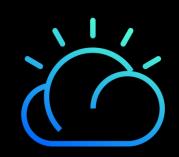
Maximo EAM to MAS



OpenShift Platform Options

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A Modernized Software Product Requires a Modern Platform

Example: Maximo Application Suite on Red Hat OpenShift

Manage

Intelligent Asset Management



Monitor

Monitor and Detect **Anomalies**



Health

360 View of Assets



Predict

Predictive Failures



Visual Inspection

AI-Powered Insights



Schedule

Schedule Work and Resources



Mobile

Technician Work Execution



Assist

Prescriptive Assistance



Control

ITIL Based Technology Service Management



IBM Cloud Pak for Data | IBM Watson Studio | IBM Watson ML

IBM Cloud Security and Compliance Center Workload Protection



Infrastructure Independent Common Operating Environment

















We must upgrade to MAS but have challenges:

We have databases and applications onprem that must integrate with MAS

We don't want to migrate everything to cloud

We have regulatory or latency requirements requiring data to stay on-prem

Not all data can go to the cloud. Regulatory or network latency requirements force application to stay onprem



Need to deploy and be in production quickly

We don't have months to spend on building and testing a new containers platform

No OpenShift Skills (or not enough)

Container skills are in high demand, tough to find (especially in small markets) and can be very expensive







Common Deployment Options

Deployment	Procure	Provision & Operate	Client Benefits
On Premises Customer Managed	Client purchases software from IBM, partner or ISV Client provides data center and infrastructure	Client provisions, manages, and operates full stack	Maximum operational flexibility
SaaS ISV Managed	Client purchases software as a service including infrastructure, hosting, platform and software.	Client logs in and uses immediately	 Reduced time-to-value No data center, hosting, infrastructure or maintenance Allows clients to focus on business priorities
Hyperscalers Customer Managed Software with Optional Managed OpenShift Custom Managed Service	BYOL or Marketplace Software Purchase Infrastructure-as-a-service by cloud provider Optional platform-as-a-service provided by cloud provider Client procures partial or full stack service from a managed service provider	Provision laaS and/or OpenShift on Hyperscalers' cloud Client manages and operates both software and infrastructure with option for managed OpenShift platform MSP provisions, manages and operates Client's partial or full stack environment on prem, in a co-location facility, or in any	Simplifies procurement and deployment Client can focus on application and not platform OpenShift platform as a service does not require client labor or skills for management Option for full stack management Allows clients to focus on business priorities
On Premises IBM Cloud Satellite w/ Managed OpenShift Service	Client purchases software from IBM, partner or ISV Client provides infrastructure or partner provided Platform services including IBM Cloud Satellite and managed Red Hat OpenShift via subscription	Client provisions and manages infrastructure & application, IBM manages platform including OpenShift & SCC Workload Protection with optional installation services	Can leverage IBM Cloud Satellite and ROKS for speed and lower costs IBM manages the OpenShift platform across on prem and hyperscalers in a hybrid or multi cloud topology Lower cost than DIY Cloud benefits in client data center Consistent OpenShift operational
Exclusive Exclusive			experience across hybrid and multi cloud • Easily identify vulnerabilities, check compliance, block runtime threats and respond to incidents faster



Because we use **Red Hat OpenShift on IBM Cloud**, we spend **less** time managing infrastructure, and we have more time to listen to business needs and develop new applications to accommodate them."



First to market for 4 vears and counting!

TEKTON

Tekton

Create

Kubernetes-native

CI/CD pipelines

with maximum

speed and

flexibility.

Herwig Bogaert

Senior System Engineer, meemoo

Fully automated. As-a-service. Extend anywhere.

Key Capabilities



OpenShift experience built on Kubernetes

Use the OpenShift tools and APIs you already know for a single. consistent experience, even when working across hybrid environments or different cloud providers.



Heightened cluster and app security

IBM provides security features to protect your cluster infrastructure, isolate your compute resources, encrypt data, and ensure security compliance in your container deployments. Further, OpenShift sets up strict Security Context Constraints for greater pod security by default.



