

ivision

**Azure VMware Solution**

# Microsoft Partnership

## Focus Solutions in all Microsoft Clouds

- ✓ Modern Work
- ✓ Azure
- ✓ Dynamics



**Microsoft Gold  
Partner since 2004**



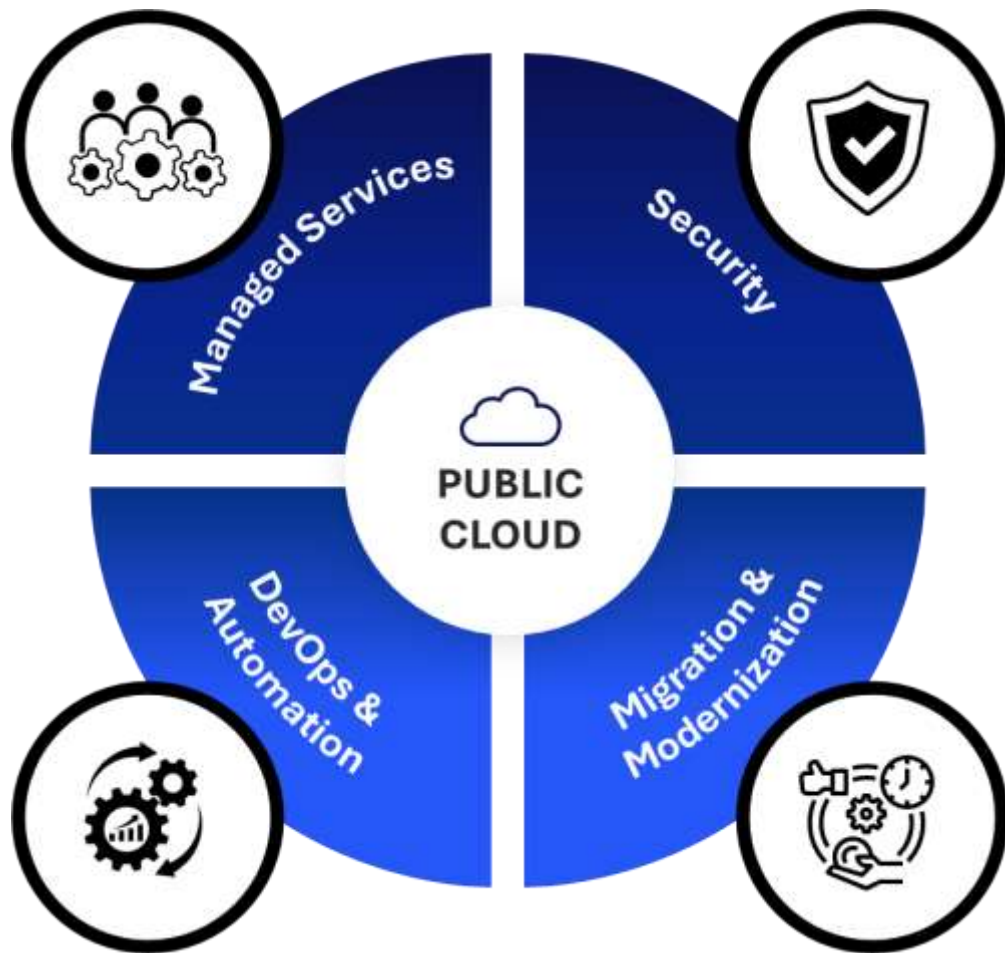
**Strong relationships  
with the Microsoft  
Account Teams**



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



# Enabling Cloud Adoption



## 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

# Our Approach



## ARCHITECT SOLUTIONS LIFECYCLE

- Cloud Cost Management
- IT Asset Management
- IT Financial Management
- Maintenance Renewals
- Product Procurement
- Roadmaps

## TRANSFORM CONSULTING SERVICES

- vCIO & vCISO Advisory
- Mergers & Acquisitions
- Program & Project Management
- IT Strategy
- Technology Consulting Services

