Implementing MAS 8

A Panel Discussion

What have we learned so far?





Panelists

- Bob Fyke
- Rachita Bhatia
- Bennet Tan
- Terry Saunders
- You The Audience





Agenda: Moving to MAS 8

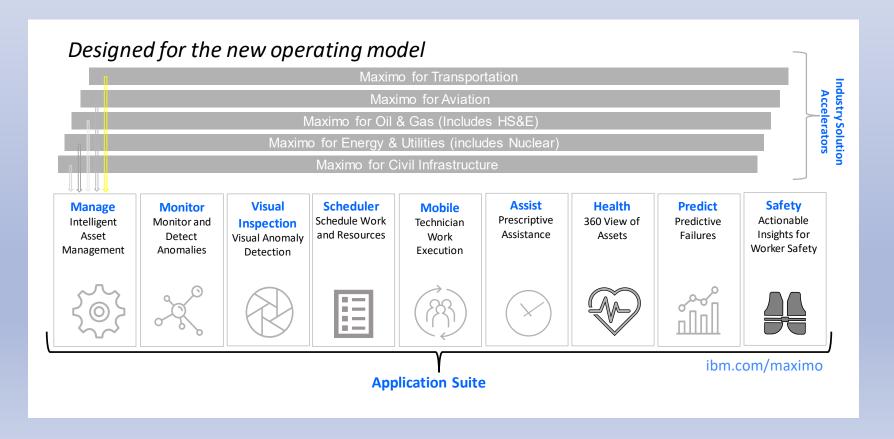
- What's New?
 - Suite/Manage vs. Traditional Maximo
 - Versatile "Toolbox"
 - Opportunities
- Why Move?
- Infrastructure
 - Hardware & Software
 - Administration/IT Support Skills
- Look & Feel
- When?
- MAS Licensing Model
- What's the Impact?
- Questions / Discussion





What's New?

- Suite vs. Maximo
- Maximo is "Manage"
- What's in the toolbox?





Why Move?



- Single point of access to the entire suite of applications
- Major improvements will only occur in MAS 8 moving forward
- Leverage concurrent App Points for same user logged into multiple environments
- Take advantage of containerization technology for easy scalability



Deployment

Where can Maximo Application Suite / Manage be deployed:

- On-premise (or private cloud) data centers:
 - Bare-metal, vSphere





- **Public cloud Providers**
 - Azure, AWS, IBM Cloud, GCP
- Maximo SaaS providers





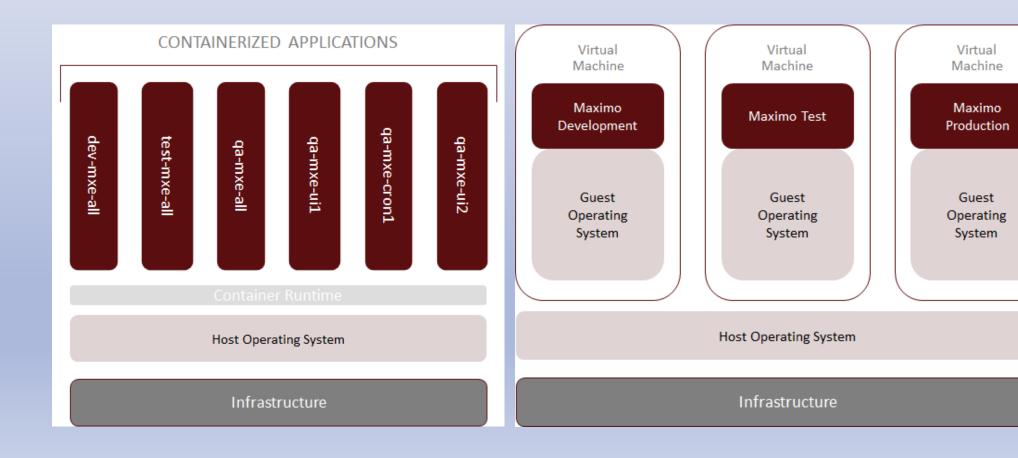






Infrastructure

Containerization vs. Virtualization





Infrastructure

Master Nodes:

- ■3 node minimum
- Runs core components required for OCP and Kubernetes

Worker Nodes:

- several OCP components (ex. Ingress)

Master 1 api etcd

Master 2 api etcd

Master 3 api etcd

- ■3 node minimum
- Run applications (Maximo JVM) and

Worker 2 MX-DEV1-UI MX-DEV1-CR

Worker 3 MX-DEV2-UI MX-DEV2-CR

Worker 4 MX-TST-UI-1 MX-TST-UI-2

Worker N MX-TST-UI-3 MX-TST-UI-4

Each Node is a server.

