

Connect

The Business Value of Unified Resilience

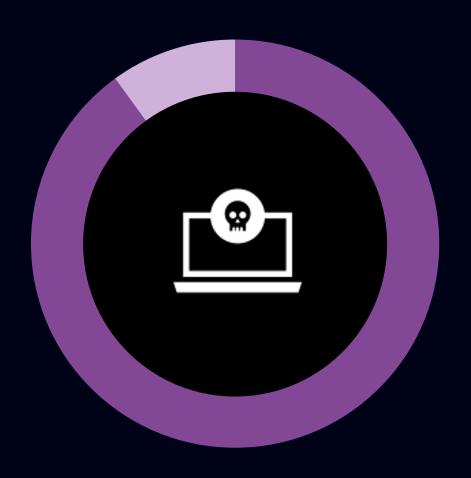
Alessandro Palagiano | Sales Engineer, Commvault





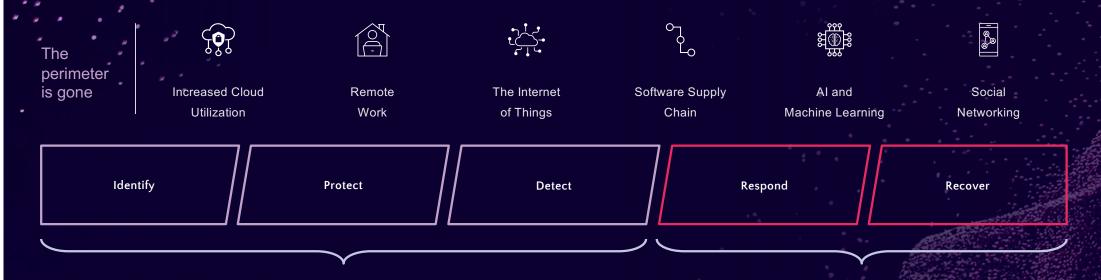


90% of organizations report cyber resiliency is impacted by fractured tools*





Modern Cyber Resilience Landscape



Companies have focused here. But... Security is blind to unknowns. Administrators must embrace the breach. The next fight is here...Recovery readiness and testing enables businesses to be cyber resilient.

The breaches keep coming.

83% of organizations studied have reported a material breach, with 50% happening in the last year.





You can't trust complex, siloed data ecosystems

Commvault Cloud delivers the cleanest, fastest, most complete cyber recovery. Unified resilience that spans across Kubernetes, OpenShift VMs, cloud-native applications, and Al data pipelines. Simplify your resilience and gain confidence you'll be able to recover when disaster strikes.



Commvault Kubernetes Protection



Full cluster protection

Commvault allows creation of a Full cluster Application group.

Dynamic discovery and protection of <u>all</u> <u>namespaces</u> (including system namespaces) at backup runtime.

Full-cluster protection is the **default** protection method for the default application group, including existing default app groups



Namespace protection

Commvault protects **entire namespaces** (vs. only detected apps)

Namespace protection protects all^ API resources or objects contained within a namespace.

Namespace-level protection is the default protection method when selecting a namespace



ETCD & SSL cert protection

Commvault protects the ETCD keyvalue backing store and SSL certs for Kubernetes.

Commvault utilizes **etcdctl** to create an ETCD snapshot file, then copies this file to the Commvault content store.

Commvault also protects some of the SSL certificates for the control plane node the etcd backup runs on



Broader ecosystem support





















Certified Kubernetes - Distribution

Certified Kubernetes - Distribution

Colored Colo

CNCF Cloud Native Interactive Landscape



Native OpenShift Protection

UNIFIED PROTECTION FOR CONTAINERS AND VMS

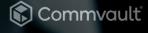
- Manage OpenShift Virtualization VMs and Kubernetes workloads through one policy model (application group)
- Auto-discover workloads (containers, PVCs, VMs) in OpenShift clusters
- Protect mixed environments without juggling multiple backup tools

FLEXIBLE BACKUP AND RESTORE OPTIONS

- Incremental backups by default (automatic full backups if no incremental backups exist)
- In-place restores (same cluster, same namespace)
- Out-of-place restores (different cluster/namespace, with StorageClass mapping)
- VM configuration preserved (CPU, Memory, hostname, power-on option)

ADVANCED RESTORE CONTROLS

- Apply restore modifiers during restore (change namespace, labels, StorageClass)
- Cross-cluster recovery for DR, migration, or testing/development scenarios
- Granular exclusion rules applicable to specific workloads, VMs, PVCs, or resource types



Streamline VM Protection in OpenShift Virtualization

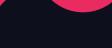


PROTECT

Maintain agility & regulatory control by treating VMs and containers on one interface, one policy model

SIMPLIFY

Gradually migrate VMware VMs into OpenShift, while providing production-grade backup and recovery.



