



Microsoft Cloud Services in Malaysia

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Microsoft Malaysia

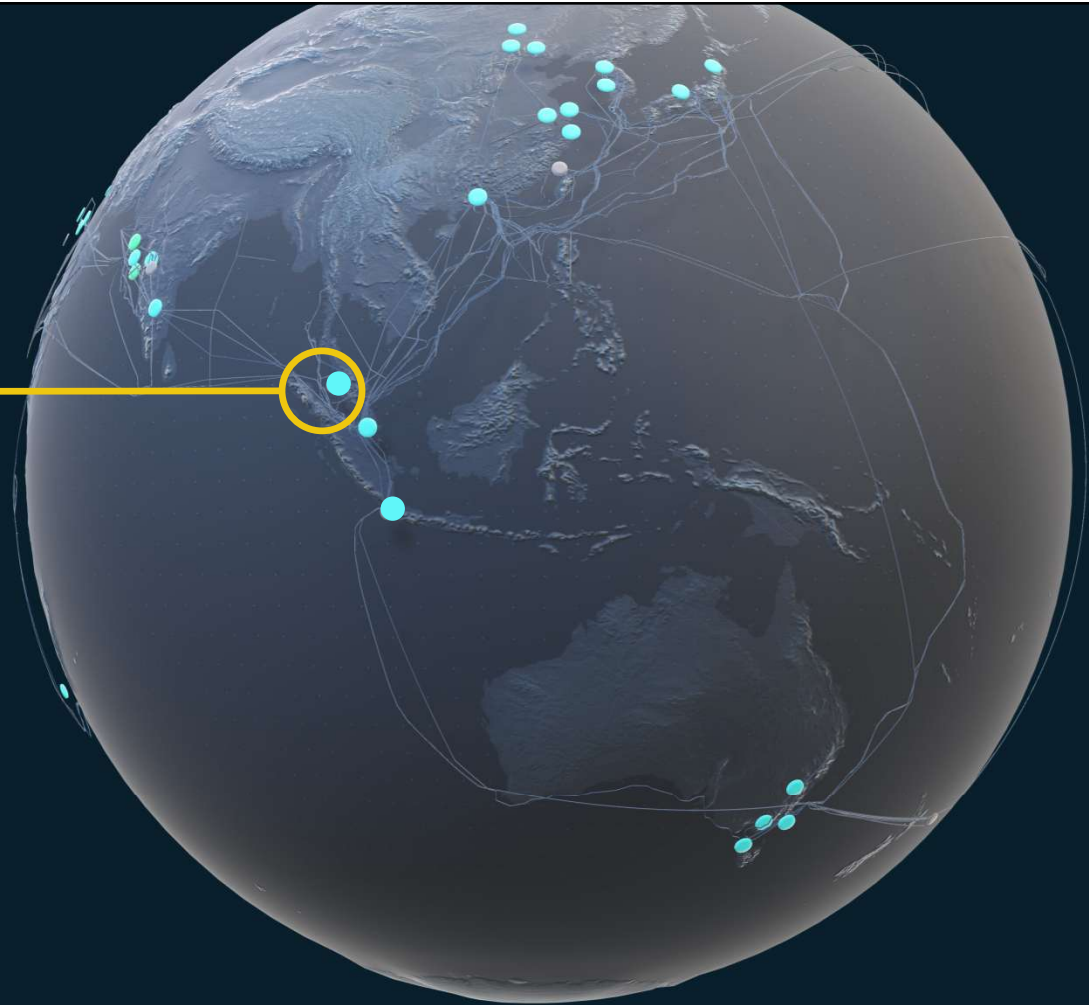




70+ Azure regions

Malaysia West Cloud Region

*Generally Available 28th
May 2025*



Why choose a cloud region in-country

Four pillars of why use Malaysia West



Data residency

Facilitate regulatory compliance with country and industry-specific regulations requiring data stored and processed in-country



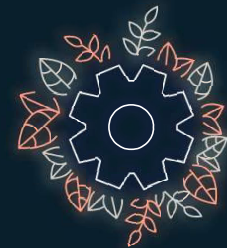
Latency

Increase efficiency and optimize costs with faster network connectivity and minimal latency between local datacenter regions and the cloud



Security & compliance

Protect your business with regional and local security with over 100+ comprehensive offerings



Sustainability

Save energy costs while reducing the environmental impact of your operations with next-generation innovations and local partnerships

Microsoft Cloud Services for the Government of Malaysia

Malaysia West is Generally Available (28 May 2025) — Microsoft's first in-country cloud region, with data residency across 3 Availability Zones in Greater Kuala Lumpur.

