

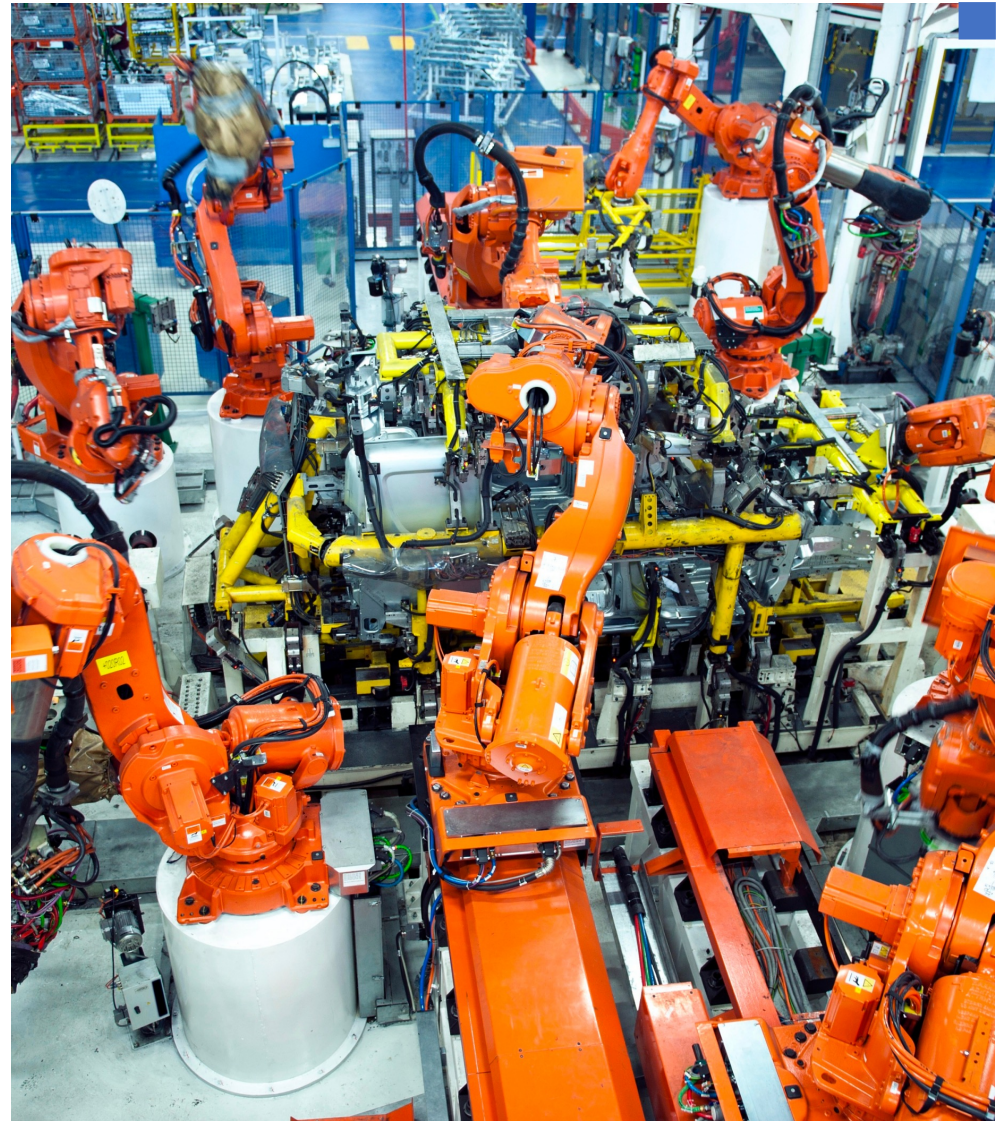
# Upgrade Maximo EAM zu MAS

Maximo Anwenderkonferenz, 3. Mai 2023

