

# Secure by Design Consultancy

A Bechtle Packaged Solution

## Secure by Design

For organisations leveraging Azure at scale and want to ensure their environment is built and secured as per best practice. Bechtle offers a comprehensive hands-on review of your Azure architecture, assessing its alignment with Microsoft's best-practice "Secure by Design" and "Landing Zone" Framework. This service provides an expert evaluation focused on security and governance, ensuring your Azure environment is optimised and built to meet enterprise-grade standards

## Azure Secure by Design

Azure Secure by Design is a core principle that Microsoft applies to its cloud services, including Azure, to ensure that security is integrated into every stage of the software development lifecycle. This approach emphasises building security features and safeguards into products and services from the very beginning rather than adding them as an afterthought. It is part of Microsoft's broader Secure Development Lifecycle (SDL) and reflects a proactive stance to mitigate risks.

An Azure Landing Zone Secure by Design Review refers to an evaluation process aimed at ensuring that an Azure Landing Zone is designed and implemented with strong security principles and best practices.

## What is an Azure Landing Zone?

An Azure Landing Zone is a foundational framework or architecture for deploying workloads into Azure. It provides a secure, scalable, and well-governed environment for applications. Landing zones are built to support cloud adoption strategies in alignment with the Microsoft Cloud Adoption Framework for Azure (CAF).

## WHY CHOOSE THIS PACKAGE?

- Build security into every layer
- Avoid costly post-launch fixes
- Identify design vulnerabilities early
- Agnostic to your tech stack

## WHAT'S THE COST?

Starting from £1810  
excl VAT

Please note that the total cost will be determined by the size and complexity of the environment

## WHY BECHTLE?

- Europe's largest IT provider
- Experienced Microsoft consultant
- Certified Azure experts, experienced in optimising Azure Services
- One of Microsoft's largest European partners
- Azure Expert MSP Status

Gold

Microsoft Partner

Azure Expert MSP



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### Secure by Design Review Overview

The Secure by Design Review focuses on evaluating and validating that the Azure Landing Zone adheres to security principles, best practices, and governance policies from the outset. It ensures the environment is built with security embedded into its core, reducing risks and vulnerabilities.

#### 1 Identity and Access Management (IAM)

- Review Azure Active Directory (Azure AD) configurations.
- Validate secure access mechanisms, including Multi-Factor Authentication (MFA), Conditional Access policies, and role-based access control (RBAC).
- Ensure Privileged Identity Management (PIM) is enabled for administrative roles.

#### 2 Network Security

- Validate Azure Virtual Network (VNet) configurations, including the use of network segmentation and network security groups (NSGs).
- Review firewalls, such as Azure Firewall or third-party solutions.
- Ensure secure connectivity (e.g., ExpressRoute, VPN) and private endpoints to avoid public exposure.

#### 3 Data Protection

- Validate encryption of data at rest and in transit.
- Ensure Azure Key Vault is used to securely manage secrets, keys, and certificates.
- Check backup and disaster recovery strategies to ensure data resilience.

#### 4 Governance and Policy Management

- Evaluate the implementation of Azure Policy to enforce compliance and security standards.
- Review Azure Blueprints and ensure consistent deployment of secure environments.
- Validate the use of Resource Locks and tagging strategies to enhance governance.

#### 5 Monitoring and Threat Protection

Review Azure-native tools for monitoring and threat detection, such as:

- Microsoft Defender for Cloud (formerly Azure Security Centre)
- Azure Monitor
- Ensure alerts and logging are properly configured to detect and respond to threats in real-time.

#### 6 Compliance and Benchmarking

Compare the environment against industry standards like:

- Azure CIS (Centre for Internet Security) benchmarks
- Use Azure tools such as Compliance Manager and Secure Score to measure adherence.

#### 7 Zero Trust Architecture

Verify the implementation of Zero Trust principles:

- Assume breach and validate explicitly.
- Use least privilege access.
- Segmentation and micro-segmentation for workloads.



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## Secure by Design Review Process

### 1. Assessment

Review the Azure Landing Zone architecture to identify security gaps or risks.

### 2. Analysis

Evaluate configurations, policies, and tools against Azure best practices and benchmarks.

### 3. Recommendations

Provide actionable recommendations for remediation and optimisation to meet security and governance requirements.

### 4. Implementation Guidance (Separate Charged work if needed)

Assist in implementing recommended changes, such as enabling services, enforcing policies, or configuring security tools.

### 5. Validation

Reassess and validate the Azure Landing Zone after changes are applied to ensure compliance and a strong security posture.

## Tools Used for Secure by Design Reviews

- Microsoft Defender for Cloud
- Azure Advisor
- Azure Policy and Azure Blueprints
- Azure Monitor
- Microsoft Sentinel
- Azure Resource Graph Explorer
- Azure Well-Architected Framework

## Benefits of the Review

- Improved Security Posture: Identify and mitigate risks early.
- Compliance Assurance: Align with regulatory and industry standards.
- Resilience: Enhance detection and response to threats.
- Cost Optimisation: Avoid costly security gaps by embedding security from the beginning.
- Operational Efficiency: Enable governance, automation, and consistent security across environments.

The Azure Landing Zone Secure by Design Review ensures your Azure environment is robust, resilient, and aligned with security best practices, enabling secure cloud adoption at scale.



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