

PAM Administration

Privileged Session Management

Part 2



Agenda

Upon completion of this session, the participant will be able to:

- 1. Monitor and manage privileged session recordings
- 2. Monitor and manage privileged session audits
- 3. Monitor and manage active privileged sessions



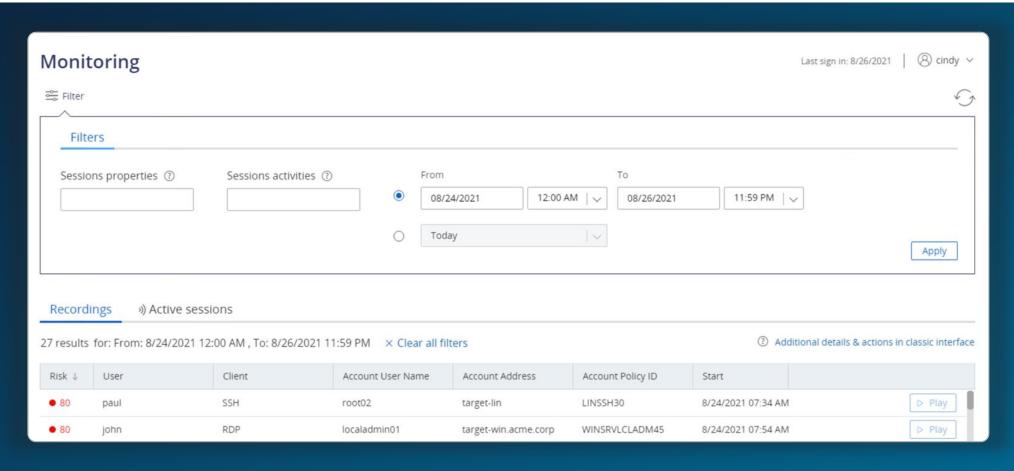
Recordings

In this section we will discuss how to enable, monitor and manage privileged session recordings

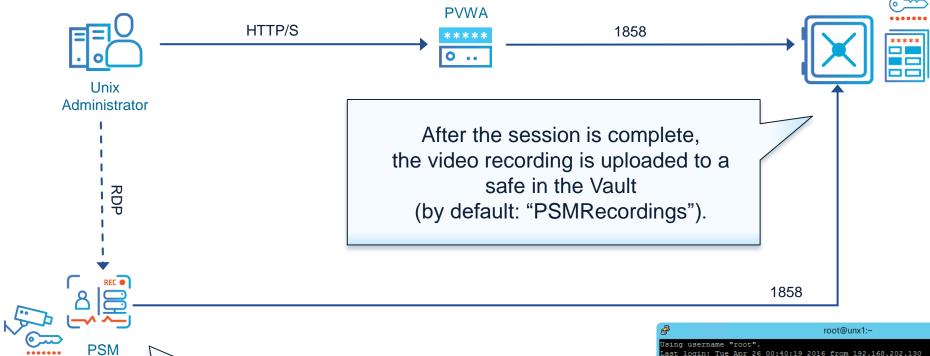


Recordings

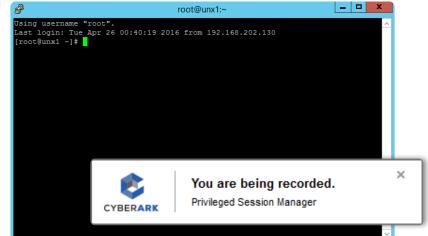
- The PSM and PSM for SSH create video and text recordings for privileged sessions and store them in the Vault where they can be viewed at any time by authorized users
- You can store PSM video and text recordings in an external storage device



