed Transactions by user type (%)



Average queue time by service - Top 10



Detected component versions (via logon transactions)

| Type           | Version    | IP      |  |
|----------------|------------|---------|--|
| ▶ AAM Provider | 10.5.0.23  | 130.... |  |
| AAM Provider   | 10.5.0.23  | 130.... |  |
| Backup         | 10.6.0.23  | 130.... |  |
| CPM            | 10.6.0.12  | 130.... |  |
| DR             | 10.6.0.23  | 141.... |  |
| OPM Agent      | 10.9.0.18  | 130.... |  |
| OPM Agent      | 10.8.0.193 | 130.... |  |
| OPM Agent      | 10.8.0.193 | 130.... |  |
| PSM            | 10.8.0.1   | 129.... |  |
| PSM            | 10.8.0.1   | 141.... |  |
| PVWA           | 10.6.0.12  | 129.... |  |

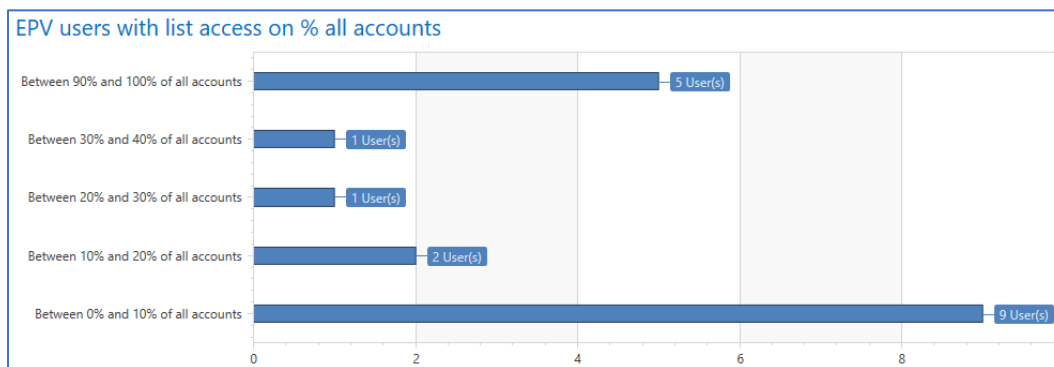
**Additionally, the data processing performance was optimized. The processing speed was observed to be up to 90% faster (depending on the amount and then contents of the processed trace files).**

## New reports and information in account, permission, and session management views

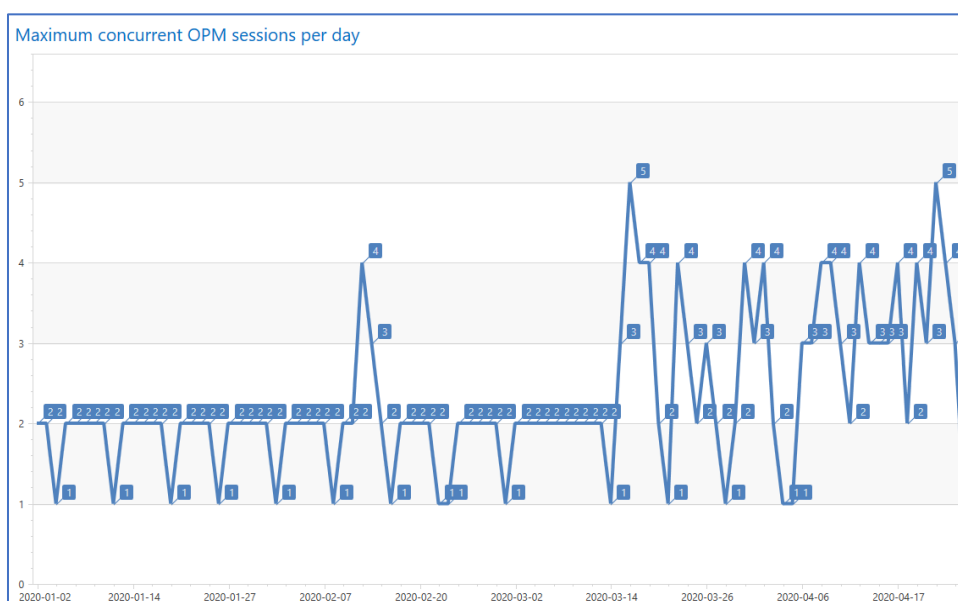
In the accounts management section, the account IDs can now be seen in the “Accounts view”. Having the account IDs can particularly be helpful for using the information for REST API actions.

