

NorthEast Maximo Users Group

Maximo Application Suite
*Functional Upgrade
Workshop*

May 9th, 2024
Providence, Rhode Island



With you today



Derek FU
Sr. Partner Technical Specialist
IBM Sustainability Software

LinkedIn:
<https://www.linkedin.com/in/fuderek/>



Agenda

- 1 Steps you need to get started
- 2 Maximo Application Suite architecture
- 3 MAS Core Administration
- 4 Questions ...

Steps you need to get start

1

"STUDY" IBM / Redhat
Product
Documentation

2

Gather **"ALL"**
necessary components
and services

3

"PRACTICE" in
sandbox environment

4

"DOCUMENT"
Functional and Non-
Functional
Requirements for MAS
deployment

STUDY IBM / Redhat Product Documentation

IBM Maximo Application Suite version 8.8 and **Later**

<https://www.ibm.com/docs/en/mas-cd>

IBM Support – Maximo Application Suite Support

<https://www.ibm.com/support/pages/maximo-application-suite-support-resources-home-0>

IBM Maximo Application Suite CLI Utility

<https://ibm-mas.github.io/cli/>

MAS Develops Ansible Collection

<https://ibm-mas.github.io/ansible-devops/>

IBM Github – Single Node OpenShift

<https://ibm-mas-manage.github.io/sno/>

Redhat OpenShift cluster

<https://docs.openshift.com/container-platform/4.14/installing/index.html>

Other Maximo Related Web Sites:

Maximo Secrets – MAS Overview

<https://maximosecrets.com/ibm-maximo-application-suite-overview/>

Maximo Secrets – MAS Manage Overview

<https://maximosecrets.com/ibm-maximo-manage-overview/>

IBM Community – Asset & Facilities Manage

– Upgrading to IBM Maximo Application Suite

<https://community.ibm.com/community/user/asset-facilities/modernize-maximo>

Gather Necessary Components and Services

1 of 3

Redhat OpenShift Cluster:

- Hypervisor (IBM Cloud, AWS, Azure)
- Virtualization (VMWare, Redhat Virtualization)
- Bare Metal Servers

MAS Catalog Sources (Static vs Dynamic)

Identity Management (Single Sign On)

Domain Name Services (DNS)

Digital Signed Certificates

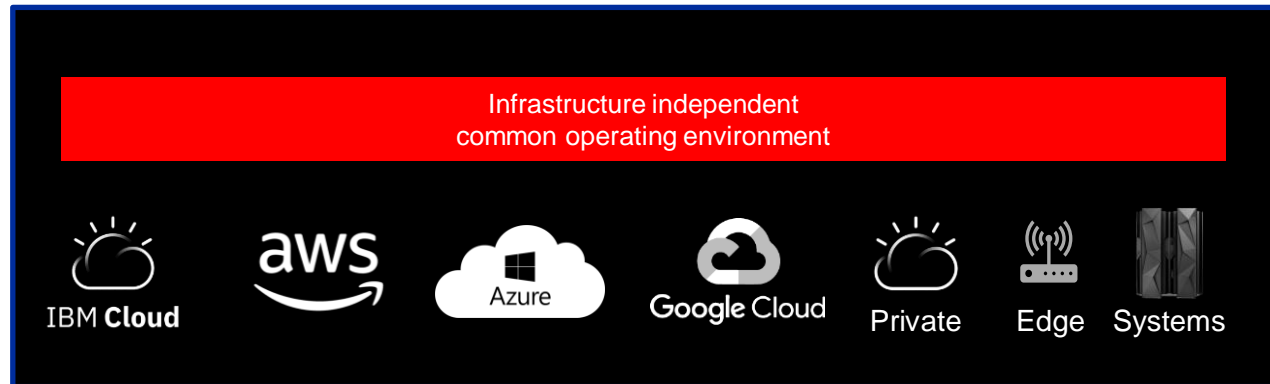
Storage Class Setup

Network Setup



Result:

[A set of Architecture Document](#)



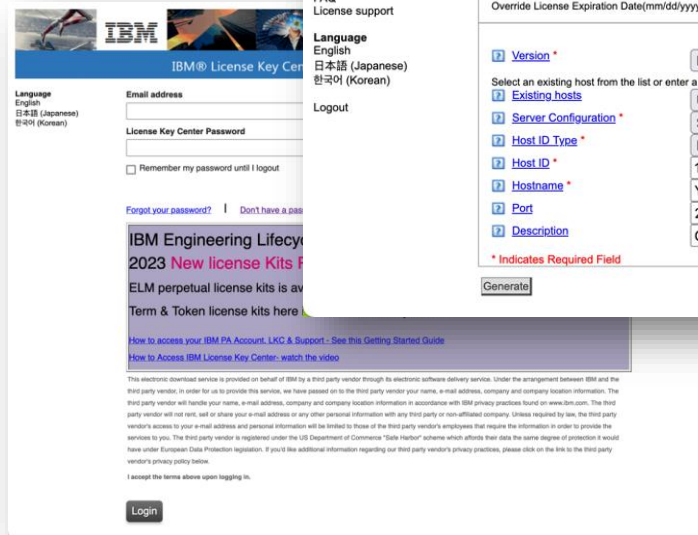
Gather Necessary Components and Services

3 of 3

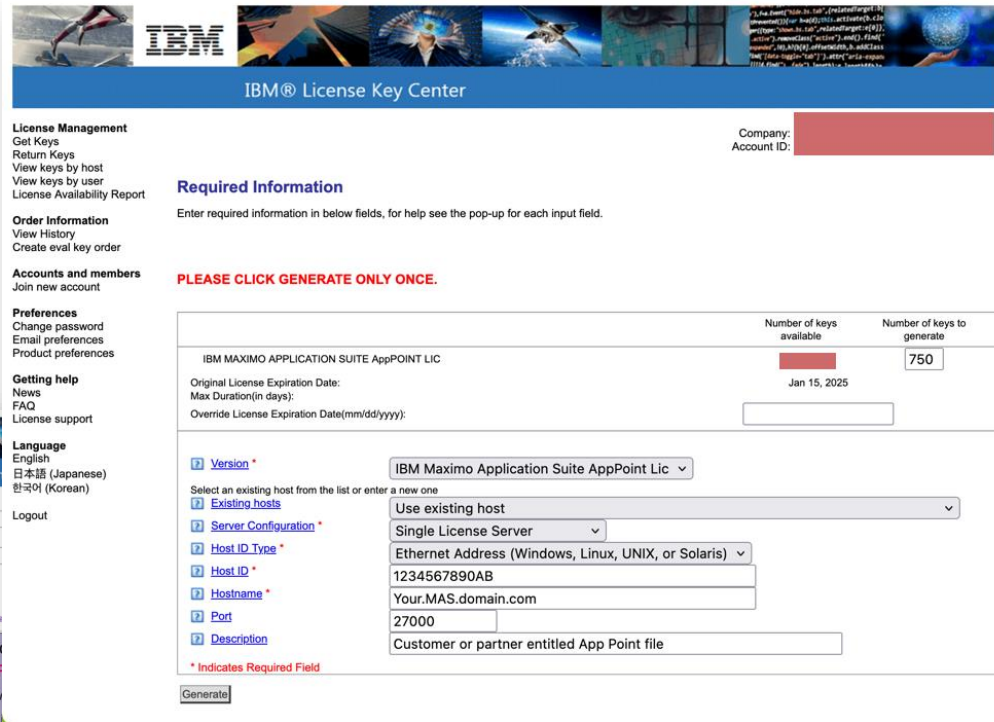
IBM Support – Licensing
Manage your license keys – **Action** Launch
Log in to the License Key Center Web Page

<https://www.ibm.com/support/pages/ibm-support-licensing-start-page>

Result:
A text file contain allocated
App Point for deployment



The screenshot shows the IBM License Key Center login page. It features the IBM logo at the top. Below the logo, there are links for 'Language' (English, 日本語 (Japanese), 한국어 (Korean)), 'Email address', 'License Key Center Password', and a checkbox for 'Remember my password until I logout'. There are also links for 'Forgot your password?' and 'Don't have a password?'. Below these, there is a section for 'IBM Engineering Lifecycle 2023 New license Kits' and 'ELM perpetual license kits are available'. At the bottom, there is a 'Login' button and a 'Forgot your password?' link.