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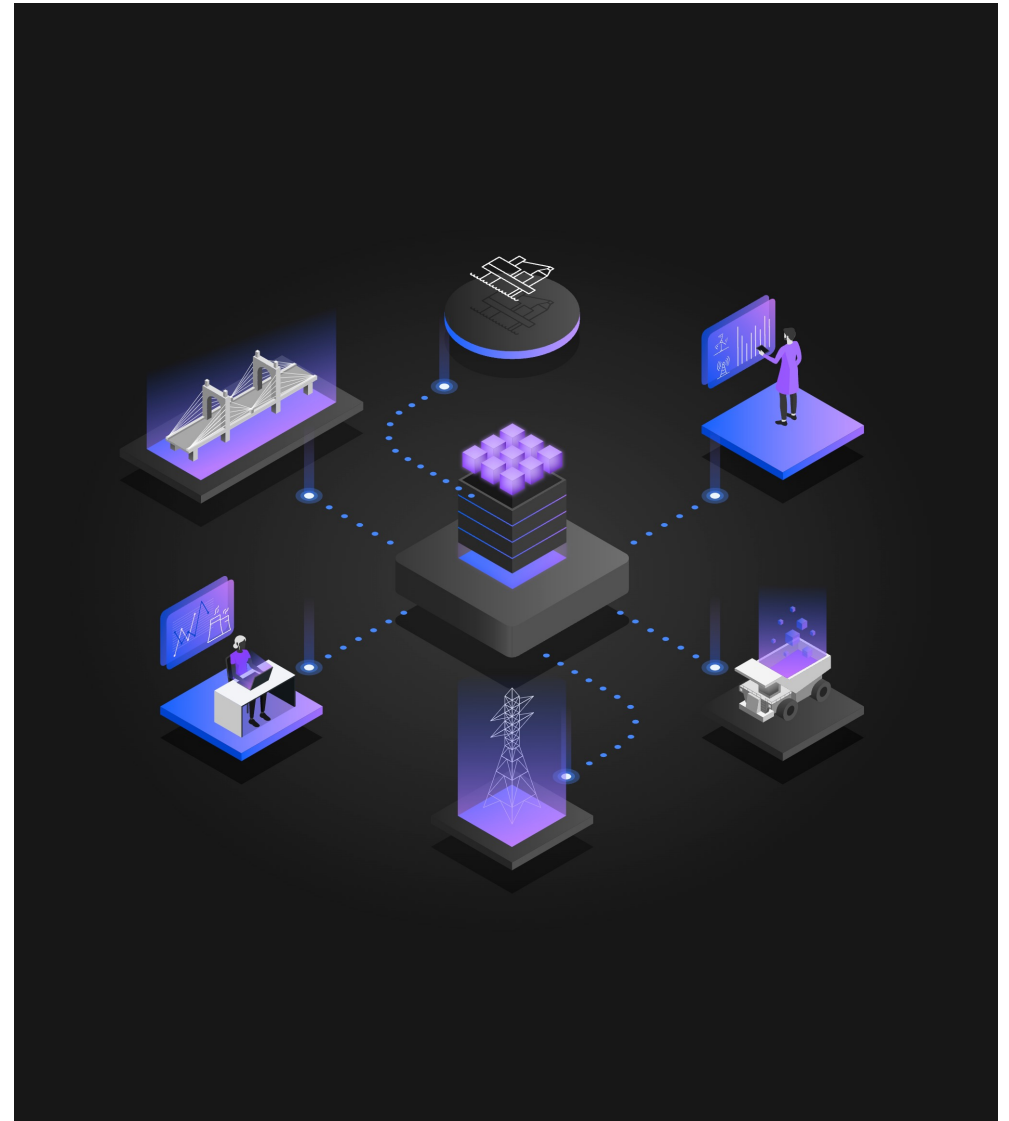