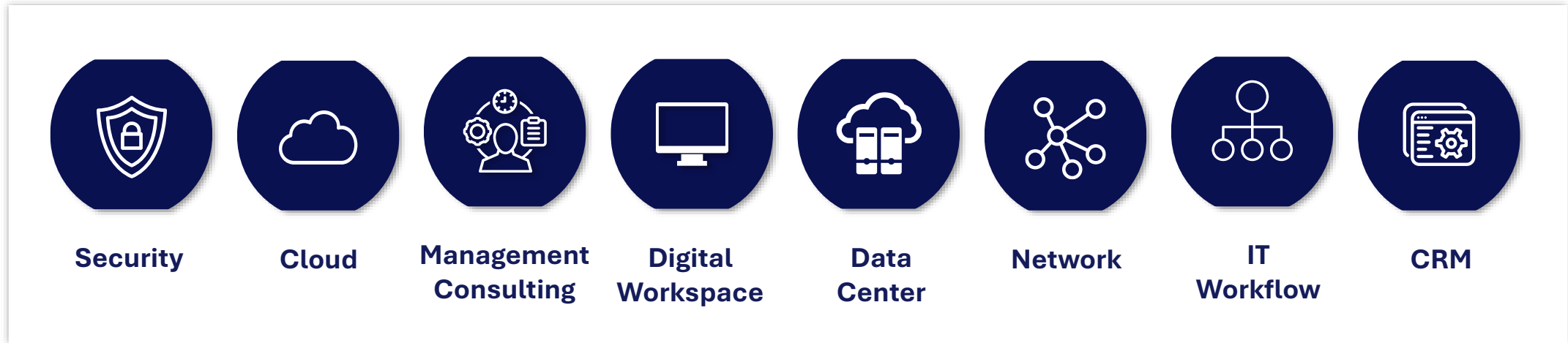
## OPERATE MANAGED SERVICES

- Business Applications
- Cloud
- Data Center
- Digital Workspace
- IT Workflow
- Network



# Our Approach

## DIGITAL PLATFORM



### ARCHITECT



### TRANSFORM



### OPERATE

#### Solutions Lifecycle

- Cloud Cost Management
- IT Asset Management
- IT Financial Management
- Maintenance Renewals
- Product Procurement
- Roadmaps

#### Consulting Services

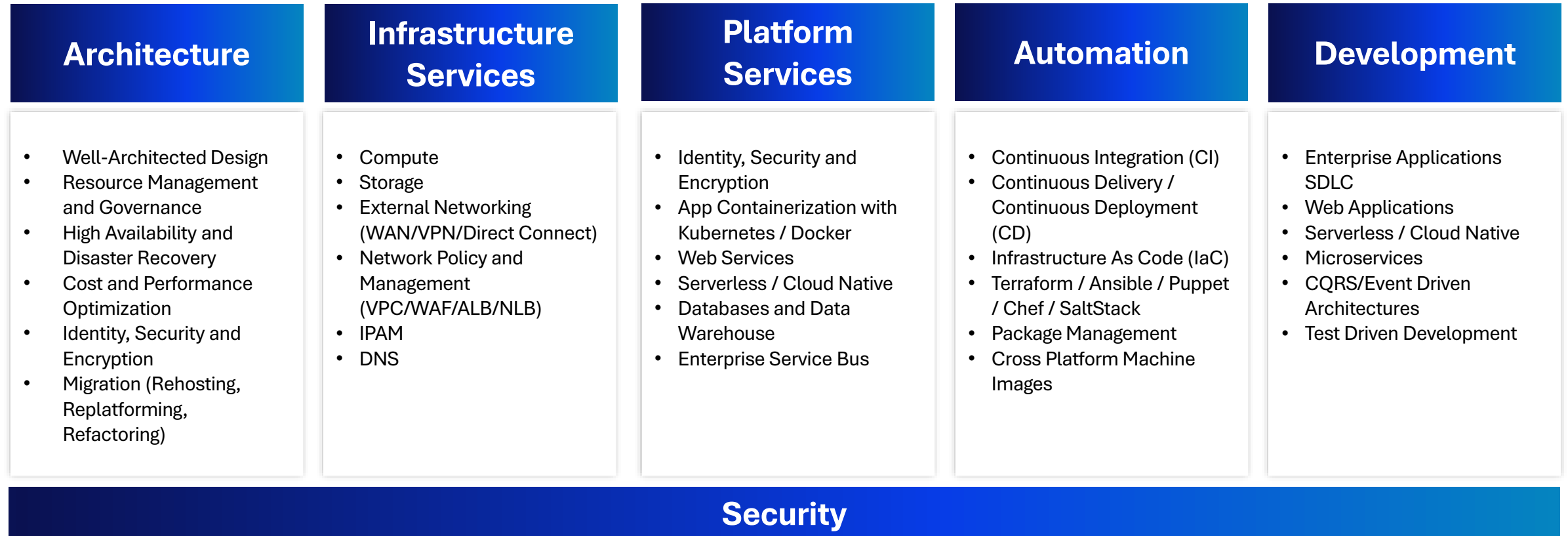
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- Technology Consulting Services