| Safe Name                         | Folder | Account ID |
|-----------------------------------|--------|------------|
| Safe Name: Cloud Console Accounts |        |            |
| Cloud Console Acc...              | Root   | 34_11      |
| Cloud Console Acc...              | Root   | 34_14      |
| Cloud Console Acc...              | Root   | 34_13      |
| Cloud Console Acc...              | Root   | 34_12      |
| Cloud Console Acc...              | Root   | 34_5       |
| Cloud Console Acc...              | Root   | 34_7       |
| Cloud Console Acc...              | Root   | 34_6       |

Many charts in the permission management view were “re-build” so that the information is more clear and “readable”.



In the session management section, there is now a “OPM Sessions View” which allows to analyze OPM sessions. Furthermore, a report for concurrent OPM sessions has been added.



## Other new features

In addition to the installed component versions determination via REST API, the Vault version is determined as well via the analysis of the Italog file. Retrieving the Italog can be configured in the “General Settings” section of the tool.

**Italog settings** (for determining the installed Vault version)

Retrieve Italog file: ☒ <Select a credential file:

▼ Advanced Italog settings

It is now possible to “fine-tune” EVD exports via new settings in the “General Settings” section of the tool.

^ Advanced EVD export settings

Number of records per chunk:

Number of records per send:

## Bugfixes

| Bug description                                                                                                                                                            | Comment                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "Object cannot be cast from DBNull to other types". The error happens while sessions information is determined.                                                            | The issue occurred when “incomplete” session recordings had null values for the recording end time. The issue should be fixed now (“incomplete” recordings are filtered). |
| Some user types were not determined in the transaction analysis section even though the according regex was defined correctly.                                             | The issue should be fixed now. Some regex checks were missing.                                                                                                            |
| Some user types could not be determined in the transaction management section even though the traces were processed along with a non-EVD user list export.                 | The issue should be fixed now. Some user type checks were missing.                                                                                                        |
| The SQL export is not finished because the tool is closing before the export is complete when using auto-mode.<br>When using the GUI it works, and the export is complete. | The issue should be fixed now. The tool will wait for the export task to complete before the application is closed in auto-mode.                                          |
| In some data the sorting for numeric values is not working properly (e. g. platform policies view)                                                                         | The issue should be fixed now. The cause was that some data was not stored using the correct data type (e. g. varchar instead of integer).                                |

