



28.11.2023

Kasten by Veeam

ile Kubernetes Uygulamalarının Çevik Yönetimi



Fatma Gültekin
Mıdık

Veeam Hakkında

#1

IDC - Data Replication
& Protection Market

#1

Yürütme yeteneđi - The
Gartner Magic Quadrant

81%

Fortune 500

450k+

Kurumsal Müşteri

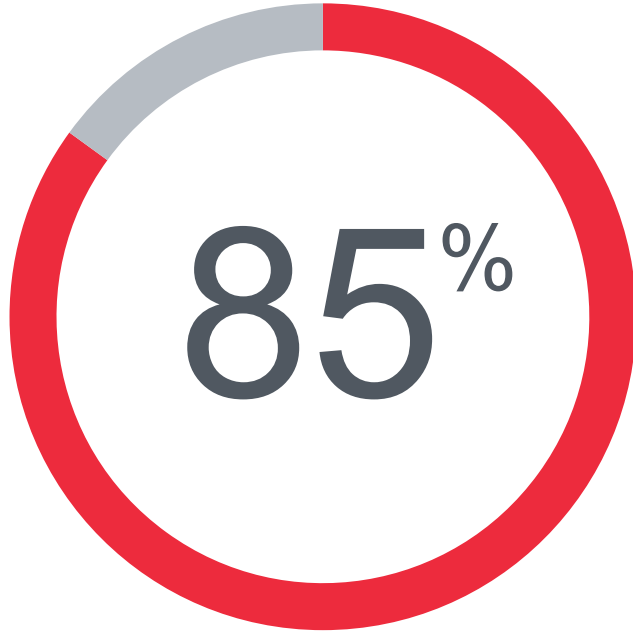
Kurumların 2024 BT Beklentileri



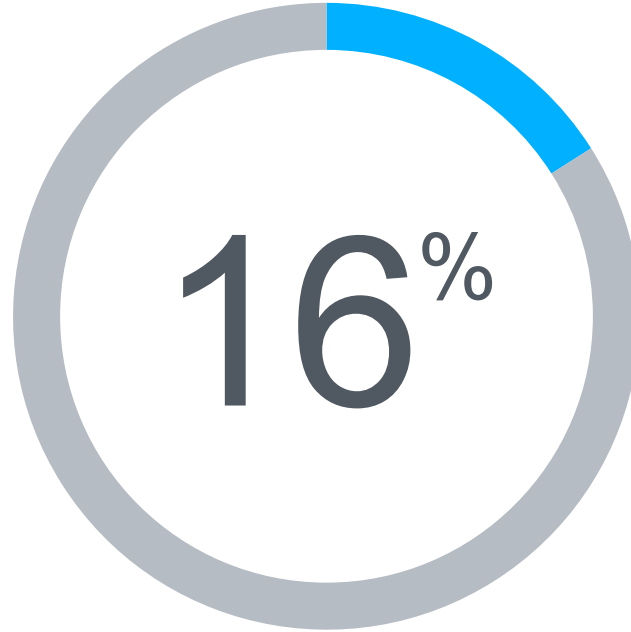
Kasten K10'i Farklı Kılan Nedir?



Siber tehditler, şirketlerin iş modelini temelden etkiliyor



Son bir yılda fidye saldırısına en az bir kere maruz kalan şirketler



Fidye ödemededen verisini kurtaran şirketlerin oranı*



Fidyeyi ödediği halde verisini kurtaramayan şirketlerin oranı

*2023 Veeam Data Protection Trends Report. **Forrester State of DR Preparedness 2022

Enterprise Kubernetes ortamlarında veri koruma zorlukları

74%

Geleneksel ve Kubernetes ortamlarda yer alan uygulamaların aynı yöntemlerle yedeklenebileceğini düşünen kurumlar * (yapılamaz)

85%

Geçtiğimiz 1 yılda en az 1 defa fidiye saldırısına uğrayan kurumlar**

93%

Konteyner ortamlardaki yedekler için çoklu bulut desteği olmasının önemli olduğunu düşünen kurumlar *

