

IBM Cloud Pak for Multicloud Management with Version 2.0 Updates



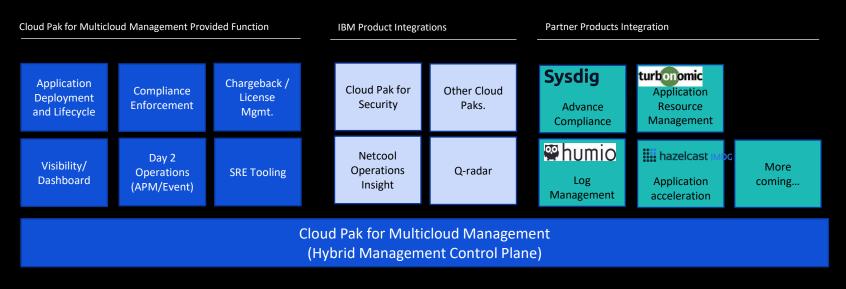
### **IBM IT Management**

Incident Hybrid Governance & Current use cases Cost Resolution & **Application** Compliance Management **Outage Avoidance Deployment** AI & Automation Infused with Delivered via Watson AlOps **Cloud Pak for Multi-Cloud Management** Strong partner ecosystem Enriched by Sysdig hazelcast humio turbonomic

#### Cloud Pak for Multicloud Management is a Hybrid Multicloud management control plane



Cloud Pak for Multicloud Management is designed as a platform allowing partners to plugin in using public APIs.

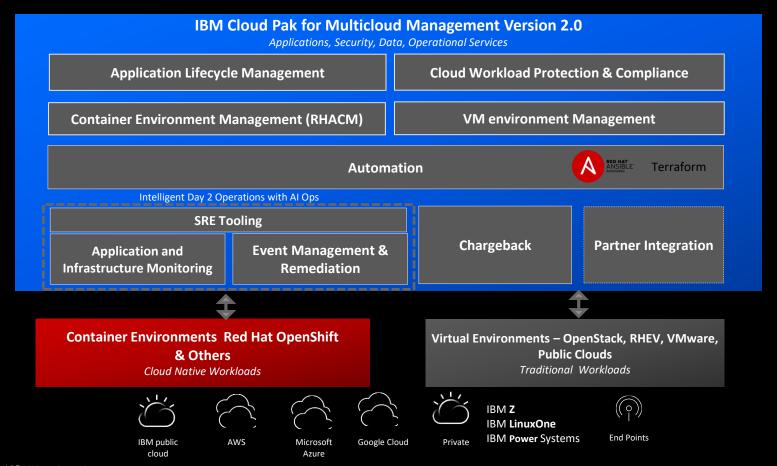


#### **Kubernetes & Virtual Machines**



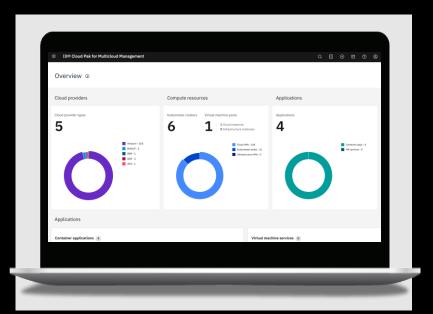
Azure

## **Overall Solution Capability**





# Cloud Pak for Multicloud Management



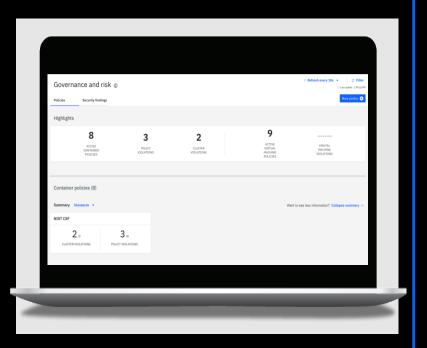
Intelligent Governance, Risk, Compliance

Intelligent Cost and Asset

Management

Intelligent Hybrid Application Management

## Intelligent Compliance and Governance for Hybrid Cloud Management

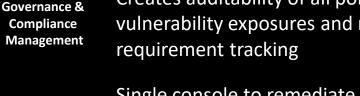


Enforces policies and ensure compliance across hybrid infrastructures and applications

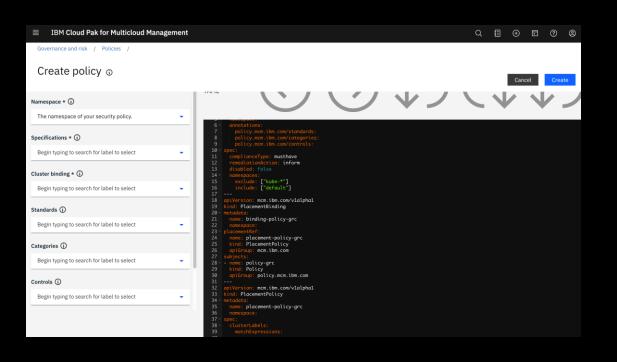
Scans and monitors workloads continuously for vulnerabilities and mutations

Creates auditability of all policies, known vulnerability exposures and regulatory