For example: AWS t3a.xlarge instance: 4 CPU + 16 GB Ram



Openshift Container Platform

Red Hat OpenShift

hybrid cloud open-source Kubernetes container platform. Distributed enterprise solution for running and managing applications

- Developed by Red Hat RHEL CoreOS
- Built on Enterprise-grade Kubernetes with additional features
 - Client tools and API, Build tools, Image Registry, Networking, Monitoring, Logging,
 Storage, User/group Management





Kubernetes

open-source container orchestration system used for software deployment, scaling and management

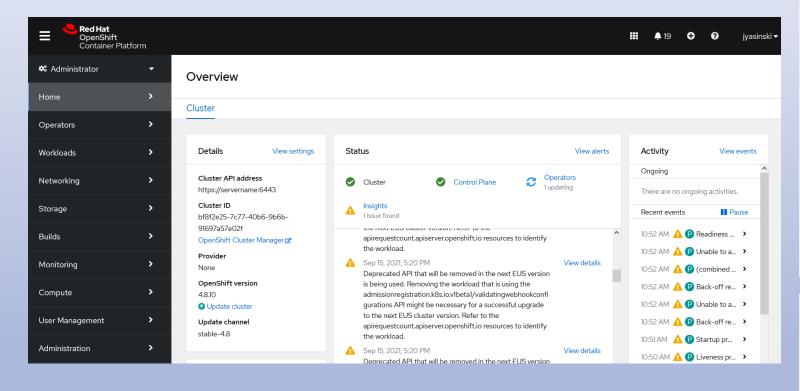
- Core component of OpenShift
- Open-source project started by Google in 2014
- IBM, Red Hat, CoreOS joined Kubernetes community in 2014
- Initial version: Kubernetes v1.0 and OpenShift 3.0 released in 2015
- Now: Maintained by Cloud Native Computing Foundation Over 450 members