**IBM** Technology Expert Labs



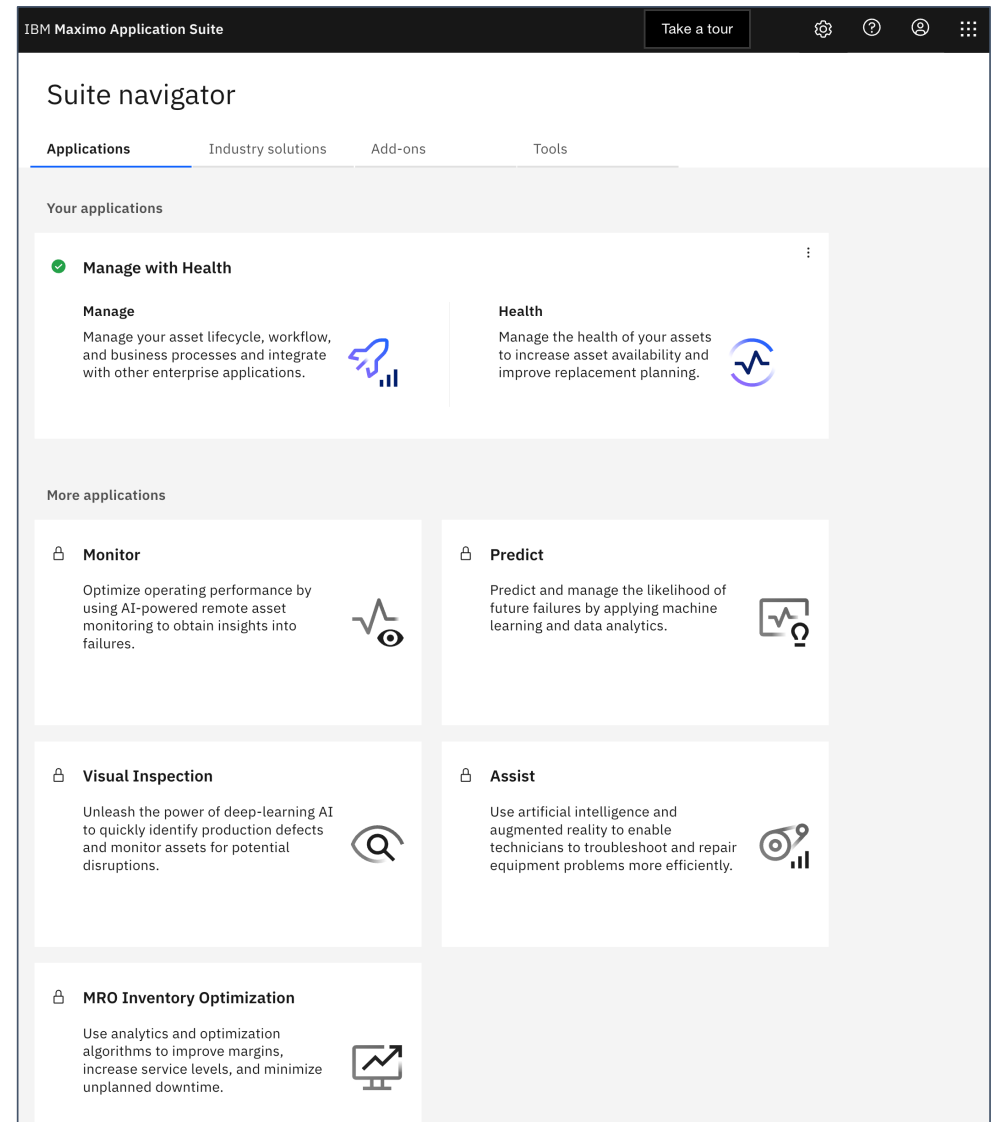
# Maximo EAM zu MAS

- Neues Design und neue Addons
- Neuer Infrastrukturstack  
Red Hat OpenShift
- MAS überall wo OpenShift läuft
- Lokal oder auf Hyperscaler VMs
- Online oder „air-gapped“
- End of support EAM in Sept. 23



# Maximo Application Suite

- Installation mit Operators – kein Passport Advantage Download
- Zusätzliche Module, wenn Upgrade abgeschlossen ist
- Usermanagement für MAS Manage und Addons



# Maximo Application Suite - Manage

- Modernisiertes UI – React und Carbon framework
- Wiederverwendung bestehender Anpassungen wo möglich
- Erweiterung um Role Based Applications / Mobile



The screenshot displays the 'Assets' management interface in IBM Maximo. The top navigation bar includes 'IBM Maximo Application Suite', 'Manage', and a 'Take a tour' button. The main content area is titled 'Assets' and shows a list of 569 assets. The left sidebar contains a search bar and a list of 'Common Actions' and 'More Actions'. The main table lists assets with columns for 'Asset' ID and 'Description'.