Recordings

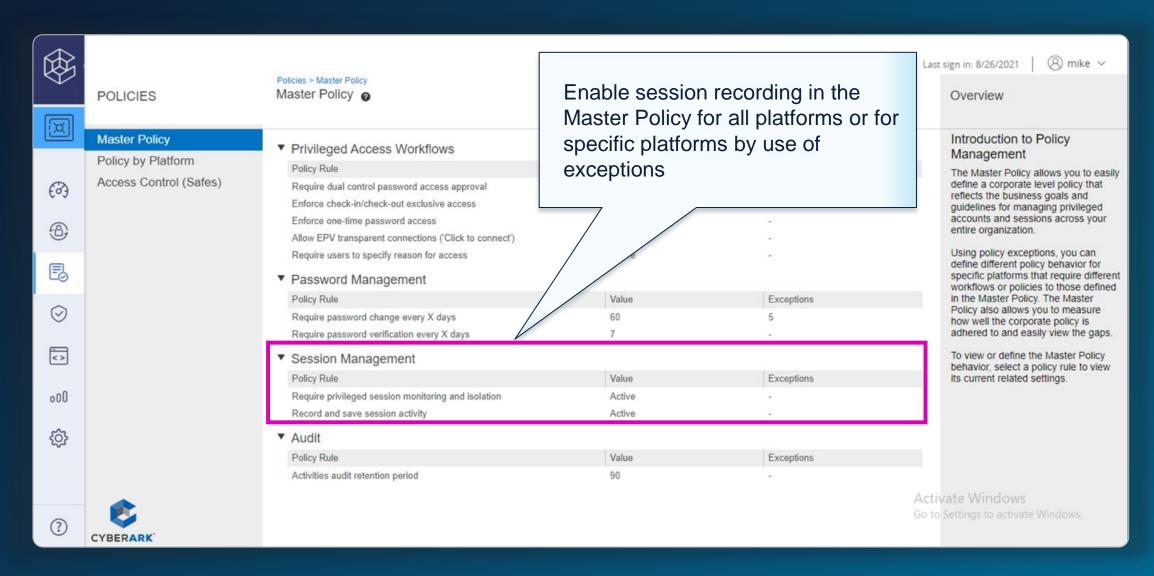


During the session, a video of all activity is recorded on the file system of the PSM server.