Worldwide, continuous availability

Deploy and scale workloads across the globe in all IBM Cloud multizone regions. OpenShift clusters include a managed master that is automatically spread across zones within the region for high availability.



Integrated OpenShift catalog

Quickly set up a CI/CD with Jenkins or deploy a variety of apps in a guided experience that's fully integrated into your OpenShift cluster.



Innovation with watsonx, Cloud Paks, & the IBM Cloud platform

Easily integrate generative AI with Watson APIs to extend the power of your apps. Access the IBM middleware in IBM Cloud Paks from within the scalable public cloud. You also get built-in services for monitoring, logging, load-balancing, storage, and security to help you manage an app's lifecycle.

Up to 99.99% SLA

Secure by default

with Hyper Protect Crypto Services, FIPS 140-2 Level 4 Certified

Highly-compliant

Cluster Autoscaler

Worldwide SZRs & MZRs & extend on-prem, at the edge, or public cloud environments with IBM Cloud Satellite

Workload Security & Compliance managed with SCC Workload Protection

Seamless GPU support Public Slack workspace



























24x7 SRE global support

Keep Your Own Key (KYOK)



Add-on

Capabilities

OpenShift Data

Manage data, stay

everywhere, handle

application needs.

Foundation

consistent





OpenShift AI

manage AI-

applications.

enabled

Build, deploy, and















OpenShift Day 2 Responsibilities

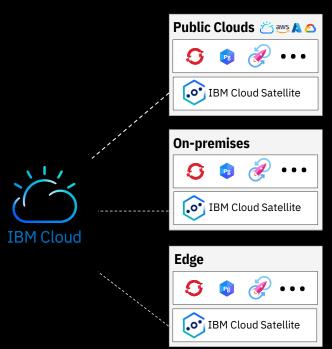
IBM enables
you to focus
on your your
core
business, not
platform
management

Responsibilities:

- Customer
- O IBM
- Shared

	DIY	With ROKS
Create and configure OpenShift clusters, including geographic deployment options		•
Integrate CI/CD pipeline to appropriate endpoints & manage your applications		•
Automated provisioning and configuration of Infrastructure (compute, network and storage)	•	•
Automated installation and configuration of OpenShift , including HA cross zone configuration	•	•
Automatic upgrades of all components (operating system, OpenShift components, and in cluster services)		•
Security patch management for OS and OpenShift		•
Automatic failure recovery for OpenShift components and worker nodes		•
Automatic scaling of OpenShift configuration		•
Automatic backups of core OpenShift ETCD data		•
Built in integration with cloud platform - monitoring, logging, KeyProtect, IAM, ActivityTracker, Storage, COS, Security Advisor, Service Catalog, Container Registry and Vulnerability Advisor	•	•
Built in Load Balancer, VPN, Proxy, Network edge nodes, Private Clusters and VPC capabilities		•
Built-in Security including image signing , image deployment enforcement, and hardware trust		•
24/7 global SRE team to maintain the health of the environment and help with OpenShift	•	•
Global SRE has deep experience and skill in IBM Cloud Infrastructure, Kubernetes and OpenShift, resulting in much faster problem resolution		•
Automatic compliance for your OpenShift environment (HIPAA, PCI, SOC1, SOC2, SOC3, ISO)		•
Capacity expansion through a single click		•
Automatic multi-zone deployment in MZRs , including integration with CIS to do cross zone traffic routing		•
Automatic Operating System performance tuning and security hardening		•

Deployment Options with IBM Cloud Satellite



IBM Cloud Satellite

Workloads located where you need them

Location

Client-controlled infrastructure outside of IBM Cloud data centers

Client manages their hosts (infrastructure) within a location

Flexibility

Run MAS where it makes sense

For regulated workloads, sovereignty & data gravity concerns, migrations, edge platforms, low latency

Flexible infrastructure options including bring your own – Install on HyperV, Vmware, bare metal, any cloud, integrated appliances

