

Assessing the Security of Your Active Directory: Privileged Account Risks and Controls

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Preview of key points

- Routes to privileged access in Active Directory
- Key controls to assess
- Visibility





Routes to privileged access in Active Directory

- Group memberships taking into account nesting and domain boundaries
- Admin-equivalent user rights on domain controllers
- Compromise of workstations where admins have logged on in the past or present
- Access to non-DC infrastructure applications
- The right directory object permissions to certain
 - Groups
 - Users
 - Group Policy Objects
 - Organizational Units
- Access to virtualization infrastructure
- Physical access to domain controllers





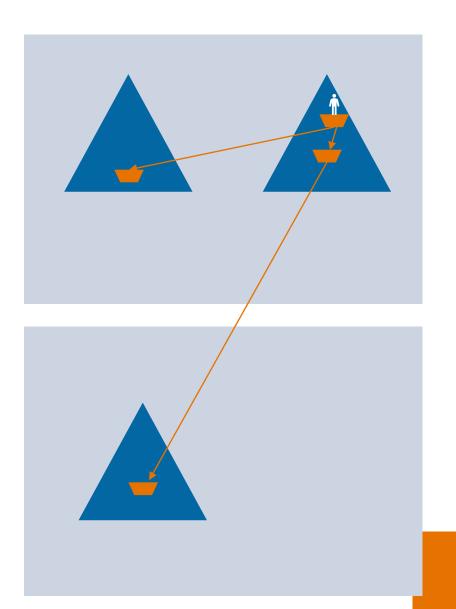
Physical access to domain controllers

- More difficult than in the past to compromise DCs via physical access
- Read Only DCs does not eliminate all risks
- Best defense is TPM based BitLocker / SecureBoot



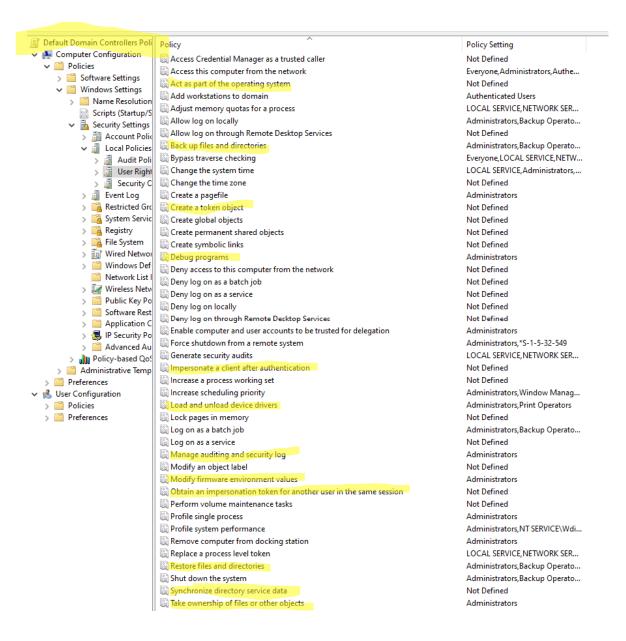
Group memberships taking into account nesting and domain boundaries

- Administrators
- Domain Admins
- Enterprise Admins
- Account Operators
- Group Policy Creator Owners
- And all other admin and operator groups





Adminequivalent user
rights on
domain
controllers

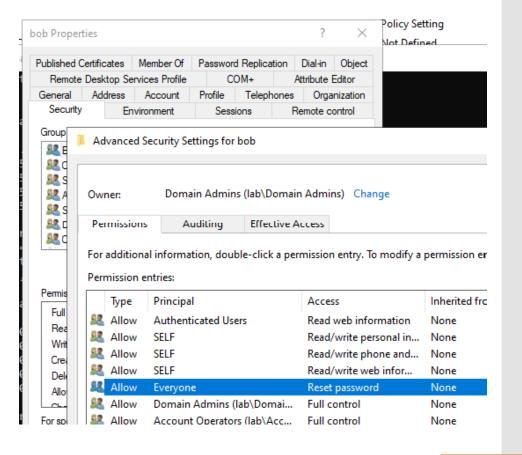




Permissions to directory objects

 Permission on sensitive AD objects at the object level or on parent organizational units

User account	Reset password
Group	Write membership
Group Policy Object	Write
Organization al Unit	All of the above Create user accounts

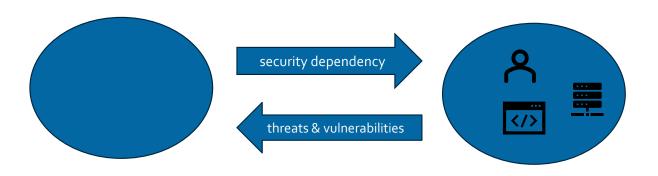






Compromise of any system/application upon which AD has a security dependency

- Examples
 - Entra Connect
 - Backup and AD recovery tools
 - Identity and Access Management systems
 - Virtualization infrastructure
 - Systems management
- All such systems are same security tier zero as domain controllers