Asset	Description
11450	Centrifugal Pump 100GPM/60FTHD
11220	Electrical Control Panel- HVAC System
13145	Indexing Drive Assembly
12210	Brake System- Overhead Crane #1
12300	Electric Cart
12200	Overhead Crane #1
23972	Motor- 10hp/1750rpm/TEFC/254T Frame/440v/3ph/60
13120	Bottom Sealing System
52300	Electrical Service Pole #300/Wood/45 ft/Class 5
A8006	Unix Server
11240	Circulation Fan- Centrifugal/ 20/000 CFM
11250	Circulation Fan- Centrifugal/ 20/000 CFM
7113	Standard Laptop Computer
7114	Standard Laptop Computer
7115	Standard Laptop Computer
A8007	Unix Server



# Red Hat OpenShift

- Erweitert Kubernetes um Usability und Sicherheit
- Infrastruktur beschreiben, anstatt zu installieren
- Virtuelle Maschinen und Storage
- Software-defined Network
- Skaliert, automatische Ausfallsicherung

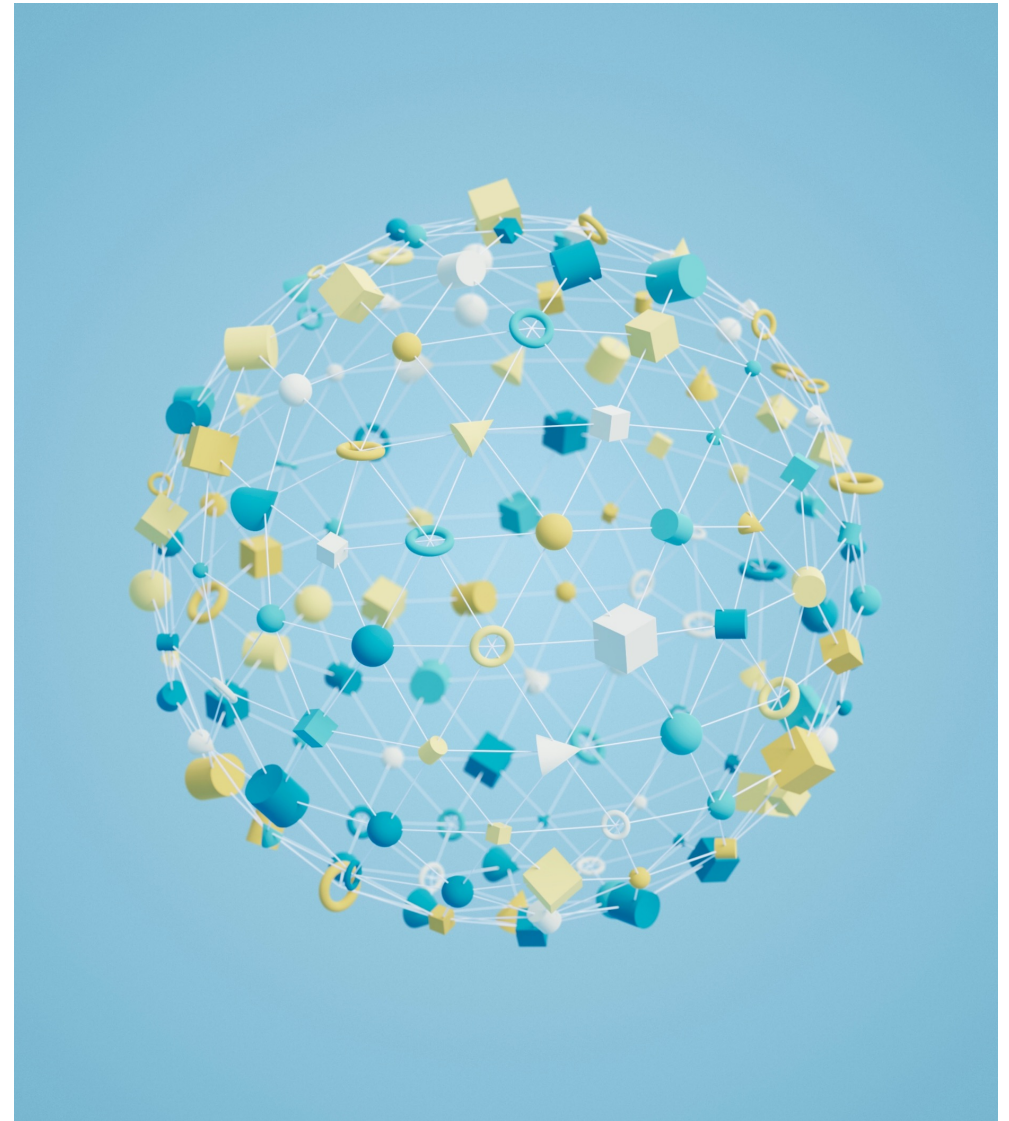


The screenshot displays the Red Hat OpenShift Container Platform interface. The top navigation bar includes the Red Hat logo and the text "OpenShift Container Platform". The left sidebar contains a menu with categories: Administrator, Home, Operators, and Workloads. The "Home" category is expanded, showing options like Overview, Projects, Search, and API Explorer. The "Workloads" category is also expanded, with "Pods" selected. The main content area shows the "Pod details" for a pod named "dev-masdev-all-7fb6f97744-qvvn4" in the "mas-dev-manage" project. The "Logs" tab