Control

Auditable inventory of all network connections and traffic

Central observability (monitoring, security & compliance posture management from a single pane of glass with SCC Workload Protection)

IBM Cloud for Financial Services Validated

Satellite Reference Architecture for FS Cloud

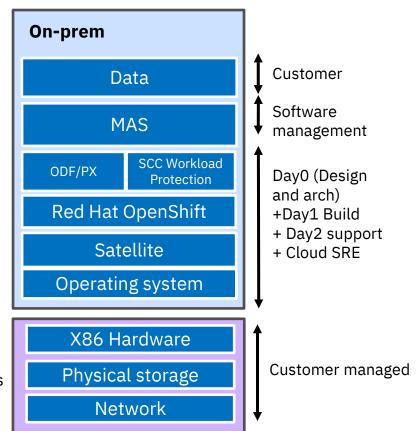
Shared responsibility model for end-user support

IBM:

- Provides support for OS and above
- Includes lifecycle management of managed platform aaS
 - Red Hat OpenShift
 - Satellite
 - Storage Red Hat OpenShift Data Foundation (ODF)
- IBM Cloud SRE support to help debug platform related problems
- Maximo software support
- **Optional** Full stack build and Day2 support from OS to MAS software as single point of support avoiding silos (IBM Consulting)
- Optional Architectural services for DR and multi-cluster/location design(Expert labs)

Customer:

- Owns and manages infrastructure
 - Hardware
 - Storage
 - Network
- Owns and manages application integration to other backend systems
- Respond to end user issues and initiate troubleshooting
 - Work with IBM Cloud SRE teams to debug platform issues



MAS Deployment Decisions

On-Premises or Cloud/Hosted

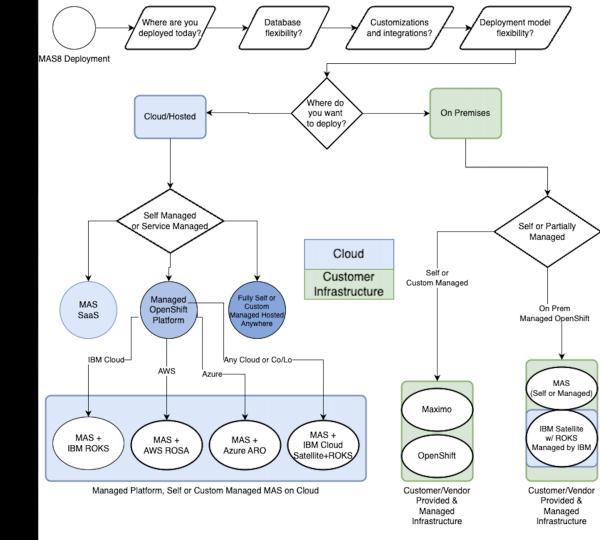
Fully managed, partially managed, managed OpenShift

Hybrid Cloud or Multi Cloud

IBM Cloud Satellite with ROKS can:

Bring managed OpenShift to your data center and/or other clouds with IBM Cloud Satellite

Simplify Hybrid and/or Multi Cloud deploy and management complexity including single pane management



Example Pricing: MAS on Satellite and/or ROKS — T-Shirt Sized Pricing

Affordable and a fraction of the cost of a single OpenShift FTE

st/month*	Nodes	OCP Bundled with MAS	ROKS cost/month *(approx) - BYOL for OCP (AppPoints or Customer	
			Provided)	
959.17	4-8x64 3-8x64	Yes	\$ 3,014.90	Included
084.88		Yes	\$ 3,882.50	Included
550.61		Yes	\$ 9,314.80	Included
084.	.88	3-8x64 3-16x128 3-8x64 7-16x128	3-8x64 3-16x128 3-8x64 7-16x128 Yes	3-8x64 88 3-16x128 Yes \$ 3,882.50 7-16x128 Yes \$ 9,314.80

- OCP Entitlements with MAS leveraged, ROKS provided OCP license charges are optional

Why IBM Cloud Satellite and ROKS for Modernized Apps



- Speed Reduce your app migration by months versus DIY OpenShift
- Skills No OpenShift skills or not enough.
 Easily address the OpenShift skills
 requirement, you focus on your application
- Save \$\$\$ − Over 70% savings versus DIY deployment and management of OpenShift, use bundled OpenShift entitlements with MAS

Why ROKS with IBM Cloud Satellite?