Single console to remediate GRC vulnerabilities regardless of deployment model

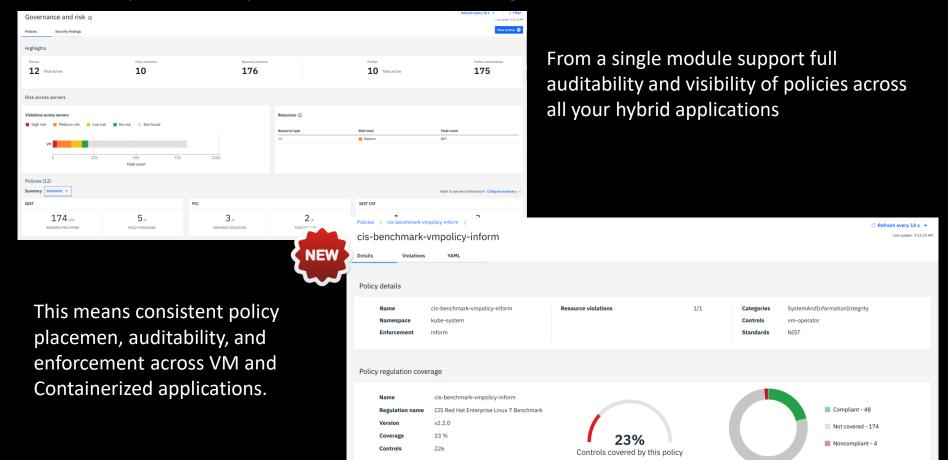


#### Unified Policy Creation and Enforcement in a Hybrid Cloud World

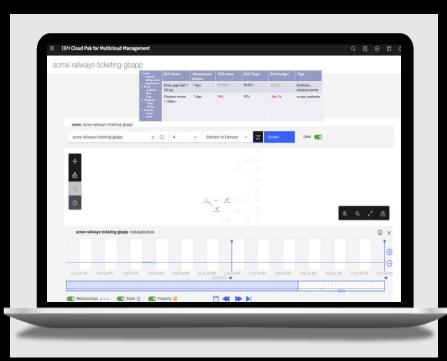


Build policies with pre-built configurations to accelerate a repeatable hybrid governance model. Group policies using labels to rapidly measure regulatory compliance posture for requirements such as HIPAA, FISMA, NIST and PCI

## Unified Hybrid Policy Enforcement & Management



#### Accelerate SREs with Tooling for Hybrid Applications





**Declarative Model for SLOs** – Natively build, monitor and enforce SLOs, error budgetsT define SLO targets, error budgets, and monitor SLO status continuously with synthetic testing natively available. By using this feature, the SRE can create and ensure adherence to the objectives that are jointly determined with development.

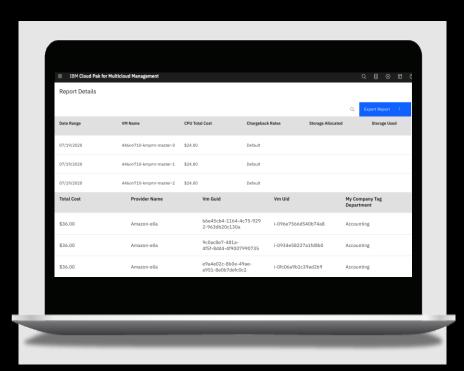


#### **Bastion Control** –

- Enables a secure connection to all your servers, even those behind a firewall. This results in a single unified console bringing together all regions and all applications for full visibility across deployment models and regions.
- Enables session replay that drives audit capability, compliance, and SRE postmortem reviews. This allows SRE teams to have a single source of truth to review and provide feedback for future incident response and resolution.

**ChatOps** – Accelerate remediation actions for incidents and drive automation by connecting to your preferred tools such as PagerDuty and Slack, directly from the Cloud Pak for Multicloud Management

#### Intelligent Cost And Asset Management



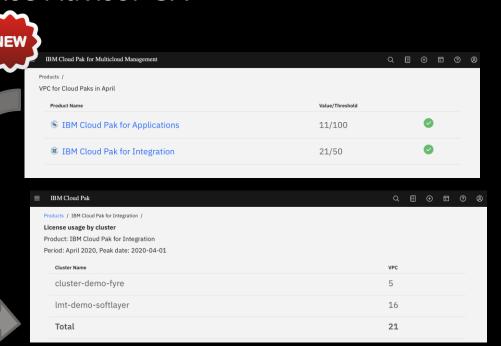
Chargeback - have all been enhanced with new visibility features to find resources and more detailed report generation/exporting.

**Chargeback generation -** steps have been simplified to 3 key steps:

- Define rate cards
- Assign rate cards
- Generate the chargeback report.

**Usage Quotas**– Build governance to resource usage by generating enforceable limitations

#### License Advisor GA

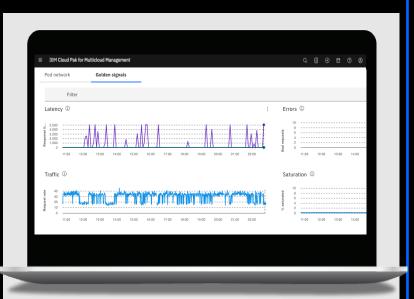


**License Advisor** supports aggregation of license data across hybrid, multicloud environments including management of IBM License usage.