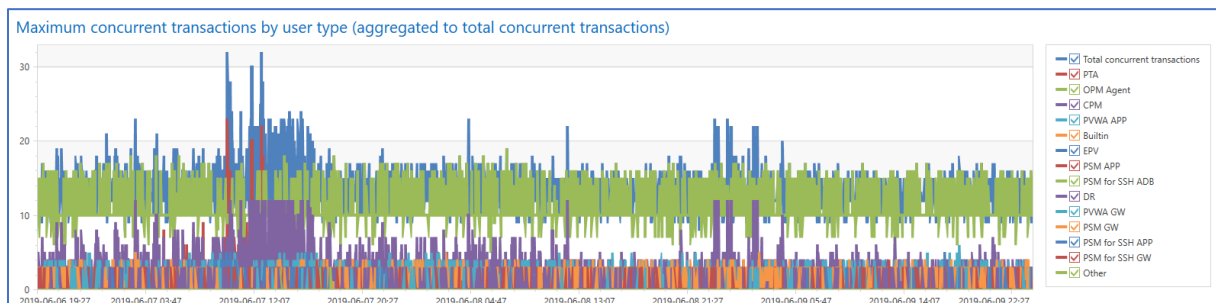
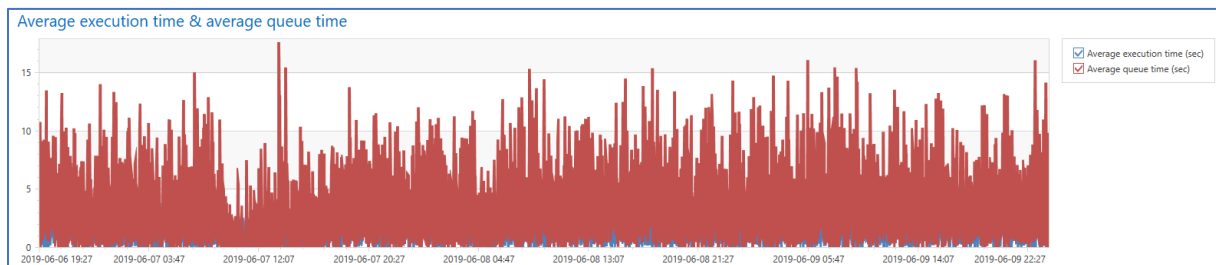
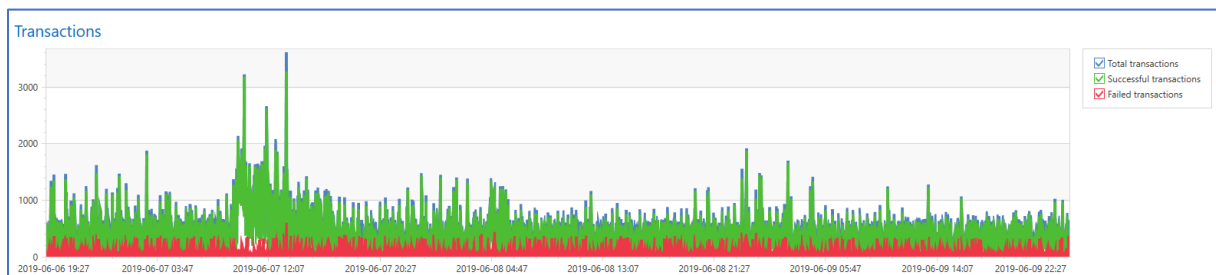
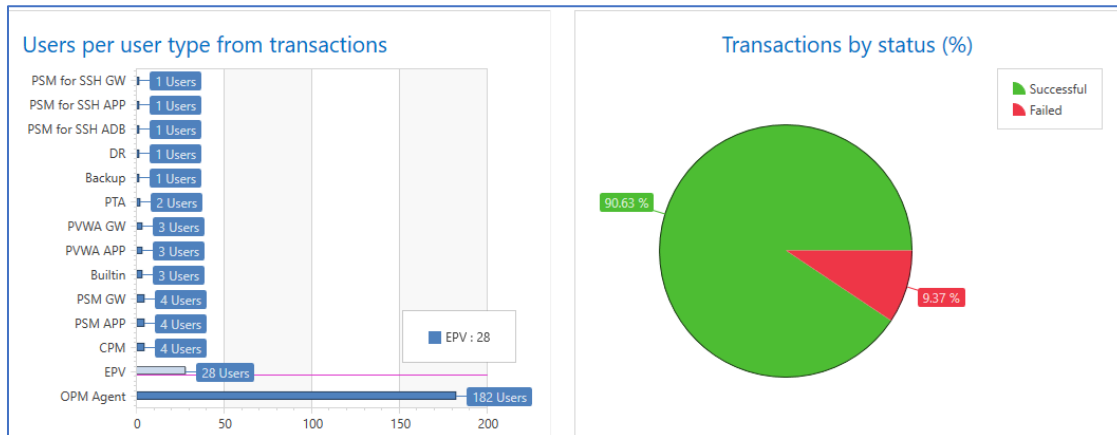


If one of the bugs mentioned above still occurs in your environment or if you find a new bug, please report it in the CyberArk customer community:  
<https://cyberark-customers.force.com>