75%

Kubernetes yedekleme ekiplerinde yetkinlik eksikliği olduğunu düşünen kurumlar. *

* ESG Measuring the Current State and Momentum in the Market for K8s Protection

** 2023 Veeam Data Protection Trends Report

Veeam Veri Platformu

Güvenilir DR Operasyonu



Proaktif Monitor ve Analiz



Güvenli Yedek ve Hızlı Geri Dönüş



Native APIs

aws

Azure

Google Cloud

kubernetes

Microsoft 365

salesforce



Bulut



Sanal



Fiziksel



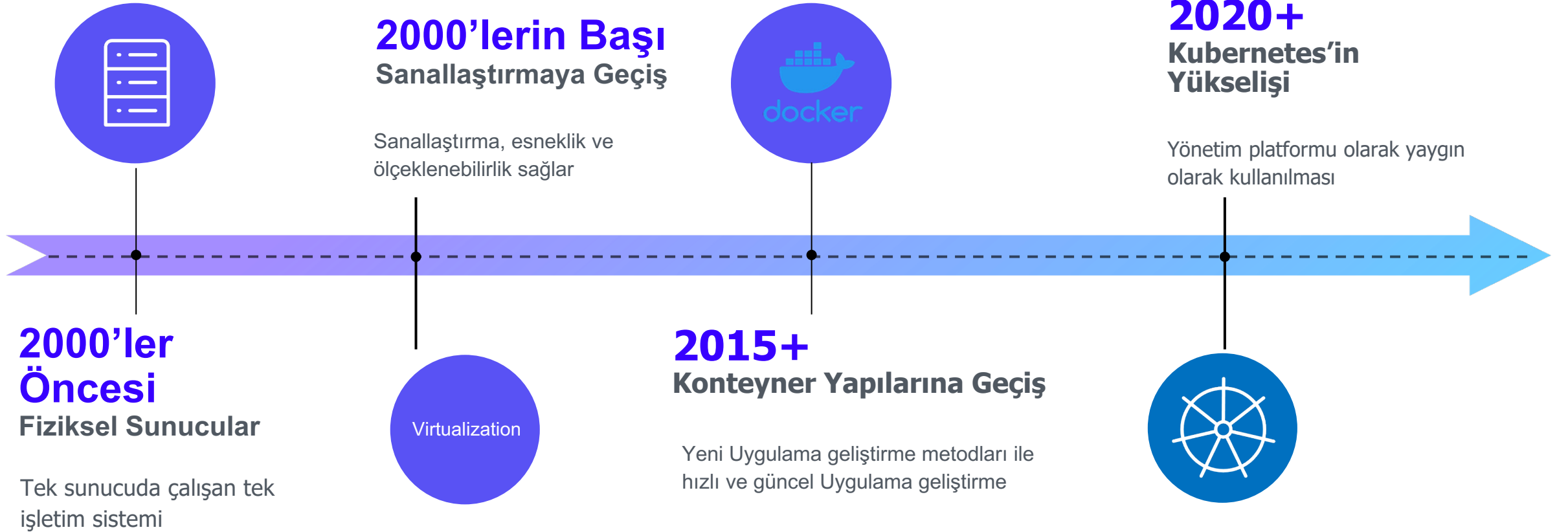
Uygulama



SaaS

Veri Merkezi | Bulut | XaaS

Kubernetes: En Hızlı Gelişen Platform



K10 PLATFORM



Uygulama
takibi



Politika tabanlı
Otomasyon



Kullanımı kolay
arabirim



Uçtan uca
şifreleme

KASTEN
by Veeam

Docs k10-admin

- Dashboard
- Applications
- Policies
- Profiles
- Blueprints
- Transform Sets
- Usage & Reports
- User Roles
- Settings

