

Maximo to MAS Upgrade

– Key Roles and Responsibilities

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Saurabh Gupta

Sustainability Senior Solution Architect

saurabh.gupta@ibm.com

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Agenda

- ✓ Maximo Application Suite Introduction – Why Modernize?
- ✓ Path and benefits to application Modernization
- ✓ Key skills, roles and activities for MAS modernization
- ✓ MAS Modernization – DOI Bureaus
- ✓ IBM Expert Labs ecosystem and offerings for MAS modernization

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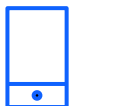


What level of experience and skills do you have with running Red Hat OpenShift

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Maximo Application Suite

Best-of-class capabilities to provide complete view of your assets addressing the needs of key personas in your organization.

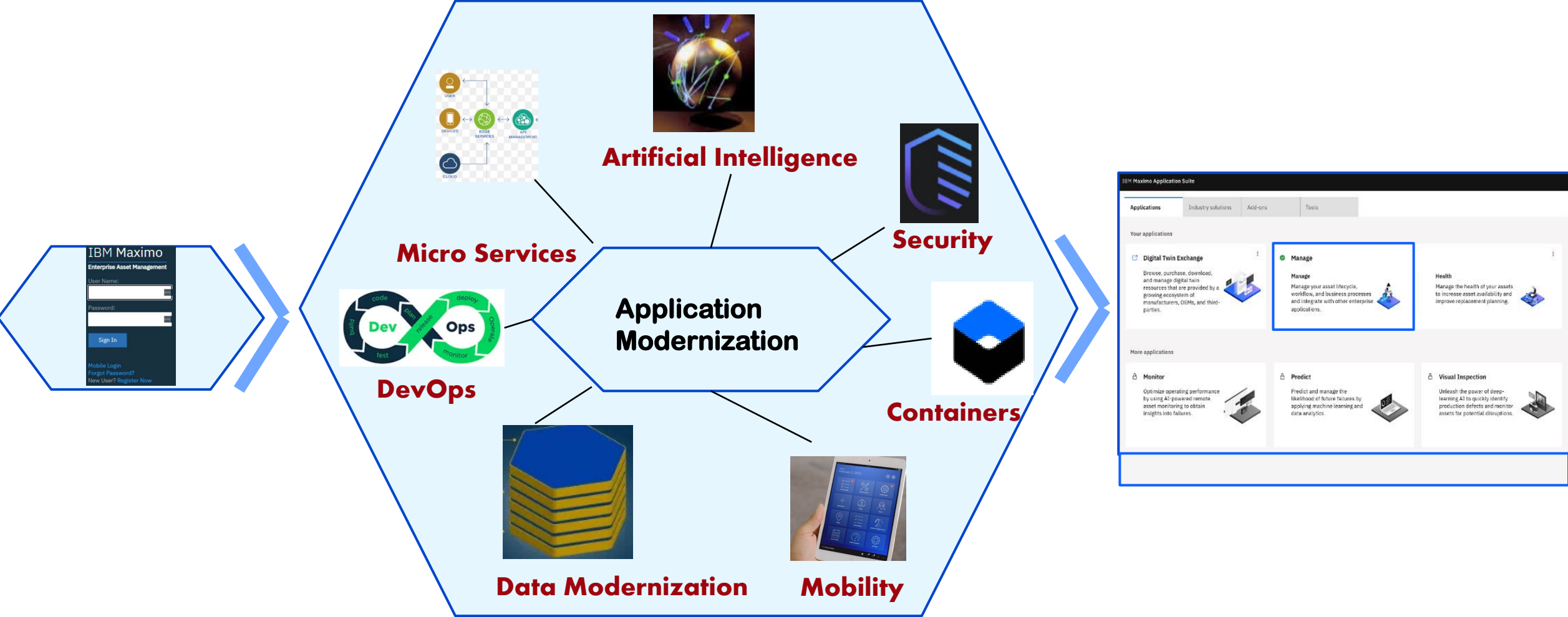
- Technicians
- Technician Supervisor
- Asset Maintenance Manager
- Plant Manager
- Fleet Manager
- Operations Manager
- Reliability Engineer
- Quality Manager
- Planners / Schedulers
- Dispatchers
- Purchasing Managers