is active, displaying a log stream with a "Log streaming..." indicator and a search bar. The log output shows a series of INFO messages from the MXServer container, with timestamps ranging from 10:18:14:758 to 10:18:24:811.

```
148449 04 May 2023 10:18:14:758 [INFO] [MXServer] [CI
148450 04 May 2023 10:18:14:758 [INFO] [MXServer] [CI
148451 04 May 2023 10:18:14:758 [INFO] [MXServer] [CI
148452 04 May 2023 10:18:14:771 [INFO] [MXServer] [CI
148453 04 May 2023 10:18:14:771 [INFO] [MXServer] [CI
148454 04 May 2023 10:18:14:771 [INFO] [MXServer] [CI
148455 04 May 2023 10:18:14:772 [INFO] [MXServer] [CI
148456 04 May 2023 10:18:14:777 [INFO] [MXServer] [CI
148457 04 May 2023 10:18:14:791 [INFO] [MXServer] [CI
148458 04 May 2023 10:18:14:799 [INFO] [MXServer] [CI
148459 04 May 2023 10:18:18:726 [INFO] [MXServer] [I
148460 04 May 2023 10:18:18:726 [INFO] [MXServer] [I
148461 04 May 2023 10:18:24:759 [INFO] [MXServer] [CI
148462 04 May 2023 10:18:24:759 [INFO] [MXServer] [CI
148463 04 May 2023 10:18:24:759 [INFO] [MXServer] [CI
148464 04 May 2023 10:18:24:759 [INFO] [MXServer] [CI
148465 04 May 2023 10:18:24:789 [INFO] [MXServer] [CI
148466 04 May 2023 10:18:24:789 [INFO] [MXServer] [CI
148467 04 May 2023 10:18:24:789 [INFO] [MXServer] [CI
148468 04 May 2023 10:18:24:789 [INFO] [MXServer] [CI
148469 04 May 2023 10:18:24:799 [INFO] [MXServer] [CI
148470 04 May 2023 10:18:24:811 [INFO] [MXServer] [CI
```

