### Tech Mahindra



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BUSINESS TODA



# **Migration to Azure**

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BrainScale

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# When it comes to Azure, we are the experts.

NLS #1 Gold Partner for Apps, Data and Security

**Azure Arc Launch Partner** 

Solution Assessment Partner

atmosera.

EY Building a better

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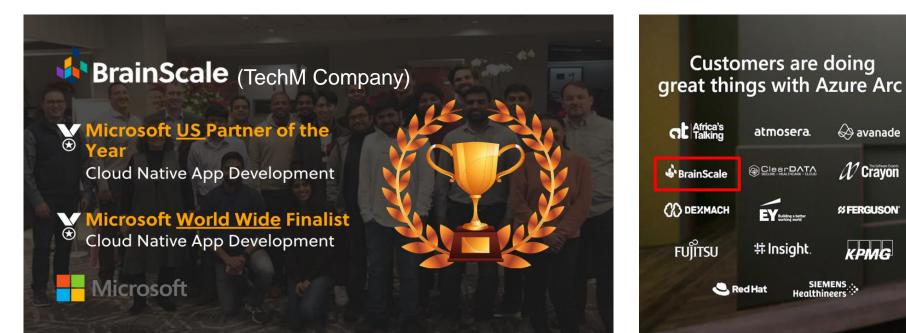
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**AMMP** Partner

Invent



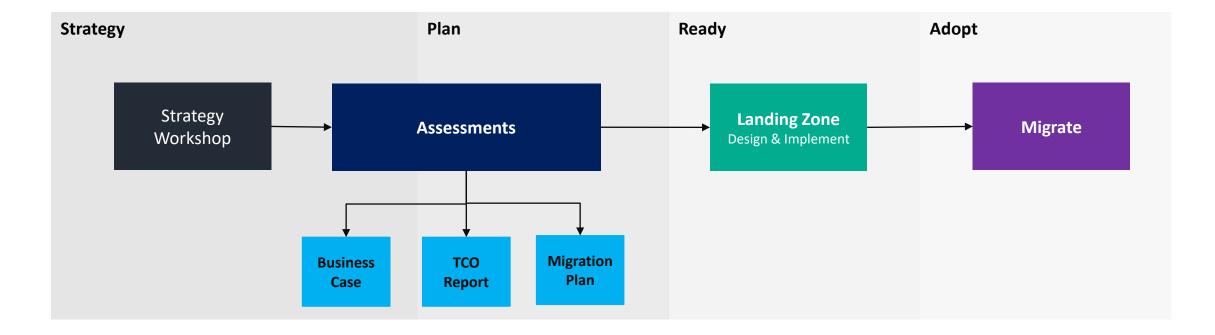
### **Microsoft Audited Advanced Specializations on Azure:**



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# AVS Migration Approach CAF Aligned Methodology

### Cloud Migration Approach A Microsoft Cloud Adoption Framework (CAF) aligned approach







### **AVS Offering**

# Phase 1: Workshop & Assessment

# Workshop & Data Gathering

- •Assess VMware environment
- •Collect data and metrics
- •Identify workloads to migrate
- •Use Azure Migrate/RVTool/vRops, to capture additional information

## Analysis

- Target environment sizing for AVS
- Best practices for Azure VMware Solution adoption
- TCO analysis of target state
- Migration and transformation
   options and recommendations

## Deliverables

- Migration Approach & Roadmap
- Recommendations for utilizing native security and network services
- TCO Report





**AVS Offering** 

# Phase 2: Planning, Design & Migration

Landing Zone Design	Migration Planning	LZ Implementation	Prepare to Migrate	Test Migration (POC)	Migration Factory
<ul> <li>Network &amp; Connectivity</li> <li>Define Network Topology</li> <li>Define Connectivity Strategy between DC &amp; Azure (VPN / Express Route)</li> <li>Define VMware HCX network segments</li> <li>Identify Routing requirements</li> <li>Identify DNS &amp; DHCP Considerations for AVS</li> </ul>	<ul> <li>Move Group Planning</li> <li>Identify Workloads based on Assessment outcome</li> <li>Define Migration Approach Live/Bulk/Cold based on business needs</li> <li>Create a Move Group Plan</li> <li>Create a Migration POC Plan for 5 Non- Production VMs: 3 VMs needing Bulk &amp; 2 VMs needing Live migration</li> </ul>	<ul> <li>AVS Resource Creation</li> <li>Initiate AVS Resource Creation request with Microsoft</li> <li><b>LZ Implementation</b></li> <li>Implement Azure LZ as designed</li> <li>Configure Azure DNS forwarder</li> <li>Create new RG &amp; vNet for AVS private cloud</li> <li>Deploy Jump Server for accessing AVS vCenter and NSX-T</li> </ul>	<ul> <li>VMware HCX</li> <li>Deploy HCX connector in on-premise vCenter</li> <li>Establish connection between HCX enterprises to HCX connector</li> <li>Create compute, network profile configuration.</li> <li>Create Service mesh configuration</li> <li>Configure L2 extension with mobility optimization feature for Live migration</li> </ul>	<ul> <li>Verify ESXi network, vMotion</li> <li>Initiate bulk, Live migration for 5 VMs identified</li> <li>Monitor the network performance</li> <li>Monitor VM performance for 2 days</li> <li>Initiate reverse migration with bulk &amp; live migration</li> <li>Monitor performance of reverse migration</li> <li>Create POC Success Report</li> </ul>	<ul> <li>Ensure 1 Gbps of bandwidth is dedicated for migration</li> <li>Create Move Groups of 25 VMs for Bulk/Live Migrations</li> <li>Initiate Migration</li> <li>Monitor Migration</li> <li>Cutover &amp; Go-Live Support</li> <li>Post Migration Support</li> <li>Knowledge Transfer &amp; Handover</li> </ul>

