<Application Name>

Assessment Report

Prepared for: **Customer Name <Application Name>**

Date: Wednesday, 03 July 2024

Version: 1.0 Draft

Prepared by

Microsoft

Revision and Signoff Sheet

Change Record

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Author | Version | Change Reference |
|  | <Squad Name> | 0.1 | Initial version creation |
|  |  | 1.0 |  |

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Reviewers

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Name | Version | Review comments |
|  | <Architect Name> | 1.0 |  |

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Assessment Report Approvers and Signoff

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Name | Version | Signature |
|  | <Application Business Owner> |  |  |
|  | <Application Owner> |  |  |
|  | <Application Architect> |  |  |
|  | <Market/Opco Privacy> |  |  |
|  | <Market/Opco Security> |  |  |

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# Introduction

The purpose of this document is to detail all the required information to support the migration of an application and all its environments from the current Datacentre location to Azure. The document will be shared with the Migration Factory once approved by the identified Customer owners and leads and will serve as the baseline for the preparation and migration phases.

The document will be finalised once the required Customer owners and leads signed-off the document and the migration factory assigned accepted the application for migration.

The document approval cycle is depicted in the following diagram. The final approvals identified can be viewed in the Assessment Report Approvers and Signoff table.

Figure 1: Document Approval Cycle

1. Application Overview

The application located in the <Opco/Market Name> owned by the <Division/Department> is … <Include application purpose and functionality, alignment with business strategy and significance of the application to the organization, such as its impact on revenue, customer experience, or operational efficiency. Also include 1 liner application architecture such as: The application follows a microservices architecture with a front-end client, multiple independent back-end services, and a relational database, communicating through REST APIs and hosted in an on-premises data centre>

The application lifecycle is deployed across a <Production, Development, Pre-Production, Testing, Disaster Recovery> environments.

The following table provides a summary of the business criticality, service category and information classified within the application and environments.

|  |  |  |
| --- | --- | --- |
| **Business Criticality:** | **Service Category:** | **Information Classification:** |
| Application: <High/Low/Medium> | Application: <Bronze/Silver/Gold/Platinum> | Application: <Public (C1), Restricted (C2), Confidential (C3), Highly Confidential (C4)> |
| Environment 1: <High/Low/Medium> | Environment 1: <Bronze/Silver/Gold/Platinum> | Environment 1: <Public (C1), Restricted (C2), Confidential (C3), Highly Confidential (C4)> |
| Environment 2: <High/Low/Medium> | Environment 2: <Bronze/Silver/Gold/Platinum> | Environment 2: <Public (C1), Restricted (C2), Confidential (C3), Highly Confidential (C4)> |
| Environment 3: <High/Low/Medium> | Environment 3: <Bronze/Silver/Gold/Platinum> | Environment 3: <Public (C1), Restricted (C2), Confidential (C3), Highly Confidential (C4)> |

Table 4: Application Business Criticality, Service Category and Information Classification

* 1. Key Business Drivers

<Include motivations for migration such as risks, challenges, future roadmap, cost savings, scalability, or improved performance>

* 1. Key Contacts

The following key contacts have been identified to support the migration of the application to Azure.

|  |  |  |
| --- | --- | --- |
| **Full Name** | **Email** | **Title** |
|  |  | Business Sponsor/Owner |
|  |  | Application/App Technology Owner |
|  |  | Lead Architect |
|  |  | Application Manager |
|  |  | Application Architect |
|  |  | Application Developer |
| SI Partners / Vendors: <Include SI partner/vendor name responsible for development/maintenance/operations> |  | Application Operator / SI / Vendors |

Table 5: Key Contacts

* 1. Migration Strategy

The following section details the migration strategy selected for the application, technology selection and indicative cost for hosting the application in Azure.