...all the ROKS benefits anywhere, plus:

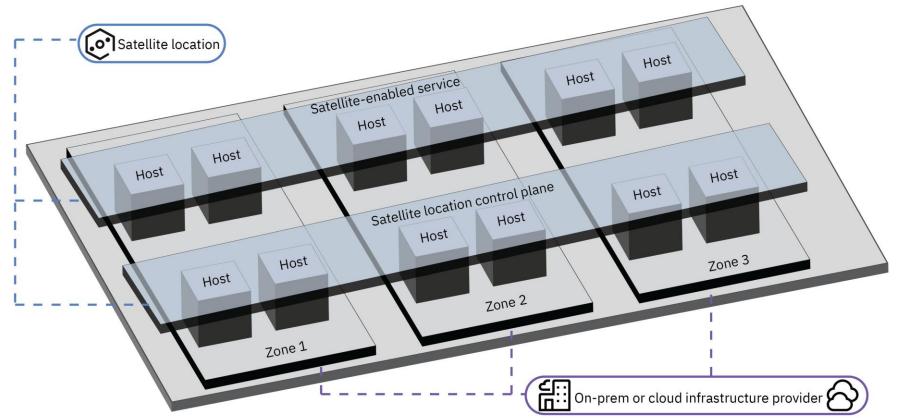
- Stay on prem Regulatory requirements, latency, investment, etc. On-prem OpenShift management by IBM.
- ✓ Keep your app Database As-Is No migration required for external databases
- We bring the cloud to you − Speed, agility, lower costs... all in your data center or ANYWHERE: hybrid cloud, multi-cloud

Focus on MAS application and your business while IBM reduces your OpenShift load and Security & Compliance management efforts

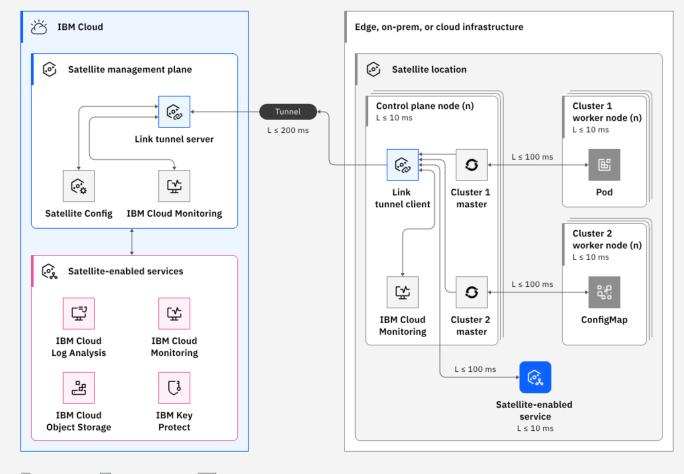


Backup

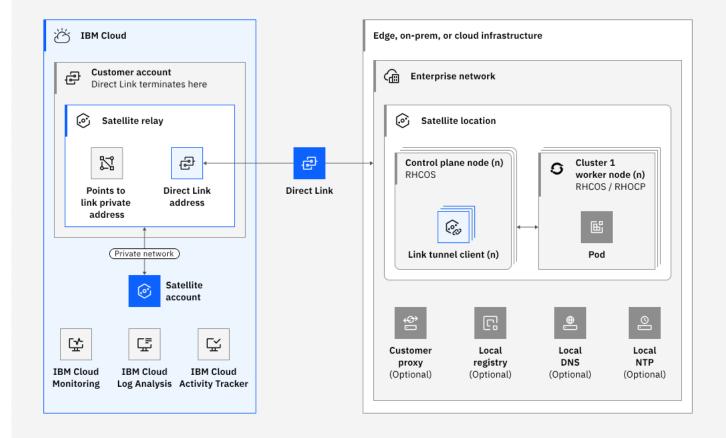
Satellite Architecture Multi-Zone HA Architecture Built on Kubernetes