#### Managed Services

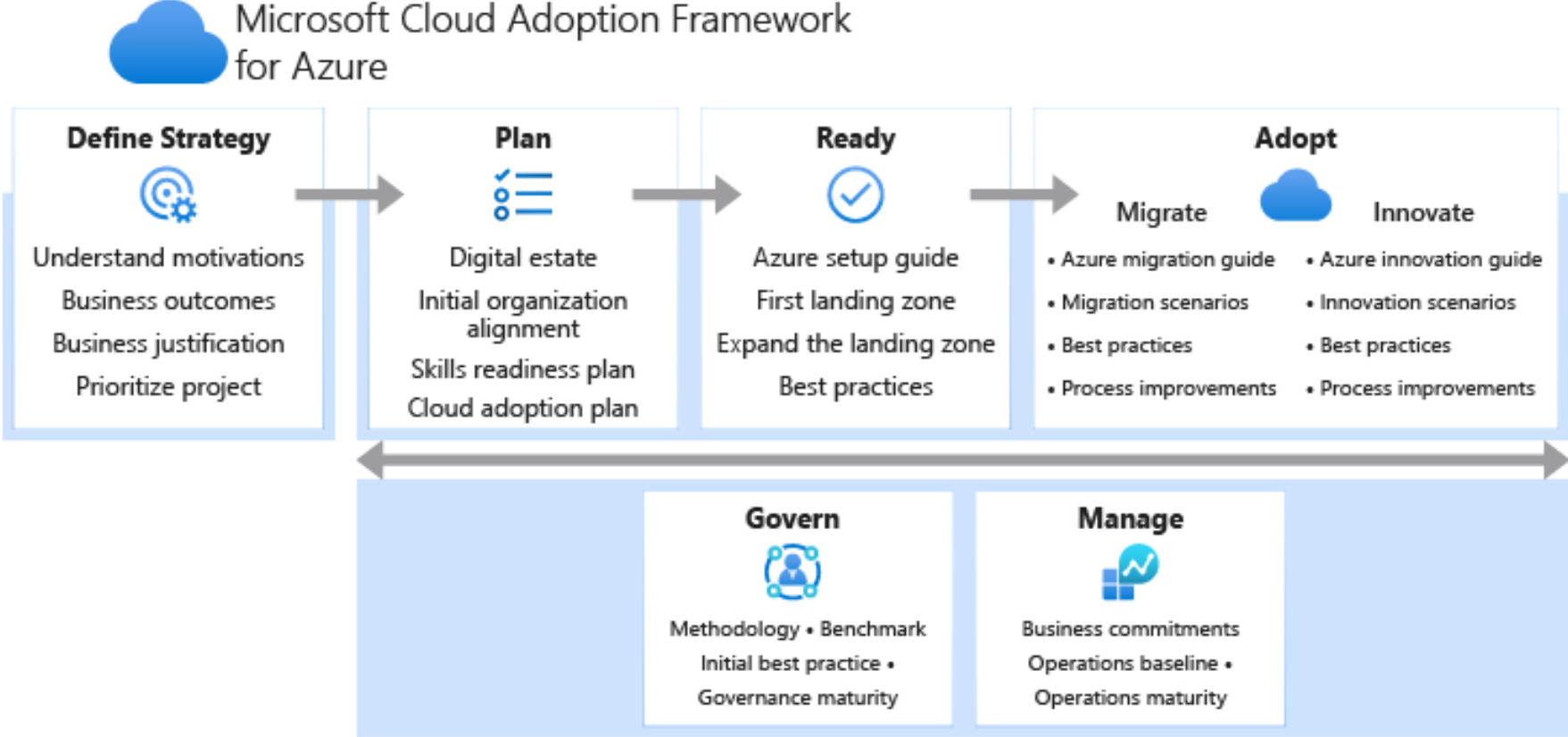
- Business Applications
- Cloud
- Data Center
- Digital Workspace
- IT Workflow
- Network
- Security



# ivision Cloud Skills



# ivision Alignment to Cloud Adoption Framework (CAF)



ivision delivery methodologies aligns with Microsoft Cloud Adoption Framework (CAF)

# Division Momentum Delivery Framework

## PLAN



### INITIATE ENGAGEMENT

- Conduct detailed discovery
- Outline requirements
- Identify risks
- Define team's roles
- Develop project plan

## DESIGN



### ARCHITECT SOLUTION

- Create a detailed design
- Define test plan
- Plan migration
- Submit change control requests

## EXCECUTE



### IMPLEMENT DESIGN

- Build out based on design
- Test and validate solution
- Conduct migration
- Manage risks

## CLOSE



### CLOSE PROJECT

- Validate client satisfaction
- Complete knowledge transfer
- Transition to operations

## OPERATE



### MANAGE SYSTEMS

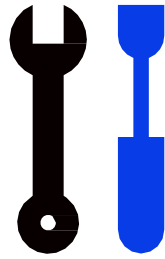
- Manage daily operations, including change management
- Monitor performance & identify ways to continuously improve