* + 1. Migration Pattern and Complexity

The following table summarises the migration and complexity overview per application environment.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Application ID** | **Service Name** | **App Name** | **Environment** | **Migration Pattern** | **Complexity** |
|  | <Service Name> | <App Name> | < Production, Development, Pre-Production, Testing, Disaster Recovery > | <Lift & Shift, Rapid Migration, Application Migration, Clean Deployment> | <Low,Medium,High> |
|  | <Service Name> | <App Name> | < Production, Development, Pre-Production, Testing, Disaster Recovery > | <Lift & Shift, Rapid Migration, Application Migration, Clean Deployment> | <Low,Medium,High> |

Table 6: Migration Pattern and Complexity Overview

* + 1. Technology Selection

The following section provides an overview of the technology selection and changes to migrate and host the application in Azure.

|  |  |
| --- | --- |
| **Current Technology** | **Proposed Technology** |
| <Application Tech stack for each layer, including caching and database. Include version for each technology per environment> |  |
|  |  |

Table 7: Technology Selection

* + 1. Indicative Azure Cost

The following table provides the indicative cost for each environment to be hosted in Azure.

|  |  |  |
| --- | --- | --- |
| **Environment** | **Cost** | **Azure Calculator Link/File** |
| <Environment> | <Cost in Local Currency> | <Azure Calculator Link> |
| <Environment> | <Cost in Local Currency> | <Azure Calculator Link> |
| <Environment> | <Cost in Local Currency> | <Azure Calculator Link> |
| <Environment> | <Cost in Local Currency> | <Azure Calculator Link> |

Table 8: Indicative Azure Cost

* 1. Database Information

<Detailed information on database configuration, server and database names, compatibility, sizing, versions, findings and any DB links or linked servers information>

* 1. Macro Dependencies

<External services, databases, or integrations with other systems per environment>

* 1. Security Considerations

<Secrets Management, Certificates, store local password, Cryptographic Algorithm>

* 1. Resiliency Configuration

Regions / Locations / BCDR :<Primary site, DR site, RPO, RTO, SLA>

* 1. Network Access Requirements

<VCI/SDWAN/Market, latency, bandwidth, protocols, middleware, encryption, load balancing, Iron Cloud>

* 1. Identity Providers

< authentication/authorization for application / database / servers, AAA / SSO / AD /AAD / LDAP / SAML / Oauth / OpenID / OpenID Connect/Other>

* 1. Automation

<Include details on how application and infrastructure are built and deployed including CI/CD configuration or requirements>

* 1. Customer Impact

<Include details on what potential impact migration may have on internal as well as external interfaces (customer), what needs to be taken care to mitigate>

* 1. Operational Concerns

<Include details on current challenges, pain points application team is facing in operations/maintenance like scalability/security risks/performance issues>

* 1. Migration Acceptance Tests

<Yes/No, if it needs to be created and type of tests required>

* 1. Observability

Monitoring <App/Infra/Security and solutions>

Alerts: <metrics and thresholds, notification destination>

Events: <Event types and destination>

1. Supporting Documents

The following table provides a summary of the supporting documents to support the planning and migration phases.

|  |  |
| --- | --- |
| **Artefact** | **Information Location** |
| Application Information Form | <<Link>> |
| Azure Cloud Catalog | <<Link>> |
| Unified Assessment Questionnaire | <<Excel Link>>  <<Azure Cloud Catalog Link>> |
| Additional Azure DevOps Backlog | <<Link>> |
| Network Routing and Firewall Requirements | <<Link>> |
| Other Documents | <<Access Groups (Application and Infra) Excel Link/Appendix>>  <<Network Diagrams>> |

Table 9: Supporting Documentation

1. Current Logical Architecture

The following section provides a view of the logical architecture of the application per environment. Note the migration scope mapped to the architecture components.

* 1. <Environment> Logical Architecture

The following provides the logical architecture view of the < Production, Development, Pre-Production, Testing, Disaster Recovery > environment.

Figure : <Environment> Current Logical View

* 1. < Environment> Logical Architecture

The following provides the logical architecture view of the < Production, Development, Pre-Production, Testing, Disaster Recovery > environment.