Dashboard

Applications
Discovered in this system
3

- 0 Compliant
- 0 Non-Compliant
- 3 Unmanaged

Policies
Managing resources
2

- 2 Backup Policies
- 0 Import Policies

Data Usage
Total Backup Data
18.2 GiB

BACKUPS

Snapshots (2) **18 GiB** 99%
Object Storage **183 MiB** 1%

Activity

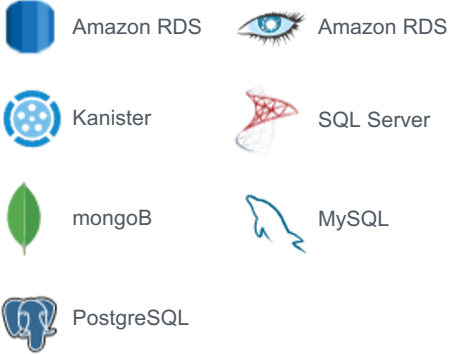
Duration (sec)

177 sec
133 sec
89 sec
44 sec
0 sec

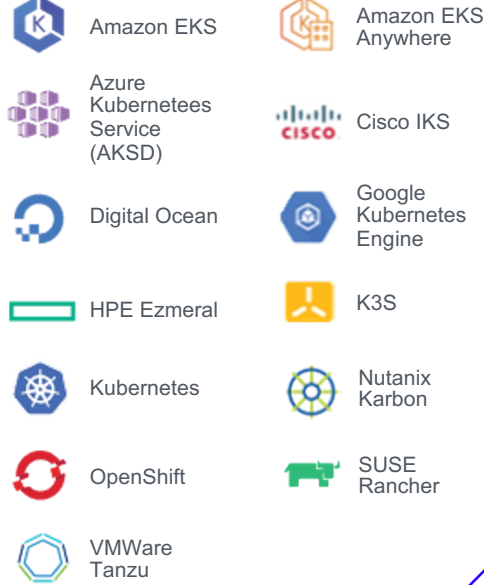
192.168.1.160:32000/k10/#/policies

Kubernetes Veri Yönetim Platformu

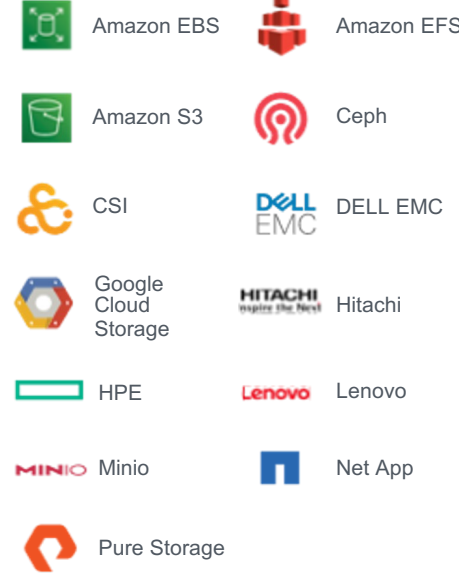
Veri Servisleri



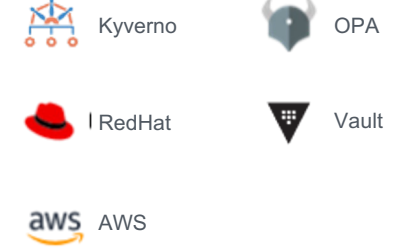
Kubernetes Dağılımları



Veri Depolama Entegrasyonları



Güvenlik Servisleri



Kasten K10 kullandığınız tüm Kubernetes teknolojileri ile uyumlu çalışır

Kasten Nasıl Çalışır?