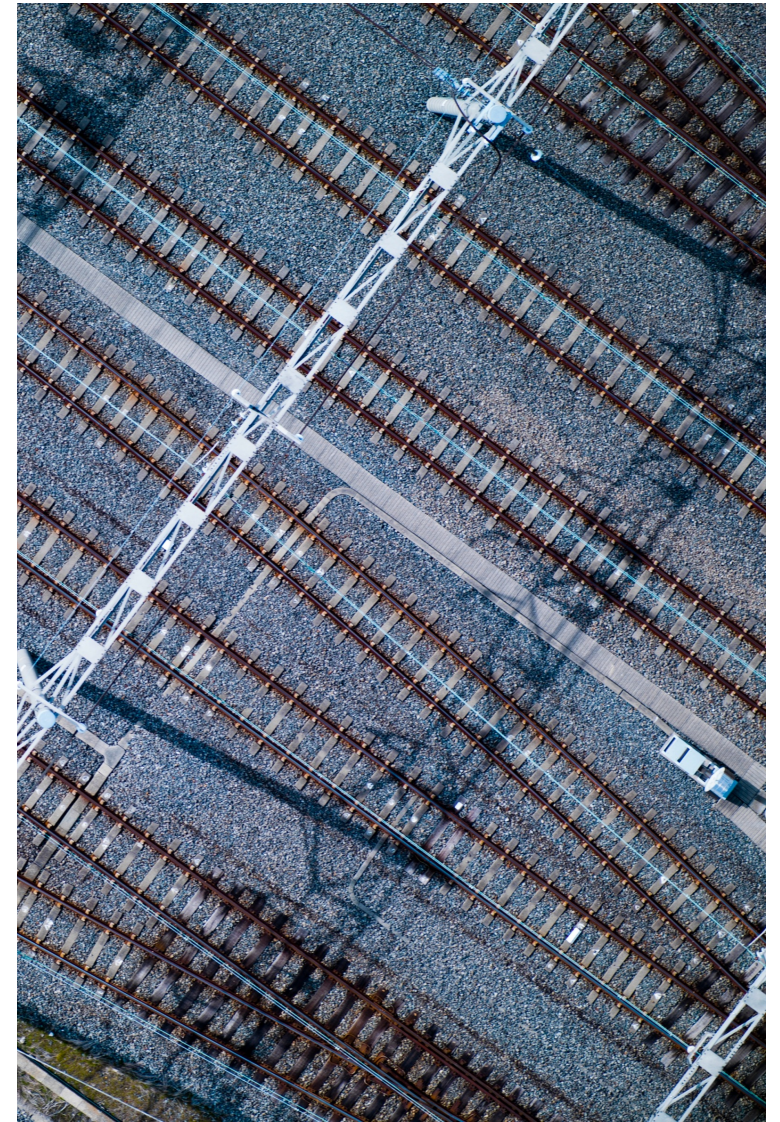
# CloudPak for Data

- MAS Core/Manage benötigt kein CloudPak for Data (CP4D)
- Nutzung DB2U Operator für Installation Db2 Warehouse
- Predict nutzt Watson Studio, Watson Machine Learning
- MAS Monitor/IoT braucht Db2



# Von EAM zu MAS

1. OpenShift Cluster / SNO Deployment
2. MAS Deployment mittels Ansible
  - MAS Prerequisites
  - MAS Core
3. Vorbereiten des Customizations ZIP
4. MAS Manage installieren und aktivieren
5. Testen der Installation