Satellite Architecture



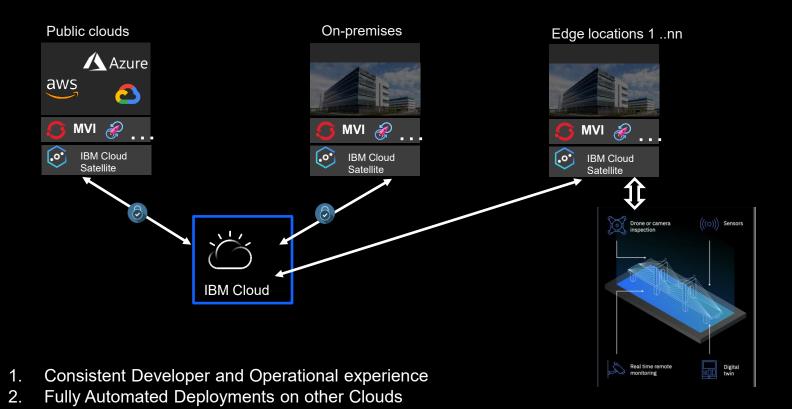
Satellite Architecture with Direct Link



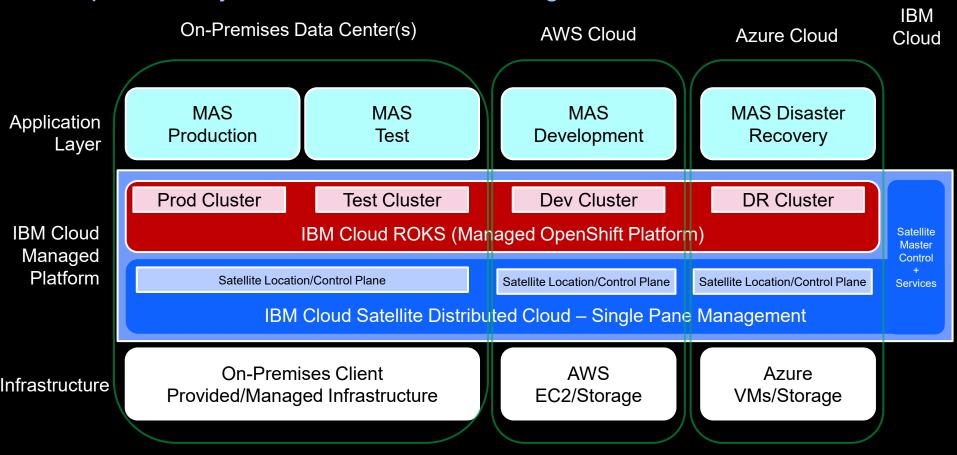
☐ Logical node ☐ Prescribed node ☐ Multiple instances, where n ≥ 1

RHCOS = Red Hat Enterprise Linux CoreOS RHOCP = Red Hat OpenShift Container Platform

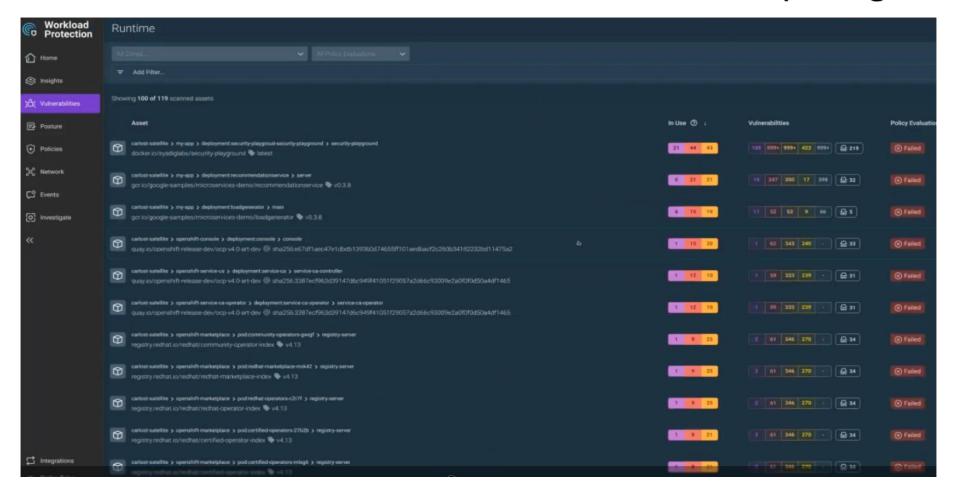
Consistent Architecture and tools across Hybrid multi-cloud and Edge locations