Keşif

Otomatize olarak Kubernetes uygulamalarının bileşenlerini bulur



Korur

Kubernetes üzerindeki verilerinizi ve uygulamalarınızı korur



Her Ortama Geri Yükler

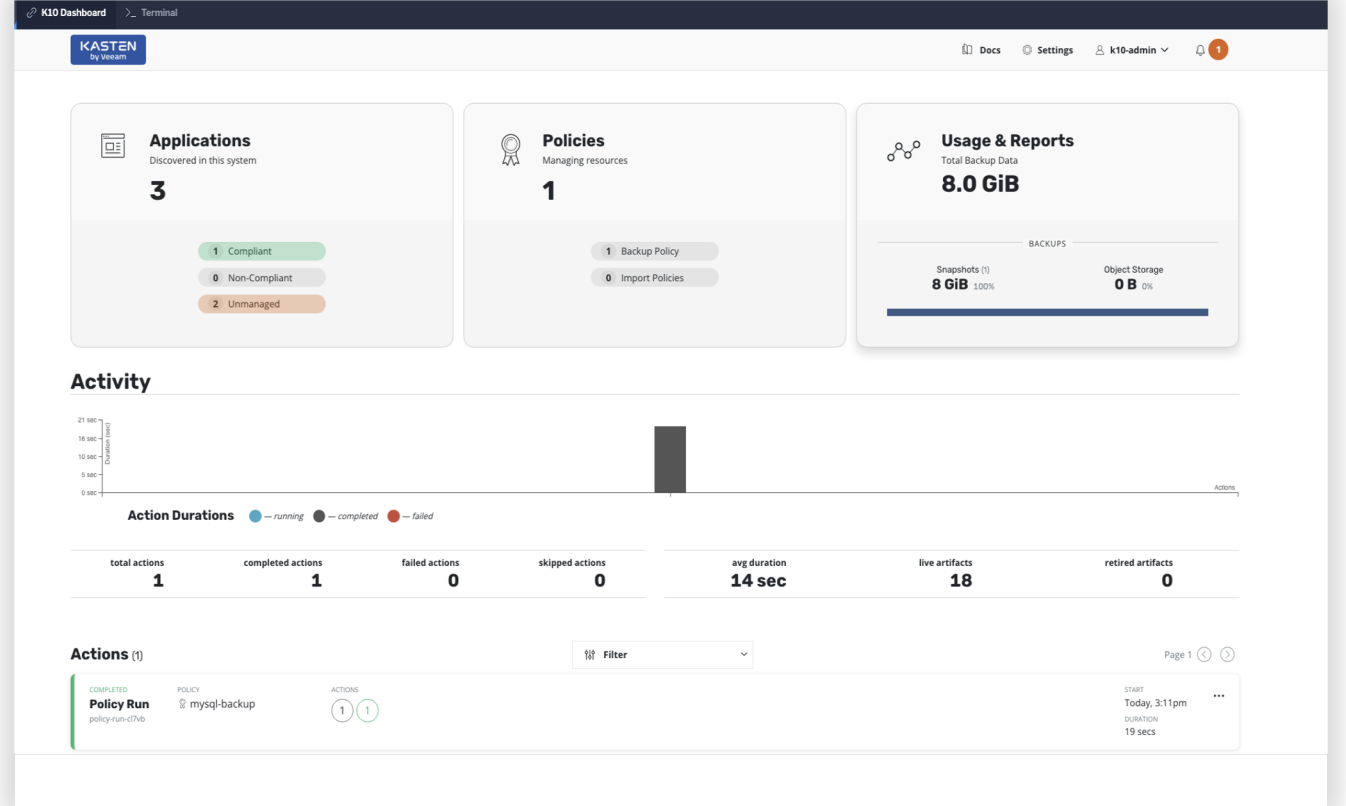
Hızlı ve kolay olarak uygulamalarınızı ve verinizi kolaylıkla her Kubernetes ortamına geri yükler



Keşif

Kubernetes üzerindeki uygulama bileşenlerini bulur

- ✓ Kubernetes üzerindeki uygulamaları ve bileşenleri bulur
- ✓ Tanımlamalar ve konfigürasyonu içerir
- ✓ Uygulamalar ile entegre olur





Korur

Uçtan uca uygulama koruma

- ✓ Belirlediğiniz sıklıkta konteyner ve uygulama verilerini korur.
- ✓ Cluster arası ve bulutlar arası koruma sağlar.
- ✓ Otomatize politikalar ile servis seviyelerinizi korur.