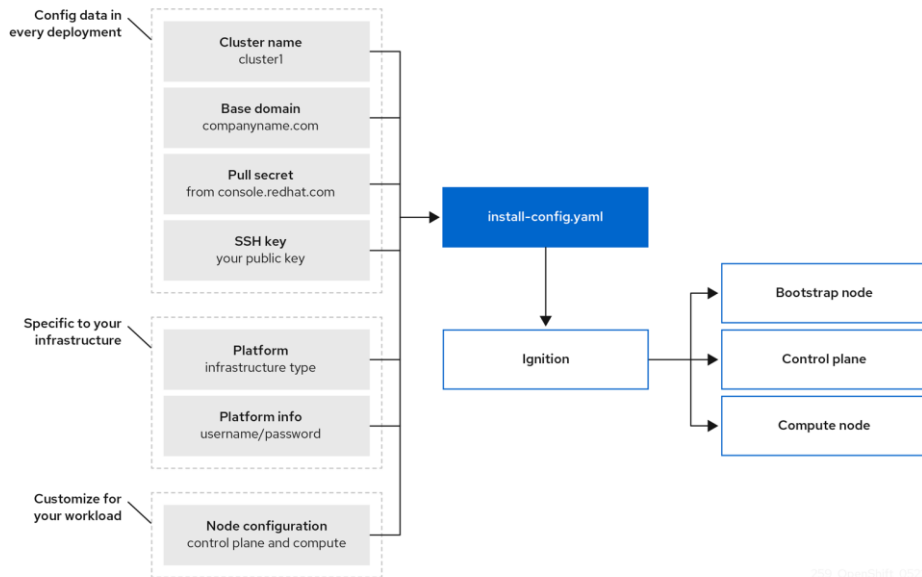
The screenshot shows the IBM License Key Center 'Required Information' page. It features the IBM logo at the top. Below the logo, there is a 'Company:' field and an 'Account ID:' field. The page is titled 'Required Information' and contains a table with the following information:

IBM MAXIMO APPLICATION SUITE AppPOINT LIC	Number of keys available	Number of keys to generate
Original License Expiration Date: Max Duration(in days): Override License Expiration Date(mm/dd/yyyy):	Jan 15, 2025	750

Below the table, there is a section for 'Version' and 'Host ID Type'. The 'Version' dropdown is set to 'IBM Maximo Application Suite AppPoint Lic'. The 'Host ID Type' dropdown is set to 'Use existing host'. Below these, there are fields for 'Server Configuration' (Single License Server), 'Host ID' (Ethernet Address (Windows, Linux, UNIX, or Solaris)), 'Host ID' (1234567890AB), 'Hostname' (Your.MAS.domain.com), 'Port' (27000), and 'Description' (Customer or partner entitled App Point file). There is a 'Generate' button at the bottom.

Ways of getting Redhat OpenShift

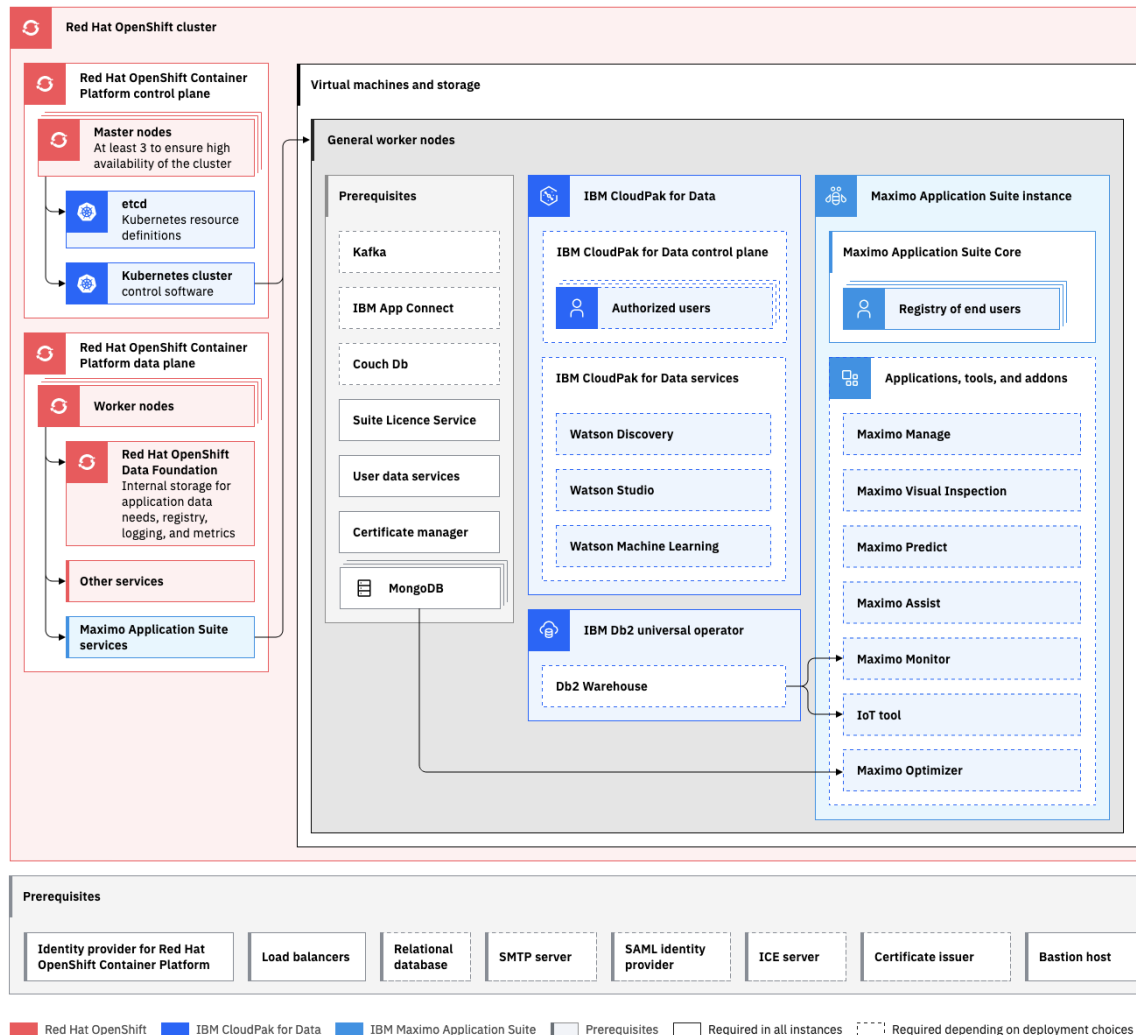
- ✓ IBM Cloud Satellite offering
- ✓ IBM SaaS offerings
- ✓ Partner / Private Cloud offerings
- ✓ Deploy Redhat OpenShift options:
 - Interactive: Web-based Assisted Installer
 - Local Agent-based: Agent-based Installer
 - Automated: Installer-provisioned Infrastructure (IPI)
 - Full control: Prepare your own with maximum customizability
- ✓ On Cloud providers:
 - Alibaba, AWS (ROSE), Azure (ARO), GCP, IBM Cloud (ROKS)
- ✓ On bare metal
- ✓ On vSphere
- ✓ Others ...



