Zscaler Identity Protection™

Bringing identity-first security to zero trust

DATASHEET

Zscaler Identity Protection detects and defends against identity-based attacks such as credential theft and privilege abuse, Active Directory assaults, and risky entitlements.

Identity is the New Attack Surface

Zscaler Identity Protection provides visibility into misconfiguration and vulnerabilities in on-prem Active Directory, Entra, and hybrid identity stores to reduce your attack surface and detects identity-based attacks that abuse privileges, on-device credentials, and risky entitlements to move laterally.

Zscaler Identity Protection

Monitor your Active Directory for any misconfigurations or vulnerabilities that expose you to privilege escalation and lateral movement risks with Zscaler Identity Protection. It secures your identities and offers extensive visibility into the identity attack surface to deliver real-time notifications on identity-based assaults. You can now detect and stop identity-based attacks such as stolen credentials, multi-factor authentication bypasses, and privilege escalation techniques.

How does it work?

Zscaler Identity Protection takes a low-touch and operationally simple approach to identity security. It's built into Zscaler Client Connector, a unified agent that securely brokers connections between users and applications/resources.

BENEFITS

- **Reduce Identity Attack Surface:** Get visibility and remediate identity misconfigurations and risky permissions that create exposure.
- **Detect Identity threats in Real-time:** Identity systems are in constant flux with configuration and permission changes. Monitor in real time and get alerted on new vulnerabilities, risks, and issues.
- **Mitigate the Risk of an Identity Attack:** Discover risky configurations such as GPP password exposure, unconstrained delegation, and stale passwords that open new attack paths.
- **Accelerate Investigation & Response:** Help security teams prioritize investigation on alerts based on risk scores generated by identity assessments.
- **Streamline Remediation:** Security teams can now leverage Zscaler Identity Protection step-by-step remediation guidance along with video tutorials, scripts, and commands to speed up response.
- **Deploy Easily:** No additional VMs required. Use the same Zscaler client connector to provide an additional layer of security to thwart identity-based threats.

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Organizations suffer an Active Directory Attack

Source: EMA

80%

Of modern attacks are identity-driven

Source: Crowdstrike

90%

Of Mandiant IR engagements involve AD

Source: Dark Reading

Zscaler Identity Protection consists of four capabilities:

- Identity Attack Surface Visibility
- Identity Change Detection
- Identity Threat Detection
- Credential Attack Surface Reduction

Identity Attack Surface Visibility

Zscaler Identity Protection audits the Entra environment by running LDAP queries to build a map of schema, users, computers, OUs, and other objects in your identity store. It then runs checks against these objects to find misconfigurations and vulnerabilities that exist in your Active Directory.

- For assessing the Active Directory, Zscaler Identity Protection needs to run on a Client Connector installed on a domain-joined Windows machine.

- The security team sets up a scan by specifying the Active Directory domain they wish to access and selecting the Client Connector installed machine from which to run the scan.