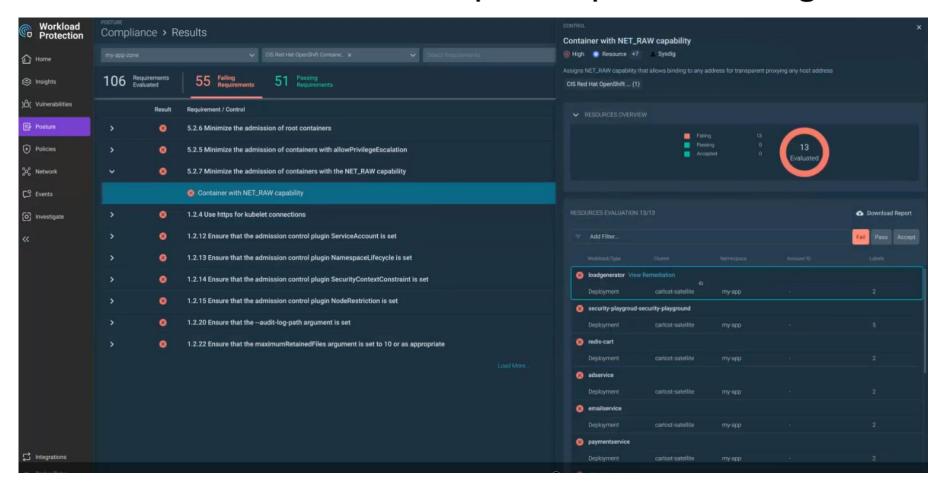
Example MAS Hybrid and Multi-Cloud Management



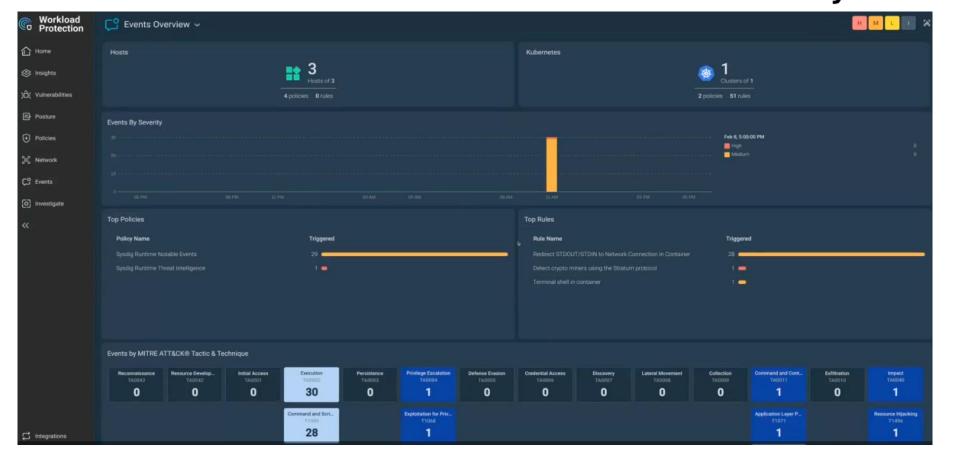
SCC Workload Protection Runtime vulnerabilities reporting



SCC Workload Protection Compliance posture management



SCC Workload Protection Events overview/summary



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