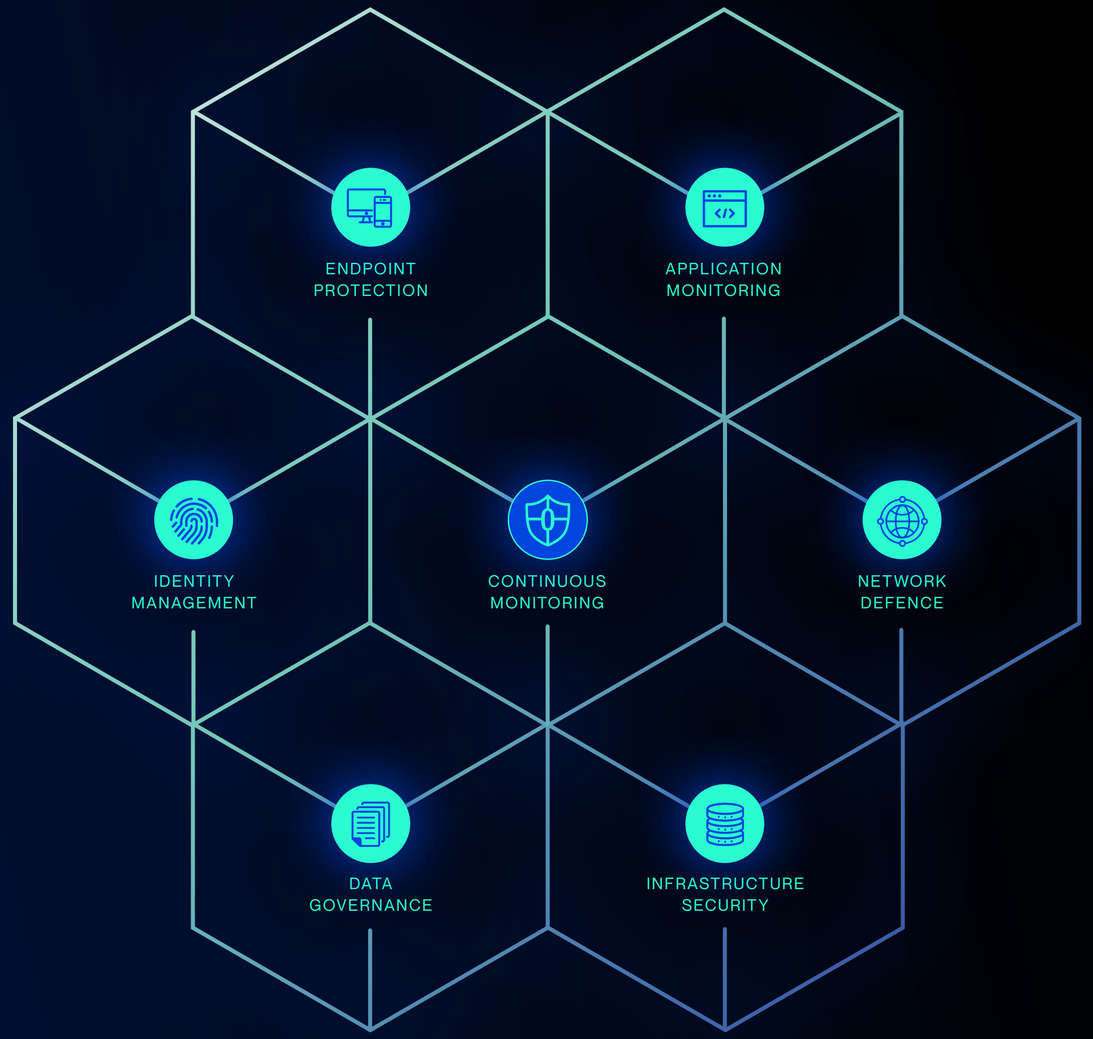
THE PILLARS OF ZERO TRUST [6-STEP GUIDE]

IT system security is constantly evolving, with threats and protection measures progressing nonstop. ITI has developed a six-step guide based on the zero-trust model that will allow you to assess your organization's security strategies and compare them with the industry's best practices.



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SECURITY ROAD MAP

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CONTINUOUS MONITORING

1

IDENTITY MANAGEMENT

Verify user identities.

2

ENDPOINT PROTECTION

Validate device posture and protection.

3

APPLICATION MONITORING

Apply app and API controls.