 <p>Manage Intelligent Asset Management</p>	 <p>Monitor Monitor and Detect Anomalies</p>	 <p>Health 360 View of Assets</p>
 <p>Predict Predictive Failures</p>	 <p>Visual Inspection AI-Powered Insights</p>	 <p>IT ITSM and ITAM combined</p>
 <p>Mobile Technician Work Execution</p>	 <p>Assist Prescriptive Assistance</p>	 <p>Reliability Strategies Dedicated Reliability Centered Maintenance</p>
<p>Industry Solutions Accelerate time to value</p>		
<p>Maximo Accelerators Catalog Complement, extend or enhance MAS</p>		
<p>IBM Cloud Pak for Data Watson Studio Watson ML Watson Discovery Watson Assistant App Connect Cognos Analytics</p>		



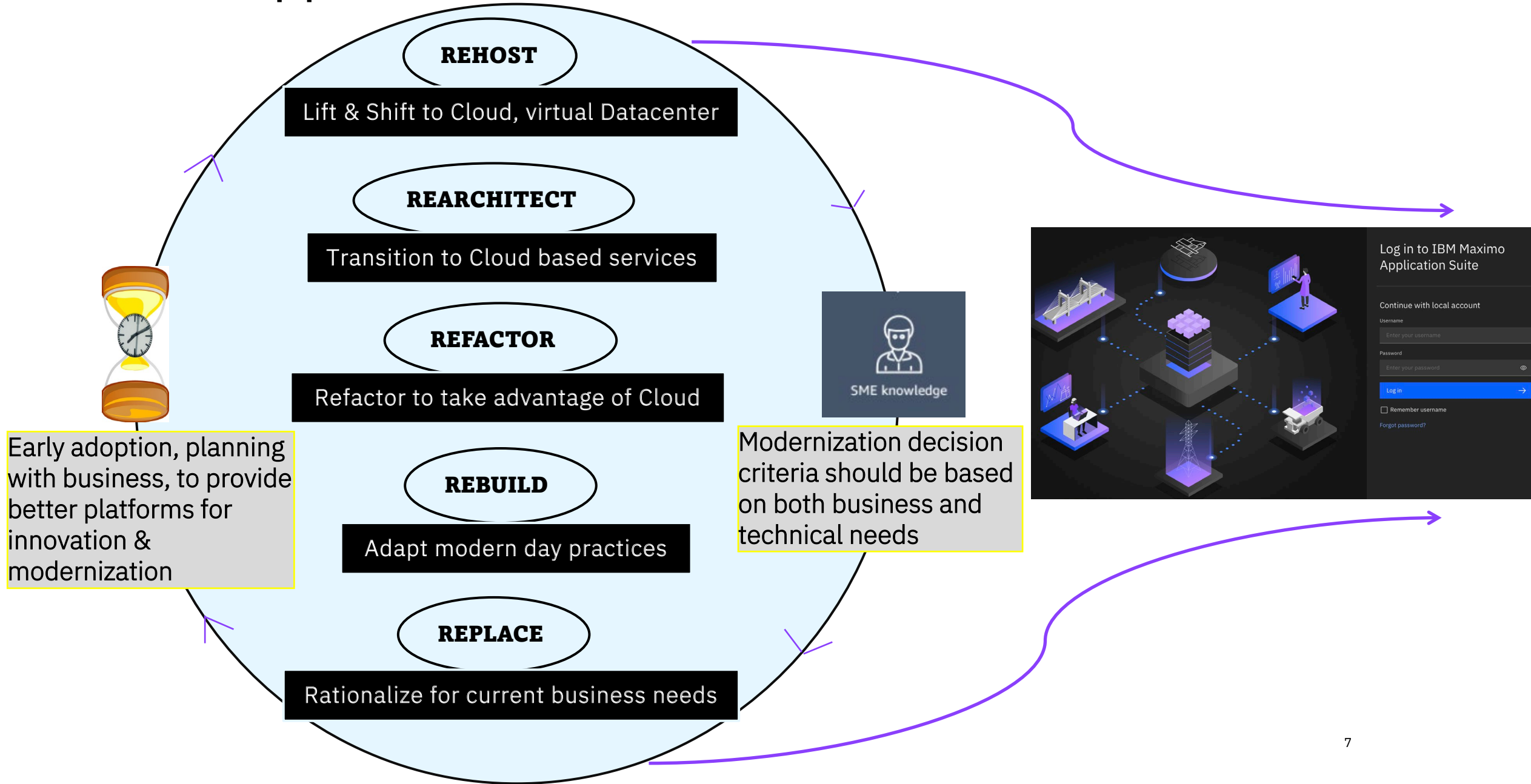
Benefits of application Modernization

Modernizing applications offers several significant benefits, especially in today's rapidly evolving technological landscape



In summary, application modernization can bring numerous benefits across performance, security, cost efficiency, user experience, and overall business agility, making it a strategic investment for many organizations.

