



Securing Privileged Access FIRST

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Attackers Mindset

Identify High Value Targets

Domain controllers, certification authorities, jump servers, admin clients ...

Identify Privileged Accounts

Who are the administrators on these servers

Gain Access to Amin Credentials

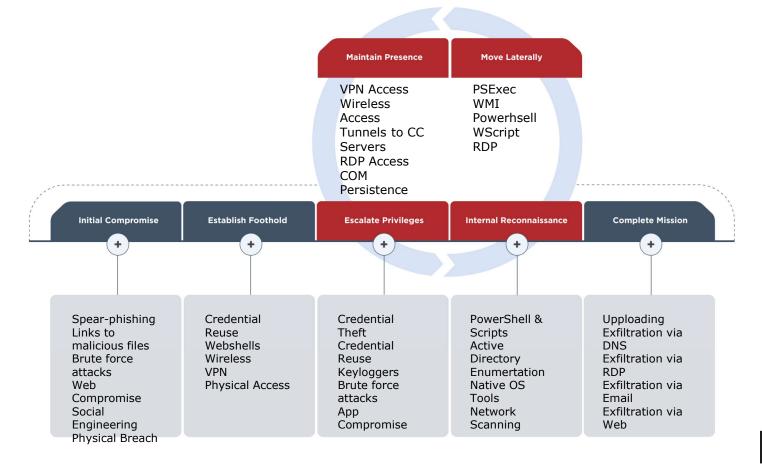
What can be compromised to get the credentials of a target user

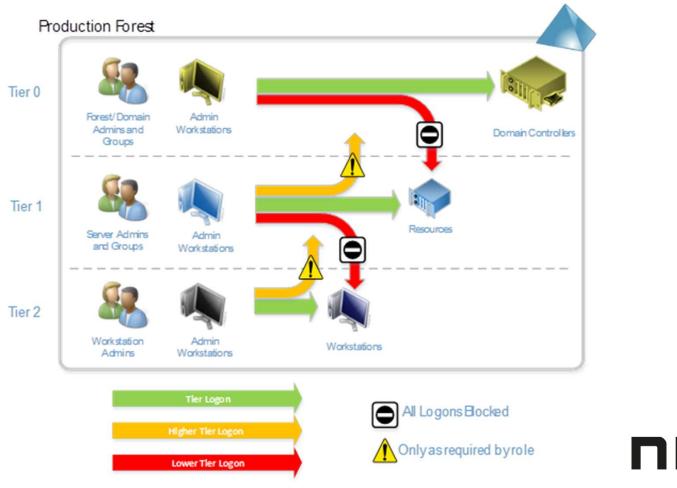


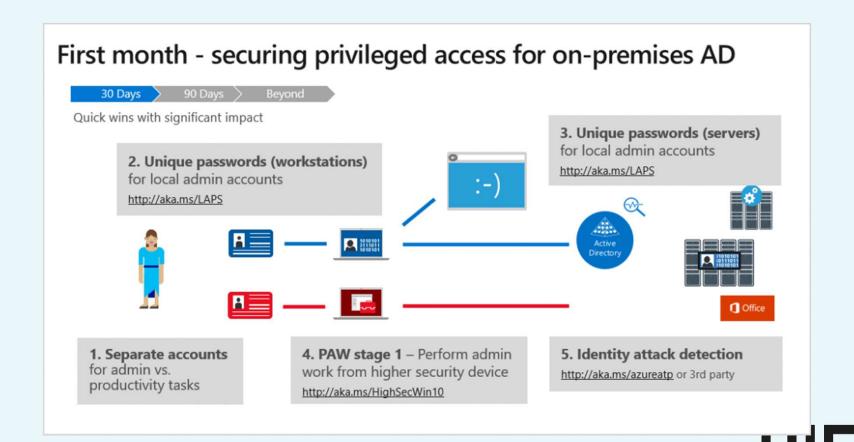
Privileged access is more than administrators Protect high impact accounts/roles Cloud service admins Critical business data/systems Privilege accounts High impact social media accounts