The screenshot displays the Kasten by Veeam dashboard. At the top, there's a navigation bar with 'KASTEN by Veeam', 'Docs', 'Settings', and a user profile 'k10-admin'. Below this, the 'Dashboard' section features a 'Policy Run' card for 'mongo' (run-b6j7rbkhjb) with a 'Completed Successfully' status. It shows the start time as 'Today, 3:12pm', end time as 'Today, 3:15pm', and duration as '3 mins, 39 secs'. There are 2 total actions and 2 successful actions. Under 'Applications (1)', 'default' is listed. The 'Actions (2)' section shows two actions: 'Export' (Exporting RestorePoint) and 'Backup' (Snapshotting Application Components, Snapshotting Application configuration, Snapshotting Workload mongodb, Snapshotting Workload mongod-arbiter, Snapshotting Workload snapshot-controller). Both actions are marked as successful. The 'Export' action shows 2 artifacts (kanister, spec) and a duration of 2 mins, 18 secs. The 'Backup' action shows 2 artifacts (snapshot - 16 GiB, spec) and a duration of 56 secs.



Her Ortama ve/veya Platforma Geri Yükler

Entegre uygulama geri yükleme

- ✓ Uygulamanın tamamını yada bileşenlerini farklı cluster yapılarına ve buluta geri yükler
- ✓ Kullanıcı hatalarına, veri kayıplarına karşı verinizi geri yükler
- ✓ Blueprint yapıları ile uygulamalara entegre olur

Terminal K10 Dashboard

KASTEN
by Veeam

Dashboard < Applications

Restore application *mysql*

Restore a protected object to a previous state. Restore points are shown and ordered based on scheduled execution time which may be different from the actual creation time. During a restore, the existing application is deleted and then recreated with the data artifacts restored from backups.

Select a restore point for details.

Past day

Today, 3:11pm >
mysql-backup

Restore Point

Application Name
Select a namespace to restore into. The contents of the selected namespace will be overwritten with the restored application.
mysql
[Create a New Namespace](#)

Optional Restore Settings

Pre and Post-Restore Action Hooks
Optional blueprint actions to be run before or after restores complete

Before
 After - On Success
 After - On Failure

Data-Only Restore
Restore only the volume data and exclude other artifacts such as config files.

Don't wait for workloads to be ready
Specifies whether the restore action should skip waiting for all workloads (Deployments, StatefulSets or DeploymentConfigs) to be ready before completing.

Apply transforms to restored resources
On restore, change the contents of spec resources. This may be useful when migrating between environments. For example, you can change storage classes or edit container image names.

Overwrite existing
Specifies whether the restore action should overwrite existing objects to their restore point state.

Artifacts
By default, all artifacts in the restore point will be restored. However, you can deselect artifacts to exclude them from the restore.
[Deselect All Artifacts](#)

Snapshot (1)

Restoring 1 of 1 volumes [Deselect Volume Snapshots](#)

<input checked="" type="checkbox"/>	KUBERNETES VOLUME PVC	VOLUME ID	STORAGE CLASS NAME	SIZE
<input checked="" type="checkbox"/>	data-mysql-0	data-mysql-0	csi-hostpath-sc	8 GiB

CREATED
Today, 3:11pm

[Restore](#) [Cancel](#)

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version 5.5.7

Red Hat OpenShift İçin Operatör Kolaylığı

The screenshot displays the Red Hat OpenShift OperatorHub interface. The top navigation bar includes the Red Hat logo, the text 'Red Hat OpenShift Container Platform', and user information 'kube:admin'. A blue banner at the top right states: 'You are logged in as a temporary administrative user. Update the cluster OAuth configuration to allow others to log in.'