5-R's of Application Modernization



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Have you considered SaaS hosting option?

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MAS Deployment Options


Deployment	Availability	Procure	Provision & Operate	Client Benefits
On Premise Customer Managed	Now	Client purchases MAS from IBM Client provides infrastructure	Client provisions, manages, and operates full stack	<ul style="list-style-type: none"> Maximum operational flexibility
Hyperscalers Customer Managed	Now AWS Azure	BYOL Client purchases software from IBM and infrastructure from Hyperscalers	Client runs IBM-provided automation scripts to deploy MAS on Hyperscalers' cloud Client manages and operates both software and infrastructure	<ul style="list-style-type: none"> Simplifies procurement and deployment Allows client to select their Hyperscalers Flexibility for clients to manage and operate their environment
	Now AWS Azure	Paid (Marketplace listing) Client purchases software and infrastructure from Hyperscalers		
SaaS Editions IBM Managed	Now AWS	Client purchase single part (includes software, infrastructure, and operations) from <u>either</u> std IBM sales/channels or AWS Marketplace Essentials Standard Premium	IBM provisions, manages, and operates Client's MAS environment on AWS Cloud using IBM's AWS cloud account Provides a base implementation of Manage or MVI. Limited configuration. Provides full MAS Capability, with limited options and operational options Full MAS with more flexibility.	Reduced time-to-value Reduced operational costs Allows clients to focus on business priorities Entry Level for small implementations. Targeted at most clients requiring MAS and wanting to focus on standard capabilities. For clients wanting more operational features and flexibility.

Key Roles / Skills for MAS Modernization


 Corporate Leadership


Executive Sponsor, as well as other leaders such as CIO

 Product Owner


 Project Manager


Project Success leader, goal setter, tracks budget and timelines


 Modernization Architect

 Maximo App Expert

Functional (asset & process), Technical, Integration, Cloud Architects

 Application Developers

 Application Administrators

 QA Engineer

Cloud Full stack developers, Database SMEs, DevOps Engineers, functional & technical Testers

Q: How do you find the talent you need???

A: Access the skillset available in-house, upskill through training, hire consultants

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Have you indentified resources (financial, technical, human) required for successful application modernization?

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MAS Modernization - IBM and DOI



- DOI is a long time Maximo customer. 6 Bureaus and hundreds of users leverage Maximo today
- DOI upgraded their Active Maximo tokens to MAS App Points in 2022
- DOI is “Dual Entitled” to use MAS 8 and Max 7.6.1.x.
- DOI also secured IBM Expert Labs to assist them with the upgrade from 761X to MAS
- The IBM Maximo sales team and various Bureaus at DOI meet weekly to
 - Help plan and support MAS pilot activities
 - Answer Maximo/MAS questions
 - Resolve issues and escalate cases
 - Demo new MAS capabilities

Bureau
Bureau of Land Management (BLM)
Bureau of Reclamation (BoR)
Bureau of Indian Affairs (BIA)
U.S. Fish and Wildlife Service (FWS)
National Park Service (NPS)
U.S. Geological Survey (USGS)

IBM Expert Labs is supporting an initial pilot around the MAS 8/9 install and upgrade process.

- Develop a ‘runbook’ that creates a streamlined path for success based on individual Bureau needs, architecture and lessons learned from the pilot
- Different Maximo user groups across DOI Bureaus are shadowing to learn and gain experience with MAS
- The focus is on the upgrade to MAS Manage, also help Bureaus across DOI to evaluate Maximo Mobile, MAS Monitor and Health during their initial testing

Expert Labs ecosystem / customers for MAS modernization

MAS transforming industries
Automotive – Maximo Visual Inspection, Manage
Energy & Utilities – Manage with Industry Solutions, Monitor , Health and Predict.
Government – Manage with Mobility solution
Life Sciences – Manage with Industry Solution and Mobility Solution, Maximo Visual Inspection
Travel and Transportation – Manage with Industry Solutions, Maximo Visual Inspection
Oil and Gas – Maximo Visual Inspection, Manage with Industry Solution and Mobility Solution
Aviation – Monitor, Predict, Manage & Health