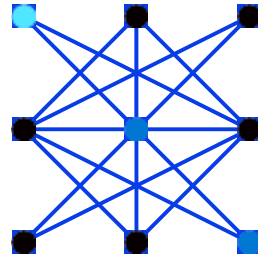
# Azure VMware Solution



Get scale, automation, and **fast provisioning for your VMware workloads on global Azure infrastructure**



Keep using your **existing VMware investments, skills, and tools**, including VMware vSphere, vSAN, and vCenter



**Modernize** your VMware workloads by integrating with **native Azure services** such as Azure Active Directory, AI and Analytics



Take advantage of unmatched Azure **pricing and benefits** for Windows Server and SQL Server



Confidently use Azure VMware Solutions knowing that they're **first-party Microsoft offerings** backed by VMware

# Azure VMware Solution



## Azure native services integration

### Connect to Azure services endpoints

Leverage **Azure Active Directory** as VMware vCenter **SSO** identity source.



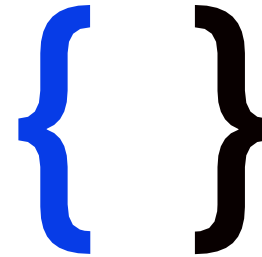
## Lower cost for Windows Server and SQL Server

Major cost reductions for **Windows Server and SQL Server with and Extended Security updates** in addition to reservation discounts (for both Linux and Windows)



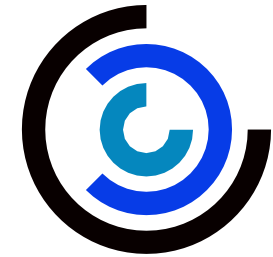
## vSphere network full compatibility

**Full compatibility with both NSX SDN architectures** as well as traditional vSphere networking



## Elevated Privileges mode (root access)

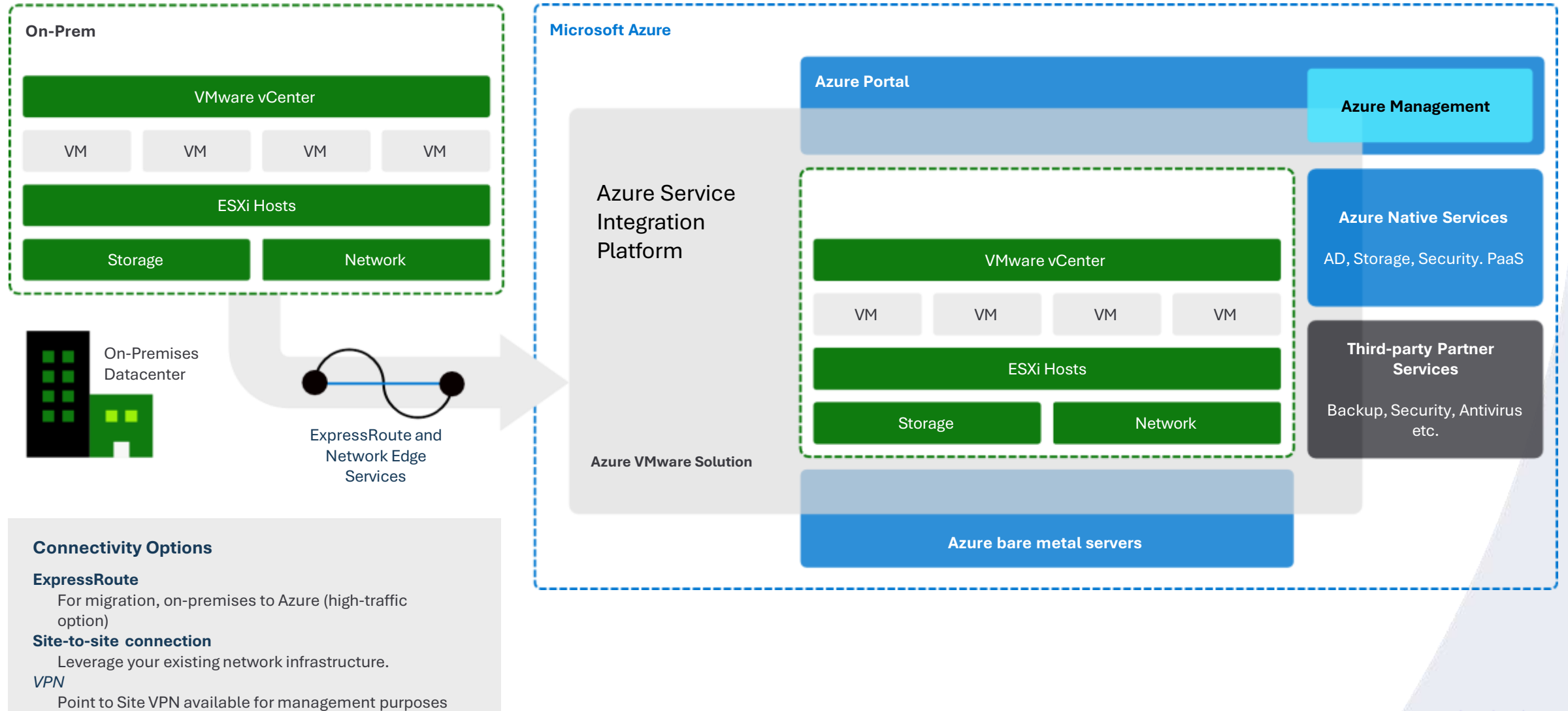
Self-service - **Just in time admin access to vCenter** (management) to enable wide ecosystem tool compatibility