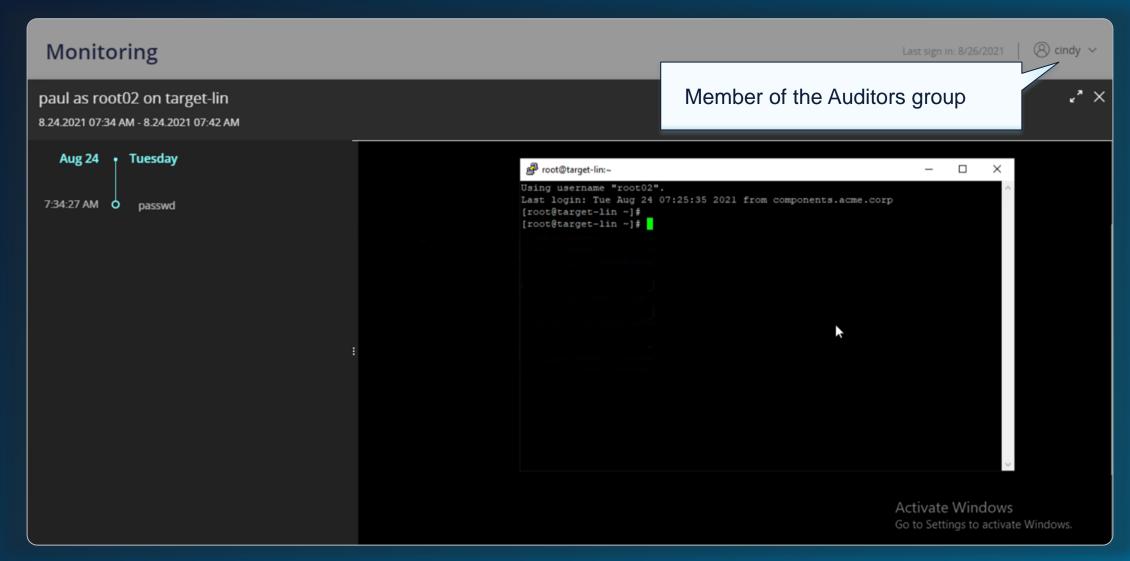




Enable Recordings: Master Policy

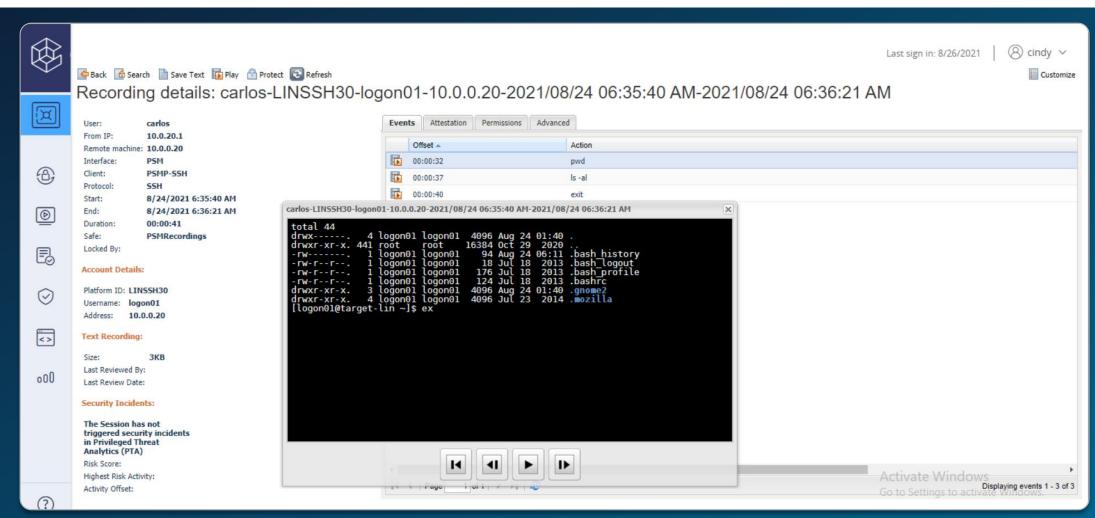


View Recordings in the PSM



Monitor Recordings (PSM for SSH)

Recordings created by PSM for SSH are currently displayed in the classic interface



Manage Recordings



Sizing Calculations for the PSM Server

$$(S_{PSM}) = (C_{session})(t_{session})(R_{session \, recording}) + 20GB$$

SPSM = Required storage on PSM Server

Csession = Maximum Number of Concurrent Sessions

tsession = Average length of recorded session

Rsession recording = Average bit rate of recorded video

- 100 KB/min average SSH session
- 200 KB/min average low activity RDP session
- 300 KB/min average high activity RDP session with rich wallpaper

(25 sessions) x (180 minutes/session) x (300 KB/minute) + 20GB = 21.35GB



Sizing Calculations for the Vault Server

$$(S_{Vault}) = (t_{retention})(N_{session})(t_{session})(R_{session \, recording}) + 20GB$$

SVault = Required storage on Vault Server

tretention = Retention history requirement

Nsession = Average number of recorded sessions per day

tsession = Average length of recorded session

Rsession recording = Average bit rate of recorded video

- 100 KB/min average SSH session
- 200 KB/min average low activity RDP session
- 300 KB/min average high activity RDP session with rich wallpaper

