



# Active Directory Security

## An Executive Summary for CISOs

As the foundation of an organization's cyber security, Active Directory is an extremely high-value organizational asset and its adequate protection and security are **paramount** to business today.



Active Directory is the very **foundation** of IT and cyber security and the **heart** of privileged access in every organization whose IT infrastructure is powered by Microsoft's Windows Server platform -

1. In Windows Server based networks, **all** the three A's of cyber security i.e. **Authentication**, **Authorization** and **Auditing** are completely integrated with and rely on Active Directory.
2. **All** the building blocks of cyber security i.e. all organizational user accounts (and passwords,) and computers (accounts,) and all security groups used to provision access to the entirety of the organization's IT resources are all stored, managed and protected in Active Directory.
3. The security of **all** domain-joined computers can be easily and instantly controlled from Active Directory via Group Policy. (An unfortunate ramification is that today anyone with sufficient privileged access in Active Directory could use it to unleash ransomware).
4. In addition, numerous mission-critical IT services and applications such as DNS, Cloud-integration, email (Exchange), remote access etc. **all** rely on Active Directory.
5. The **Keys to the Kingdom** i.e. the most powerful privileged access, reside in Active Directory.

**Consequently**, should an organization's foundational Active Directory be compromised, the very foundation and bedrock of the organization's cyber security would have been compromised, and the security of the entirety of an organization's IT resources could be instantly jeopardized.

Active Directory is thus an organization's **single most important and valuable asset**, and as a result its security is absolutely paramount and must be the highest organizational priority at all times.



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## Recommended Reading

Active Directory is an organization's **single most important and valuable asset**, and thus its security is absolutely paramount and must undoubtedly be the highest organizational priority at all times.



The following 10 helpful and valuable pointers are intended to help CISOs and all organizational IT personnel quickly and efficiently gain a deeper understanding of Active Directory security -

1. What is [Active Directory](#) ?
2. Who operates on Active Directory today ? – [The Entire World](#)
3. Active Directory Security is Paramount – [Cyber Security 101 for the C-Suite](#)
4. The Keys to the Kingdom – [Privileged Access in Active Directory](#)
5. The Keys to Privileged Access in Active Directory – [Active Directory Effective Permissions](#)
6. The #1 Threat to Active Directory Deployments – [Active Directory Privilege Escalation](#)
7. How should organizations [Correctly Audit Privileged Access in Active Directory](#) ?
8. How should organizations secure Active Directory ? – An [Active Directory Security Checklist](#)
9. A Real-world Scenario – [A Massive Breach at a Company while it was Considering the Cloud](#)
10. Further reading for [CEOs](#), [CISOs](#), [IT Managers](#), [Domain Admins](#), [IT Auditors](#) and [Pen-Testers](#)

In conclusion, today every organization is **only as cyber secure** as its foundational **Active Directory**.