## Unified Management

**Single pane of glass to manage vSphere-based and Azure native VMs, with uniform identities, access control and monitoring.**

# Azure VMware Solution



# Azure VMware Solution





## Azure VMware Solution – Shared responsibility Matrix


Control boundaries

	Physical Infrastructure	Physical Security	Azure VMware Solution Portal	Hardware Failures	ESXi Host\Patching	VMware NSX-T Data Center	VMware vCenter Server	VSAN	HCX/SRM	Portal\Platform Identity Management	Connectivity to VNET/Internet	Virtual Machines	Guest OS	Applications	3 <sup>rd</sup> party Solution
Deployment/Lifecycle	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Grey	Grey	Grey	Grey
Provider Configuration	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Black	Black	Black	Black
Tenant Configuration	Black	Black	Black	Black	Black	Black	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey
Support	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Grey	Grey	Grey	Cyan

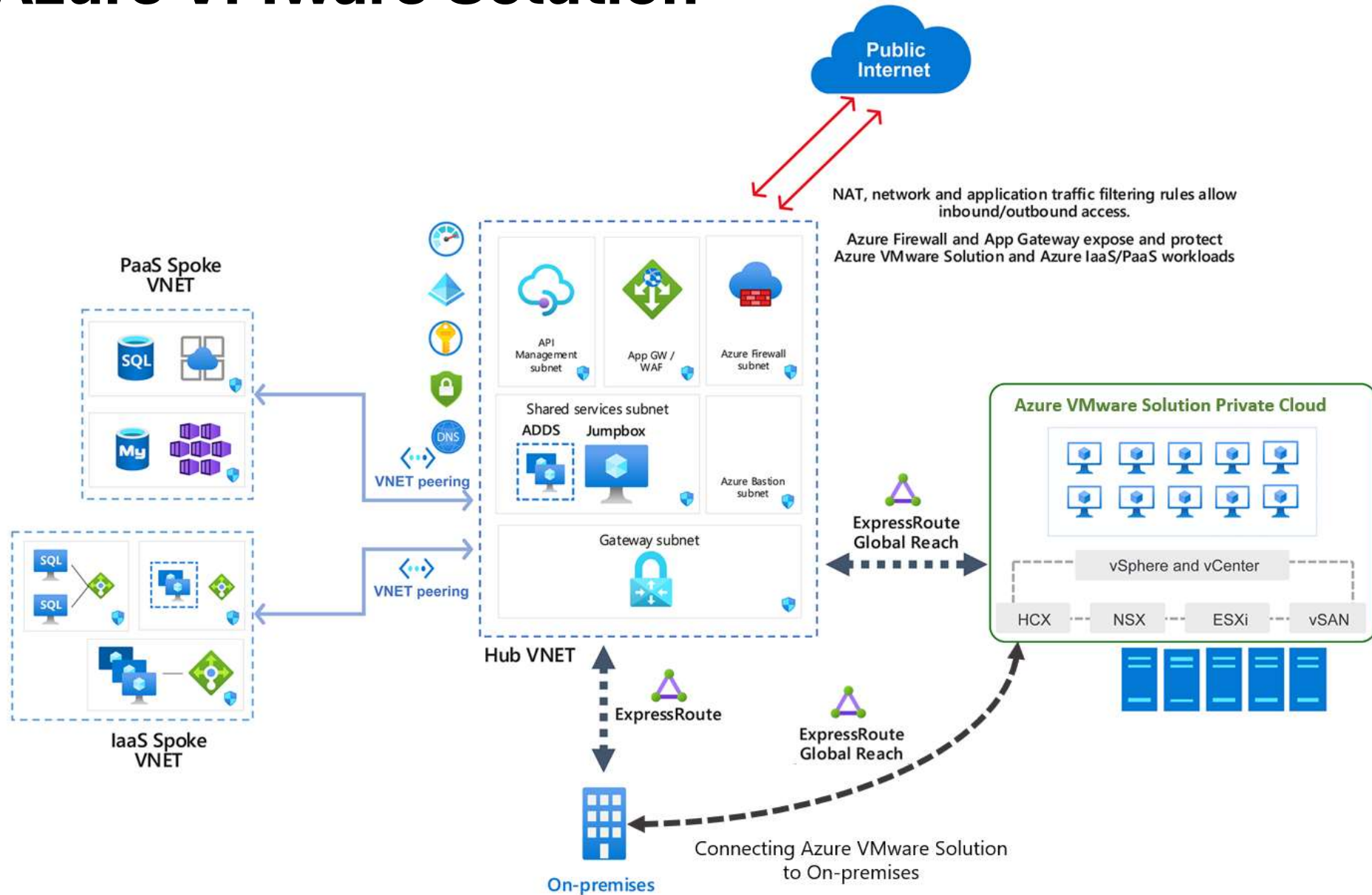
 - Microsoft Responsibility

 - Customer/Tenant Responsibility

 - Not Applicable

 - 3rd Party Vendor

# Azure VMware Solution



NAT, network and application traffic filtering rules allow inbound/outbound access.

Azure Firewall and App Gateway expose and protect Azure VMware Solution and Azure IaaS/PaaS workloads