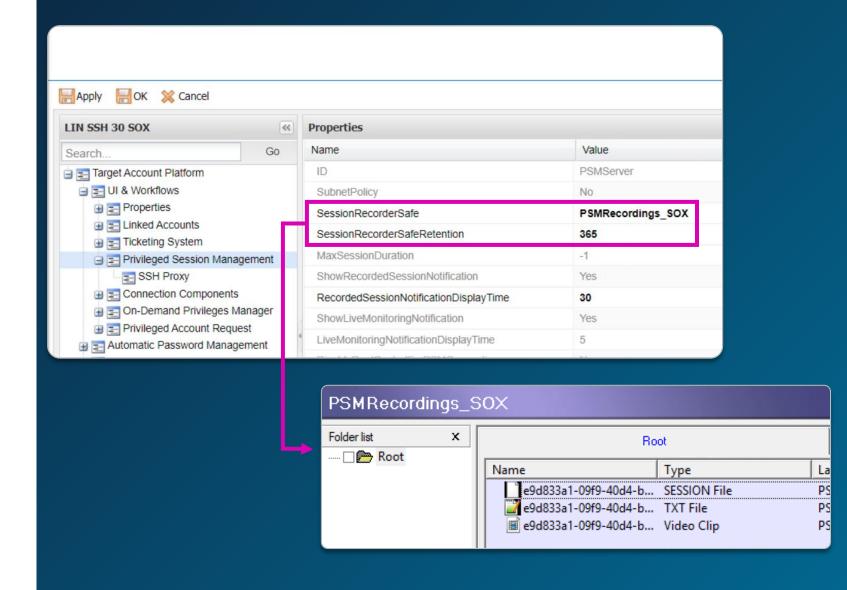
 $(90 \text{ days}) \times (400 \text{ sessions/day}) \times (180 \text{ minutes/session}) \times (300 \text{ KB/minute}) + 20 \text{GB} = 1.96 \text{ TB}$



PSM Recording Safes

Recordings are stored by default in a safe called: *PSMRecordings*

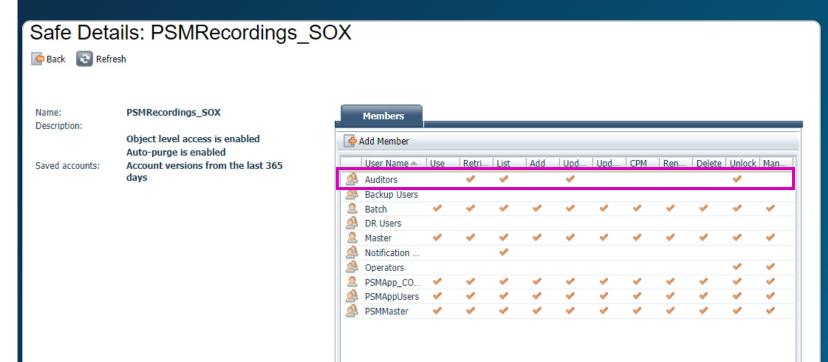
- Custom recording safes can be defined at the platform level
- The safes are created automatically by the PSM when it uploads the first recording to the Vault
- For example, a separate recordings safe for SOXcompliant Linux accounts (365 days retention period)





PSM Recording Safes

- Members of the Auditors
 group are automatically granted
 permissions on all Recording
 Safes
- You can also manually set different auditors for each Recording Safe according to their access control policy