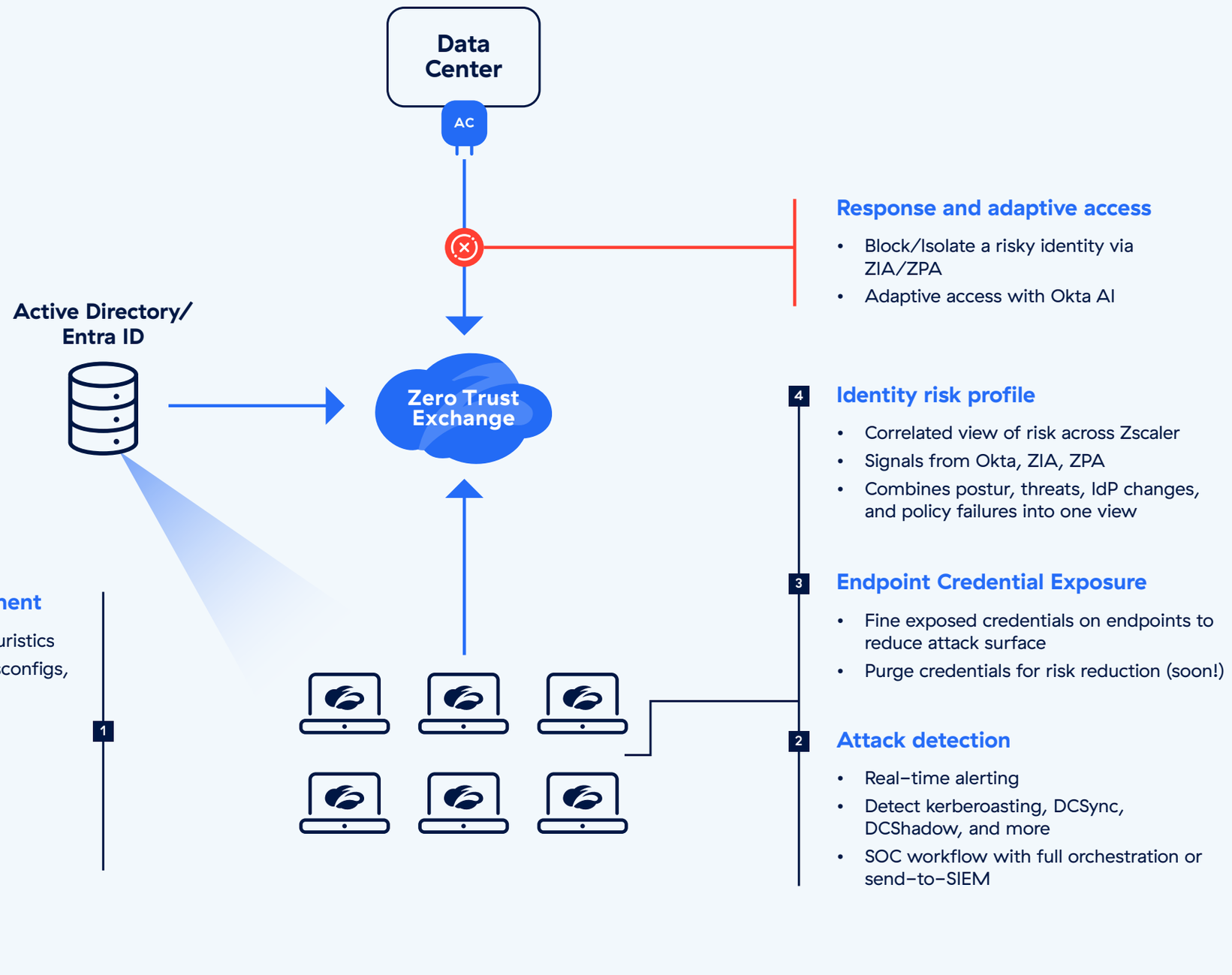
- Depending on the size of the Active Directory, it takes anywhere between 15 and 30 minutes to complete the assessment.

- Once the assessment is complete, the results are available to view in the dashboard.

- The assessment includes a domain risk score, focus areas to prioritize remediation, a list of the riskiest users and computers, a basic analysis of severity and risk categorizations, MITRE ATT&CK kill chain mapping, and a complete list of misconfigurations discovered.

For each misconfiguration, the solution provides the following:

- Risk categorization
- Severity
- Remediation effort
- MITRE ATT&CK ID and tactic
- Explanation of the issue
- Potential impact
- List of users, computers, and objects affected
- Remediation guidance
- Video tutorials
- Scripts
- Commands



Identity Change Detection

Once an assessment has been configured, security teams get the ability to turn on change detection for the Active Directory domain. Change detection surface configurations that affect the security posture of Active Directory in near real-time, allowing security teams and directory admins to quickly respond.

- Zscaler Identity Protection runs a series of high-priority configuration checks against Active Directory.
- The scope of these checks targets the discovery of issues that have the highest possibility of abuse by adversaries.
- These checks run every 15 minutes from the Client Connector installed endpoint for the given domain.
- Changes are marked as having a good or bad impact.
- A good impact indicates that an issue has been resolved.
- A bad impact indicates a potential issue has been introduced.

Identity Threat Detection

Zscaler Identity Protection has a threat detection capability that alerts SOC teams and threat hunters of malicious activities directed toward potentially malicious misuse and theft of identities.

Identity Threat Detection can be turned on as an endpoint policy on designated Client Connector installed machines.

- Security teams enable the threat detection policy which enables monitoring events on the system and analyzes for patterns to identify indicators of the chosen threat vectors.
- Available detectors include DCSync, DCShadow, kerberoasting, session enumeration, privileged account access, LDAP enumeration, and more.
- Security teams can choose to turn on all or a combination of detectors on designated endpoints.
- If a pattern is noticed, Client Connector signals to Zscaler Identity Protection that a threat has been detected.
- The platform enriches the threat signal with information relevant to the user to perform an investigation
- The security team can configure orchestration capabilities in Zscaler Identity Protection to take automated actions from alerting to forwarding to remediation.