# PAS Reporter v0.50 Release Notes

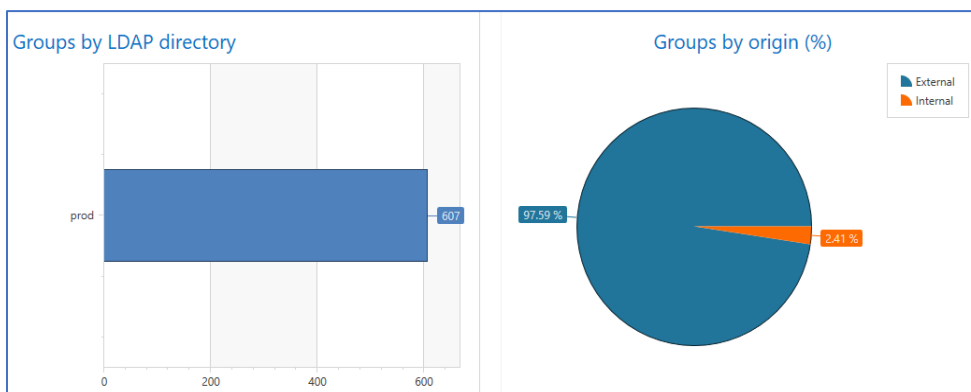
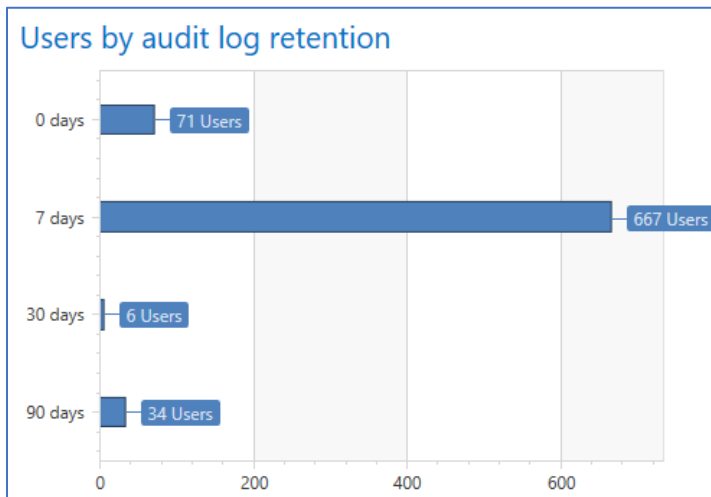
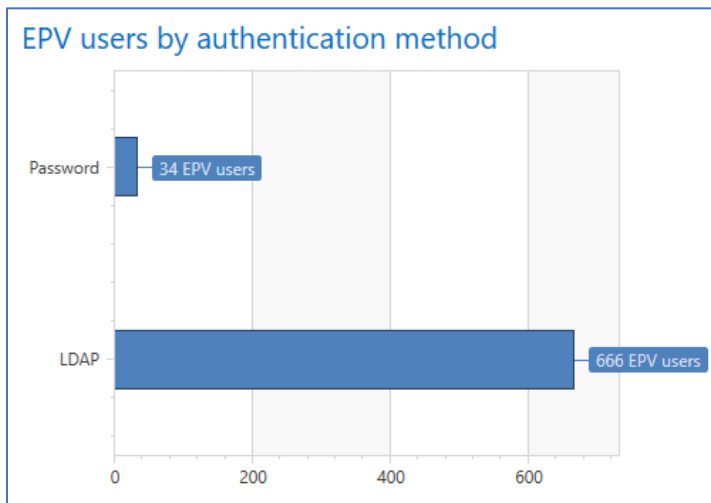
## Vault transactions analysis

In this version, the analysis of Vault transactions using Vault trace files has been introduced. The analysis of Vault transactions allows to get insights into to load on the Vault from individual components for instance.



## New user reports

New charts have been added that illustrate the authentication methods for EPV users and user audit retention settings. Furthermore, charts regarding groups information have been added as well.



