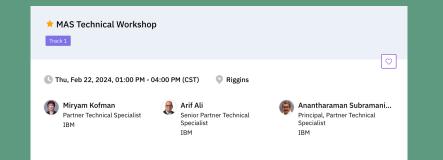
MAS Technical Workshop

Southwest Maximo Users Group 2024

February 21 – 22, 2024

Coppell, TX



Maximo as an enterprise-grade, integrated, containerized suite of software

Why OpenShift?

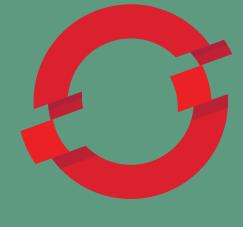
Why choose an enterprise platform?

- Kubernetes
 - do-it-yourself
 - vanilla Kubernetes

- An enterprise Kubernetes platform
 - Advanced security
 - Auditing and logging capabilities
 - Simplified deployment
 - Configuration and management capabilities
 - Enterprise Kubernetes include Red Hat OpenShift, Google Anthos, Amazon EKS, Microsoft Azure Kubernetes Service, VMware Tanzu and others.

Red Hat OpenShift Container Platform

Industry-leading application platform leveraging Kubernetes for containerized applications across public or hybrid cloud, on-premise or edge architecture.



OPENSHIFT

https://www.redhat.com/en/technologies/cloud-computing/openshift/container-platform

OpenShift's Out-of-the-Box Features

- Platform for deploying custom applications.
- Web-based user interface, command line tools, and an API.
- Access to a wide range of services such as databases, messaging, and storage.
 - These services are provided by Red Hat Ecosystem Catalog, which allows third parties to ensure their software is certified for the platform and provides users an easy way to consume the software within the platform.
- Monitoring and logging capabilities. Security and resource isolation.



Datasheet

https://developers.redhat.com/products/openshift/overview

https://www.redhat.com/en/resources/openshift-container-platform-datasheet

OpenShift Platform Support

- Installing on Alibaba
- Installing on AWS
- Installing on Azure
- Installing on Azure Stack
 Hub
- ▶ Installing on GCP
- Installing on IBM Cloud
- Installing on Nutanix
- Installing on bare metal
- Installing on-premise with Assisted Installer
- Installing an on-premise cluster with the Agent-based Installer

</>>

- Installing on a single node
- Deploying installerprovisioned clusters on bare metal
- Installing IBM Cloud Bare Metal (Classic)
- Installing on IBM Z and IBM LinuxONE
- Installing on IBM Power
- Installing on IBM Power
 Virtual Server
- Installing on OpenStack
- Installing on vSphere
- Installing on any platform

At present, OpenShift is officially documented and supported across various cloud-vendor platforms and onpremise infrastructure.

https://docs.openshift.com/container-platform/4.12/welcome/index.html

OpenShift Installation Methods

Assisted Installer	Agent-based Installer	IPI Installer	UPI Installer
Involves creating a cluster interactively by using the redhat.com's web-based user interface.	Agent-based installation is like Assisted Installer, except you locally run web-based user interface. Useful for disconnected environment.	Installer-provisioned infrastructure (IPI) acts as an installation wizard, prompting you for values for the automated installation. Easy to install.	User-provisioned infrastructure (UPI) is like IPI except all the infrastructure is created manually and OpenShift is installed on top. Complex; takes some time to set up.

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

Requirements for OpenShift: Pull secret

\leftrightarrow \rightarrow C \bullet console.redhat.com/opensh	nift/downloa	ads 🧲			🖻 🌣 生 🖬 😩 :			
Red Hat				Preview off	Arif Ali 👻			
Services - Q Search for services	vices							
OpenShift > Downloads					* -			
OpenShift	>	Butane config transpiler CLI		- 25 54	^			
Overview			Windows -	x86_64	▼ Download			
Dashboard	>	CoreOS Installer CLI	Linux •	x86_64	▼ Download			
Clusters	>	Cloud Credential Operator CLI utility (ccoctl)	Linux 🗸	x86_64	✓ Download			
Learning Resources								
Releases	Toke	ns			3			
Developer Sandbox	>	Pull secret		U	Copy Download			
Downloads				a				
A Red Hat Insights	>	OpenShift Cluster Manager API Token			View API token >			
Advisor > 🗸	-				-			

OpenShift topology

OpenShift is generally supported in 2 topologies

Highly available OpenShift Container Platform cluster (HA):

> Three controlplane (master) nodes with any number of worker nodes.

A single-node OpenShift Container Platform (SNO – No HA):

A node that is both a control-plane (master) and worker.

A three-node OpenShift Container Platform (No HA):

> A compact cluster that has three master nodes that are also worker nodes.