Productivity & Collaboration

Microsoft 365 / Office 365
Teams · Exchange · SharePoint · OneDrive
Microsoft 365 Copilot (in-country processing planned 2026)

AI & Data Analytics

Azure AI Foundry & Azure OpenAI
Microsoft Fabric & Power BI
Copilot Studio & custom agents

Security & Compliance

Microsoft Defender (XDR)
Microsoft Sentinel (SIEM)
Microsoft Entra ID & Purview

Developer & Modernization

GitHub & GitHub Copilot
Visual Studio & Azure DevOps
Power Platform (low-code)

Cloud Platform & Infrastructure

Compute, Storage & Networking
Azure SQL & managed databases
Kubernetes & ExpressRoute

Business Applications

Dynamics 365 (CRM & ERP)
e-Invoicing (MyInvois) enablement
Nation-scale workloads (MyIPCS 2.0)

Why it matters for Government: In-country data sovereignty · 100+ compliance offerings · Aligned to CFA / MyGovCloud@JDN · CGSO-verified security · Lower latency

Microsoft Azure Services – MYSEAL Compliance Guideline



MINISTRY OF DIGITAL



MYSEAL COMPLIANCE GUIDELINE FOR MICROSOFT AZURE SERVICES

Document Reference: CD-3-RPT-1425-AzurexMySEAL-V1

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Date: 25 July 2025

Classification: Confidential

1 EXECUTIVE SUMMARY

This document provides a compliance-focused reference for evaluating and implementing Microsoft Azure services in alignment with Malaysia's National Trusted Cryptographic Algorithm List (MySEAL). Developed for government agencies and National Critical Information Infrastructure (NCII) sectors, the guideline maps Microsoft Azure's key management and encryption services against AKSA MySEAL 2.0 classifications, ensuring adherence to national cryptographic policies.

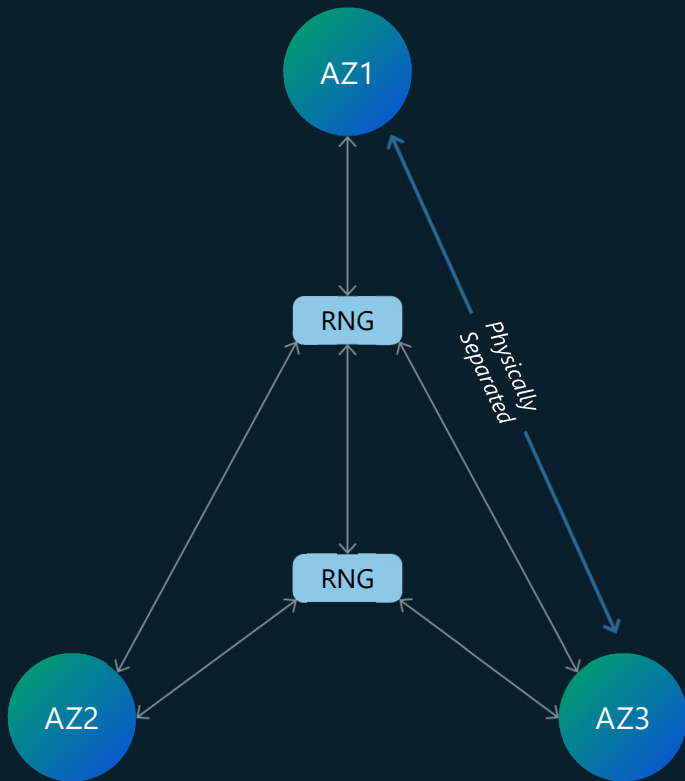
The guideline covers five core Microsoft Azure services:

- a. Azure Key Vault and Managed HSM
- b. Azure Storage (Blob, Queue, Table, File)
- c. Azure SQL Database and Cosmos DB
- d. Azure Disk Encryption
- e. Azure Backup and Blob Snapshots

Each service is analysed based on its supported cryptographic algorithms, key lifecycle features, encryption modes, and integration with Azure Key Vault for Customer-Managed Key (CMK) support. The document also presents a side-by-side comparison of supported cryptographic primitives (e.g., AES, RSA, SHA-2) against MySEAL classifications, highlighting approved usage, transitional algorithms, and those considered legacy.

