Application Migration Plan



Title

Prepared for

**[Insert Application Stakeholder]**

**[Enter Date]**

Version: v1.0

Prepared by

**[Enter Name]**

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Abstract

**Remove this abstract before sending to the Application Team.**

This document applies to both Application Migration and Clean Deployment migration strategies. For Clean Deployment, a Deployment Plan should also be created documenting the steps to install and configure the application components.

1. Introduction

The aim of this document is to capture all the required information to perform an Application Migration. The intent is to complete the document during a one-hour collaboration session between the Migration Team and the Application Team. This document is initially prefilled with the data that has been collected during discovery. The remaining data is to be collected during this application collaboration session.

This document applies to both Application Migration and Clean Deployment migration strategies. For Clean Deployment, a Deployment Plan should also be created documenting the steps to install and configure the application components.

|  |  |
| --- | --- |
| Role | Contact Details |
| Application Name |  |
| Application Owner |  |
| Application Stakeholders |  |

1. Application Specific Information

Provide reference to saved Application Information Form (AIF) to define existing application details.

1. Migration Environment

This section describes the Source and Azure Target migration environment details.

* 1. Destination Server Specifications

| Subscription | Target Server Name (FQDN) | IP Address  (if static IP required) | Desired Operating System | CPU Cores | Memory (MB) | | Max. Disk Size (GB) | | Environment |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | |  | |  | Dev/Prod/Test |
|  |  |  |  |  | |  | |  | Dev/Prod/Test |

* 1. Azure IaaS Virtual Machines Specifications

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Target Server Name (FQDN) | | Azure Resource Group | | Target Azure Region | | Azure VM Size/SKU | | Availability Set/Zone | | Hybrid Use Benefit (Yes/No) | Boot Diagnostics Enabled (storage account/No) | Source VM Shutdown |
|  |  | |  | |  | |  | |  |  |  | |
|  |  | |  | |  | |  | |  |  |  | |

* 1. Databases

| Database Name | | Server Name/IP | | Local | Remote Shared | Encryption | Clustered | Version | Size  (in GB) | Migrate with Application | Migrate with Server |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | Yes/no | | Yes/no | Yes/No | Yes / no |  |  | Yes/no | Yes/no |
|  |  | | Yes/no | | Yes/no | Yes/No | Yes/No |  |  | Yes/no | Yes/no |

* 1. Network Attached Storage (NAS)

| Source Name/IP | Share Name(s)/Mount Points | | Protocol (SMB/NFS/CIFS) | Space Used |
| --- | --- | --- | --- | --- |
|  |  |  | |  |
|  |  |  | |  |

* 1. Azure Storage Specifications

|  |  |  |  |
| --- | --- | --- | --- |
| Server Name | Disks | Storage Type (Standard SSD, Premium SSD, etc.) | Optimization and performance requirements |
| <servername01> | <c:\ or sda> |  |  |
|  | <E:\ or sdb> |  |  |
| <Servername02> | <C:\ or sda> |  |  |
|  | <E:\ or sdb> |  |  |

* 1. Azure Network Specifications

| Target Server Name | Azure vNet | Subnet | No. of NICs | IP Address | Accelerated Networking? |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

* 1. Load Balancers

| Name | Frontend IP | Protocol | Port | Backend Port | Backend Pool | Health Probe | Session Persistence |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

* 1. Azure Tags

| Target Server Name | Azure Tags |
| --- | --- |
|  | Use predetermined tags if they exist |
|  |  |
|  |  |

* 1. DFS Namespace

| Source Storage | Actual Path | Target Storage Location | Target Replication | Environment |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |

* 1. DNS Updates

| Environment | DNS Suffix/A-Record | Type | Cert | IP Address |
| --- | --- | --- | --- | --- |
| Dev/Prod/Test | <URL/Hostname> | Host A |  |  |

1. Migration Process
   1. System Verification Testing

The Migration team are responsible for basic system level verification testing. These checks will be made before handing over to the application owner for MAT.

| Server Name | Available on Network | Remotely Accessible | Presented with Logon Screen |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

* 1. Migration Acceptance Testing

Migration Acceptance Testing (MAT) will be performed by Application Owner during the planned migration / change window. It is the responsibility of the Application Owner to perform all application-related testing of the workload in Azure, including any data verification needed. The Application Owner can reach out to the migration team if they have any questions during MAT. Post migration support is up to 10 business days, starting from when the application is handed over to the Application Team to perform MAT. MAT scripts and steps are located in **Appendix C**.

* 1. Roll Back Plan

In the event a major issue is encountered during a migration or an issue with any services the migration is dependent on, the migration team will shut down the VMs on Azure and the on-premises virtual machines will be powered on.

In general, the rollback plan would be to turn off the target machines (VM’s) and start using the source servers. There are no changes done on the source servers and all the applications and its configurations would be preserved. In case of a rollback, the infrastructure/network team will revoke the DNS changes performed after servers are migrated to Azure (if applicable).

| Step | Roll back Steps | Task Owner | Status |
| --- | --- | --- | --- |
| 1 | GO/NO-GO decision for Roll back | Application Owner/Migration team |  |
| 2 | Revoke CNAME change request via agreed migration interface | Customer |  |
| 3 | Shutdown the VM/Services on Azure | Migration Team |  |
| 4 | Start Services on On-Premises source server | Customer |  |
| 5 | Perform source server application validation | Application Owner |  |

* 1. Migration Schedule

This section describes the migration schedule details.

|  |  |  |
| --- | --- | --- |
| Migration / Replication Planned Start Date | Cutover Planned / Completion (Change Window) Date/Time | Other dependencies/impact (e.g. rolling change freezes, data replication restrictions during business hours etc.)? |
|  |  |  |
|  |  |  |

* 1. Migration Decision

Add summary for the migration decision and any additional configuration relevant to the application e.g. Application uses D:\ on-premises and it needs to be used in Azure also. Are there any additional post migration activities to be performed etc.?

If OS Upgrade automation, Azure VMware Solutions (AVS) target, hostile migration (guest access only), or post-migration automation employed, select RiverMeadow for the tool and note the details in the **Comment** column.

| Server Name | Migration Strategy | Tool | Comment |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

1. Appendix A: Firewall and NSG Rules

Note who will be performing these changes.

| Protocol (TCP, UDP) | Source IP | | | Source Port | | Dest. IP | Dest. Port | Direction | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | |  | | | |  |
|  |  |  |  | |  | | | |  |

1. Appendix B: Artifacts
2. Appendix C: MAT Scripts and Steps

Application Team to provide Migration Acceptance Test (MAT) details.