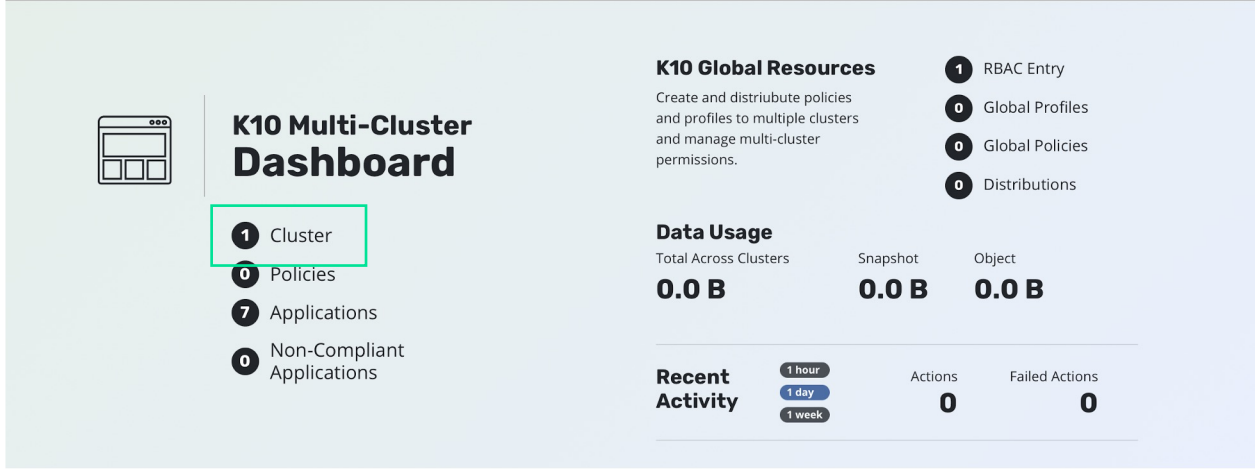
The left sidebar contains a menu with the following items: Administrator, Home, Operators, OperatorHub (selected), Installed Operators, Workloads, Networking, Storage, Builds, Pipelines, Observe, Compute, User Management, and Administration.

The main content area is titled 'OperatorHub' and includes a search bar with the text 'Project: All Projects' and a search input field containing 'kasten'. Below the search bar, there are four operator cards:

- [DEPRECATED] K10 Helm Operator**: provided by Kasten by Veeam, kasten.io. Description: K10 data management platform for OpenShift, The Market Leader for Kubernetes Backup and DR.
- Kasten K10 (Enterprise - PAYGO)**: provided by Kasten by Veeam, kasten.io. Description: K10 data management platform for OpenShift, The Market Leader for Kubernetes Backup and DR.
- Kasten K10 (Enterprise - Term)**: provided by Kasten by Veeam, kasten.io. Description: K10 data management platform for OpenShift, The Market Leader for Kubernetes Backup and DR.
- Kasten K10 (Free)**: provided by Kasten by Veeam, kasten.io. Description: K10 data management platform for OpenShift, The Market Leader for Kubernetes Backup and DR.

The search results show 4 items.

Tek Ekrandan Çoklu Yönetim



K10 Multi-Cluster Dashboard

1 Cluster
0 Policies
7 Applications
0 Non-Compliant Applications

K10 Global Resources
Create and distribute policies and profiles to multiple clusters and manage multi-cluster permissions.

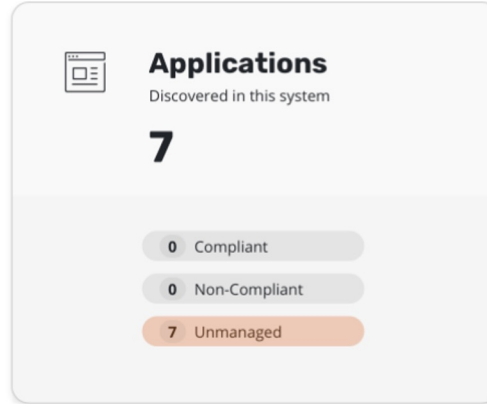
- 1** RBAC Entry
- 0** Global Profiles
- 0** Global Policies
- 0** Distributions

Data Usage
Total Across Clusters: **0.0 B**
Snapshot: **0.0 B**
Object: **0.0 B**