How MAS Reside within OpenShift Cluster

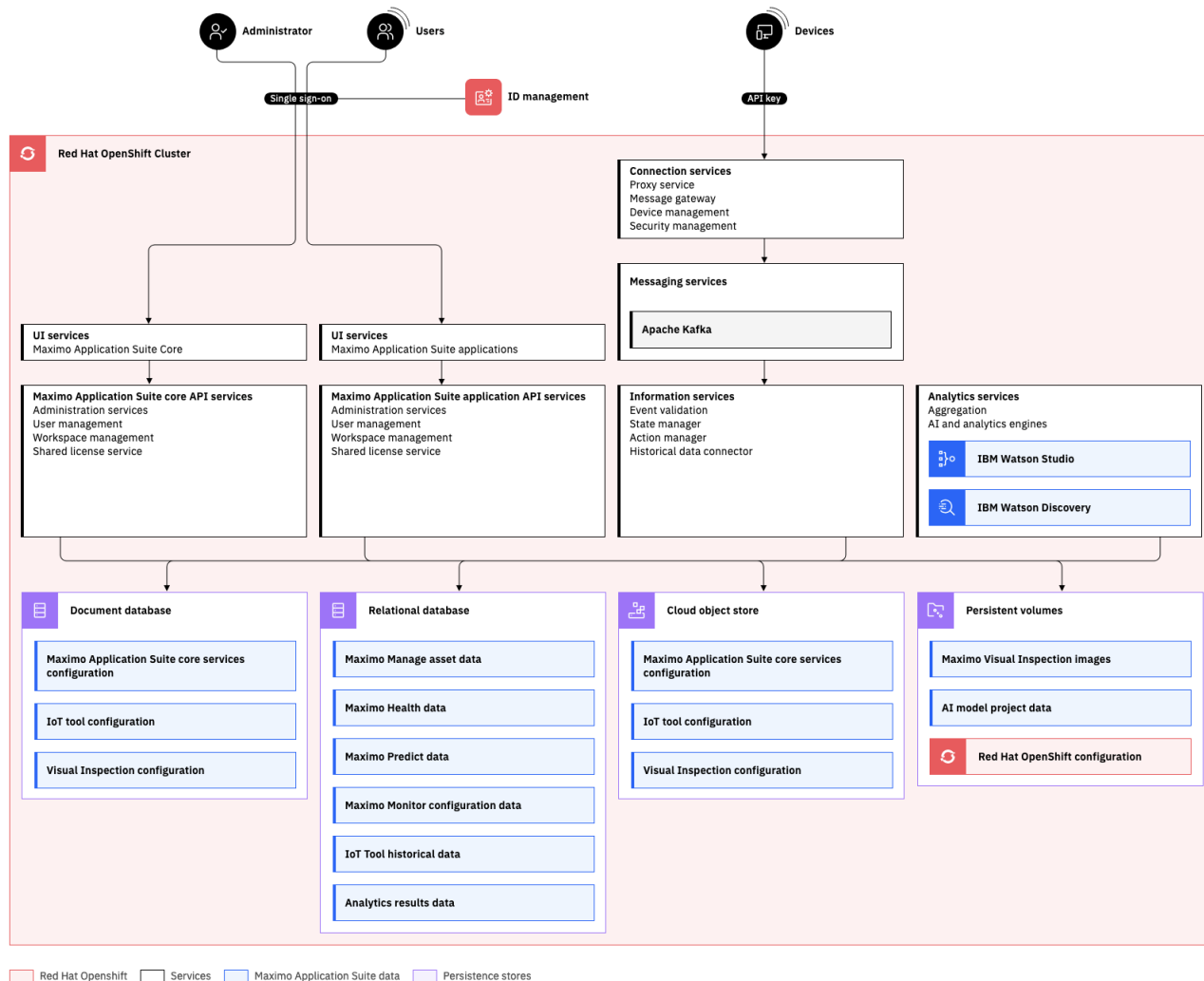
Current Release of Maximo Application Suite 8.11 and Redhat OpenShift logical components architecture

Please noted those Prerequisites components and services could be best confirmed and available prior to MAS installation

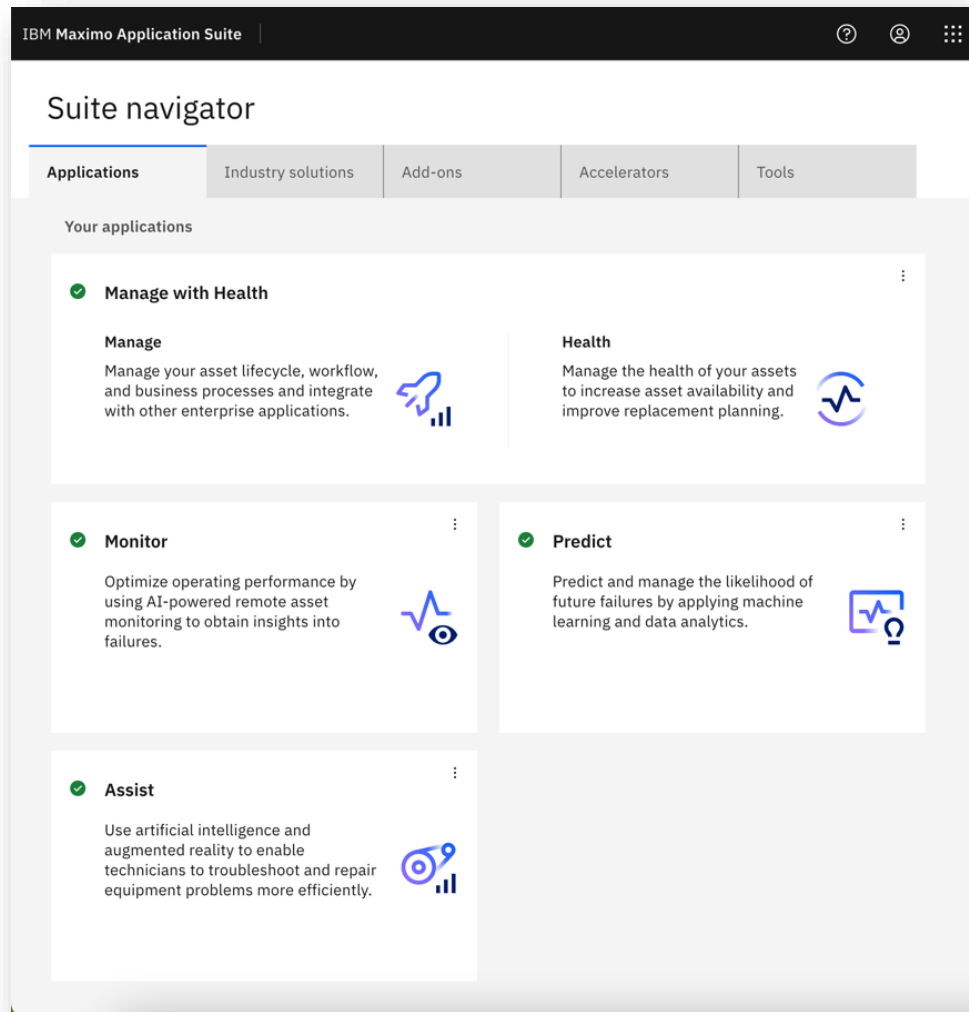


Logical Architecture

Current Release of Maximo Application Suite 8.11 application services are containerized, assigned to pods, and configured through Kubernetes operators to start and stop based on their configuration