Hide predefined users and groups



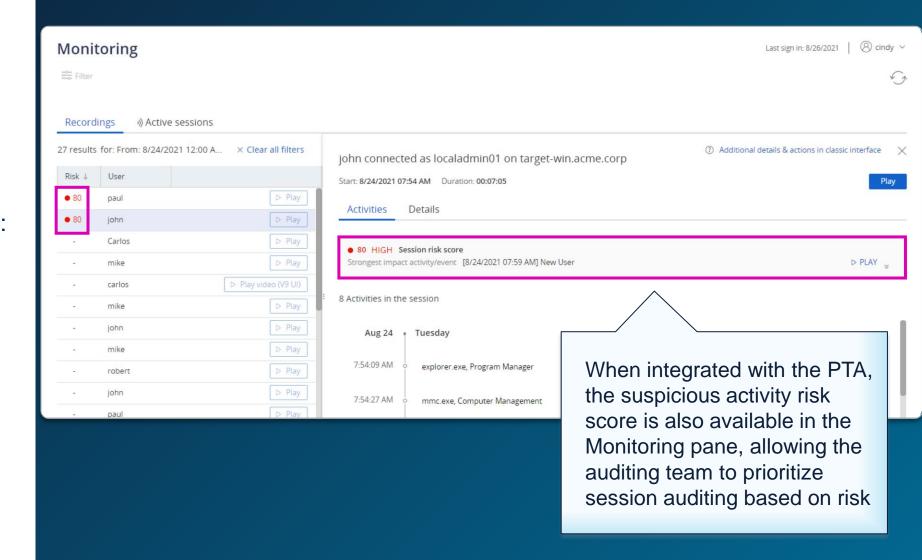
Session Audits

In this section we will discuss how to monitor privileged session audits



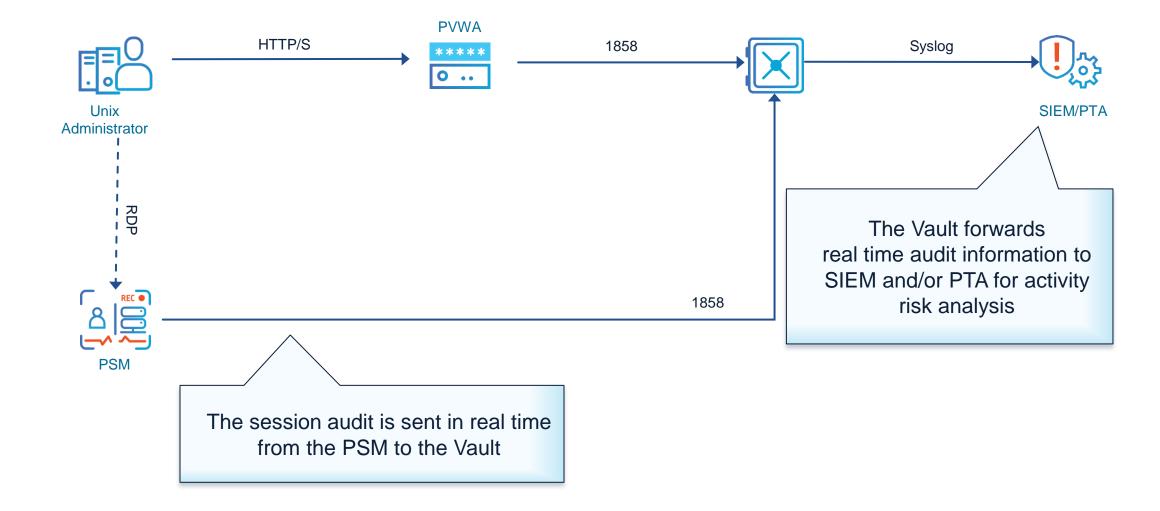
Session Audit

- By default, the PSM records all the activities that take place during privileged sessions and provides audit data for the following events:
 - SQL commands
 - SSH keystrokes
 - Window titles
 - Universal keystrokes
- PSM for SSH can create audit records for activities that are performed during SSH, SCP, and Telnet connections





Audit



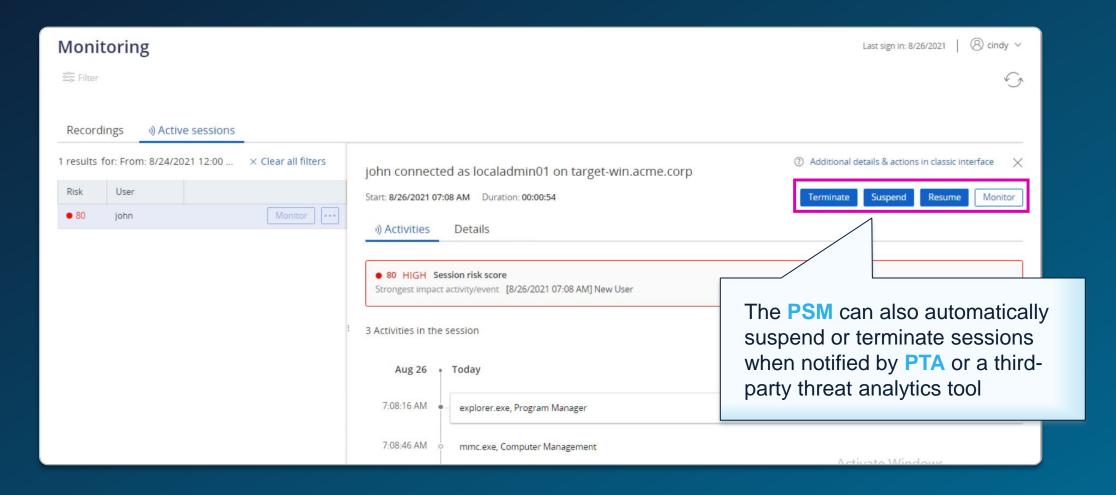
Active Session Monitoring

In this section we will discuss how to monitor and manage active privileged sessions