Key implementation considerations are outlined in areas such as CMK deployment, FIPS 140-3 compliance, secure configuration practices, audit readiness, and future adoption of post-quantum cryptography. The document concludes with recommendations for securely leveraging Microsoft Azure services in accordance with MySEAL guidance, thus promoting national cryptographic integrity, operational assurance, and regulatory compliance.

What are we bringing to Malaysia West?



Each Azure Region requires at least 3 distinct, separated sites comprising our 3 Availability Zones (AZs), each with independent power, cooling and networking

- 3 Availability Zones at launch
- Physical DC locations in the Kuala Lumpur metro area
- Data replication across Zones for backup, availability and recovery with <2ms network latency
- Customer content stores in Malaysia, providing data residency
- Malaysia West region cloud services will comply with the security, privacy, compliance and transparency as described in the Microsoft Trust Center
- ExpressRoute allows customers private connections to the Microsoft Cloud

A foundation engineered for trust and built for powering innovation

Microsoft Azure

100+ compliance offerings



GDPR



Responsible operations

Data residency options across 70+ regions

Data encryption at rest, in transit, and in use

Data protection in use, in memory, and during computation

Confidential AI with CPU and GPU-enabled confidential VMs



Azure is purpose-built for your entire IT estate

Browse Azure Services - <https://azure.microsoft.com/en-us/products/>

AI models



Applications



.NET



Java



Python



NetApp



Visual Studio



GitHub

Databases



SQL Server



PostgreSQL



MySQL



Oracle



MongoDB



Redis

Infrastructure



Windows Server



Linux distributions



Kubernetes platforms



Leader in 6+
Gartner® Magic Quadrant™

**Integration with your favorite
tools**

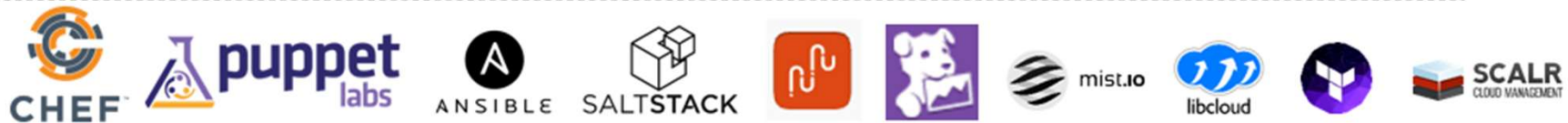
**Best-in-class cost and
performance**

Open source on Azure

DevOps



Management



Applications



App Frameworks & Tools



Databases & Middleware



Infrastructure



<https://azure.microsoft.com/en-us/solutions/open-source/>

Azure is a complete code to cloud security platform

From foundational security
to cloud-native workload protection



Microsoft
Defender for
Cloud



Microsoft
Sentinel



Azure
Network
Security



Confidential
Computing



GitHub
Advanced
Security

Security Copilot



Microsoft Fabric

Unified data & analytics for the era of AI

Complete Analytics Platform

Everything, unified

SaaS solution

Secured and governed

Lake Centric and Open

OneLake

One copy

Open at every tier

Empower Every Business User

Familiar and intuitive

Built into Microsoft 365

Insight to action

AI Powered

Copilot accelerated

Gen AI on your data

AI-driven insights

Unified storage & compute

Unified experience

Unified governance

Unified business model

Key Government IT Use Cases



Modernizing Data Centers

Governments upgrade data centers and migrate workloads to the cloud, boosting operational efficiency and security.

Safeguarding Critical Data

Disaster recovery, backup, and threat protection solutions secure essential government information against cyber threats and data loss.

Enhancing Public Services with AI

Data analytics, artificial intelligence, and chatbots empower informed decisions and better public service delivery.

Hybrid Integration and Agility

Hybrid cloud solutions and cloud-native apps break silos, creating scalable and agile government operations.

