



# Azure SQL

# Microsoft Partnership

## Focus Solutions in all Microsoft Clouds

- ✓ Modern Work
- ✓ Azure
- ✓ Dynamics



**Microsoft Gold  
Partner since 2004**



**Strong relationships  
with the Microsoft  
Account Teams**



**Continued Training on  
Microsoft Technologies  
with Our Consultants**



# Public Cloud Focus Areas

## End to End Cloud Adoption

- Advisory to Operational Managed Services
- Cloud Strategy Roadmap
- Cloud Operating Model

## Accelerating Cloud Migration & Modernization

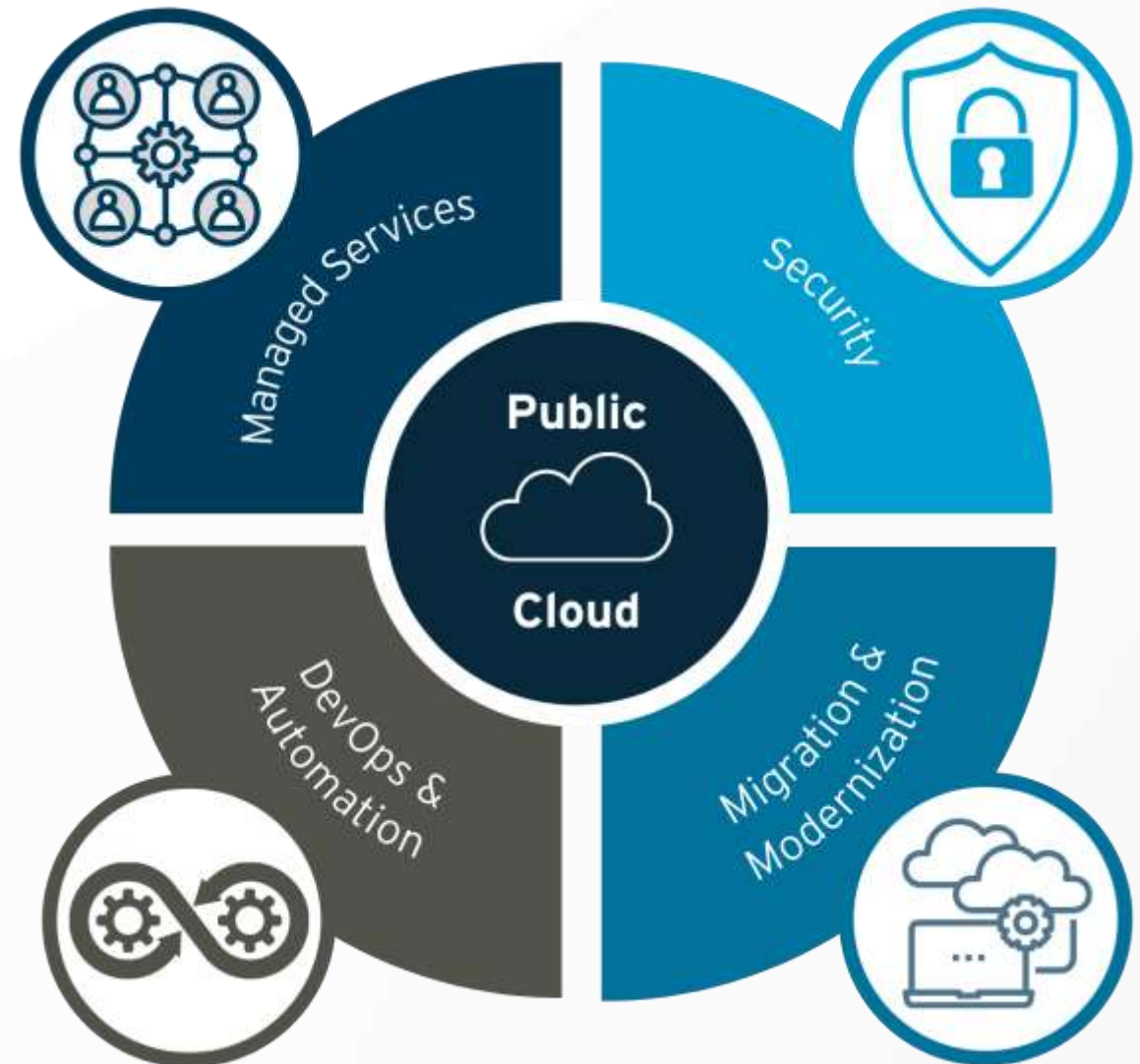
- Cloud Landing Zone & Foundations
- Migration Assessment & Execution
- Containerization, IaaS, PaaS, & FaaS
- Cloud Virtual Desktop Solutions