AUTOMATE

Discovery, snapshotting, and policy-driven backups – including configuration data through API integration



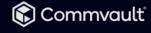
Commvault provides a unified recovery framework across traditional and cloud-native workloads





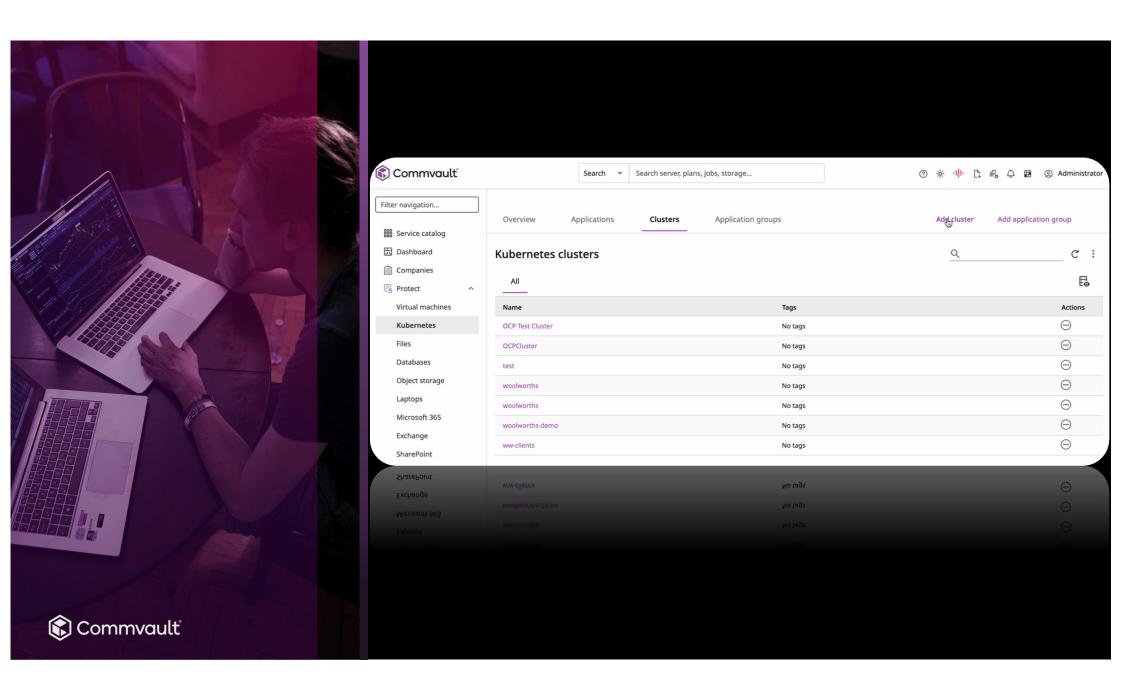
Unified Interface for Multi-Cloud & Hybrid Deployments