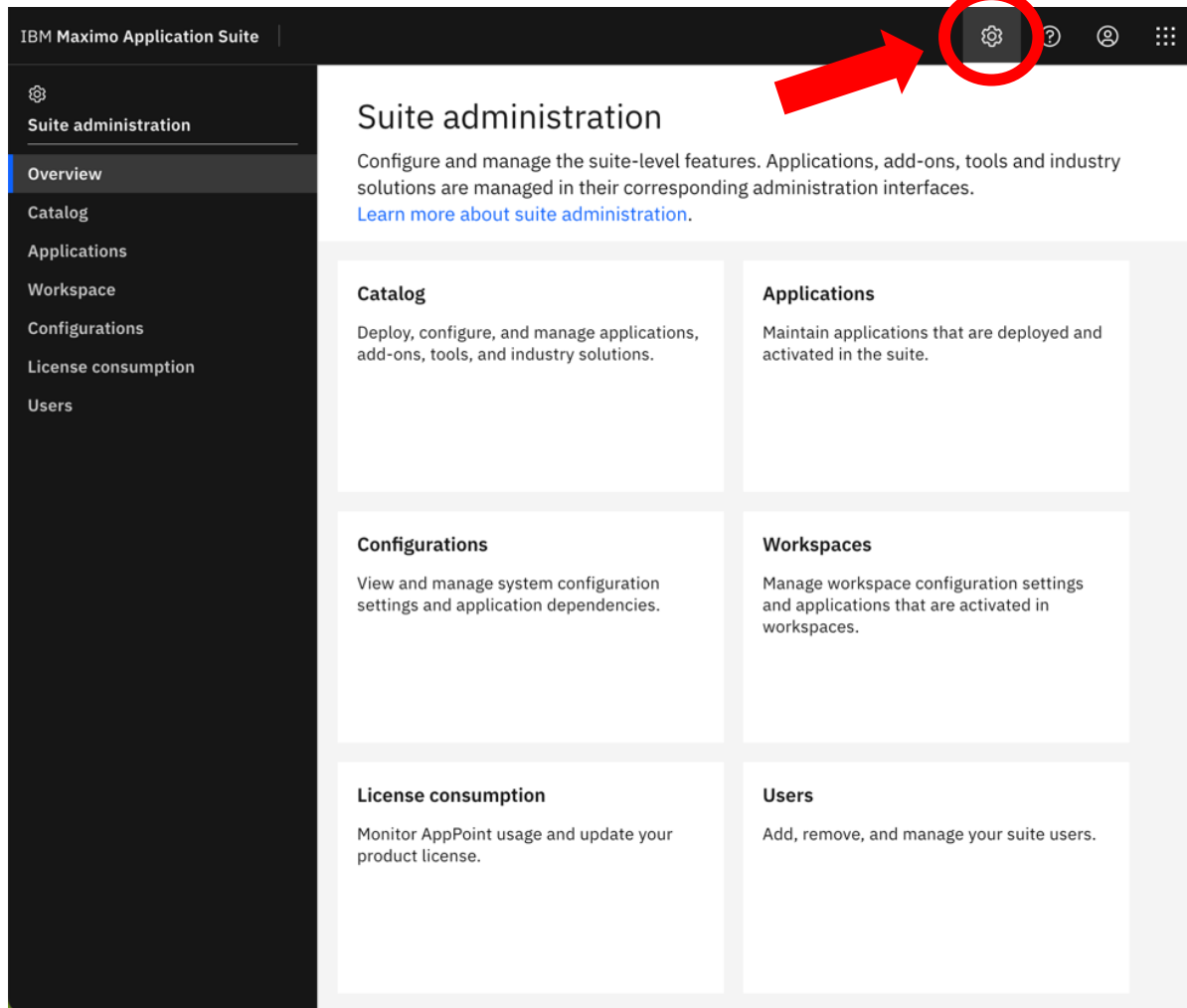
Maximo Application Suite Core User Interfaces and Administration



MAS Administration Functions & Features

All details are listed in IBM Documentation

<https://www.ibm.com/docs/en/mas-cd/continuous-delivery?topic=administering>



Catalog - Applications

The screenshot displays the IBM Maximo Application Suite interface. On the left is a dark sidebar with navigation links: Suite administration, Overview, Catalog (highlighted), Applications, Workspace, Configurations, License consumption, Users, and API keys. The main content area is titled 'Catalog' and features a search bar. Below the search bar are tabs for Applications, Industry solutions, Add-ons, Accelerators, and Tools. A descriptive text states: 'Deploy and then activate key Maximo applications for your enterprise users.' The page contains seven application cards, each with an IBM logo, an icon, a title, and a brief description:

- Manage**: Manage your asset lifecycle, workflow, and business processes and integrate with other enterprise applications.
- Monitor**: Optimize operating performance by using AI-powered remote asset monitoring to obtain insights into failures.
- Health**: Manage the health of your assets to increase asset availability and improve replacement planning.
- Predict**: Predict and manage the likelihood of future failures by applying machine learning and data analytics.
- Visual Inspection**: Unleash the power of deep-learning AI to quickly identify production defects and monitor assets for potential disruptions.
- Assist**: Use artificial intelligence and augmented reality to enable technicians to troubleshoot and repair equipment problems more efficiently.
- MRO Inventory Optimization**: Use analytics and optimization algorithms to improve margins, increase service levels, and minimize unplanned downtime.

Catalog – Industry Solutions

The screenshot displays the IBM Maximo Application Suite interface. On the left is a dark sidebar with navigation links: Suite administration, Overview, Catalog (highlighted), Applications, Workspace, Configurations, License consumption, Users, and API keys. The main content area is titled 'Catalog' and features a search bar. Below the search bar is a horizontal tab bar with 'Applications', 'Industry solutions' (selected and highlighted with a blue border), 'Add-ons', 'Accelerators', and 'Tools'. The 'Industry solutions' section contains a sub-header: 'Add industry-specific extensions of the capabilities of the suite, its applications, and its tools.' Below this, there are six solution cards arranged in a 2x3 grid:

- Aviation**
IBM · Manage
Schedule and manage aircraft maintenance to maintain regulatory compliance and minimize periods when aircraft are grounded.
- Civil Infrastructure**
IBM · Manage
Integrate inspections, defect tracking, and maintenance practices to improve asset life, keep critical systems running, and lower cost of ownership.
- Nuclear**
IBM · Manage
Manage nuclear equipment, track regulatory requirements, and enhance operational and work management practices.
- Oil and Gas**
IBM · Manage
Reduce operational risk, standardize processes, and improve reliability to increase the return on your assets.
- Transportation**
IBM · Manage
Manage transportation assets and parts, improve the productivity of critical transportation assets, and facilitate compliance with regulatory requirements.
- Utilities**
IBM · Manage
Manage work and assets for transmission and distribution in water, gas, and electric utilities.

Catalog – Add-ons

The screenshot displays the IBM Maximo Application Suite interface. On the left is a dark sidebar with navigation links: Suite administration, Overview, Catalog (highlighted), Applications, Workspace, Configurations, License consumption, Users, and API keys. The main content area is titled 'Catalog' and features a search bar. Below the search bar is a horizontal tab bar with 'Applications', 'Industry solutions', 'Add-ons' (selected), 'Accelerators', and 'Tools'. A descriptive text states: 'Configure add-ons to extend the capabilities of the suite, its applications, and its tools.' The page contains a grid of nine add-on cards, each with a title, a sub-header, and a description.

Applications	Industry solutions	Add-ons	Accelerators	Tools
<p>Configure add-ons to extend the capabilities of the suite, its applications, and its tools.</p>				
Visual Inspection Edge IBM · Visual Inspection Scale inspections at the edge and deploy trained models on x86 and IBM Power System platforms. Each installation supports up to 10 cameras per GPU.		IT IBM · Manage Enable Maximo IT to provide a single point of user support and enterprise service management of IT/OT assets and processes.		Asset Configuration Manager IBM · Manage Configure high-value, complex, and regulated assets, such as aircraft, rail vehicles, engines, and weapon systems.
Health, Safety and Environment IBM · Manage Manage health, safety, and environmental sustainability for your organization and assets.		Oracle Connector IBM · Manage Integrate Maximo Manage with Oracle E-Business Suite to share data across your enterprise.		SAP Connector IBM · Manage Integrate Maximo Manage with SAP ERP 6.0 or SAP S/4HANA to share data across your enterprise.
Service Provider IBM · Manage Manage service delivery, customer agreements and customer billing.		Spatial IBM · Manage Visualize spatial relationships among managed assets and other mapped features.		Reliability Strategies IBM · Manage Explore reliability-based maintenance strategies. Use the strategy details in preventive maintenance and job plans.