4

NETWORK DEFENCE

Preventive protection from attacks and propagation.

5

INFRASTRUCTURE SECURITY

Protection of all data centre components.

6

DATA GOVERNANCE

Guarantee the confidentiality and integrity of sensitive data.

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IDENTITY MANAGEMENT

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1

When attempting to access a resource, it's essential that a user's identity be verified through a robust authentication process that guarantees the access request complies with the principle of least privilege.

YOUR CHECKLIST

- ✓ Access management
- ✓ SSO and MFA
- ✓ Identity management and password policies
- ✓ Conditional access

SOLUTIONS TO EXPLORE

- · Microsoft Entra ID
- · Microsoft Entra ID Protection
- · Microsoft Defender for Identity

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ENDPOINT PROTECTION

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Once access is granted to a user, it's essential to prepare your devices for secure data flow. Make sure your workstations are updated regularly and equipped with an advanced protection solution like an EDR.

YOUR CHECKLIST

✓ Device posture validation
✓ Workstation standardization by profile
✓ Endpoint protections
✓ Application management

SOLUTIONS TO EXPLORE

· Microsoft Intune
· Microsoft Defender for Endpoints
· Microsoft Defender XDR

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APPLICATION MONITORING

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Whether on site or in the cloud, apps and APIs are data consumption interfaces. Applying control measures developed to detect unauthorized access and monitor the configurations and any anomalies is critical.

YOUR CHECKLIST

- ✓ Information and event management
- ✓ App access protection
- ✓ Web protection and filtering (SWG and WAF)

SOLUTIONS TO EXPLORE

- · Microsoft Defender XDR
- · Microsoft Defender for APIs
- · Microsoft 365 Cloud App Security
- · Zscaler Private Access (ZPA)
- · Intune App protection policies (APP)
- · Fortinet FortiWeb

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NETWORK DEFENCE

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All this data passes through the network. The controls in place monitor the data flow and offer real-time protection of the network by segmenting and encrypting it, preventing attacks from propagating.

YOUR CHECKLIST

✓ Cloud network protection
✓ Network access and segmentation (NAC)
✓ Wi-Fi network security
✓ Inter-site network protection
✓ Remote worker protection

SOLUTIONS TO EXPLORE

· Cisco ISE
· Cisco Secure Access
· FortiGate, FortiClient EMS, FortiAuthenticator
· Aruba ClearPass
· Microsoft Defender for Cloud
· Zscaler Internet Access (ZIA)

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INFRASTRUCTURE SECURITY

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Whether made up of local servers, virtual machines, containers or microservices, infrastructure is always a prime target. You must assess its current version, configuration, accesses and monitoring to detect and block any threats.

YOUR CHECKLIST

✓ Server and container protection
✓ Security patch management
✓ Backups (airgap, immutable)
✓ Recovery plan

SOLUTIONS TO EXPLORE

· Azure Kubernetes
· CommVault Backup & Recovery
· Microsoft Defender for Server
· Azure ARC
· Microsoft Defender for Cloud

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DATA GOVERNANCE

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Protecting data means ensuring its security even when it circulates beyond the company's secured perimeter. The goal is to guarantee the confidentiality and integrity of sensitive information while ensuring it remains available when necessary.

YOUR CHECKLIST

✓ Data classification and protection
✓ Lifecycle management
✓ Archiving and encrypting
✓ Governance

SOLUTIONS TO EXPLORE

· Microsoft Information Protection
· Microsoft Purview

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BONUS STEP – CONTINUOUS MONITORING

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Regardless of where your organization stands in its security journey, continuous monitoring remains your best ally. The key to rapidly detecting and responding to security incidents is to be proactive. It's the primary objective of a security operations centre (SOC), which provides real-time monitoring and analysis of your networks, databases, applications and other systems to protect your information.

Performing security audits and vulnerability tests on a regular basis allow you to target areas of improvement for your IT infrastructure and mitigate cyber threats.

SOLUTIONS TO EXPLORE

- Microsoft Sentinel
- Azure Security Center
- Hitachi SOCaaS
- Arctic Wolf MDR

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ITI CAN HELP YOU ANALYZE AND IMPLEMENT TAILOR-MADE SECURITY SOLUTIONS

Whether to support your internal IT security team or help you meet the standards of your industry, our specialists will be happy to provide you with expert advice.