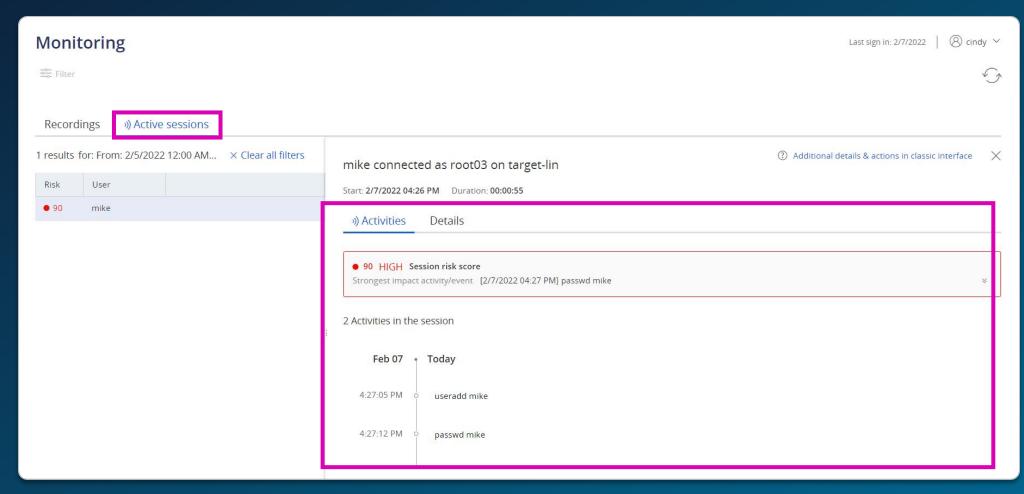
Active Session Monitoring (PSM)

The PSM enables authorized users to monitor active sessions, take part in controlling these sessions, and suspend or terminate them

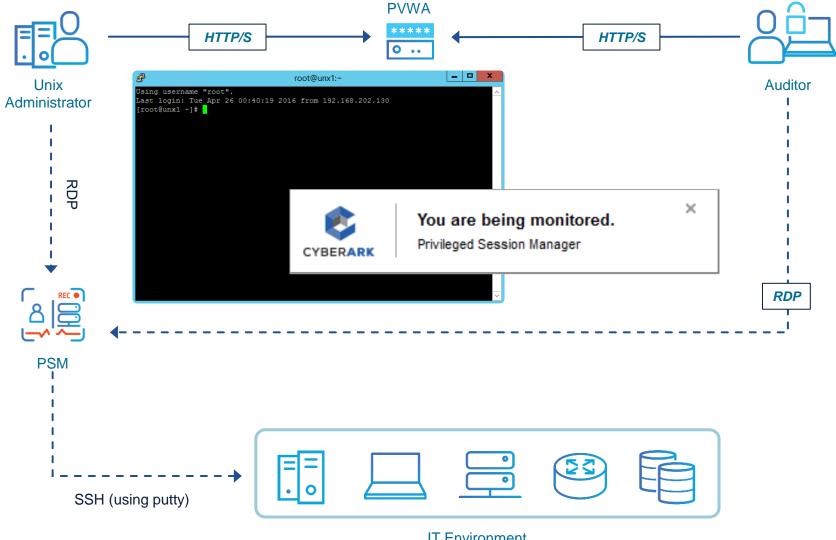


Active Session Monitoring (PSM for SSH)