Figure : <Environment> Current Logical View

* 1. < Environment> Logical Architecture

The following provides the logical architecture view of the < Production, Development, Pre-Production, Testing, Disaster Recovery > environment.

Figure : <Environment> Current Logical View

1. Application Network Flow

The following section provides the details for the application network flow required by the application per environment.

* 1. <Environment> Application Network Flow

The following diagram provides the application network flow for the < Production, Development, Pre-Production, Testing, Disaster Recovery > environment.

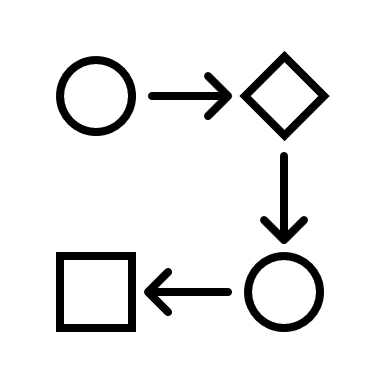


Figure : Current Application Network Flow Diagram

The following table provide the application network flow details.

|  |  |
| --- | --- |
| **Step** | **Details** |
| 1 | Step Detail |
| 2 | Step Detail |
| 3 | Step Detail |
| 4 | Step Detail |
| 5 | Step Detail |
| 6 | Step Detail |
| 7 | Step Detail |
| 8 | Step Detail |
| 9 | Step Detail |
| 10 | Step Detail |
| 11 | Step Detail |

Table 10: Application Network Flow Details

* 1. < Environment> Application Network Flow

The following diagram provides the application network flow for the < Production, Development, Pre-Production, Testing, Disaster Recovery > environment.

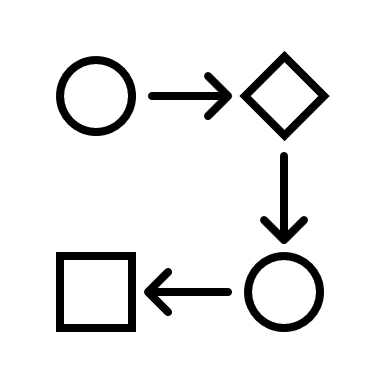


Figure : Current Application Network Flow Diagram

The following table provide the application network flow details.

|  |  |
| --- | --- |
| **Step** | **Details** |
| 1 | Step Detail |
| 2 | Step Detail |
| 3 | Step Detail |
| 4 | Step Detail |
| 5 | Step Detail |
| 6 | Step Detail |
| 7 | Step Detail |
| 8 | Step Detail |
| 9 | Step Detail |
| 10 | Step Detail |
| 11 | Step Detail |

Table 11: Application Network Flow Details

* 1. < Environment> Application Network Flow

The following diagram provides the application network flow for the < Production, Development, Pre-Production, Testing, Disaster Recovery > environment.

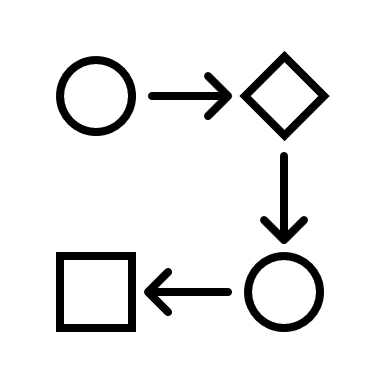


Figure : Current Application Network Flow Diagram

The following table provide the application network flow details.

|  |  |
| --- | --- |
| **Step** | **Details** |
| 1 | Step Detail |
| 2 | Step Detail |
| 3 | Step Detail |
| 4 | Step Detail |
| 5 | Step Detail |
| 6 | Step Detail |
| 7 | Step Detail |
| 8 | Step Detail |
| 9 | Step Detail |
| 10 | Step Detail |
| 11 | Step Detail |

Table 12: Application Network Flow Details

1. Proposed Architecture in Azure

The following section details the proposed architecture per environment of the application when being migrated to azure.