Empowering Government Cloud Journeys



Design Thinking Workshops

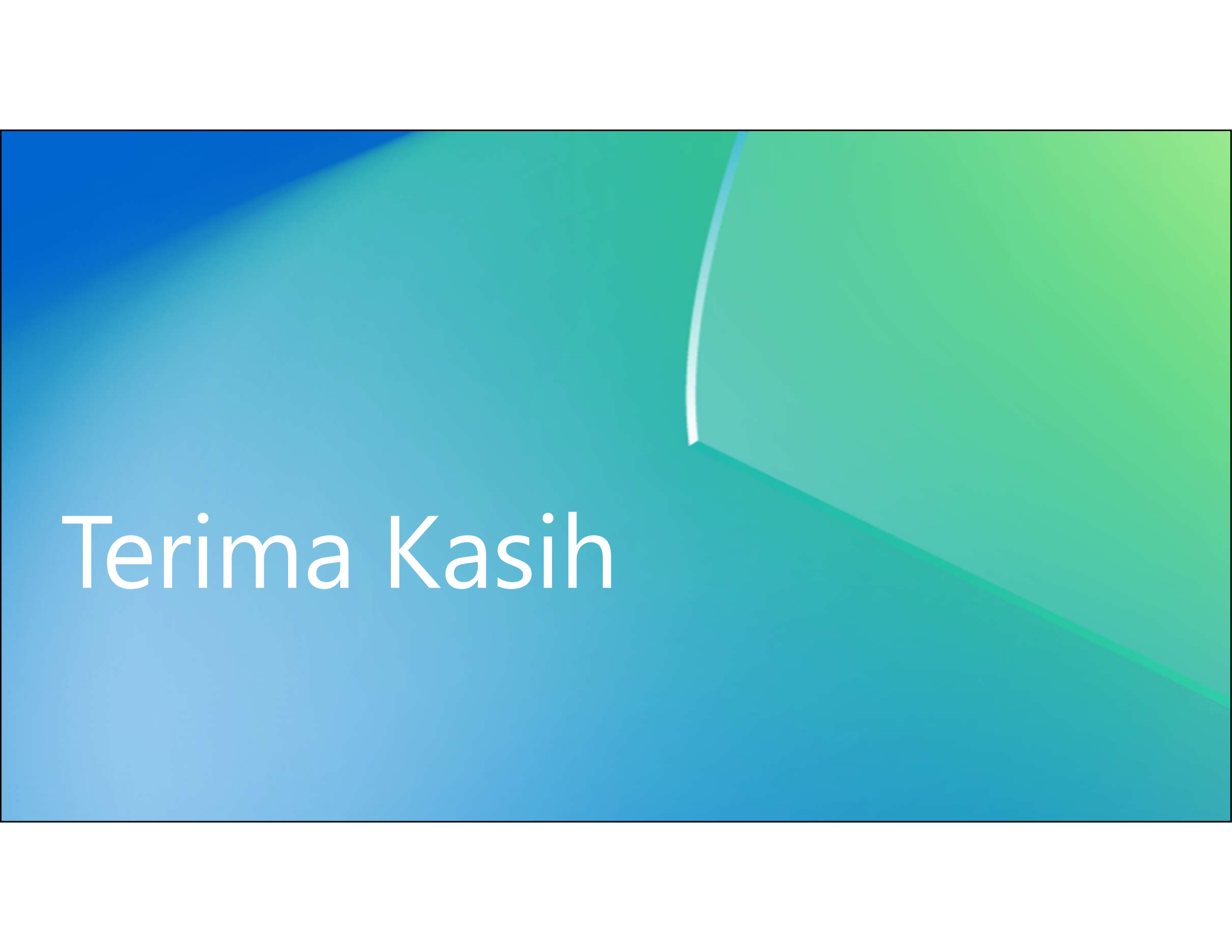
Design thinking workshops help agencies explore cloud possibilities and innovate solutions tailored to government needs.

Robust Architecture Principles

Assessment of requirements and application of strong architecture and design ensures secure, scalable cloud solutions for the public sector.

Collaborative Pilot Implementation

Partnerships support pilot projects, specification preparation, and project documentation for effective cloud adoption.



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