EAM Technical Assessment: Overview

IBM Expert Labs

Technical Assessment for MAXIMO /SaaS Flex upgrade and migration to MAS Managed Services

Key Activities:

- Focus on application layout and technical configurations using the IBM Maximo Sizing questionnaire as a starting point
- Identify areas of impact for upgrade and migration to MAS Managed Services
- Assess data structure
- Identify customizations and assess the gap from leveraging the out of the box adapters

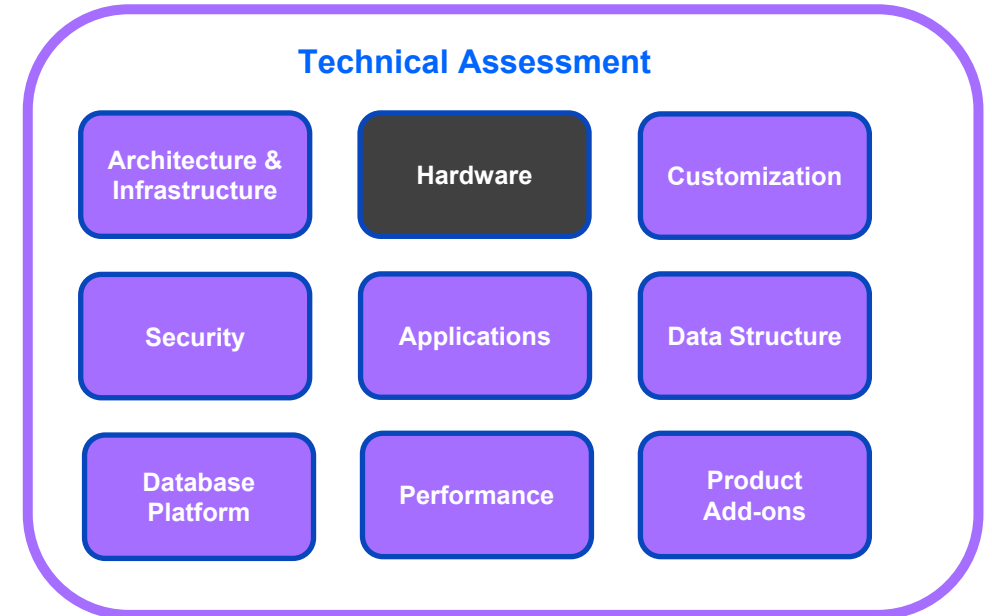
Expected Outcome:

- Maximo Technical Upgrade Assessment document containing tailored recommendations and a journey map for the upgrade

Duration:

- 5-7 weeks

Maximo Assessment Components



Assessment & Planning results

Assessment results are shared with the customer as a journey map to prepare them for their migration. Key elements of the assessment result report are:

- Area of Maximo functions that classified as **major, minor or no changes** required for migration and complexity is assessed based on used techniques ,large workloads and number of users.
 - Application-level changes -: Java classes and UI changes for Custom and Cloned application. Any new java classes extensions and UI changes in OOB applications.
 - Integrations – It includes End points , Exit classes , data manipulation techniques and methods used while integrate with External applications like XSL mapping , batch scripts, style sheet , data control and schedule tasks etc.
 - Message bus system and Doclinks – In MAS JMS and Kafka are available to leverage. Doclinks migration strategy depends on existing implementation.



Assessment & Planning results...contd.