Catalog - Accelerators

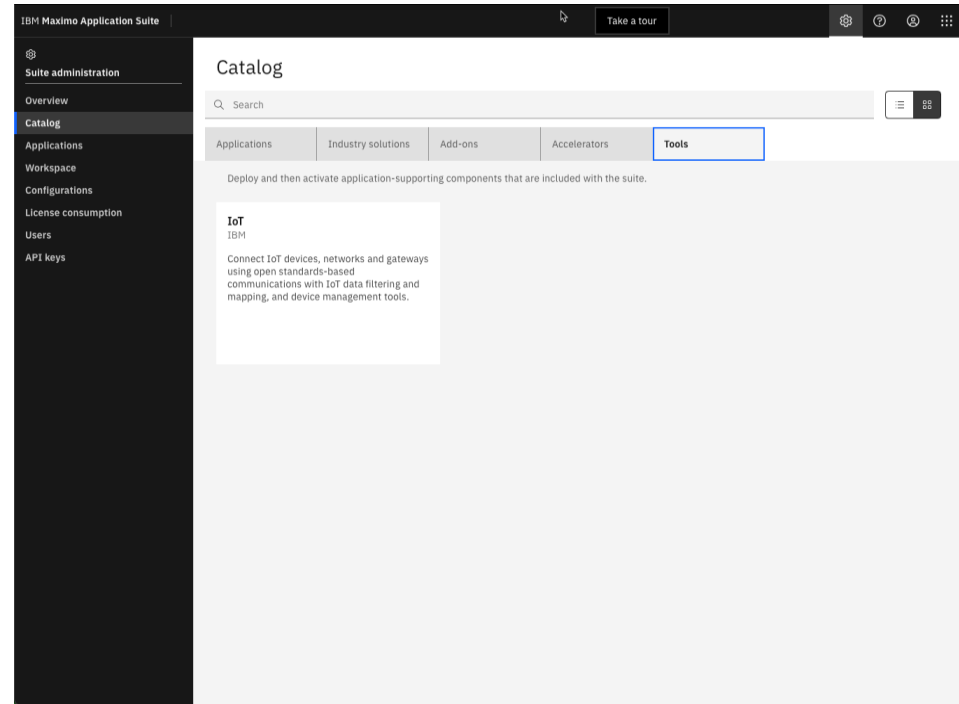
The image displays two overlapping web interfaces. The background interface is the IBM Maximo Application Suite Catalog, featuring a dark sidebar with navigation links: Suite administration, Overview, Catalog (selected), Applications, Workspace, and Configurations. The main content area is titled 'Catalog' and includes a search bar and tabs for Applications, Industry solutions, Add-ons, Accelerators (highlighted with a blue box), and Tools. A banner below the tabs reads 'Acceleration, built directly'.

The foreground interface is the Red Hat Marketplace, showing a 'All products' page with 36 results for 'maximo'. It features a left sidebar with product categories (e.g., Featured products, AI/machine learning, Application runtime) and delivery methods (Download, Operator, SaaS). The main product grid includes:

- Interloc Mobile Informer** (By Interloc Solutions): Mobile Informer is an award-winning mobility solution for Maximo and the Maximo Application Suite (MAS).
- COHESIVE EAM ON ITPM360** (By Cohesive Spain): is a Cohesive solution built on top of the IBM MAXIMO OEM software. Cohesive EAM Solution is based on the [interloc solution for IBM Maximo](#).
- EAM FlexCalendar** (By EAM Mas AG): EAM FlexCalendar Plus is an integrated, easy to deploy Add-On and a revolutionary new way of visualizing data in Maximo or MAS Manage.
- Smart Project Link - Maximo and Microsoft...** (By Smartech): Transformative Integration for Maximo and Microsoft Project. Elevate your planning and scheduling capabilities.
- Smart Label Printing - Maximo Labeling...** (By Smartech): Streamline label printing using Smartech Label Printing solution. Generate labels and barcodes directly from...
- Nexter Maximo On Cloud** (By Nexter Asset Management): Nexter Maximo On Cloud provides private SaaS experience for Maximo Application Suite solution with full stack of services including...
- IBM Maximo Models for Electrical Distribution** (By IBM): IBM Maximo Models for Electrical Distribution offers model templates to enhance the reliability of energy assets.
- IBM Maximo Work Order Advisor** (By IBM): IBM Maximo Work Order Advisor enables improving productivity and reliability in processes, and consistency.
- EAM MAS Package** (By EAM Mas AG):
- A3J Group Maximo Ninja Fix Workflow Delegate** (By A3J Group LLC):
- Maximo as a Service Non-Production...** (By Peacock Engineering Ltd):
- Fingertip** (By Peacock Engineering Ltd):

On the right side of the Red Hat Marketplace interface, there is a 'Reliability Strategies' section with the text: 'Transform how you maintain assets. Explore and leverage failure and mitigation details that were developed by industry experts.' Below this is an illustration of a person holding a red cube, and a button labeled 'Explore Red Hat Marketplace'.

Catalog - Tools



Applications – Deployment Status

New version available

Manage 8.7.7

Review the version details for the latest application version in the 8.7.7 channel.

Version details

Channel

8.7.x

Type

Version update

Available channels

→

Cancel

Approve upgrade

IBM Maximo Application Suite

Take a tour

Suite administration

Overview

Catalog

Applications

Workspace

Configurations

License consumption

Users

API keys

Applications

Maintain the applications that are deployed and configured for use in this environment.

Name	Category	Status	Version
IoT	Tool	Active in MAS 8.11 Workspace	8.8.6
Manage	Application	Activating in MAS 8.11 Workspace	8.7.6
Monitor	Application	Active in MAS 8.11 Workspace	8.11.5

Can't find what you're looking for?

Deploy more applications in the Catalog

IBM Maximo Application Suite

Suite administration

Overview

Catalog

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API keys

Applications

Maintain the applications that are deployed and configured for use in this environment.

Name	Category	Status	Version
IoT	Tool	Active in MAS 8.11 Workspace	8.8.6 Update available
Manage	Application	Active in MAS 8.11 Workspace	8.7.6 Update available
Monitor	Application	Active in MAS 8.11 Workspace	8.11.4 Update available
Optimizer	Add-on	Active in MAS 8.11 Workspace	8.5.4

Can't find what you're looking for?

Deploy more applications in the Catalog

Static vs Dynamic Catalogs Source

<https://ibm-mas.github.io/cli/catalogs/>

This screenshot shows the 'CatalogSource details' page for 'ibm-operator-catalog' in the 'openshift-marketplace' namespace. The 'Display name' field is circled in red and contains the text 'IBM Maximo Operators (v8-240405-amd64)'. The status is 'READY'.

Static Catalog
V8-yymmdd-amd64)


Field	Value
Name	ibm-operator-catalog
Status	READY
Namespace	NS openshift-marketplace
Display name	IBM Maximo Operators (v8-240405-amd64)
Publisher	IBM
Availability	Cluster wide
Endpoint	icr.io/cpopen/ibm-maximo-operator-catalog:v8-240405-amd64
Registry poll interval	45m
Number of Operators	-

This screenshot shows the 'CatalogSource details' page for 'ibm-operator-catalog' in the 'openshift-marketplace' namespace. The 'Display name' field is circled in red and contains the text 'IBM Maximo Operators (v8-amd64)'. The status is 'READY'.

Dynamic Catalog
V8-amd64)

Field	Value
Name	ibm-operator-catalog
Status	READY
Namespace	NS openshift-marketplace
Display name	IBM Maximo Operators (v8-amd64)
Publisher	IBM
Availability	Cluster wide
Endpoint	icr.io/cpopen/ibm-maximo-operator-catalog:v8-amd64
Registry poll interval	45m
Number of Operators	50

Two paths of upgrading MAS Applications via UI or OpenShift Console

 **Red Hat**
OpenShift on IBM Techzone




You are logged in as a temporary administrative user. [Update the cluster OAuth console](#)

Project: mas-mas811-manage ▾

Installed Operators

Installed Operators are represented by ClusterServiceVersions within this Namespace. For more information, see [Operator and ClusterServiceVersion using the Operator SDK](#).