* 1. < Environment> Proposed Architecture

The following diagram represents the proposed architecture to the < Production, Development, Pre-Production, Testing, Disaster Recovery > environment.

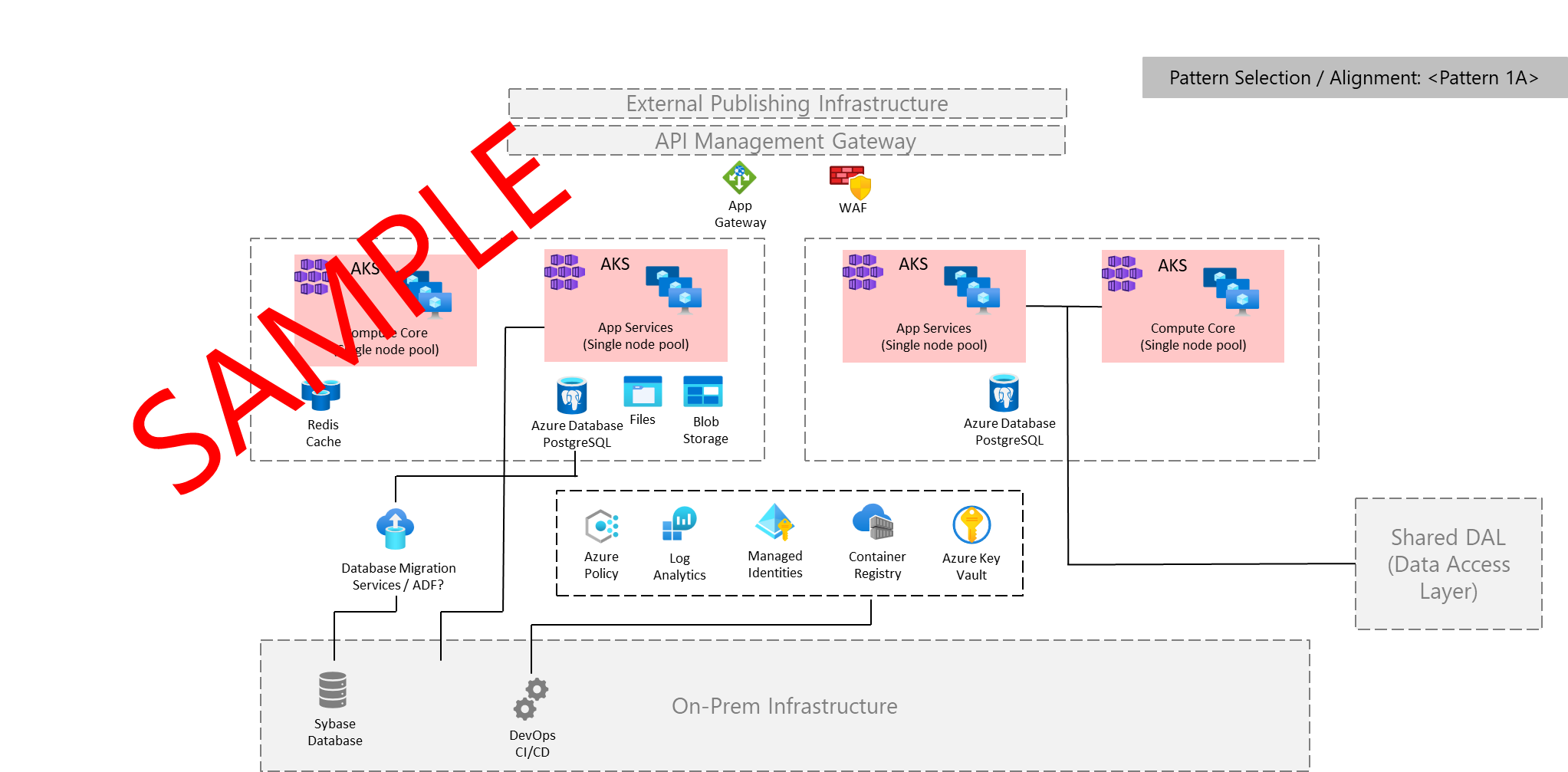


Figure : <Environment> Proposed Architecture Diagram

The following table provide the proposed application architecture details for the < Production, Development, Pre-Production, Testing, Disaster Recovery > environment.