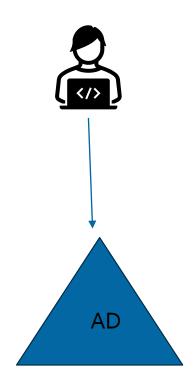






Workstations and any other system where privileged user logs on

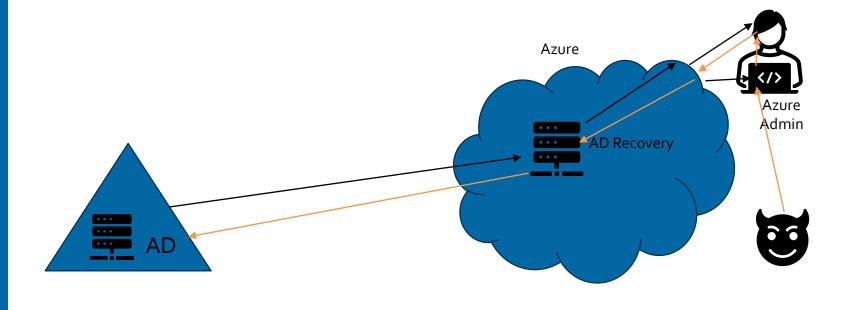
- Logon to a computer with AD admin authority
 - That computer becomes same security tier as domain controller
- Pass-the-Hash
 - Other credential harvesting attacks
- Execution
- Privileged elevation







Compromise of any system/application upon which AD has a security dependency





Alert

Key controls to assess

- Group membership
- Rights assignments on domain controllers
- Permission changes to key objects in AD
- Endpoint logon activity by privileged users
 - Strictly enforce Secure Admin Workstations (SAW)
- Continuous discovery of all adjacent and lower tier systems
 - Logical
 - Physical



Visibility

- It's not a simple matter to get a list of all privileged users in AD
- Let alone
 - All applications, systems and accounts upon which AD has a security dependency
- Requires vigilance and detective work
- Visibility into
 - Security logs
 - Rights
 - Permissions
 - Logon activity
 - AD objects
 - Users
 - Groups
 - Ous
 - Permissions





Next Up

- Jennifer Taufan, Solutions Engineer at Netwrix, will show you how to use Netwrix Auditor to:
 - Report on privileged accounts in Active Directory, including object permissions
 - Monitor logons of your users and alert you to suspicious activity
 - Generate audit trails and reports for privileged activities
 - Prepare for audits and prove compliance

Netwrix Auditor

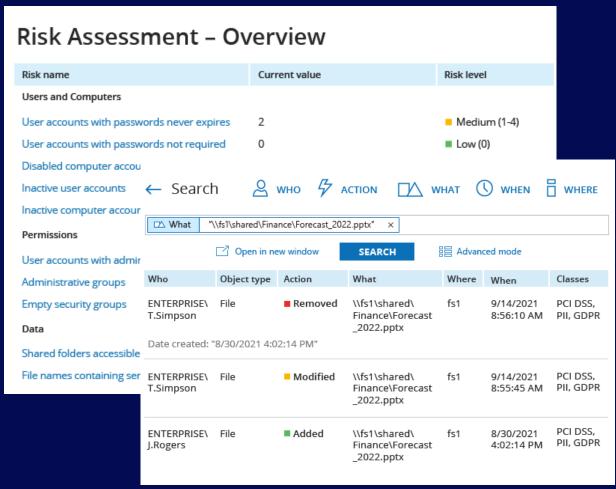
Product Demonstration

Detect security threats, prove compliance and increase IT team efficiency with IT audit software from Netwrix



Jennifer Taufan, Solutions Engineer at Netwrix

Next Steps



Download a Free 20-Day Trial of Netwrix Auditor Here:

netwrix.com/auditor.html

Audit your most important IT systems from a centralized platform

Are you tired of juggling multiple auditing and reporting tools in an attempt to collect audit information from all your on-premises and cloud-based systems? Do you need a software solution that delivers that information in a unified and consistent way? Netwrix Auditor provides a consolidated audit trail across a wide variety of IT systems, including Active Directory, Windows Server, Oracle Database and network devices.

Next Steps



Learn more about **Active Directory Security Best Practices** SysAdmin **Managing Active Directory Groups -Beyond the Basics**

Read our **New SysAdmin Magazine Managing Active Directory Groups** - Beyond the Basics

netwrix.com/sysadmin-magazine-july-2024.html

netwrix.com/active-directory-best-practices.html