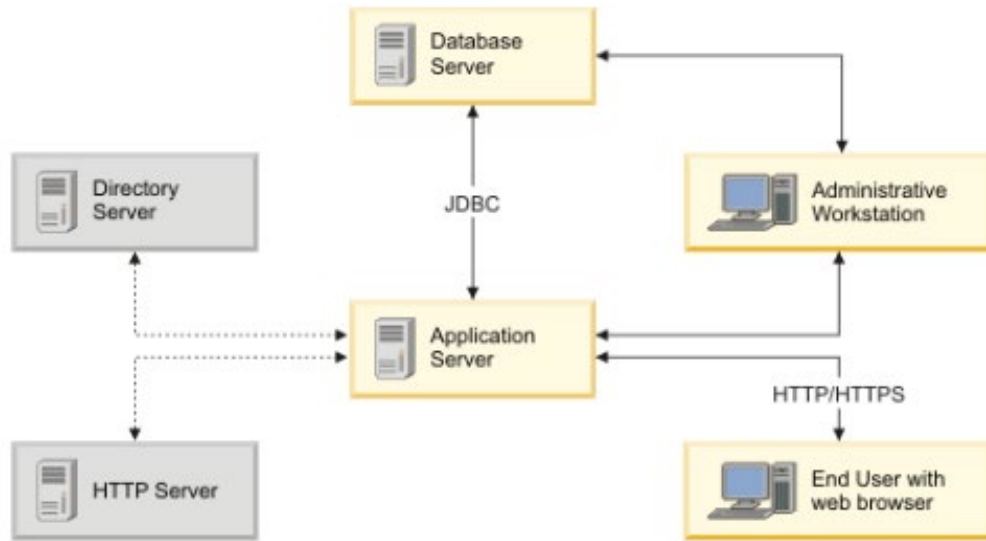
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 - System Arch , Security, Users – Number of VMs and JVM heap size to size the DEV,TEST,PROD MAS env. Number of users and how they are authenticated and authorized/
- Area of Maximo functions that require post migration enhancement.
 - Call out the functions that would and won't be migrated even after the post migration exercise
 - Recommendation , alternatives for functions that are too complex or not possible to migrate
- Guidelines and product documentation links to refer during migration for awareness and future troubleshooting



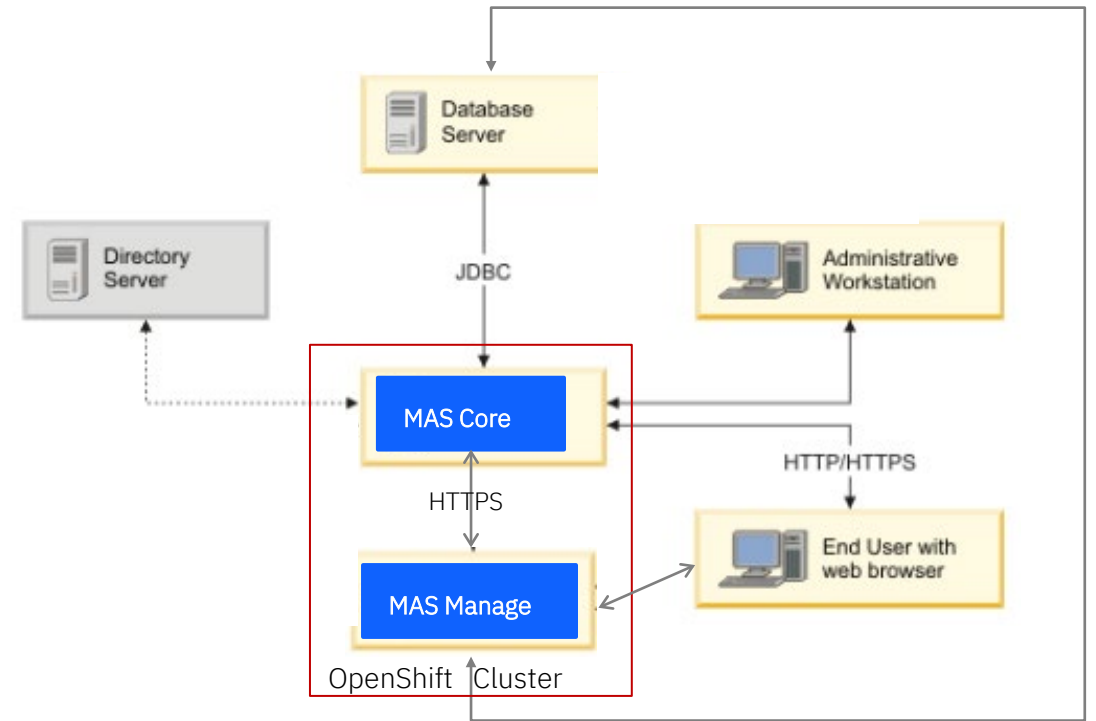
System architecture and components – Maximo and MAS Manage

Maximo Asset Management



Post Migration
➔

Maximo Application Suite - Manage



- Administration Workstation – Installs OpenShift Cluster , MAS using ansible scripts
- MAS Core has pods that connects to Directory Server and Database Server. MAS core has configurations to store the user and database info
- MAS Manage has pods that connects to Database Server for migration and data access
- End User connects via OpenShift load balancer to MAS Core and MAS Manage