|  |  |
| --- | --- |
| **Component** | **Details** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Table 14: <Environment> Proposed Architecture Details

1. Architecture Heatmap

Architectural heatmap is a high-level ranking of key concerns that are relevant to application migration, ranked across low, medium and high scale. Additional commentary is provided for deeper context on the rank assignment and can be provided per environment if different.

|  |  |  |
| --- | --- | --- |
| **Area** | **Notes** | **Ranking** |
| Overall Complexity | Details… | Med |
| App Remediation | Details… | Low |
| Application Lifecycle | Details… | High |
| Data Services | Details… | None |
| Identity Integration | Details… | Low |
| Networking complexity | Details… | High |
| Scalability | Details… | None |

Table 15: Architecture Heatmap

1. Application Allocation and Scheduling

The application allocation and scheduling cover the final decisions regarding the application to be migrated and the allocation to the schedule and migration factory

|  |  |  |  |
| --- | --- | --- | --- |
| **Move Group:** | **Wave Allocation:** | **Scheduling** | **Migration Factory** |
| **<Move Group and application group for migrating together>** | **<Proposed wave for Migration based on priority>** | **<Proposed month for migration>** | **<Assigned Migration Factory>** |

Table 17: Application Allocation and Scheduling Allocation

The following table provides key notes to support the application allocation and scheduling decisions.

|  |  |
| --- | --- |
| **Area** | **Final Decision** |
| Migration Tooling | Notes |
| Planning Dependencies | Notes |
| Change Freeze Windows | Notes |
| Approvals Cycle / Needed | Notes (Privacy, Cyber Security, Customer Impact) |
| Technology Changes | Notes |
| Application that are providing a business system | Notes |
| Migration Factory | Notes |

Table 18: Application Allocation and Scheduling Decisions

1. Appendix
   1. Additional Backlog Items

List any additional work items that needs to be included to complete the migration

|  |  |
| --- | --- |
| **Area** | **Final Decision** |
| Work Item 1 | Notes |
| Work Item 1 | Notes |
| Work Item 1 | Notes |
| Work Item 1 | Notes |
| Work Item 1 | Notes |
| Work Item 1 | Notes |
| Work Item 1 | Notes |
| Work Item 1 | Notes |
| Work Item 1 | Notes |
| Work Item 1 | Notes |

Table 19: Additional Backlog Items Information

* 1. Application and Infrastructure RBAC Information

The following tables provides the RBAC information for the application and infrastructure it’s hosted on to be migrated when migrating.

* + 1. <Environment> Application and Infrastructure RBAC

| Areas | Role | Access List |
| --- | --- | --- |
| Application | Administrator | AD Group <Name> |
| Application | User | AD Group <Name> |
| Infrastructure | Local Admin | AD Group <Name> / Local Account/Group |
| Infrastructure | Remote Users | AD Group <Name> |
| Database | Admin | AD Group <Name> |
| Database Instance | SQL Admin | AD Group <Name> |

Table 20: Application and Infrastructure RBAC Information

* + 1. <Environment> Application and Infrastructure RBAC

| Areas | Role | Access List |
| --- | --- | --- |
| Application | Administrator | AD Group <Name> |
| Application | User | AD Group <Name> |
| Infrastructure | Local Admin | AD Group <Name> / Local Account/Group |
| Infrastructure | Remote Users | AD Group <Name> |
| Database | Admin | AD Group <Name> |
| Database Instance | SQL Admin | AD Group <Name> |

Table : Application and Infrastructure RBAC Information

* 1. Azure Services RBAC Information

The following tables provides the Azure RBAC information for the Azure services to be configured when migrating.

