SERVICE BRIEF

Strengthen Your Azure Security with mnemonic's Cloud Security Assessment

Identify and remediate vulnerabilities with a comprehensive, Microsoft-aligned approach.

mnemonic's Cloud Security Assessment is designed to identify and remediate insecure strategies and significant vulnerabilities within your Azure environment, by leveraging a tool-assisted manual approach, applying Azure-native tools and best practices.

This assessment adopts a holistic approach to secure your Azure infrastructure and ensure alignment with Microsoft's security frameworks.

Focus Areas

Our assessment includes a detailed review of the following areas, integrating Azure services for comprehensive security:

Identity and Access Management (IAM) Review

Leverages Microsoft Entra ID (formerly Azure Active Directory) to assess IAM configurations, identifying misconfigurations and insecure practices and strategies

Resource Configuration Review

Performs authenticated audits on Azure Resources (e.g., VMs, storage, databases), applying mnemonic's in-house developed methodology and tooling, in addition to Microsoft Defender for Cloud and Azure Policy

Network Architecture Review

Analyses the Azure network setup, including Azure Virtual Network (vNet), Network Security Groups (NSGs), Azure Private Link, and Azure Firewall configurations.

External Cloud Network Penetration Testing

Simulates unauthenticated external attacks on the cloud network using Azure Front Door and Azure Application Gateway

Internal Cloud Network Penetration Testing

Tests the resilience of private networks by simulating attacks within Azure Virtual Network boundaries, focusing on firewall effectiveness

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Backed by insights and expertise.

Approach

mnemonic's structured security testing process embodies a tool-assisted manual review, applying the best of both worlds, utilising Azure-native tools and services to provide a thorough and Azure-compliant review.

- Performing an authenticated resource configuration audit with Microsoft Defender for Cloud and Azure Policy
- Assessing network topology with Azure Firewall and NSGs for security and scalability, ensuring alignment with customer-provided network diagrams.
- Evaluating internal network security using Azure Bastion to simulate attacks from compromised hosts and assess firewall and escalation defences.

Outcome

Upon completing this Azure-focused assessment, you will receive a comprehensive report that includes:

- Executive Summary - A high-level overview of the assessment findings. Identified Vulnerabilities - A list of vulnerabilities discovered during the assessment, with associated risk levels.
- Technical Analysis - Detailed analysis of your Azure security posture, including specific areas for improvement.
- Remediation Recommendations - Actionable steps to address vulnerabilities using Azure-native services, enhancing architectural security and resilience.

About mnemonic

mnemonic helps customers worldwide protect their assets from advanced cybersecurity threats. As one of Europe's largest dedicated security firms, our team of 350+ specialists tackles complex information security challenges.

Recognised by Gartner in Managed Detection and Response (MDR), threat intelligence, and targeted attack detection, mnemonic is a trusted partner and a reliable intelligence source for Europol and global agencies. Through our Microsoft partnership, we offer cloud security services using Microsoft XDR, Sentinel, and the entire Microsoft Security Portfolio, ensuring seamless protection across all cloud environments.

Microsoft Solutions Partner
Security
Specialist
Cloud Security
Threat Protection

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Securing your business.

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