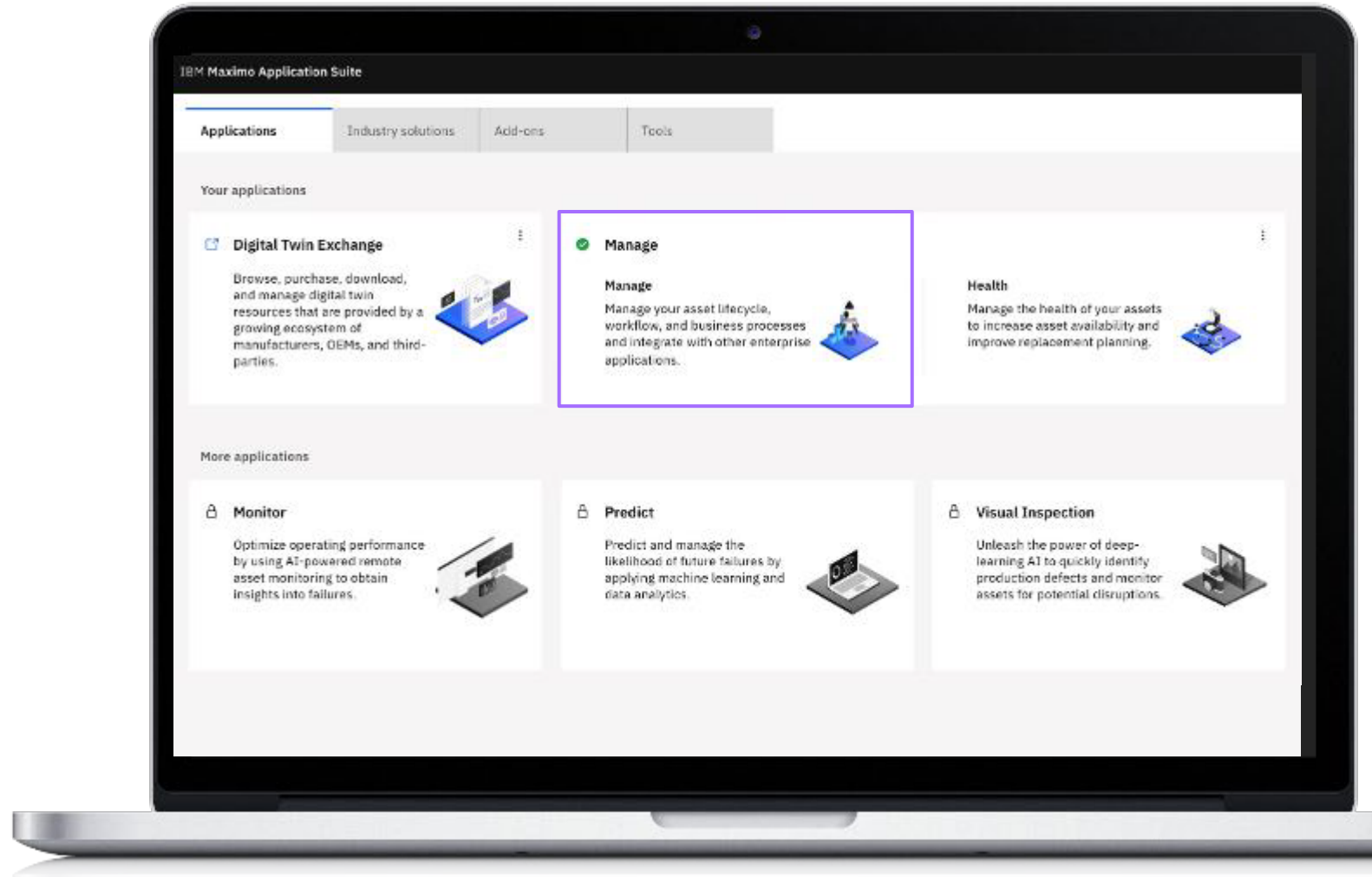
Questions?

TBIM

Upgrade to Manage in the Suite

Manage in the Suite

- New installation process at the MAS level
- Deployed on Red Hat OpenShift Container Platform (OCP)
- Authentication and User Management moved to the MAS level
- Modernized user experience to align with rest of the Suite
- Improved serviceability for monitor and logging options



Documentation for Maximo EAM Upgrade to Maximo Application Suite:

<https://www.ibm.com/docs/en/maximo-manage/continuous-delivery?topic=upgrading-from-maximo-enterprise-asset-management-maximo-manage>