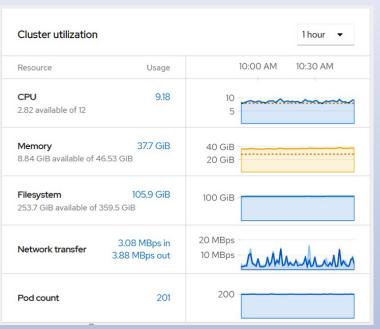


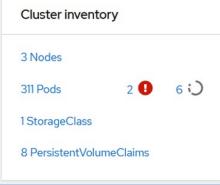


Openshift Container Platform

Redhat OpenShift Web Console





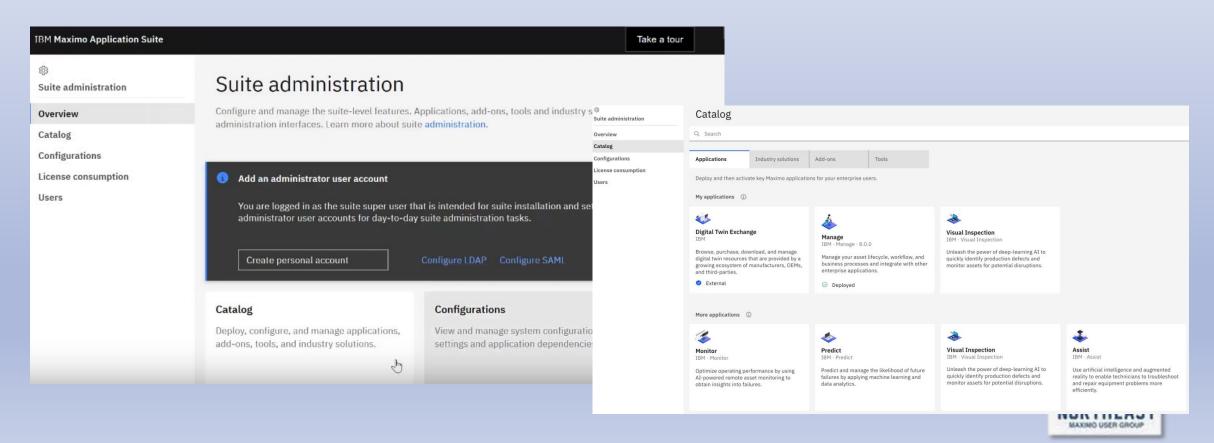




Administration

Maximo Application Suite administrative dashboard

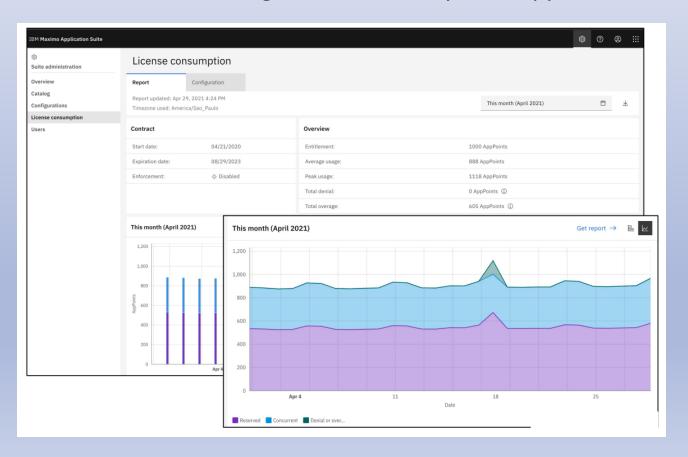
- Each Maximo instance contains an administrative dashboard
- User management, catalog, configuration, deployment, License consumption / analysis

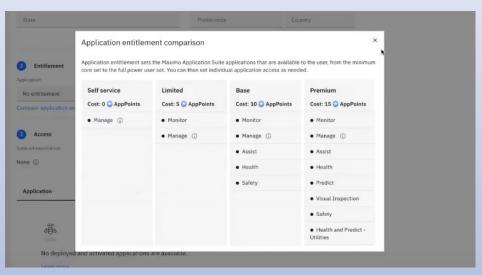


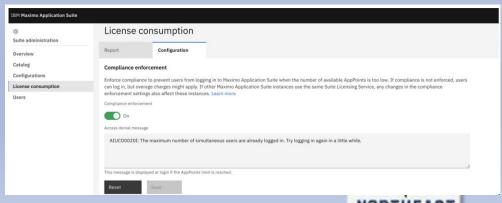
Administration

Security & User Management

- Authentication and user management
- User creation, assignment and analysis of App Points







MAS License Model

- Licensed using App Points which are allocated to users based on their access to the MAS modules that they use
- Concurrent users, share AppPoints
- Authorized users, reserves AppPoints for the user

Self Service User

Free **O AppPoints**

Self Service Applications

- Service Requests
- **Desktop Requisitions**
- Requests (Oil & Gas)
- Create/Review Incidents (HSE)
- Vehicle Requests (Transportation)
- Graphical Appt Book (Scheduler)
- Bill review (Service Provider)
- Data Transfer via devices and sensors (Safety)

Limited User

Concurrent Authorized

AppPoints AppPoints

3 Modules:

- Manage
- Manage Industry Solutions
- Manage Add-ons

Mobile

- Maximo Mobile
- Assist
- Anywhere
- 3rd Party

Monitor

Base User

Concurrent Authorized

10

AppPoints AppPoints

Manage

Includes:

- Linear
- Calibration
- Spatial (requires install)