Name ▾ Search by name... /



Name	Managed Namespaces	Status
 IBM Maximo Manage 8.7.6 provided by IBM	NS mas-mas811-manage	✔ Succeeded ➡ Upgrade available
 IBM Truststore Manager 1.5.3 provided by IBM	NS mas-mas811-manage	✔ Succeeded Up to date
 Red Hat OpenShift Pipelines 1.14.4 provided by Red Hat	All Namespaces	✔ Succeeded Up to date Plugin available


IBM Maximo Application Suite

Suite administration
Overview
Catalog
Applications
Workspace
Configurations
License consumption
Users
API keys

Applications

Maintain the applications that are deployed and configured for use in this environment.

Name	Category	Status	Version
IoT	Tool	✔ Active in MAS 8.11 Workspace	8.8.6 Update available
 Manage	Application	✔ Active in MAS 8.11 Workspace	8.7.6 Update available
 Monitor	Application	✔ Active in MAS 8.11 Workspace	8.11.4 Update available
Optimizer	Add-on	✔ Active in MAS 8.11 Workspace	8.5.4

 Can't find what you're looking for? [Deploy more applications in the Catalog](#)

Workspace – Activation Status

The screenshot displays the IBM Maximo Application Suite (MAS) 8.11 Workspace interface. The left sidebar contains a navigation menu with the following items: Suite administration, Overview, Catalog, Applications, Workspace (highlighted), Configurations, License consumption, Users, and API keys. The main content area is titled "MAS 8.11 Workspace" and includes a subtitle "Administer the configuration and version of applications that are active in the workspace." Below this, there are two tabs: "Overview" (selected) and "External launchers". The "Overview" tab shows "Workspace details" with a table containing the following information:

Workspace display name	Workspace Id	Created on
MAS 8.11 Workspace	masws	May 6, 2024 14:05

Below the table, there is a section titled "Applications" which displays three application cards:

- IoT** (IBM · 8.8.6): Connect IoT devices, networks and gateways using open standards-based communications with IoT data filtering and mapping, and device management tools. Status: Active (green checkmark).
- Manage** (IBM · 8.7.6): Manage your asset lifecycle, workflow, and business processes and integrate with other enterprise applications. Status: Activating in workspace (blue circular arrow icon).
- Monitor** (IBM · 8.11.5): Optimize operating performance by using AI-powered remote asset monitoring to obtain insights into failures. Status: Active (green checkmark).

At the bottom of the interface, there is a search bar with a magnifying glass icon and the text "Can't find what you're looking for?". To the right of the search bar is a link "Activate more applications" with an external link icon.

Workspace – Application Configuration - Manage

Update Manage configuration

As part of updating Manage you can make configuration changes at the deployment step, the activation step, or both.

Deployment configuration

To update configurations, go to the application at the system level and from the Actions menu, select Update configuration.

[System level application details page →](#)

Activation configuration

When you update and apply these configurations, the application is reactivated

Configurations

Database connection

Optimizer

IBM Watson Studio

Components

Database

Languages

Server bundles

Customization

Server mode

Persistent volume claims (PVCs)

Build data interpreter

IBM Maximo Application Suite

Workspace: MAS 8.11 Workspace /

Manage

Active

Application · Provider: IBM · Version: 8.7.6

Channel 8.7.x

Docs · API docs · Planning docs

Actions

Update configurat...

Download debug L...

Deactivate

The application is deployed and in a ready state

[Go to Application details →](#)

Workspace details

Status

Workspace Ready

Manage deployed in workspace maws

2 days ago

Workspace Build ready

Build generated and tagged with 20240506T202924-8.7

2 days ago

Workspace Deployment ready

UpdateDB/Maxinst: Completed. Deployment all: 1 of 1 replicas ready, Deployment jms: 1 of 1 replicas ready,

2 days ago

Workspace DeploymentCR

Awaiting next reconciliation

4 hours ago

Workspace Running

Awaiting next reconciliation

2 days ago

Components

Name	Category	Current version	Target version	Status
Manage Base	Application	8.7.6	latest	Ready
Health	Application	8.9.3	latest	Ready
Spatial	Add-on	8.7.5	latest	Ready

+ 17 not enabled (show all)

Integrations and dependencies

Database connection

Optional at workspace-application scope

The database provides data storage for your application. To configure the connection to the database, specify the Java database...

View

Part of the MAS Manage Configuration (Detail Demo!)

IBM Maximo Application Suite

Workspace: MAS 8.11 Workspace /

Update Manage workspace configuration

Exit

Apply changes

Advanced settings

Dependencies and integrations

Database connection

Optimizer

IBM Watson Studio

Components

Components

Advanced settings

Database

Languages

Server bundles

Customization

Server mode

Persistent volume claims (PVCs)

Build tag

Imported certificates

Server timezone

Asset investment optimization

Simple storage service

IBM Watson Studio

IBM App Connect

Dependencies and integrations

Database connection

workspace-application scope

The database provides data storage for your application. To configure the connection to the database, specify the Java database...

View

Optimizer

Application

Automates efficient decisions for long-range plans, schedules, and the dispatch of resources for asset maintenance while...

Deploy

IBM Watson Studio

Optional at system scope

Specify the information for IBM Watson Studio.

View

Components

Learn more

Name	Category	Current version	New version
<input checked="" type="checkbox"/> Manage Base	Application	-	latest
<input checked="" type="checkbox"/> Health	Application	-	latest
<input type="checkbox"/> Aviation	Industry solution	-	-
<input type="checkbox"/> Civil Infrastructure	Industry solution	-	-
<input type="checkbox"/> Nuclear	Industry solution	-	-
<input type="checkbox"/> Oil and Gas	Industry solution	-	-
<input type="checkbox"/> Transportation	Industry solution	-	-
<input type="checkbox"/> Utilities	Industry solution	-	-
<input type="checkbox"/> Asset Configuration Manager	Add-on	-	-
<input type="checkbox"/> Anywhere	Add-on	-	-
<input type="checkbox"/> Envizi Connector	Add-on	-	-
<input type="checkbox"/> Health, Safety and Environment	Add-on	-	-
<input type="checkbox"/> IT	Add-on	-	-
<input type="checkbox"/> Oracle Connector	Add-on	-	-
<input type="checkbox"/> SAP Connector	Add-on	-	-
<input type="checkbox"/> Service Provider	Add-on	-	-
<input checked="" type="checkbox"/> Spatial	Add-on	-	latest
<input type="checkbox"/> Reliability Strategies	Add-on	-	-
<input type="checkbox"/> TRIRIGA Connector	Add-on	-	-
<input type="checkbox"/> Workday Connector	Add-on	-	-

Advanced settings

Schema

maximo

Encryption secret (optional)

Key

Value

Add property +

Table space

MAXDATA

Index space

MAXINDEX

☒ Install demo data

☒ Db2 Vargraphic

☐ Bypass upgrade version check

Old authentication type

☒ Local

☐ LDAP

☐ SAML

Reduce Downtime

☒ Regular Upgrade

☐ Online Upgrade

Failure Control

☒ Retry

☐ Reset Online Upgrade

Languages

Defaults

Select your base language and additional languages. After deployment is complete, you can also configure additional unsupported languages or default languages for individual users. [Learn more](#)

System managed

1

Base

EN

Additional

ES

Server bundles

Defaults

Add the server bundles for your deployment by providing the server bundle name, pod count, and type. You can also add server bundles or increase the pod count after the initial deployment is complete. [Learn more](#)

System managed

1

Name	Pod count	Type	Additional properties
all	1	all	View
jms	1	standalone	View

Add bundle +

Default

all

User synchronization

all

Mobile (optional)

all

Customization

Defaults

Provide the file address for any customization that you implemented. Customization archive files are

Configurations – Scopes

Database connection

Connect to the configured database by specifying the Java database connectivity values or by providing the connection URL.