## Enhancing DevOps & Automation

- Scaling cloud deployments with Infrastructure as Code
- Developing DevOps practices
- Building CI/CD automation

## Combating Modern Security Threats

- Cloud Security & Governance Framework
- Threat Detection & Modern Security Architectures



# iVision Cloud Skills

## Architecture

- Well Architected Design
- Resource Management and Governance
- High Availability and Disaster Recovery
- Cost and Performance Optimization
- Identity, Security, and Encryption
- Migration (Rehosting, Replatforming, Refactoring)

## Infrastructure Services

- Compute
- Storage
- External Networking (WAN/VPN/Direct Connect)
- Network Policy and Management (VPC/WAF/ALB/NLB)
- IPAM
- DNS

## Platform Services

- Identity, Security, and Encryption
- App Containerization with Kubernetes / Docker
- Web Services
- Serverless / Cloud Native
- Databases and Data Warehouse
- Enterprise Service Bus

## Automation

- Continuous Integration (CI)
- Continuous Delivery / Continuous Deployment (CD)
- Infrastructure As Code (IaC)
- Terraform / Ansible / Puppet / Chef / SaltStack
- Package Management
- Cross Platform Machine Images

## Development

- Enterprise Applications SDLC
- Web Applications
- Serverless / Cloud Native
- Microservices
- CQRS/Event Driven Architectures
- Test Driven Development

## Security



# Goals & Strategy

## Pre-Migration



- **Inventory Database Assets**
- Identify **Target SQL Platform**
- Gather **SQL Performance Baseline**
- Define **Azure Sizing**
- Plan for **HA/DR** requirements
- Determine **Security Requirements**
- Define **Operational Plan** (Monitoring & Backup)
- Remediate **migration blockers**

## Migration



- Migrate **Source schema, source data and objects** to target
- **Sync target schema and data** with source
- Perform cutover on **non-critical workloads before critical**
- Enable Operational integrations w/ **Azure Monitor Logging & Alerting**
- Visualize production workloads with **Azure Monitor dashboards**

## Post Migration & Support



- iVision **Azure Experts** will Lead & Support **Migration activities**
- **Remediate Applications**
- Perform **Functional & Performance Tests** against baseline
- Validate **Operational enablement** of migrated workloads
- **Optimize** SQL configuration