Operators now have a detailed view of license usage per Kubernetes cluster as well as bundled product utilization.

License Advisor gathers source of metered license usage data from ILMT and License Service.

#### Application Modernization and Management



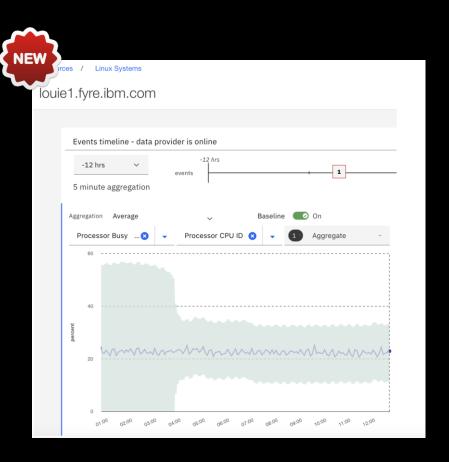


Deploy and move hybrid applications seamlessly across cloud deployments

Automatic incident routing, bringing together DevSecOps teams to resolve complex faults fast

Proactively prevent application bottlenecks and performance issues with real time metrics

#### Intelligent Alert Management: Predictive Insights



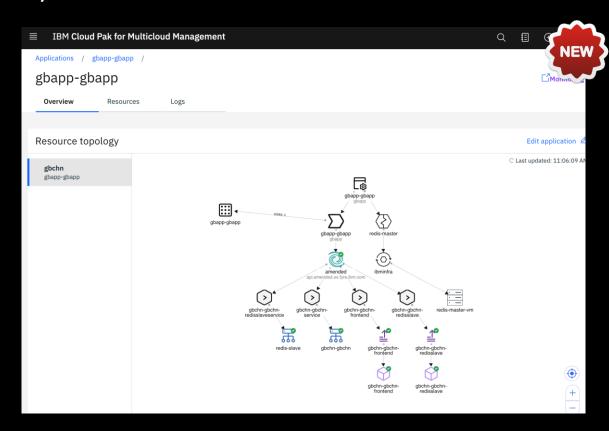
Real time performance analytics with anomaly detection to set increasingly more accurate dynamic thresholds leveraging machine learning, rather than manually managing thresholds

#### Hybrid Application and Discovery Model

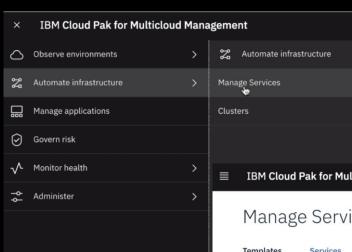
Hybrid Application Discovery Model allows operators to onboard and manage an application built from both cloud native and a traditional deployment environment.

This model creates impactful capabilities for Kubernetes and VM-based deployments:

- Dynamically move your containerized workload to different Clusters with a simple change to placement policy
- Get visibility to Application topology distributed across your VMs and Cloud
- Get visibility into VM status from Topology



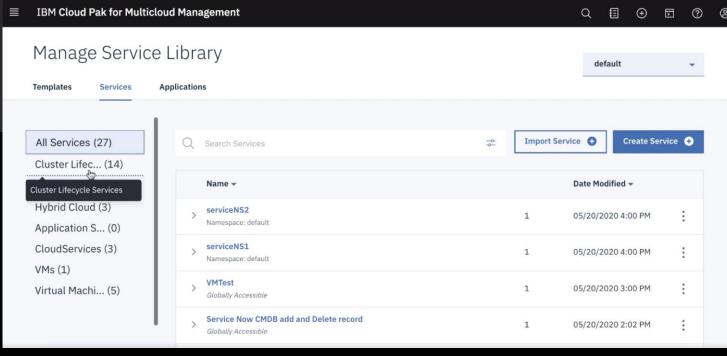
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#### **Self-Service Capabilities with a Service Library**

Additional self-service capabilities in this release allow developers to provision infrastructure and application components from a predefined service flow.







## Operator based install: Simplified Install & Upgrade

- 22 Operators (Some in Go, Many in Helm)
- Helm charts are wrapped in operators
- Constant health checks of every system component.
- Deployment of one Cloud Pak for Multicloud Management operator by the user and the rest install automatically.



Go Operators allows developers to write the operational logic for more flexibility to customize



Helm is used as a chart manager and supports install and upgrades

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## Watson AlOps – Solution Overview

Input

**AIOps** 

Data

to

#### **Understand your** environment

#### **Unstructured Data**

- Logs
- Tickets
- Future: chats. collaboration

#### **Structured Data**



- Combine signals across data channels
- Unstructured data analysis to detect hidden anomalies and identify similar incidents
- Filter and triage to support and streamline efforts

# **Improved Incident**

✓ Insights, advice and next-bestactions to accelerate workflow

Send

Insights

to SREs

- ✓ Delivered in ChatOps for teams to act on in real-time
- ✓ Integration to external tools & dashboards for stakeholders and reporting

- Topology
- Metrics
- **Events**
- Alerts

# Thank you