[Learn more](#)

System scope

System

Configuration scope: System

Status: ●

JDBC connection information

Connection string

jdbc:db2://c-mas-mas8-system-db2u-engn-svc.50001/BLUDB:sslConnection=true;sslVersion=TLSv1.2;

Username: s jdbc-mas-mas8-system-credentials Password: s jdbc-mas-mas8-system-credentials

SSL Enabled: Yes

Additional driver options (optional)

If your database type does not support setting driver options within the connection string, you can add them here.

Driver options (use ; between each)

Unspecified

Security

Custom certificates

If you are using certificates from a non-trusted certificate authority or if default trusted certificate authorities are not automatically used, add the custom certificate.

mas-mas8-system

Configurations

View and manage system configuration settings and application dependencies.

Search All scopes

Storage

Name	Status
Database connection	Open to view
MongoDB	Open to view
Object Storage	Not configured

Users and identity

Name	Status
LDAP Authentication	Not configured
Push Notification	Not configured
SAML Authentication	Not configured
SMTP	Not configured
User Registry Synchronization	Not configured

Analytics and licensing

Name	Status
Data Reporter Operator	Ready
IBM Suite License Service	Ready

Other

Name	Status
Apache Kafka	Open to view
Database Replication	Not configured
IBM Watson Studio	Open to view
Red Hat Marketplace	Not configured
Visual Inspection Edge	Not configured

License consumption

1 of 2

	A	B	C	D	E	F	G	H	I	J
1	Date	Token ID	Entitled (Average)	Entitled (Max)	Used (Average)	Used (Max)	Reserved (Average)	Reserved (Max)	Concurrent (Average)	Concurrent (Max)
2	2024-04-02T00:00:00Z	AppPoints	1000	1000	131.4	145	130	130	1.4	15
3	2024-04-03T00:00:00Z	AppPoints	1000	1000	130	130	130	130	0	0
4	2024-04-04T00:00:00Z	AppPoints	1000	1000	133.12	160	130	130	3.12	30
5	2024-04-05T00:00:00Z	AppPoints	1000	1000	134.06	145	130	130	4.06	15
6	2024-04-06T00:00:00Z	AppPoints	1000	1000	130	130	130	130	0	0
7	2024-04-07T00:00:00Z	AppPoints	1000	1000	130	130	130	130	0	0
8	2024-04-08T00:00:00Z	AppPoints	1000	1000	131.56	145	130	130	1.56	15
9	2024-04-09T00:00:00Z	AppPoints	1000	1000	133.43	145	130	130	3.43	15
10	2024-04-10T00:00:00Z	AppPoints	1000	1000	133.12	145	130	130	3.12	15
11	2024-04-11T00:00:00Z	AppPoints	1000	1000	130.78	145	130	130	0.78	15
12	2024-04-12T00:00:00Z	AppPoints	1000	1000	131.25	145	130	130	1.25	15
13	2024-04-13T00:00:00Z	AppPoints	1000	1000	130	130	130	130	0	0
14	2024-04-14T00:00:00Z	AppPoints	1000	1000	131.25	145	130	130	1.25	15
15	2024-04-15T00:00:00Z	AppPoints	1000	1000	134.68	145	130	130	4.68	15
16	2024-04-16T00:00:00Z	AppPoints	1000	1000	132.03	160	130	130	2.03	30
17	2024-04-17T00:00:00Z	AppPoints	1000	1000	135.93	160	130	130	5.93	30
18	2024-04-18T00:00:00Z	AppPoints	1000	1000	137.18	175	130	130	7.18	45
19	2024-04-19T00:00:00Z	AppPoints	1000	1000	131.71	160	130	130	1.71	30
20	2024-04-20T00:00:00Z	AppPoints	1000	1000	130.31	145	130	130	0.31	15
21	2024-04-21T00:00:00Z	AppPoints	1000	1000	132.03	145	130	130	2.03	15
22	2024-04-22T00:00:00Z	AppPoints	1000	1000	136.09	160	130	130	6.09	30
23	2024-04-23T00:00:00Z	AppPoints	1000	1000	135	160	130	130	5	30
24	2024-04-24T00:00:00Z	AppPoints	1000	1000	135.78	145	130	130	5.78	15
25	2024-04-25T00:00:00Z	AppPoints	1000	1000	133.9	145	130	130	3.9	15
26	2024-04-26T00:00:00Z	AppPoints	1000	1000	130.62	145	130	130	0.62	15
27	2024-04-27T00:00:00Z	AppPoints	1000	1000	130.31	145	130	130	0.31	15
28	2024-04-28T00:00:00Z	AppPoints	1000	1000	130	130	130	130	0	0
29	2024-04-29T00:00:00Z	AppPoints	1000	1000	132.5	160	130	130	2.5	30
30	2024-04-30T00:00:00Z	AppPoints	1000	1000	133.75	160	130	130	3.75	30
31	2024-05-01T00:00:00Z	AppPoints	1000	1000	156.14	350	155.2	350	0.93	15

IBM Maximo Application Suite

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Suite administration

Overview

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License consumption

Users

License consumption

Show report forLast month (April 2024)

ReportConfiguration

Overview

Entitled capacity

1,000 AppPoints

Peak usage

350 AppPoints

Average usage

133 AppPoints

Total denials

0 AppPoints

Total overage

0 AppPoints

Report updated

08 May 2024 21:05 UTC

Details

Compliance enforcement

Enabled [View](#)

Session idle timeout

Enabled [View](#)

Entitlements in license

1000 AppPoints included in file.

• 1000 AppPoints will expire on January 15, 2025 12:00 AM UTC

[View license details](#)

Last month (April 2024)

View breakdown

Current year to date

Month	Peak usage	Peak denial	Overage
December	160	0	0
January	160	0	0
February	160	0	0
March	175	0	0
April	385	0	0

License consumption

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IBM Maximo Application Suite

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License consumption

Report Configuration

Session idle timeout

Set the amount of time users can be idle in a web browser before automatically logging out users and closing the session. When users are logged out, their AppPoint cost is returned to the license pool.

Enabled

Idle timeout length in minutes

30

Compliance enforcement

Enforce compliance to prevent users from logging in to Maximo Application Suite when the number of available AppPoints is too low. If compliance is not enforced, users can log in, but overage charges might apply. If other Maximo Application Suite instances use the same IBM Suite License Service, any changes in the compliance enforcement settings also affect these instances. [Learn more](#)

Compliance enforcement

On

Access denial message

AIUC00020: The maximum number of simultaneous users are already logged in. Try logging in again in a little while.

This message is displayed at login if the AppPoints limit is reached.

IBM Suite License Service

The IBM Suite License Service (SLS) stores and manages the Maximo Application Suite license. You upload the license file to the SLS server as part of initial setup.

Status

Ready

Details

[View configuration and detailed status](#)

License key file

The license controls the available features, number of concurrent users, and more.

Account ID	Contract	Country	Customer Name	ICN
IBM AMERICAS 2024 Internal Account	NA	US	IBM Customer Name	Internal_IBM
Purchase Order	Sales Order Number			
IBM_AMERICAS_2024_Internal_5	IBM_AMERICAS_2024_Internal_5			

Entitlements in license

AppPoint amount	Issue date	Expiration date
1000	January 3, 2024 12:00 AM	January 15, 2025 12:00 AM

Replace license file

If you license settings are changed, you must upload the updated license file that reflects these change. If other Maximo Application Suite instances use the same Suite License Service (SLS) operator, the changes in the updated license file affect these instances as well. Download your license file from the IBM Rational License Key Center. [Learn more](#)

User management

The screenshot shows the IBM Maximo Application Suite interface. The top navigation bar includes the text "IBM Maximo Application Suite" and a "Take a tour" button. A left sidebar contains a menu with items: Suite administration, Overview, Catalog, Applications, Workspace, Configurations, License consumption, Users (highlighted), and API keys. The main content area is titled "User management" with a subtitle "Manage your suite users, their entitlements, and access rights and set up identity providers for user authentication." Below this, there are two tabs: "Users" (selected) and "Authentication". A search bar is present above a table. The table has columns: User ID, Username, Entitlement, User sync, and Status. It contains one row for a user named "masadmin" with the status "Active". At the bottom, there is a pagination bar showing "Items per page: 20", "1-1 of 1 items", and "1 of 1 pages".