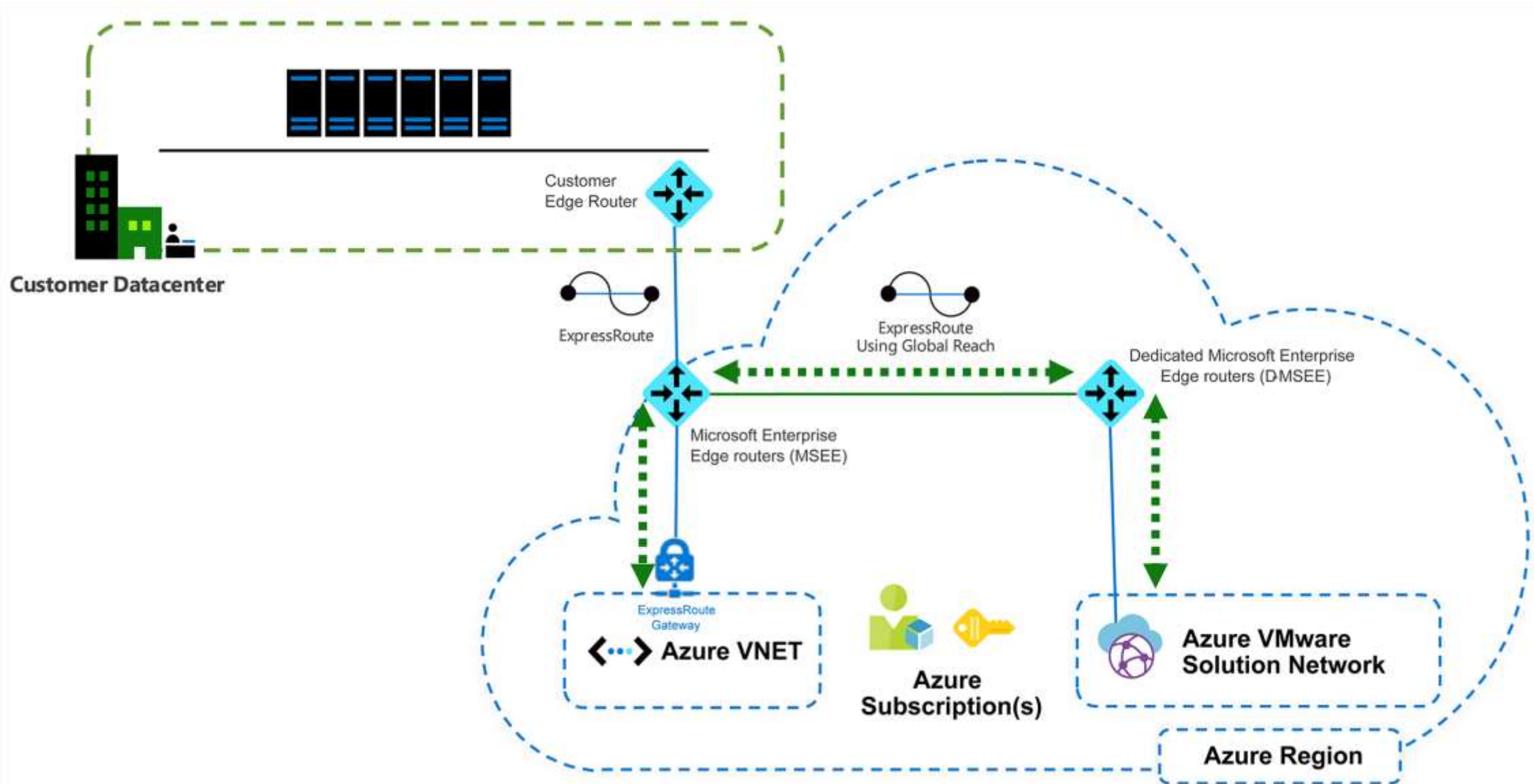
ExpressRoute Global Reach

ExpressRoute Global Reach

Connecting Azure VMware Solution to On-premises



# Azure VMware Solution



# Goals & Strategy

2 - 4 weeks

## 1 Azure Economic Assessment

Optional – Highly Recommended

1–3 weeks

## 2 ALZ Design

4–5 weeks

## 3 Build Landing Zone

Timeline Varies

## 4 Migration Factory

## 5 Next Steps

1

### Perform Azure Economic Assessment

An Azure Economic Assessment is an ivision co-sell solution that leverages a data-driven discovery tool owned by Microsoft called Movere to scan the environment, map dependencies, aggregate findings, expose analytics and apply advanced AI/ML concepts to produce cloud “right-sizing” optimization recommendations along with proven economic forecasting.