* + 1. <Environment> Azure Services RBAC

| **Name** | **User ID** | **User Email address** | **Access Type** | **Roles** |
| --- | --- | --- | --- | --- |
|  |  |  | Reader Access | Application / Infra/ Testing |
|  |  |  | Reader Access | Application / Infra/ Testing |
|  |  |  | Reader Access | Application / Infra/ Testing |
|  |  |  | Reader Access | Application / Infra/ Testing |
|  |  |  | Reader Access | Application / Infra/ Testing |
|  |  |  | Reader Access | Application / Infra/ Testing |

Table : Azure Services RBAC Information

* + 1. <Environment> Azure Services RBAC

| **Name** | **User ID** | **User Email address** | **Access Type** | **Roles** |
| --- | --- | --- | --- | --- |
|  |  |  | Reader Access | Application / Infra/ Testing |
|  |  |  | Reader Access | Application / Infra/ Testing |
|  |  |  | Reader Access | Application / Infra/ Testing |
|  |  |  | Reader Access | Application / Infra/ Testing |
|  |  |  | Reader Access | Application / Infra/ Testing |
|  |  |  | Reader Access | Application / Infra/ Testing |

Table : Azure Services RBAC Information

* 1. Azure Tagging

The following tables provides the Azure tagging information to be used when applying the Azure Tags on the relevant areas.

* + 1. <Environment> Azure Tagging

| **Tag Name** | **Type** | **Description** | **Value** |
| --- | --- | --- | --- |
| <tag-name> | Free text (3-15 char) | Cost allocation and reporting. | <value> |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table : Azure Tagging Information

* 1. Source Migration Delivery Information

The following tables provides the source migration delivery information to support the migration per environment.

* + 1. <Environment> Source Delivery Information

| **Requirements** | **Comments** |
| --- | --- |
| Source Server Details |  |
| IP Adress Requirements | <1 x IP Addresses for Application Tier, 2 x IP Addresses for Database Tier> |
| Source Application authentication specification |  |
| Source Server Backup Specification |  |
| Source Application API Gateway |  |
| Source Application HA Requirements |  |
| Source Application DR Strategy |  |
| Source Application SLA |  |
| Source Application License Details |  |
| Source Application Binaries |  |
| Source Application Installation steps |  |
| Source Server Job Details |  |
| Others (Hardcoded values, others) |  |
| DNS Records - private & public (Type, Source, Target) |  |

Table : <Environment> Source Delivery Information

* + 1. <Environment> Source Delivery Information

| **Requirements** | **Comments** |
| --- | --- |
| Source Server Details |  |
| IP Adress Requirements | <1 x IP Addresses for Application Tier, 2 x IP Addresses for Database Tier> |
| Source Application authentication specification |  |
| Source Server Backup Specification |  |
| Source Application API Gateway |  |
| Source Application HA Requirements |  |
| Source Application DR Strategy |  |
| Source Application SLA |  |
| Source Application License Details |  |
| Source Application Binaries |  |
| Source Application Installation steps |  |
| Source Server Job Details |  |
| Others (Hardcoded values, others) |  |
| DNS Records - private & public (Type, Source, Target) |  |

Table : <Environment> Source Delivery Information

* 1. Target Migration Delivery Information

The following tables provides the target migration delivery information to support the migration per environment.

* + 1. <Environment> Target Delivery Information

| **Requirements** | **Comments** |
| --- | --- |
| Azure Back up Specifications |  |
| DB Backup specifications in Azure |  |
| Monitoring Specifications |  |
| Key Vault Specifications |  |
| Update Management Solution |  |

Table : <Environment> Target Delivery Information

* + 1. <Environment> Target Delivery Information

|  |  |
| --- | --- |
| **Requirements** | **Comments** |
| Azure Back up Specifications |  |
| DB Backup specifications in Azure |  |
| Monitoring Specifications |  |
| Key Vault Specifications |  |
| Update Management Solution |  |

Table : <Environment> Target Delivery Information