Microsoft Azure Cloud Services

Azure Infrastructure Administration

End-to-End Cloud Platform Management & Operations

Client Engagement Portfolio · April 2026 · Confidential

6	3	IaaS+PaaS	Zero Trust
Service Domains	Core Azure Pillars	Deployment Models	Security Framework

This portfolio details the full scope of Azure infrastructure administration delivered as a managed service engagement. Coverage spans core IaaS/PaaS infrastructure, identity and access, monitoring, backup and DR, storage, and container platform operations — all aligned to the Microsoft Azure Well-Architected Framework.

1 AZURE INFRASTRUCTURE DESIGN & MANAGEMENT

- Design, deploy, and manage Azure Virtual Machines across Dev, Test, and Production environments
- Configure Virtual Networks (VNets), subnets, peering, NSGs, route tables, and UDRs for secure connectivity
- Administer Azure Load Balancers (internal and external), Application Gateway, and Traffic Manager for HA
- Deploy and manage Azure App Services, App Service Plans, deployment slots, and scaling policies
- Maintain resource groups, tagging standards, Azure Policy, and subscription governance

Azure VMs	VNet / NSG	Load Balancer	App Service	Azure Policy	ARM / Bicep

2 IDENTITY, ACCESS & DIRECTORY MANAGEMENT

- Administer Azure Active Directory (AAD / Entra ID): users, groups, dynamic memberships, and guest access
- Design and enforce Role-Based Access Control (RBAC) policies using least-privilege principles
- Configure and manage Conditional Access policies, MFA enforcement, and named locations
- Manage enterprise applications, app registrations, service principals, and managed identities
- Support hybrid identity synchronisation via Azure AD Connect, attribute mapping, and conflict resolution

Azure AD / Entra ID	RBAC	Conditional Access	MFA	AAD Connect	Managed Identities

3 MONITORING, OBSERVABILITY & ALERTING

- Deploy and manage Azure Monitor: metrics collection, diagnostic settings, and resource health tracking
- Configure Log Analytics workspaces, KQL queries, and centralised log ingestion across services
- Implement Application Insights for APM — request tracing, dependency mapping, and failure analysis
- Build Azure Monitor dashboards and workbooks for operational visibility and executive reporting
- Design and manage alert rules, action groups, and automated notification workflows

Azure Monitor	Log Analytics	App Insights	KQL	Dashboards	Action Groups

4 BACKUP, DISASTER RECOVERY & BUSINESS CONTINUITY

- Implement and manage Azure Backup policies for VMs, SQL databases, file shares, and blobs
- Design and operate Azure Site Recovery (ASR) replication for VM-level DR across regions
- Define and validate RTO/RPO targets through regular DR drills and failover testing
- Manage Recovery Services Vaults, backup retention schedules, and restore operations
- Document and maintain Business Continuity plans, runbooks, and escalation procedures

Azure Backup	Azure Site Recovery	Recovery Vault	RTO/RPO	DR Runbooks	Failover Testing

5 STORAGE & DATA SERVICES ADMINISTRATION

- Administer Azure Storage accounts: Blob Storage, File Shares, Table, and Queue Storage
- Configure access tiers (Hot, Cool, Archive), lifecycle management policies, and data retention
- Manage storage access controls: SAS tokens, RBAC, private endpoints, and firewall rules
- Implement encryption at rest (CMK/PMK), TLS enforcement, and soft-delete protection
- Monitor storage capacity, performance metrics, and cost optimisation through tiering strategies

Blob Storage	Azure Files	Lifecycle Policies	SAS / RBAC	CMK Encryption	Private Endpoints

6 KUBERNETES & CONTAINER PLATFORM (AKS)

- Configure and manage Azure Kubernetes Service (AKS) clusters: node pools, upgrades, and autoscaling
- Administer Azure Container Registry (ACR): image repositories, geo-replication, and access policies
- Manage AKS networking: CNI plugins, ingress controllers (AGIC / NGINX), and private clusters
- Implement AKS security: Azure AD integration, RBAC, Pod Identity, and OPA/Gatekeeper policies
- Monitor containerised workloads using Container Insights, Prometheus, and Grafana dashboards
- Support CI/CD pipelines integrating ACR, AKS, and Azure DevOps or GitHub Actions

AKS	ACR	Helm	AGIC / NGINX	Container Insights	Azure DevOps

All service domains are delivered through an operations-first, security-by-design approach — leveraging Azure native tooling, infrastructure-as-code (Bicep / ARM / Terraform), and continuous monitoring to ensure performance, compliance, and resilience across all workloads.