2

### Perform Planning & Environment Discovery

Assess current environment for security, monitoring and networking and plan using ivision’s Azure Health Check co-sell solution and design Azure Landing Zone.

3

### Deploy Azure Landing Zone and migrate existing resource

Deploy an Azure Landing Zone using ivision’s Azure Foundation co-sell solution to ensure readiness for accelerated adoption. Migrate resources from existing Azure subscription(s) to new environment.

4

### Migrate Workloads to Azure

Migrate resources from on premises and existing Azure subscription(s) to new Azure environment.

5

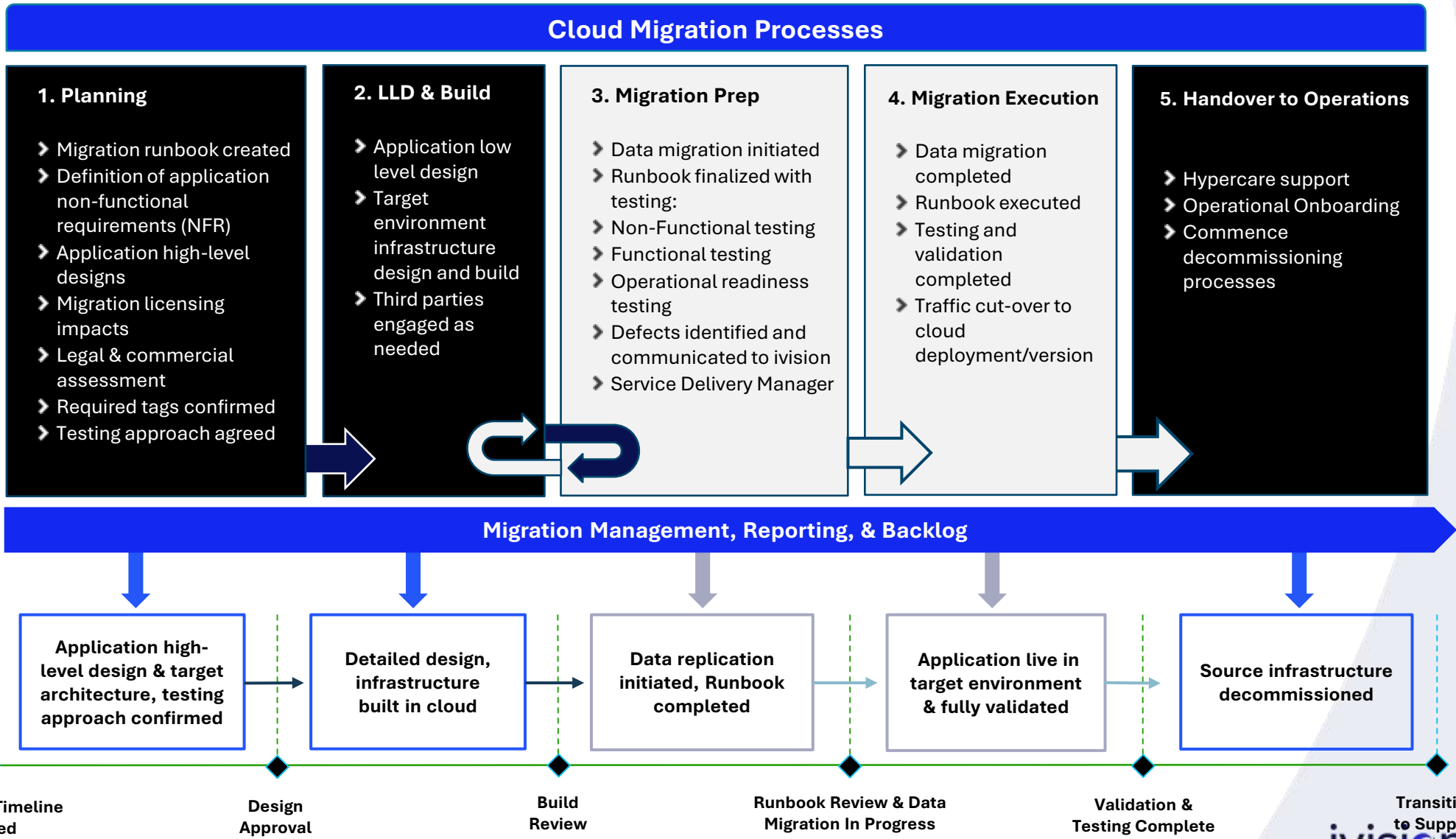
### Take next steps in adopting the Azure platform