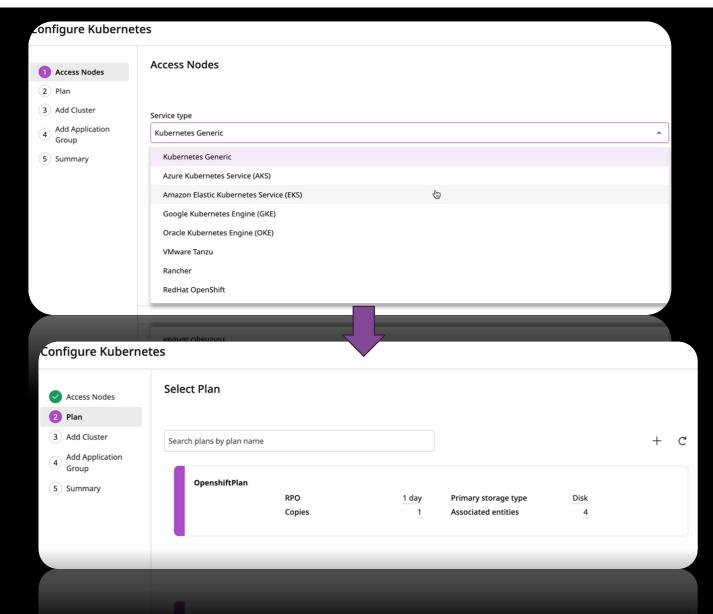


Walkthrough Sample Screenshots

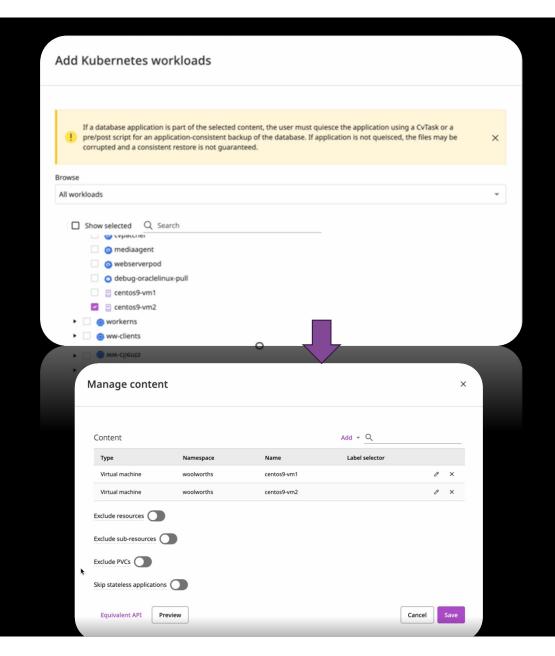














Configure Kubernetes

Access Nodes

🕜 Plan

Add Cluster

Add Application
Group

5 Summary

Summary

Congratulations! You have successfully configured a new Kubernetes cluster and selected your applications for protection. A backup job will be started in accordance with your selected backup plan.