Recent Activity
1 hour: **0** Actions, **0** Failed Actions
1 day: **0**
1 week: **0**

< Clusters < Dashboard

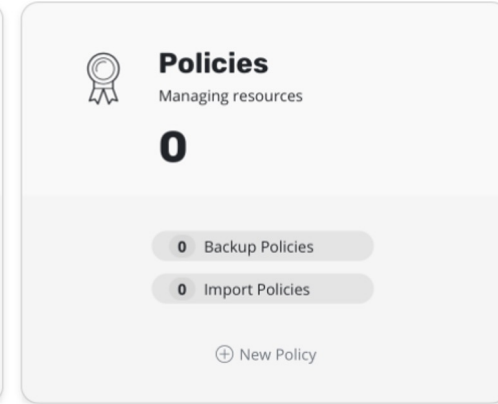
Cluster Settings >



Applications
Discovered in this system

7

- 0** Compliant
- 0** Non-Compliant
- 7** Unmanaged

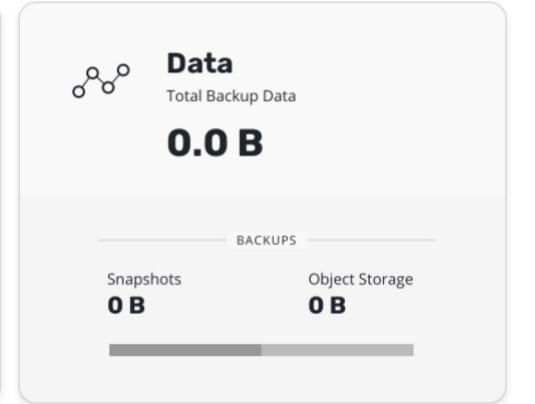


Policies
Managing resources

0

- 0** Backup Policies
- 0** Import Policies

+ New Policy



Data
Total Backup Data

0.0 B

BACKUPS

Snapshots: **0 B**
Object Storage: **0 B**

Tek ekrandan birçok cluster üzerindeki yedeklemeyi yönetebilirsiniz.

Veeam Backup and Replication V12 Entegrasyonu

- Veeam Backup and Replication V12 ile beraber Kasten K10 Yönetimi
- Kasten K10 5.5.4 ve üzeri versiyonlar

The screenshot displays the Veeam Backup and Replication V12 interface. The 'Add Server' dialog is open, showing options to add VMware vSphere, Microsoft Hyper-V, Microsoft Windows, and Linux servers. The 'New Kasten K10 Instance' dialog is also open, showing the 'Instance Tools' menu and the 'Add Instance' button. The main interface shows the 'Backup Infrastructure' tree with 'Managed Servers' expanded, and a table of servers. A context menu is open over the 'Kasten K10 instance' entry, showing options like 'Open console', 'Remove', and 'Properties...'. The status bar at the bottom indicates '1 server selected' and 'Connected to: localhost'.



Kasten K10 Kullanım Senaryoları



Yedekle, Geri Yükle

- Uygulama koruma
- Politika tabanlı otomatik yedek ve takip
- Uygulamaya özel koruma



Felaket Kurtarma

- Tutarlı otomatik iş akışı
- Otomatik alım ve geri yükleme
- Uygulama özel felaket kurtarma



Uygulama Taşıma

- Tutarlı otomatik iş akışı
- Altyapı esnekliği
- Altyapı izolasyonu

#1 Kubernetes veri yönetimi

GigaOm tarafından yapılan değerlendirmede;

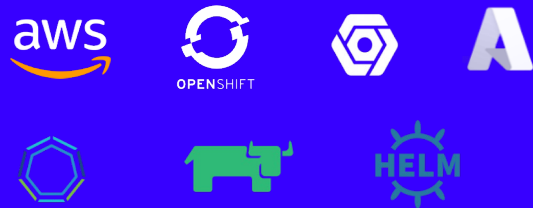
Kubernetes veri koruma kategorisinde 3 defa “**leader and outperformer**” seçilmiştir.



KASTEN – Kubernetes Native Backup



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