IBM Maximo Application Suite

Take a tour

Suite administration

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Users

API keys

User management

Manage your suite users, their entitlements, and access rights and set up identity providers for user authentication.

Users Authentication

Search

<input type="checkbox"/>	User ID	Username	Entitlement	User sync	Status
<input type="checkbox"/>	masadmin	masadmin	Premium user, Premium admin	In progress	Active

Items per page: 20 1-1 of 1 items 1 of 1 pages

User management – Create user

IBM Maximo Application Suite

Take a tour

Users /

Create user

Users

Q Search...

New User

1. Identity

Provide the information that is required to identify the user. You can also enter optional user information such as email, phone number, and address.

Display name

MAS Administrator

User ID

masadmin

Primary email

masadmin@localhost.com

Type

Work

Account status

You can choose when to deactivate the account for the user to prevent the user from logging in. To restore user access, you can activate the account.

Deactivate on date

Disabled

Deactivate after user inactivity

Disabled

User details

Given name

MAS

Surname

Administrator

Title

IBM Techzone Demo Account

Contact information

Second email address

Email address

Work

Add email

Phone number

Phone number

Work

Add phone number

Street address

Street address

City

City

Reserved AppPoints

1. Local and time zone support might differ across applications

Not all applications support these preferences and instead use application-specific settings for locale and time zone.

[Learn more about language support](#)

2. Authentication

Select the authentications type and provide login details for the user.

Local

Username

Same as User ID

Custom

Send password by email

Password

Autogenerated

Custom

Password

Maximum password length: 35

Minimum password length: 15

3. Entitlement

Select entitlements to set the application and administration access levels that the user can be granted.

Access Type

Concurrent

Authorized

Application entitlement

Premium (5 Reserved AppPoints)

Administration entitlement

Premium (15 reserved AppPoints)

Compare application entitlements

Compare administration entitlements

4. Application access

Grant the user access to workspaces and applications that they need. After the user is created, you can define the specific permissions for their access in the individual applications.

Suite administration

System configuration

API key management

User management

Application	Required entitlement	Access
IoT	None	Administrator
Manage with Health	Access dependent	No access
Monitor	Limited user	Administrator

Cancel

Create

Cost: 15

User management – Import user

Full explanation of each of the column, refer to the following product documentation link:

<https://www.ibm.com/docs/en/mas-cd/continuous-delivery?topic=access-import-user-template>

IBM Maximo Application Suite

Take a tour

Administration /

Import users

1. Download the .csv file template.

Download .csv template

2. Enter your users' information.

Provide the information that is required to identify the user, and grant application and administration entitlements. [Learn more about adding information to the template.](#)

3. Upload the .csv file.

Upload .csv file

Drag and drop files here or click to upload

4. Optional: Set delimiter and text qualifier

Delimiter

Text qualifier

[illegible]

API Key – Create API Key

IBM Maximo Application Suite

Take a tour

API keys /

Create API key

API keys

Search

New API key
Creation in progress

1. API key details

Provide the API key details by adding a description and specifying the duration that the key is valid.
[Learn more about API keys and expiration.](#)

Description (optional)

IBM Techzone Demo Cluster API Key for 30 days

Authentication token duration

30 days

This authentication token expires on June 5, 2024 9:59 PM.

2. Suite administration access

Set the administration privileges for this API key.

Suite administration privileges

☒ System configuration

☒ User management

☒ API key management

Cancel

Submit

The API key has been created.

View the details of the newly created API key.



Copy the authentication token details
The authentication token details cannot be recovered later. If authentication token details are lost, you must create a new API key to create a token.

Description IBM Techzone Demo Cluster API Key for 30 days

Expiration date Jun 6, 2024

API key a-mas8-uozewrythpfe



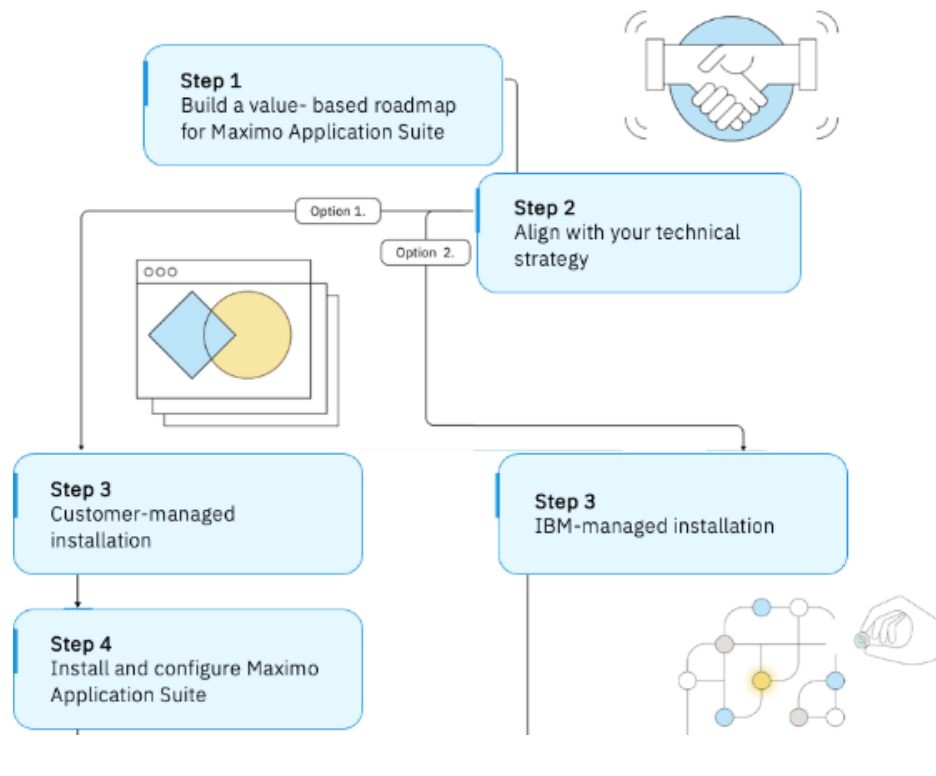
Authentication token RVT4qK2mL0fmx156n6PphJVFtkkybI37LoD9ZQ3



Close

Supporting your Move to MAS

Embark on your journey to IBM Maximo Application Suite with clear steps and expert guidance.



Scan
the QR Code
for more
details



Access
Additional
resources



IBM TechXchange Community

IBM Sustainability →

IBM Asset & Facilities Management

Your destination for peer and expert insights to help unlock the power of data with AI and Asset & Facilities Management to advance your digital reinvention.

Group Home

Discussion 7.8K

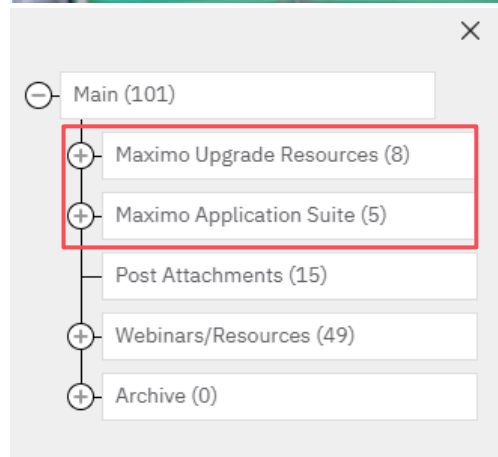
Library 688

Blogs 252

Events 4

Members 8.7K

Join and participate in the Maximo
Community [HERE](#)



Questions ???



IBM