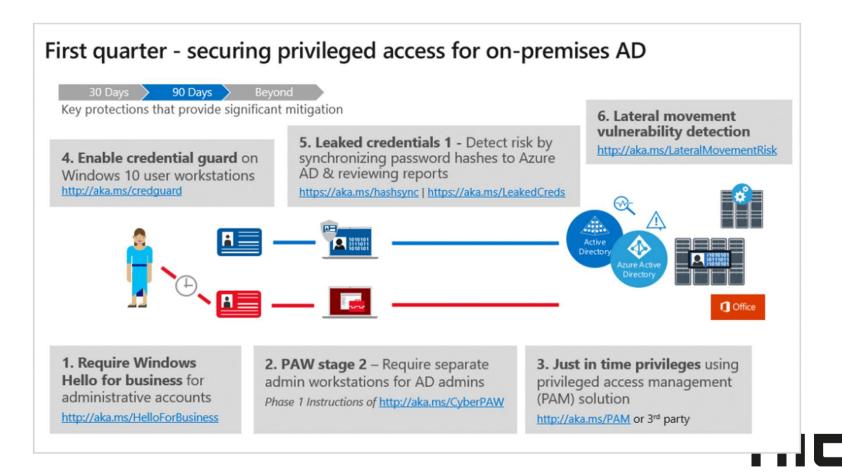


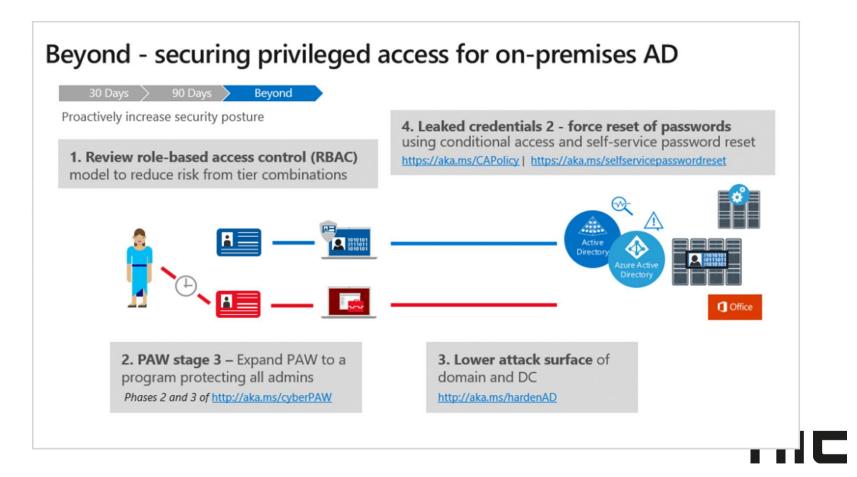


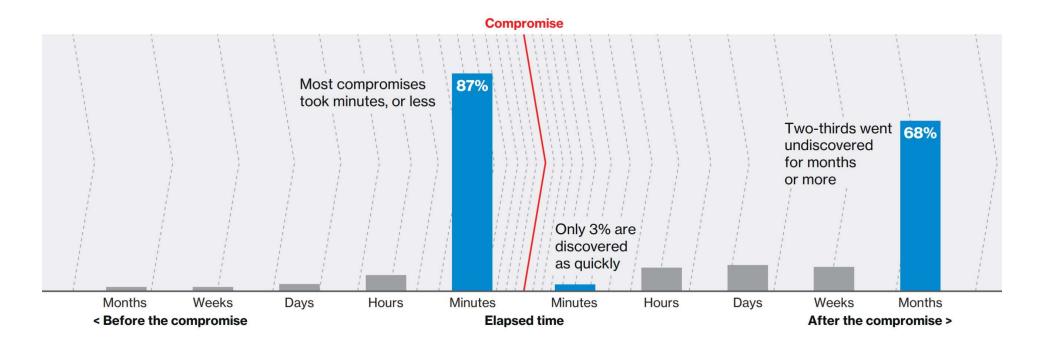




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Sample Server Support

Remote server support

- Primary (tool) Remote tools using network logons (type 3)
- Primary (interactive) RDP (RemoteGuard / RestrictedAdmin / AMA) from PAW
- Secondary Logon using a local account password set by LAPS
- Forbidden Standard RDP with domain account
- Forbidden Using domain accounts while in the session

Physical server support

- Primary Log on using a local account password set by LAPS
- Forbidden Logon with a domain account
- Forbidden Using domain accounts while in the session



Sample User Support

Desk-side user support

- Primary "Over the shoulder" support can be provided with no tools
- Secondary Logon using a local account password set by LAPS
- Forbidden Logon with domain account with administrative credentials

Remote user support

- Primary Remote Assistance, Skype for Business, or similar screen sharing
- **Secondary** Logon using a local account password set by LAPS
- Forbidden Logon with domain account administrative credentials



Recommended Reading

Securing Privileged Access (on-premises)

https://docs.microsoft.com/en-us/windows-server/identity/securing-privileged-access/securing-privileged-access

Securing privileged access for hybrid and cloud deployments in Azure AD

https://docs.microsoft.com/en-us/azure/active-directory/users-groups-roles/directory-admin-roles-secure

Windows 10 Credential Theft Mitigation Guide

https://www.microsoft.com/en-us/download/details.aspx?id=54095

Privileged Account Management for the Financial Services Sector (Draft)

https://www.nccoe.nist.gov/sites/default/files/library/sp1800/fs-pam-nist-sp1800-18-draft.pdf



Slides and demos from the conference will be available at

https://github.com/nordicinfrastructureconference/2019