Scheduler

Health

Safety

Premium User

Concurrent Authorized

15

AppPoints AppPoints

Manage

Industry Solutions

• O&G, Aviation, Transportation, Utilities, Nuclear, Civil Infrastructure

Add-ons

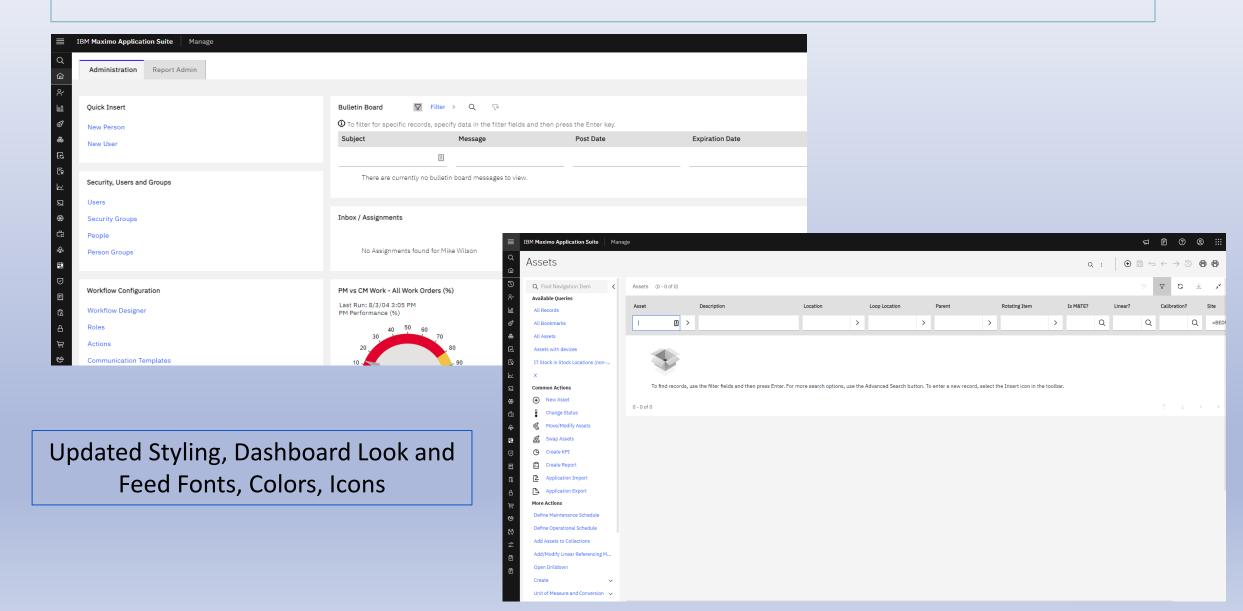
ACM, SP, HSE

Predict

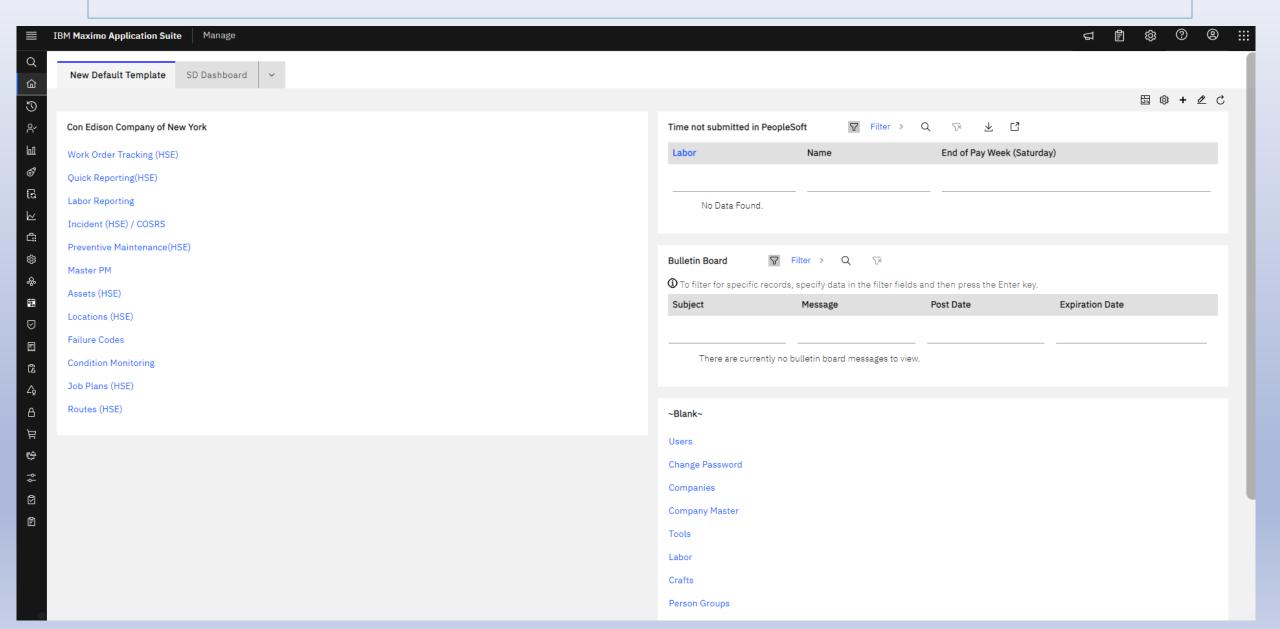
Health and Predict - Utilities **Visual Inspection**