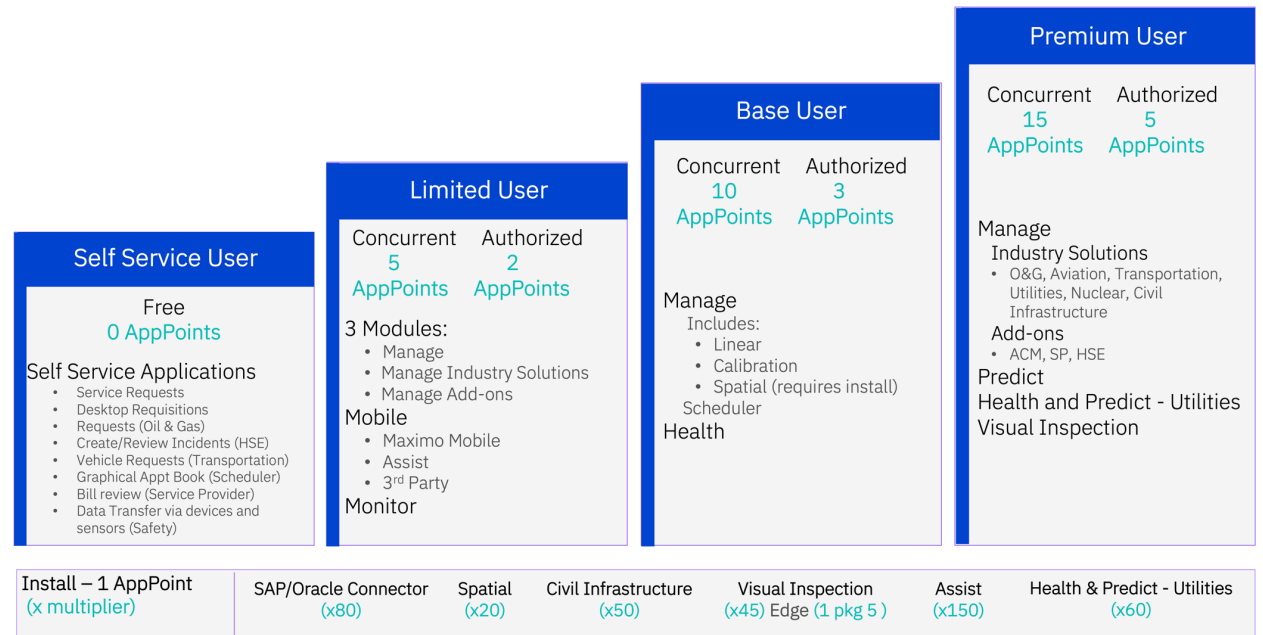
## Von EAM zu MAS (2)

- MAS Manage deaktivieren
- Duplizieren der EAM 7.6.1.2 Datenbank
- Encryption Keys
- Konfiguration anpassen (JDBC)
- MAS Manage aktivieren, automatische Migration der Datenbank ins benötigte Format