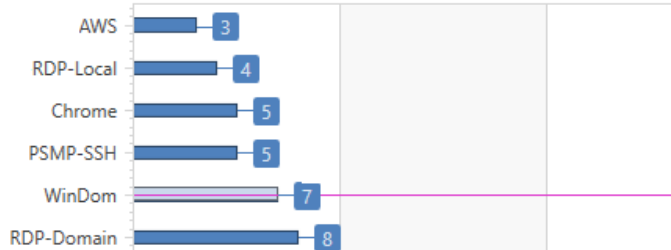
## Performance enhancements

The data processing has been enhanced in this version. Performance enhancements can particularly be noted when there is a large number of accounts information in the EVD data.

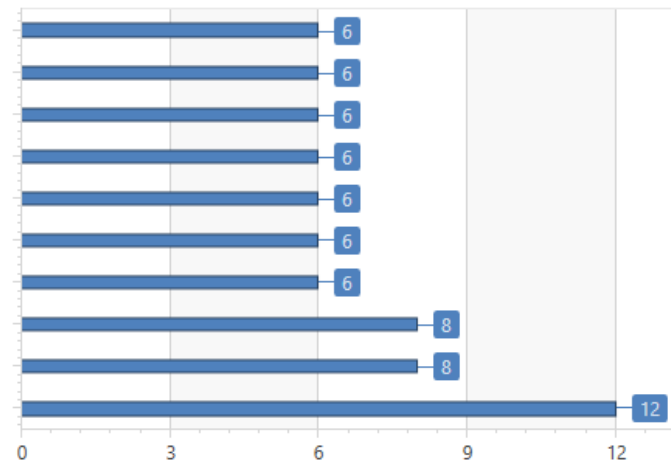
## New session management reports

New session analysis reports have been added that allow to see concurrent sessions per PSM server ID, Connection Component, and CyberArk user.

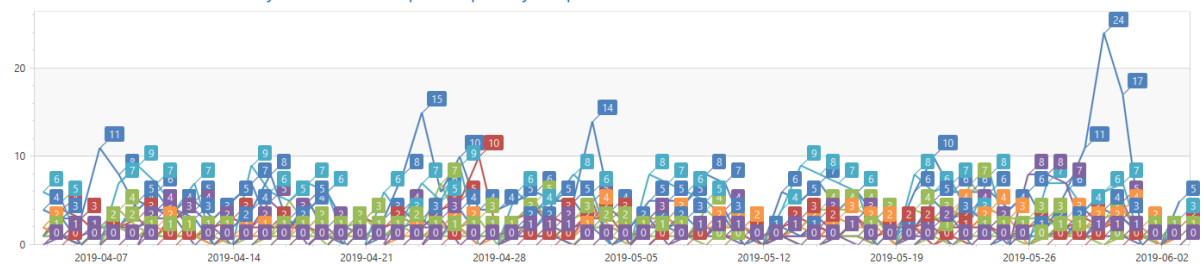
### Max concurrent sessions by connection component



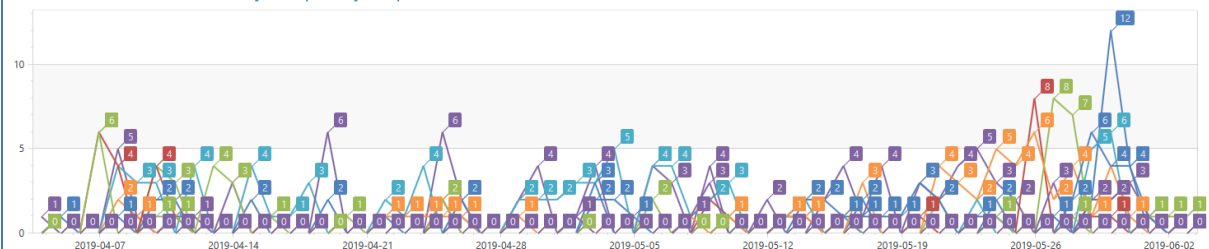
### Max concurrent sessions by user - Top 10



### Maximum concurrent sessions by connection component per day - Top 10



### Maximum concurrent sessions by user per day - Top 10



## Pending accounts report

This version allows reporting on pending accounts. The pending accounts report can be generated automatically via the tool's PACLI integration.