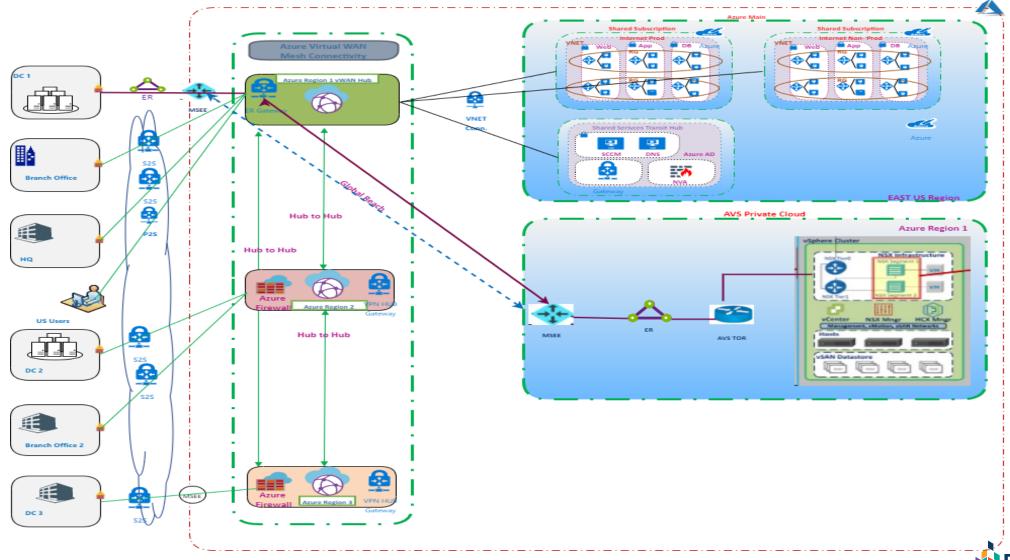
3 Weeks

\*4 weeks is the estimated migration time assuming 100 VMs. The timeline will vary based on the number of Servers to be migrated

1 Week

4+ Weeks\*

# AVS Solution Reference Architecture



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# **BrainScale**

# AVS Case Study Global leader in analytical instruments and software

On-prem legacy applications running on out of support OS

#### No support available from Application teams , No knowledge of many applications by IT team

- Business looking for migration of application with Zero changes (retain same IP's, consistent machine format, same SLA)
- On-prem VMware environment refresh needed and data center footprint reduction

#### Our Solution

**Business** 

Challenge

#### **Landing Zone Creation**

- Azure Main Landing Zone creation as per Microsoft Best Practices
- Creation of AVS Private Cloud

#### **Networking/Security**

- Design/Implementation of Azure vWAN
- Connectivity via Prisma Cloud/ER/S2S
- ER Global Reach connection to AVS .

#### **On-Prem Workload Assessment**

- On-prem workload assessment using Movere
- Analysis of Applications
- Decision Matrix of AVS vs Azure Main

#### **Migration Phase**

- Dependency mapping/ Application assessment
- Migration Planning (Wave based Migration)
- V2V migration of VM's
- Post Migration/Break Fix Support

### At Scale:

- Seamless migration to same platform (extension of DC)
- On-Premises Asset Assessment and 6R Analysis
- Financial Projections for Cloud footprint
- Project Planning, Cost Control and Risk Assessment
- Security and Compliance
- Planning for Landing Zone and Network Layout
- BCDR planning in Cloud
- Factory based Migration from On-Prem to Cloud
- Zero downtime
- Wave based migration
- Post Migration Support



Solution Assessment for 900 Servers



**Decision Matrix** 



Factory Based migration approach

70% increase cloud adaption



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# Thank you

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