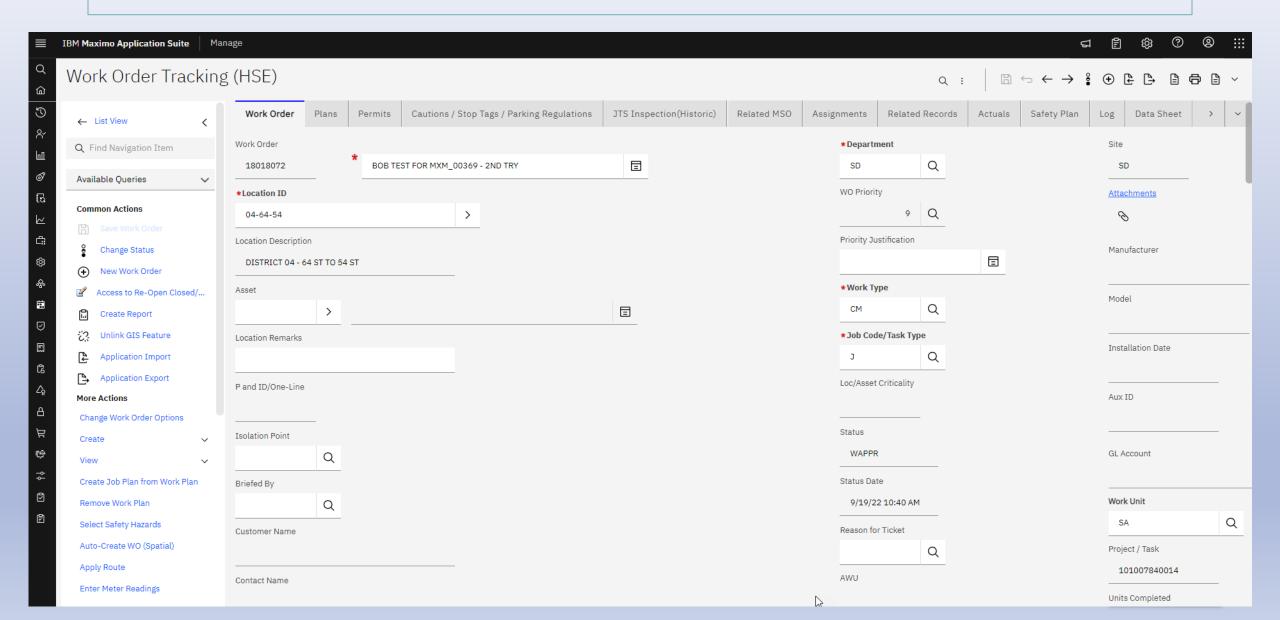
Look and Feel



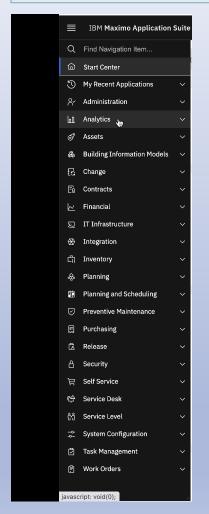
Look and Feel – Star Center

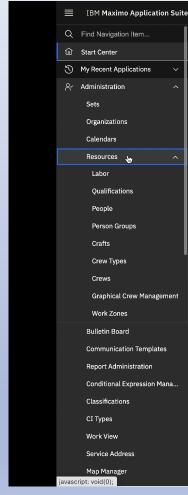


Look and Feel – Work Order

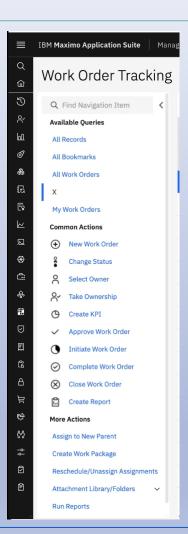


Look and Feel - Navigation





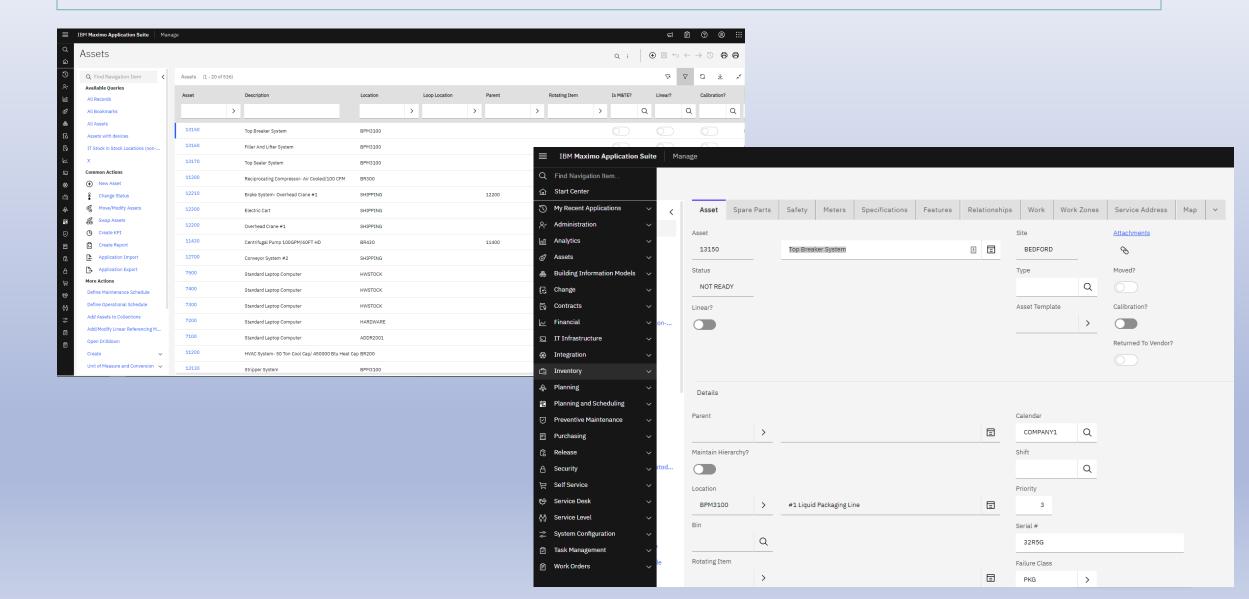
Expand and collapse Module Navigation Click to drill into sub-applications



Module Navigation collapses as soon as you hover off of it



Look and Feel - Assets



When?



Maximo 7.6.0.x

End of Support: September 30 / 2021

Maximo 7.6.1.x

End of Service: September 30 / 2025 Announced April / 2022

What does all this mean?

- 7.6.0.x No more IBM development.
- 7.6.1.x Development moving forward will be limited to fixes and prerequisite updates (eg., db2, Windows Server)
- Expect new features / functionality will be rolled into

Maximo Application Suite 8.x.y

IBM Maximo Application Suite
8.7.2 provided by IBM

9 A IBN 8.3

<u>IBM Maximo Manage</u>

8.3.1 provided by IBM

Maximo Application Suite 8.6

Manage 8.2

Maximo Application Suite 8.7

Manage 8.3

Maximo Application Suite 8.8

Manage 8.4

Maximo Application Suite 8.9 Manage 8.5

July 25th / 2022

Feb 22 / 2022

October 26 / 2021

Dec 1st / 2022



What's the Impact?

Making the Decision



Emphasis - solution architecture upfront

- Planning for the Upgrade
 - What does this look like?
 - Project Plan
 - Technical architectural design
 - Integrations
 - Customizations
- Architecture Networking, Database, Storage,
 Security

Requirements

- IBM requirements spreadsheet
 - Ability to scale that back as part of architectural design

Licensing – "who is working today"

- App Point Calculations must account for MAS Administrator. 15 Points are reserved immediately
- Non-production environments require app points (users in multiple MAS instances are not double charged)
- Ability to add on industry solutions
 - (e.g., scheduler / mobility in limited / base)

IBM partnership

- Engaged with product managers and development
- Working with IBM on few install issues
- Working with IBM on several design changes



Questions/Discussion



- "Disconnected" install options?
- Impact on Websphere? Moving away?
- Server patching Cloud vs. On-Prem
- Disaster Recovery strategies?
- Are there changes for developers to know, e.g. Automation Scripts
- Best Programming Language? Ones to Avoid?