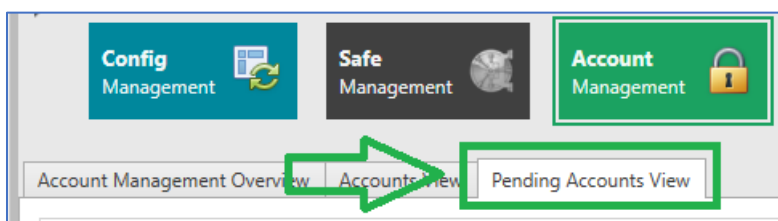
The pending accounts information can be seen in the accounts management section of the tool.

**Pending accounts settings**

Retrieve pending accounts: ☒

Credential file:

▼ Advanced pending accounts settings



| Search        |                    |                      |              |              |                  |                       |
|---------------|--------------------|----------------------|--------------|--------------|------------------|-----------------------|
| Drag a column |                    |                      |              |              |                  |                       |
|               | User Name          | Address              | Dependencies | Account Type | Account Category | Discovery Platform... |
| ⌵             | Administrator      | mgmt.CyberArkDe...   | -            | Local        | -                | Windows Server Lo...  |
| ⊞             | svc_sql            | CyberArkDemo.com     | 6            | Domain       | Privileged       | Windows Domain        |
|               | QAAdmin            | components.Cyber...  | -            | Local        | Non-privileged   | Windows Server Lo...  |
|               | PSM-5A000000000... | components.Cyber...  | -            | Local        | Non-privileged   | Windows Server Lo...  |
|               | root               | rhel4.cyberarkdem... | -            | Local        | -                | Unix                  |
|               | COMPONENTS\$       | cyberarkdemo.com     | -            | Domain       | Non-privileged   | Windows Domain        |
|               | John               | CyberArkDemo.com     | -            | Domain       | -                | Windows Domain        |
|               | Robert             | CyberArkDemo.com     | -            | Domain       | Privileged       | Windows Domain        |
| ⊞             | Mike               | CyberArkDemo.com     | 19           | Domain       | Privileged       | Windows Domain        |
| ▶             | PSMAdminConnect    | components.Cyber...  | -            |              | Non-privileged   | Windows Server Lo...  |
|               | PSMConnect         | components.Cyber...  | -            |              | Non-privileged   | Windows Server Lo...  |
|               | PSM-4D000000000... | components.Cyber...  | -            |              | Non-privileged   | Windows Server Lo...  |
|               | PSM-3C000000000... | components.Cyber...  | -            |              | Non-privileged   | Windows Server Lo...  |
|               | PSM-3B000000000... | components.Cyber...  | -            |              | Non-privileged   | Windows Server Lo...  |
|               | PSM-35000000000... | components.Cyber...  | -            | Local        | Non-privileged   | Windows Server Lo...  |
|               | LocalAdmin         | epmsvr.CyberArkD...  | -            | Local        | Privileged       | Windows Server Lo...  |
|               | PSM-34000000000... | components.Cyber...  | -            | Local        | Non-privileged   | Windows Server Lo...  |
|               | PSM-21000000000... | components.Cyber...  | -            | Local        | Non-privileged   | Windows Server Lo...  |
|               | shadow             | client.CyberArkDe... | -            | Local        | Privileged       | Windows Server Lo...  |
|               | Guest              | epmsvr.CyberArkD...  | -            | Local        | Non-privileged   | Windows Server Lo...  |
|               | PSM-2D000000000... | components.Cyber...  | -            | Local        | Non-privileged   | Windows Server Lo...  |
|               | Guest              | components.Cyber...  | -            | Local        | Non-privileged   | Windows Server Lo...  |
|               | Guest              | client.CyberArkDe... | -            | Local        | Non-privileged   | Windows Server Lo...  |
|               | ftpscript          | components.Cyber...  | -            | Local        | Privileged       | Windows Server Lo...  |