Kubernetes cluster woolworths-demotest

Application group name woolworths_appgroup_demotest

Plan name OpenshiftPlan

Schedule 1 day

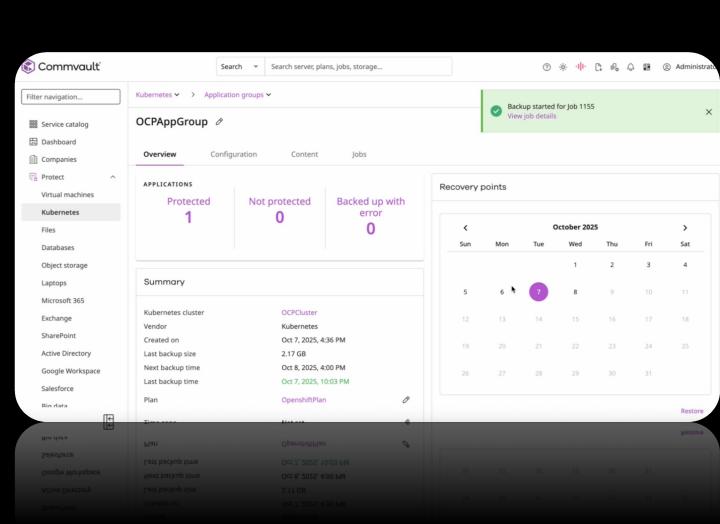
Copies 1
Primary storage type Disk

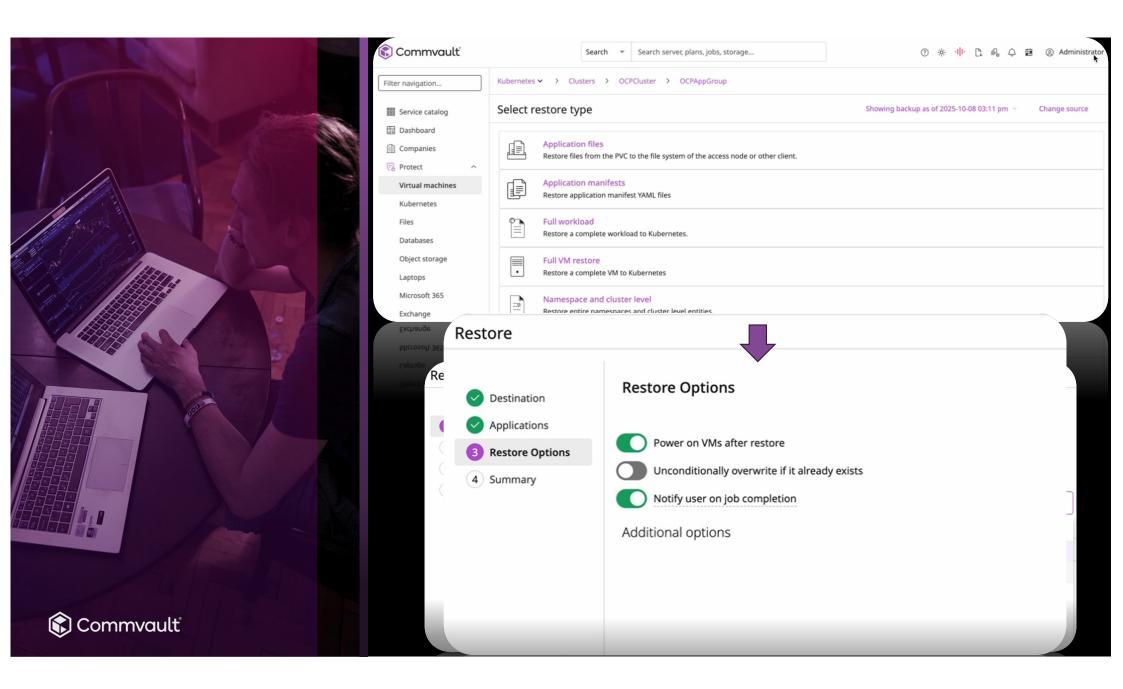
Entities 4

Next backup time Dec 31, 6:00 PM











Example: Change the host for the resources of kind "Route" with the name "ocp-route" after restore

Selectors and Actions

- Selector: Kind | Value: Route
- Selector: Name | Value: ocp-route
- Action: Modify | Path: /spec/host | Value: iloopbkp401.source | New value: iloopde487.destination | Parameters: Exact

YAMLs



Paste source YAML here

```
apiVersion: route.openshift.io/v1
kind: Route
metadata:
mame: ocp-route
spec:
host: ilocpbkp401.source
port:
targetPort: 8080
to:
kind: Service
name: route-svc
```

TEST

CLEAR

Modified YAML

```
apiVersion: route.openshift.io/v1
kind: Route
metadata:
name: ocp-route
spec:
host: ilocpde487.destination
port:
targetPort: 8080
to:
kind: Service
name: route-svc
```

EQUIVALENT API

COPY



Simplify Resilience

Align cyber resilience with business efficiency.
Organizations leveraging Commvault's unified platform have seen measurable reductions in operational overhead and recovery time



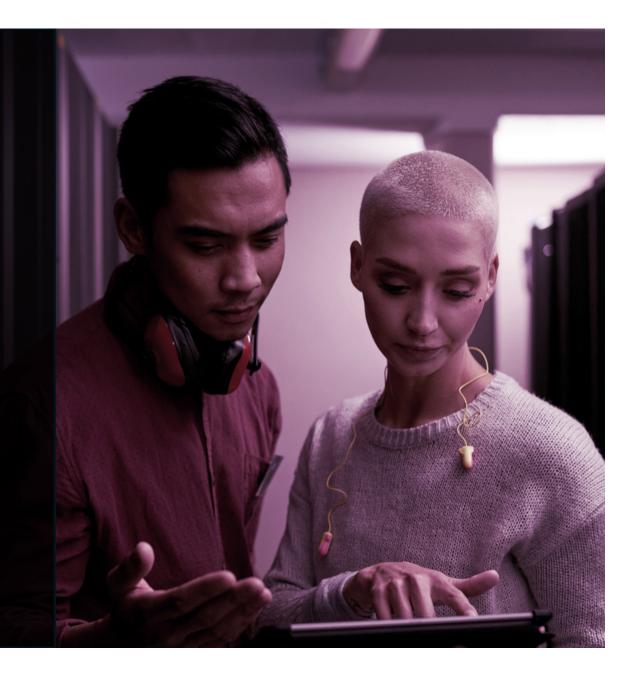
Reduce Risk

Minimize downtime and data loss during an attack. Unified governance reduces the surface area of risks of compromised data as it sprawls across clouds, regions, data centers and edge locations.



Control Cost

Reduce administrative burden and accelerate modernization. Consolidated tools and automation reduce TCO while improving governance across hybrid environments







Thank You

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