</>





https://docs.openshift.com/container-platform/4.12/installing/installing_with_agent_based_installer/preparing-to-install-with-agent-based-installer.html#agent-based-installer-workflow

Platforms/vendors

Software As A Service (SaaS / Managed-Hosted	Self-managed (on cloud or on-prem or hybrid)
Maximo/MAS	Maximo/MAS
OpenShift	OpenShift

This page intentionally left blank.

Installing OpenShift using Red Hat's installerprovisioned infrastructure method



Setting up Red Hat OpenShift Container Platform (RHOCP/OCP) involves various methods, and one of them is the installerprovisioned infrastructure (IPI) method. This method uses a tool called openshift-install to help install OCP on different systems like bare metal hardware or virtual servers.



Requirements for MAS: AppPoints License & Entitlement key

IBM Maximo Application Suite license file 🖉

Access the IBM License Key Center to get the license key of IBM Maximo Application Suite. From **Get Keys IBM App Point Suites**, select IBM MAXIMO APPLICATION SUITE AppPOINT LIC and enter the following information on the next page:

Obtaining your IBM Entitlement key from the IBM Entitled Registry

Last Updated: 2024-01-11

The IBM Entitled Registry key is used during the installation to download the container images for the Suite and its applications from the IBM Entitled Registry. It is also required to install some prerequisites. Download this key from the IBM Container Library.

Complete this task to log in to the IBM Container Library. To verify that your entitlement key is valid for Maximo[®] Application Suite.

Procedure

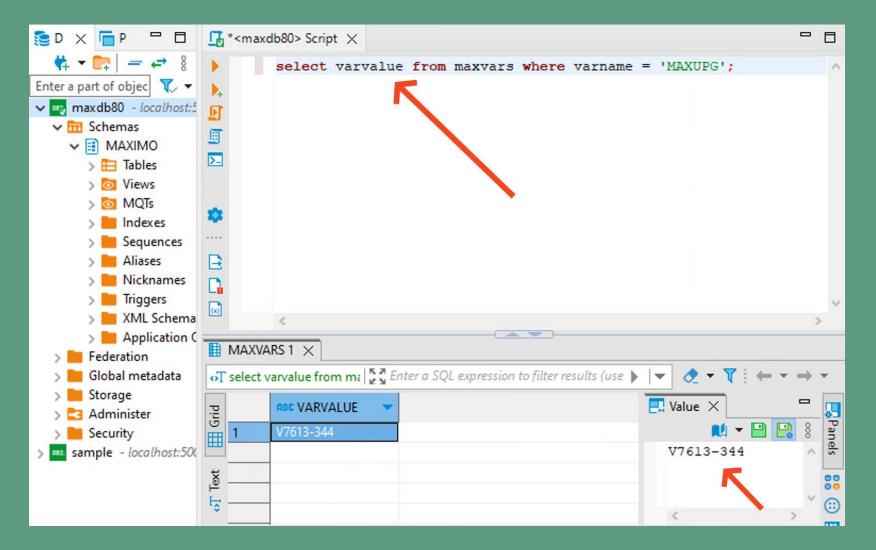
1. Log in to the IBM Container Library with a user ID that has software download rights for your company's entitlement.

https://www.ibm.com/docs/en/mas-cd/continuous-delivery?topic=cloud-obtaining-your-entitlement-key-from-entitled-registry https://www.ibm.com/docs/en/mas-cd/continuous-delivery?topic=cli-prerequisites-installing

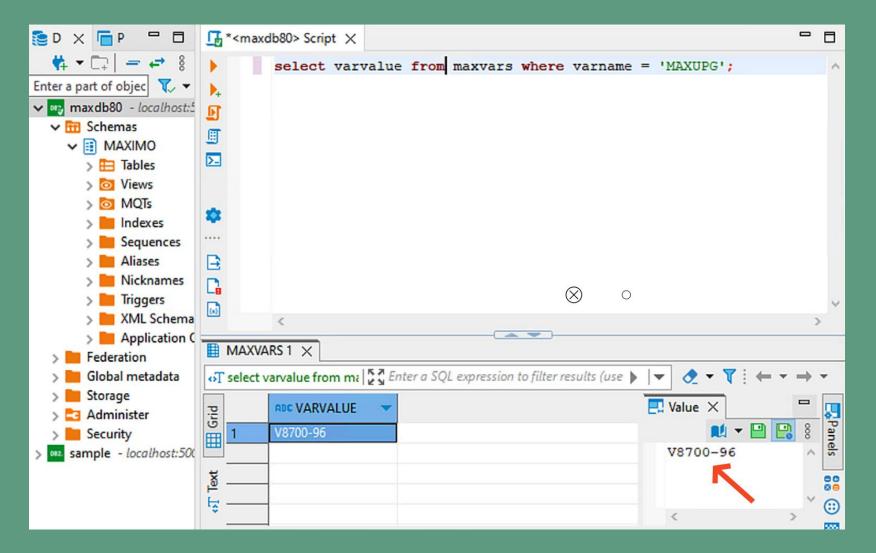
Upgrading from Maximo Asset Management to IBM Maximo Manage

