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| --- | --- | --- |
| **Pre-Migration Azure Cloud Assessment Report**  **Application: PMPA** | **Revision:** | 0.2 |
| **Author:** | HCL America Inc. |
| **Effective Date:** | July 10, 2020 |
| **Page:** | 1 of 7 |
| **Assessment Period** | **July 2020** | |

# Application Introduction

PMPA is a SNI developed application using Marklogic, Java and Angular technologies and used in EUC, USA regions by Marketing and Sales teams. The application provides post market product performance information in the form of structured and unstructured data including advance search and full-text search for all products.

# Migration Strategy

Applications

PMPA

**Target Platform**

**SNI dev'ed**

Rehost AS IS with Azure Extended Security Updates

**OS**: AS IS for Apps

**DB**: MarkLogic Server 9.0 with VHF

**Dev Tech**: Java, Angular

**Web Server**: NA

**Final**

Azure Cloud

**OS:**

Red hat Enterprise Linux OS 7.4

**DB**: MarkLogic Server 9 with VHF

**Dev Tech:** Java, Angular

**Web Server:** NA

**Current Platform**

**Treatment**

Treatment

**Final**

**REHOST**

On-Premise

# Application Assessment Final Ratings

PMPA application is classified as ‘**Medium** on the below highlighted complexity parameters, and also Based on the [SDM responses](#_Appendix:_Questionnaires_Responses), [Cloudscape data input](#_Appendix:_CloudScape_Data) and Risk factors.



# Application Current & Target Landscape

|  |  |
| --- | --- |
| Current Technology Landscape **OS**: Red hat Enterprise Linux OS 7.4  **DB**: MarkLogic Server 9 with VHF  **Dev Tech**: Java, Angular  **Web Server**: NA | Target Technology Landscape **OS**: Red hat enterprise Linux OS 7.4  **DB**: MarkLogic Server 9 with VHF  **Dev Tech**: Java, Angular  **Web Server**: NA |

# Application Characteristics

1. This is a vendor developed application
2. Low Impact on application outage
3. Business criticality is medium
4. More transactions expected to increase in the future
5. Use chrome browser to access application
6. Has 5 Environments, Dev, Test, QA, Trg, Prod
7. Has 2 Dev, 8 QA, 7 Prod Servers Environments
8. No DR solution enabled
9. Connectivity with Power BI, Data hub, DocuSign
10. Monitoring with Oracle OEM and MarkLogic
11. Uses in USA, EU and APAC
12. Use SecureAuth for user authentication
13. Known issue - Hardware failure once
14. Development Stack – Java 8, Angular 1.0, Bit bucket, SonarQube
15. DevOps – CI/CD enabled with Jenkins
16. Cloud ready license with Fonto and DocuSign
17. HIPAA and GxP compliance

# Application Challenges/Risk

|  |  |
| --- | --- |
| Risk / Challenges | Mitigation |
| Upgrading to ReactJS | Need confirmation on release date |
| Vendor Support | Change over plan |
| Known issue – Hardware Failure |  |
| Follow Up gathering |  |
| IP Change Dependency |  |

# Critical Factors Considered

|  |  |
| --- | --- |
| Application Name | PMPA |
| Application Type | Custom -externally devd |
| Critically | Medium |
| SDM Opinion | Low to Medium |
| Authentication | Secure Auth moving MS MFA |
| Authorization | User-Based |
| OS | Red hat Enterprise Linux OS 7.4 |
| DB | MarkLogic Server 9 with VHF, Database Cluster for 3DBs |
| Servers | 19 servers, 5 Landscapes |
| DR | Not applicable |
| DR Details | DR Capability: No DR Last date: DR RPO: <= 5 Business Days DR RTO: 3: Medium <5 days |
| Dependency | DNS entries, URLs and GBIP datahub connection |
| SLA | % Availability > 97.5 % - Business Hrs |
| User Access Method | Browser |
| Vendor | Custom built by Sopra Steria , MarkLogic , Fonto |
| Customization | High/Custom Built ( > 50%) |
| Architecture | Client Server Based N Tier and Web Based client |
| License Model | Linces with Fonto and DocuSign |
| Batch | MarkLogic background jobs |
| SOX+GxP | No+Yes |
| Multi  Lingual | No |
| Certificates | Yes |
| Technology | Internet Browser Based-UI is accessed through an Internet browser |
| Region | USA, EU, APAC |

# High Level Treatment

| # | Treatment Steps |
| --- | --- |
| **Pre-Migration** | |
| a | Infra related requirement gathering from App teams |
| b | Target Platform Readiness validation |
| c | Mitigation on any shortfall in readiness |
| d | Pre-Migration Evidence Collection (VM) |
| e | Pre-Migration Meta data Collection (VM) |
| f | Setup Initial VM replication to Azure using Azure Migrate (Data Replication) |
| g | Final data / OS backup |
| **Migration** | |
| a | Final Replication and Cutover |
| b | Uninstall Tools which are not required |
| c | Security Readiness/ Security Compliant |
| d | Compare VM with old meta-data |
| e | Onboard and Reconfigure Servers for Monitor and backup in cloud |
| f | Confirm Monitoring and backup |
| g | Handover Server for application validation |
| h | Sign Off Apps team |
| **Post Migration** | |
| a | Post Migration Evidence Collection (VM) |
| b | Post Migration Meta data Collection (VM) |
| c | Asset Re-registration in CMDB |
| d | Application configuration and standardization |
| e | Smoke testing, performance testing and bug fixes |
| f | User acceptance testing support |
| g | Flag Old Server for Decommission |
| h | Sign-Off |
| i | Hypercare |

# Appendix: CloudScape Data Inputs

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[Cloud Scape Final Reports](https://smithandnephew.sharepoint.com/:f:/r/sites/HostingMigrationSharedDocuments/Shared%20Documents/04.%20Questionnaires/pre%20migration%20question%20forms/Sathiamurthy%20Samidurai/PMPA_Assessment/Supporting_Documents?csf=1&web=1&e=BYbTxD)

# Appendix: Questionnaires Responses



# Appendix: Action items