Based on the outcomes of the application assessment(s) in step 3, execute on the next steps in the Azure adoption journey, relying on the secure, governable framework established by the Azure Landing Zone.

# Cloud Migration Process



- Migration Input**
- Cloud Migration Assessment
    - Target Cloud Service Provider Selection
    - Defined Migration Waves
    - Application Dependencies
    - Right Sized Target Infrastructure Instance Sizing
    - Migration Strategy
  - Secure Target Cloud Landing Zone Deployed
  - Network Connectivity from Source Environment to Target Cloud Environment







# Azure Foundation | Landing Zone

## WORKLOAD DISCOVERY AND DESIGN



- Subscription and Management Group review and design
- Discuss naming standards and configuration
- Discuss Tagging standards
- Discuss IAM / RBAC
- Discuss Operations – Backup, Monitoring & DR Requirements
- Determine networking CIDR ranges
- Determine networking configurations within Azure & Hybrid
- Discuss firewall configuration and vendor

## DESIGN AND DOCUMENTATION



- ivision prescriptive Azure Foundation (*Landing Zone*) drawing
- Design and documentation for all Foundation (*Landing Zone*) requirements

## DEPLOY



- ivision deployment of Azure Foundation (*Landing Zone*) into customers environment
- Deployed with IAC – Infrastructure as Code

## OUTCOMES

- **Deployed Azure Foundation (*Landing Zone*)** – Deployment of an Azure Foundation (*Landing Zone*) to include Networking, VPN Gateway connectivity, Management Groups and Subscription design and governance, Base Line RBAC and Naming Standards
- **Azure Foundation Documentation** – Architectural diagrams including subscription topology, on-premises connectivity pathways, relevant resource group designs and other design aspects of the landing zone as described in the scope of work.
- **Knowledge Transfer** – Knowledge transfer for operational support



# Azure VMware Solution

## WORKLOAD DISCOVERY AND DESIGN



- Subscription and Management Group review and design
- Discuss naming standards and configuration
- Discuss Tagging standards
- Discuss IAM / RBAC
- Discuss Operations – Backup, Monitoring, & DR Requirements
- Determine networking CIDR ranges
- Determine networking configurations within Azure & Hybrid
- Discuss firewall configuration and vendor
- Azure Migrate AVS Assessment
- Review Network Connectivity
- Review Application Workloads
- Azure Landing Zone Assessment
- Define AVS Sizing and Configuration

## DESIGN AND DOCUMENTATION



- iVision prescriptive Azure Foundation (Landing Zone) drawing
- Design and documentation for all Foundation (Landing Zone) requirements
- Planning and Design Sessions, Dependency mapping and Migration Planning
- AVS Architecture and Design documentation

## DEPLOY



- iVision deployment of Azure Foundation (Landing Zone) into customers environment
- Deployed with IAC – Infrastructure as Code
- Creation of AVS Private Cloud
- Configure and Validate Network connectivity (On-Prem, Express Route etc.)
- Deploy and configure HCX and pair HCX connector to AVS and On-prem
- Workload Migration (vMotion)

## OUTCOMES

- Deployed Azure Foundation (Landing Zone) –Deployment of an Azure Foundation (Landing Zone) to include Networking, VPN Gateway connectivity, Management Groups and Subscription design and governance, Base Line RBAC and Naming Standards
- Azure VMWare Solution Design and Deployment – Architectural diagrams of the proposed Azure VMWare Solution (AVS) along with Production-grade AVS deployed and configured in Azure that includes iVision's recommended best practices applicable to AVS.
- Final Documentation – Architectural diagrams including subscription topology, on-premises connectivity pathways, relevant resource group designs, and other design aspects of the landing zone as described in the scope of work.
- Knowledge Transfer – Knowledge transfer for operational support

# ivision



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