While it is not possible to monitor or control live PSM for SSH sessions, it is possible to view the live session audit

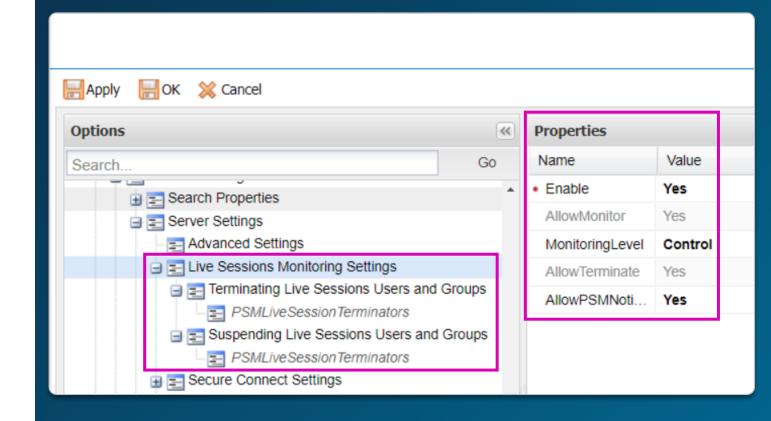


Monitor Active Sessions



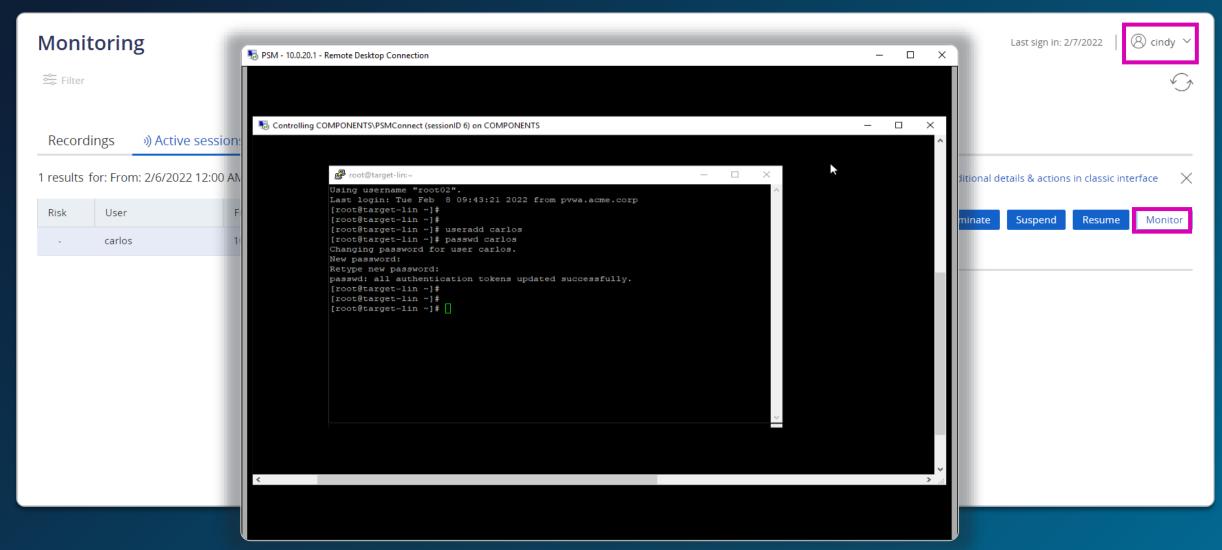
Enable and Configure Live Session Monitoring

- Live session monitoring settings determine how users can monitor live privileged sessions and the types of activities that they can perform
- By default, all members of the Vault group PSMLiveSessionTerminators are authorized to suspend and terminate active sessions





Monitor Active Sessions



Summary







External Storage of PSM Recordings

https://training.cyberark.com/elearning/external-storage-of-psm-recordings

Additional Resources

You may now complete the following exercises:

Privileged Session Management – Part 2

- Privileged Session Terminators
- Monitor, Suspend and Terminate Active Sessions
- Monitor Recordings