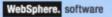
🟠 🗮 Welcome, M	AXADMIN			MAXADMIN	v 🗐 🖉) [→ @	IBM				
Find Navigation Item	Administration Inventory										
Go To Applications											
My Recent Applications	Quick Insert	≣	IBM Maximo Application Suite Manage				Та	ke a tour	₩	? @	
Administration	New Person	Q									
Analytics	New User	奋	Administration Inventory ~								
Assets		J								53 🕸 🕇	20
Building Information Mo	Security, Users and Groups	۴	Quick Insert	Bulletin Board	7 Filter > Q	2×					- 1
Change	Users	հՈ	New Person	To filter for specific red	cords, specify data in th	he filter fields a	and then press th	ne Enter key.			_
Contracts	Security Groups People	ୖ	New User	Subject	Message	Post D	ate	Expirat	on Date	Viewed	- 1
Financial	Person Groups	*								Ν	
IT Infrastructure		5	Security, Users and Groups	There are current	ly no bulletin board mes	ssages to view.					- 1
Integration	Workflow Configuration	E2									- 1
Inventory	Workflow Designer		Users	Inbox / Assignments							
Planning	Roles	₽ ⊗	Security Groups	THEOR / Assignments							
Preventive Maintenance	Actions Communication Templates		People	No Assignments f	ound for MAXADMIN						
Purchasing	Workflow Administration	 &	Person Groups	No Assignments							
Release	Escalations	Ē									
Security		Ø	Workflow Configuration	KPI Graph							
			Workflow Designer	Last Run: 3/11/11 9:30 A Current User Sessions	М						Update
		යි	Roles	400 500			Related KPI	Status	KPI	Actual Target	
	Red Hat	۵	Actions	300	700 800		Ð	-	Current User Sessions	1 500	-499
		Ë	Communication Templates	100 -	- 900						
	OPENSH	IFT									
	Container Platfo	rm									

Your Maximo Database: Before



Your Maximo Database: After







WebSphere Integrated Solutions Console



IBM.

Licensed Materials - Property of IBM IBM, the IBM logo, ibm.com and We International Business Machines Cor product and service names might ba IBM trademarks is available on the V

Log in to your account

Username *

Password *

Log in



Welcome to Red Hat OpenShift

Maximo 7.x \rightarrow Manage 8.x

What's new in Maximo Manage

Last Updated: 2024-01-02

Learn more about what's new and changed in Maximo Manage.

- What's new in Maximo Manage 8.7
 Learn more about what's new and changed in Maximo Manage.
- What's new in Maximo Manage 8.6
 Learn more about what's new and changed in Maximo Manage.
- What's new in Maximo Manage 8.5
 Learn more about what's new and changed in Maximo Manage.
- What's new in Maximo Manage 8.4
 Learn more about what's new and changed in Maximo Manage.
- What's new in Maximo Manage 8.3
 Learn more about what's new and changed in Maximo Manage.
- What's new in Maximo Manage 8.2
 Learn more about what's new and changed in Maximo Manage.
- What's new in Maximo Manage 8.1
 Learn more about what's new and changed in Maximo Manage.
- What's new in Maximo Manage 8.0
 Learn more about what's new and changed in Maximo Manage.

Maximo Mobile

Learn more about what's new and changed in Maximo Mobile.

- What's new in Maximo Mobile 8.11

Learn more about what's new and changed in Maximo Mobile 8.11.

- What's new in Maximo Mobile 8.10

Learn more about what's new and changed in Maximo Mobile 8.10.

- What's new in Maximo Mobile 8.9

Learn more about what's new and changed in Maximo Mobile 8.9.

- What's new in Maximo Mobile 8.8

Learn more about what's new and changed in Maximo Mobile 8.8.

Arif Ali aali@us.ibm.com

Technical Workshop (Interactive)

Intro: Platforms in use

Red Hat OpenShift Container Platform

Industry-leading application platform leveraging Kubernetes for containerized applications across public or hybrid cloud, on-premise or edge architecture.

VMware vSphere

Leading server virtualization platform designed for data center consolidation and improved application availability.

IBM Technology Zone (TechZone)

TechZone provides technical "show me" content and environments together in one place. Users of TechZone can find and reserve a wide range of live environments across infrastructures and platforms.







https://www.redhat.com/en/technologies/cloud-computing/openshift/container-platform

Outline

- 1. Review Maximo 7.x
- 2. Install OpenShift
- 3. Prepare customization archive
- 4. Prepare Maximo database for migration
- 5. Upgrade Maximo 7.x to IBM Maximo Manage 8.x

Two questions, quick anonymous survey



https://wkf.ms/49fECyn

Thank you!