# Lizensierung

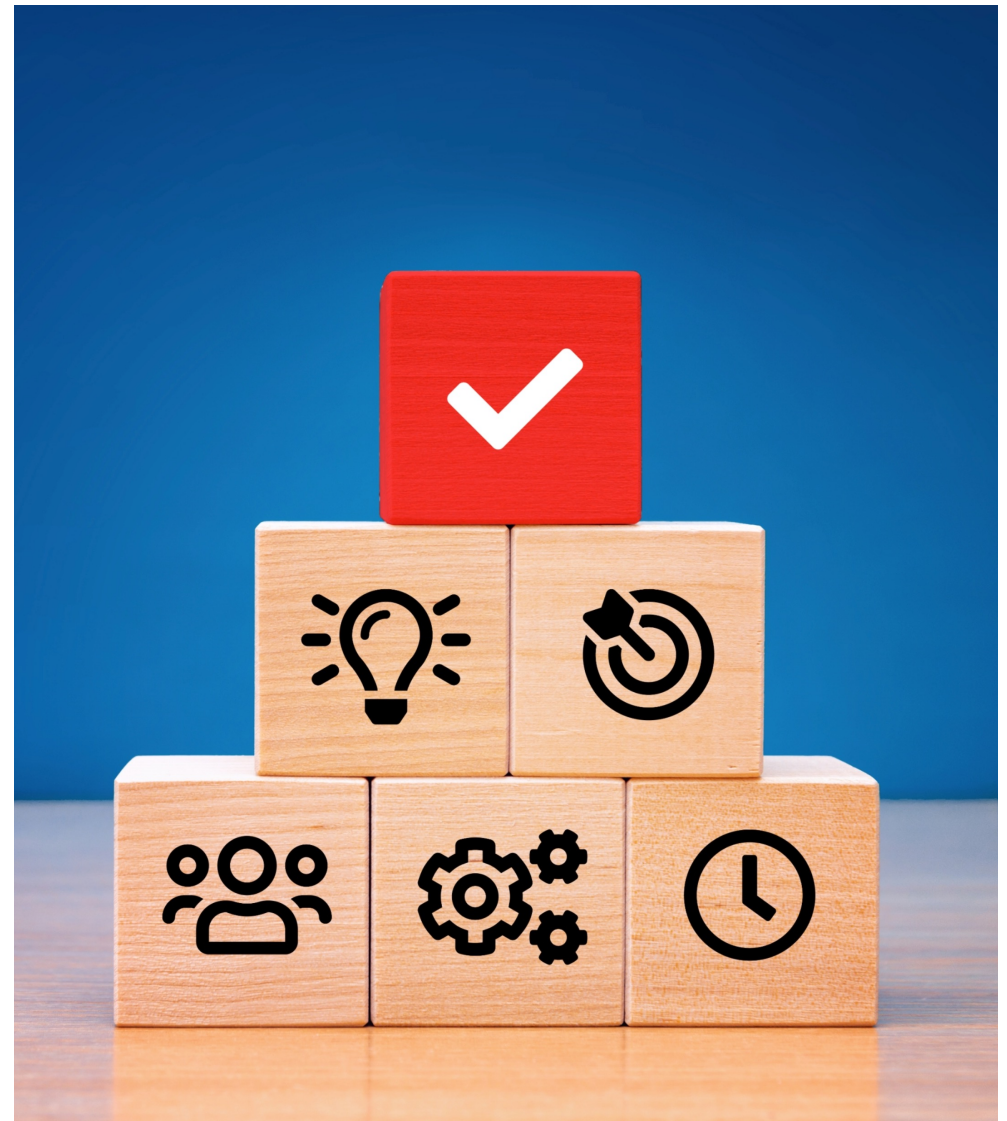
- Punkte-basierte Lizenzierung
- Unterschiedliche Kosten je Zugriffslevel
  - Limited (max 3 Module)
  - Base
  - Premium
- Sizing der Umgebungen
- Optimierungspotential vor Migrationen





# Herausforderungen

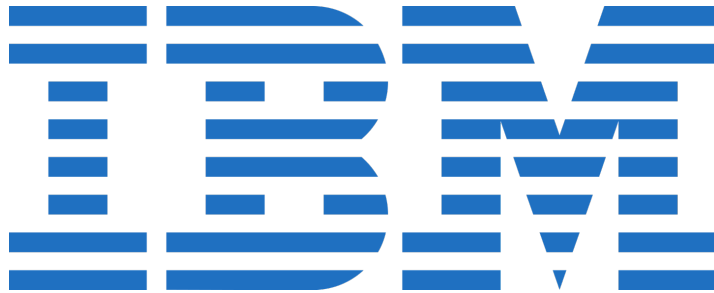
- Wissensaufbau OCP und MAS
- Richtiges Sizing, Hosting-Entscheidungen (on-prem, AWS, Azure)
- Performance der Stagesysteme (Antwortzeiten, Durchsatz)
- Sicherheit / SSO mit SAML IdP
- Zertifikate und DNS-Server-Integration
- Code-Refactoring, Umstellung auf Automation Scripts
- Abgekündigte Funktionen wie Anywhere, RMI
- Cloud Instanzen einbinden in lokale Infrastruktur



# Nächste Schritte

- Start der Upgrade-Planungen so früh wie möglich
  - Betrachtung des Ist-Zustandes, Vision aufbauen
  - Planung der zukünftigen Umgebungen
  - High-Level Design und Projektplanung
  - Riskominimierung
  - Testinstallationen OCP und MAS
  - Testmigrationen Datenbank
  - Umgebungsaufbau, Hardening und Day 2 Operations
  - Upgrade zur Maximo Application Suite und Go-Live
  - Erweiterungen um neue MAS Module
- 
- IBM Technology Expert Labs unterstützt Upgrades





Vielen Dank!

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