### Key Activities

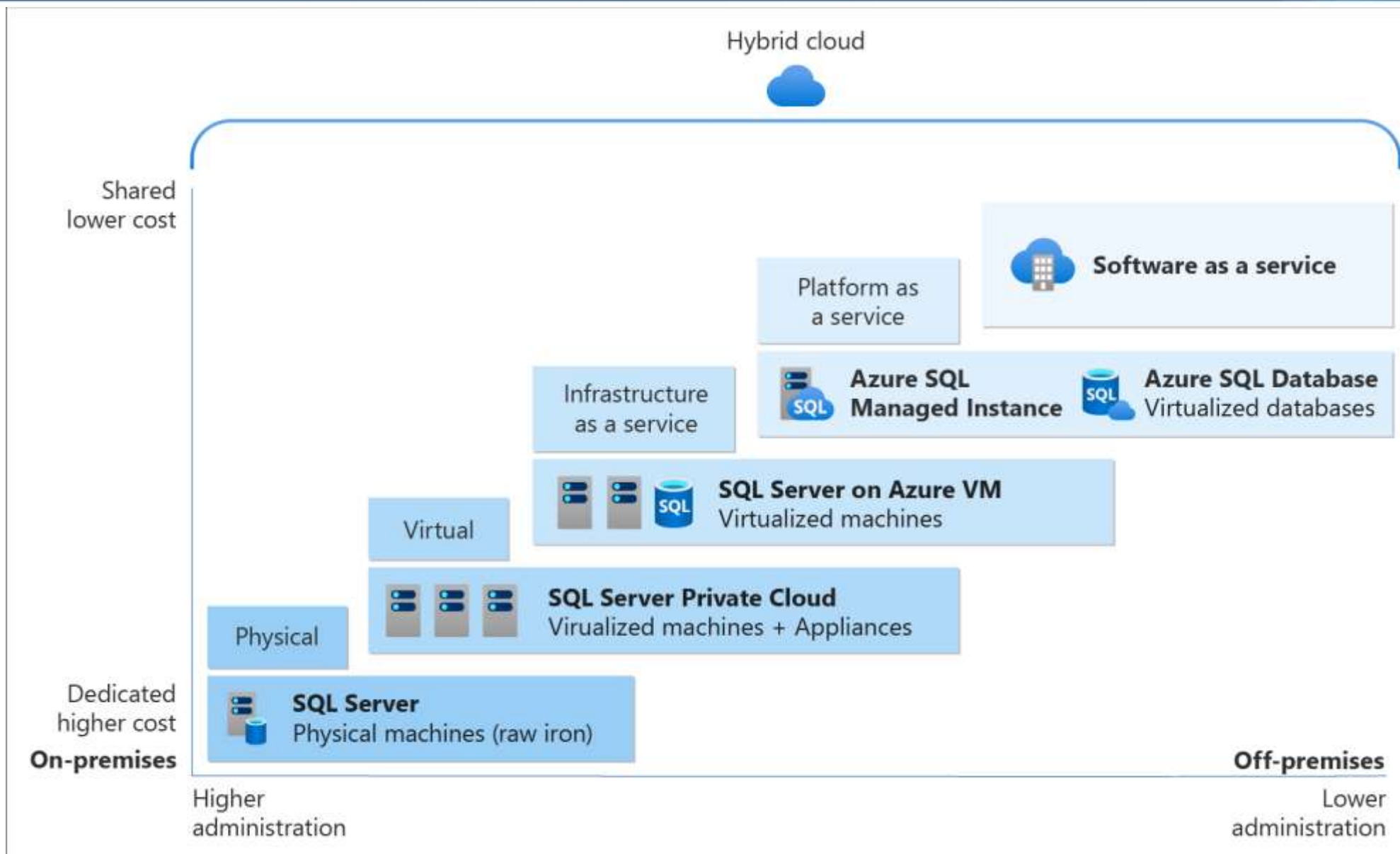
### Outcomes

- **Database Adoption Plan**
- **Database Workload Inventory**
- **Stage Azure SQL Environment**
- **Test Tooling and Plan**

- **Scripted Migration Tasks**
- **Migrated Workloads**
- **Monitoring & Backups**

- **Established DBAs w/ 15+ Years**
- **Operationalize Environment**
- **Spend Optimization Recommendations**

# Goals & Strategy





## Azure SQL

### SQL virtual machines

Best for migrations and applications requiring OS-level access



#### SQL virtual machine

- SQL Server and OS server access
- Expansive SQL And OS version support
- Automated manageability features for SQL Server

### Managed instances

Best for most lift-and-shift migrations to the cloud



#### Single instance

- SQL Server surface area (vast majority)
- Native virtual network support
- Fully managed service

#### Instance pool

- Pre-provision compute resources for migration
- Enables cost-efficient migration.
- Ability to host smaller instances (2Vcore)
- Currently in public preview

### Databases



#### Single database

- Hyperscale storage (up to 100TB)
- Serverless compute
- Fully managed service

#### Elastic pool

- Resource sharing between multiple databases to price optimize
- Simplified performance management for multiple databases
- Fully managed service