Zscaler Identity Protection unlocks powerful new capabilities that extend what your zero trust program is capable of without adding additional operational or resource overhead.

Credential Attack Surface Reduction

After compromising an endpoint, one of the first things that adversaries do is look for credentials, dump them using programs like Mimikatz or LaZagne and then use those credentials to access sensitive data and applications.

With Zscaler Identity Protection, you can:

- Find insecurely stored credentials across your endpoint fleet in on 23 unique sources including modifiable service binaries, Windows Credential Manager, browser password managers, GPO saves passwords, SSH keys, API keys, sensitive data files, cloud credentials, and more.
- Get visibility into which of these credentials are already compromised and leaked to the dark web and which ones are weak and can be easily cracked in the event of a compromise.
- Make it harder for adversaries to exploit credentials by scrubbing them with one click thereby reducing credential–based attack surface on endpoints.

Key Use Cases

IDENTITY ATTACK SURFACE VISIBILITY

Continuous assessment of your Active Directory provides a unified risk score, a list of misconfigurations and vulnerabilities, and remediation guidance to fix those issues.

- Unified risk score for identity posture quantification and tracking
- Real-time view of top identity issues and riskiest users/hosts
- MITRE ATT&CK mapping for visibility into security blindspots

IDENTITY HYGIENE MANAGEMENT

Get alerts and notifications in real time as new risks are introduced to your Active Directory. Gain real-time visibility into risk configuration and permission changes.

- Identify new vulnerabilities and misconfigurations as they emerge
- Real-time alerting for new risks introduced to your identity store
- Ready-made guidance, commands, and scripts for remediation

IDENTITY THREAT DETECTION AND RESPONSE

Real-time threat detection for top identity attacks

- Detect attacks against your identity store
- Detections include kerberoast, DCSync, and LDAP enumeration
- Built-in containment using zero trust access policy

Key Differentiators

BUILT INTO CLIENT CONNECTOR

Built into the Zscaler Client Connector, Zscaler Identity Protection unlocks new capabilities and protections out-of-the-box. The same endpoint client that securely connects users to the internet and application now provides additional security capabilities and mitigates the risk of identity attacks.

INTEGRATED WITH THE ZERO TRUST EXCHANGE

Zscaler Identity Protection integrates seamlessly with the Zscaler Zero Trust Exchange platform for better threat detection and response for identitybased threats. The Zero Trust Exchange can dynamically apply access policy controls to block compromised users when an identity attack is detected.

SEAMLESS INTEGRATIONS

Strengthen investigation and response with tight integrations that include EDRs like Crowdstrike, Microsoft Defender, VMware CarbonBlack, and all leading SIEMs.

Harden Your Security Posture with Zscaler Identity Protection

DEFEND AGAINST IDENTITY THREATS

Gaining visibility on identities is essential to detecting identity–based threats. Zscaler Identity Protection provides deep visibility into identitybased incidents and anomalies across your IT environment, so you can thwart identity–based attacks before they occur.

DETECT ACTIVE DIRECTORY ATTACKS

Active Directories are popular targets for identity attacks. Zscaler Identity Protection continuously monitors AD/ Entra ID for vulnerabilities and misconfigurations or risky configurations.

PREVENT CREDENTIAL MISUSE/THEFT

Attackers use stolen credentials and attack Active Directory to escalate privileges to move laterally. Zscaler Identity Protection helps to detect credential exploits and prevent credential theft or misuse.

STOP LATERAL MOVEMENT

Zscaler Identity Protection identifies misconfigurations and credential exposures that create attack paths for lateral movement. Stop attackers who have gotten past perimeter–based defenses and are attempting to move laterally through your environment.

About Zscaler

Zscaler (NASDAQ: ZS) accelerates digital transformation so customers can be more agile, efficient, resilient, and secure. The Zscaler Zero Trust Exchange™ platform protects thousands of customers from cyberattacks and data loss by securely connecting users, devices, and applications in any location. Distributed across more than 150 data centers globally, the SSE–based Zero Trust Exchange™ is the world's largest in–line cloud security platform. Learn more at **zscaler.com** or follow us on Twitter **@zscaler**.

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Zero Trust Everywhere