

Veritas InfoScale™ for Kubernetes

Delivering enterprise resiliency, mobility, and efficiency for Kubernetes environments.

Background

The global adoption of containers as a platform to improve IT service management and delivery has accelerated. Gartner predicts that 90% of global organizations will run containerized applications in production by 2026. The Kubernetes container orchestration platform delivers game-changing business benefits that companies can no longer ignore. For example, Kubernetes facilitates faster time to market for new application features and services, as well as improved product and service quality, with faster software updates and patches. Most importantly, it enables organizations to avoid vendor lock-in, because containerizing workloads improves their portability. All these benefits provide a competitive edge for companies that are the first to successfully adopt and manage this new application compute platform.

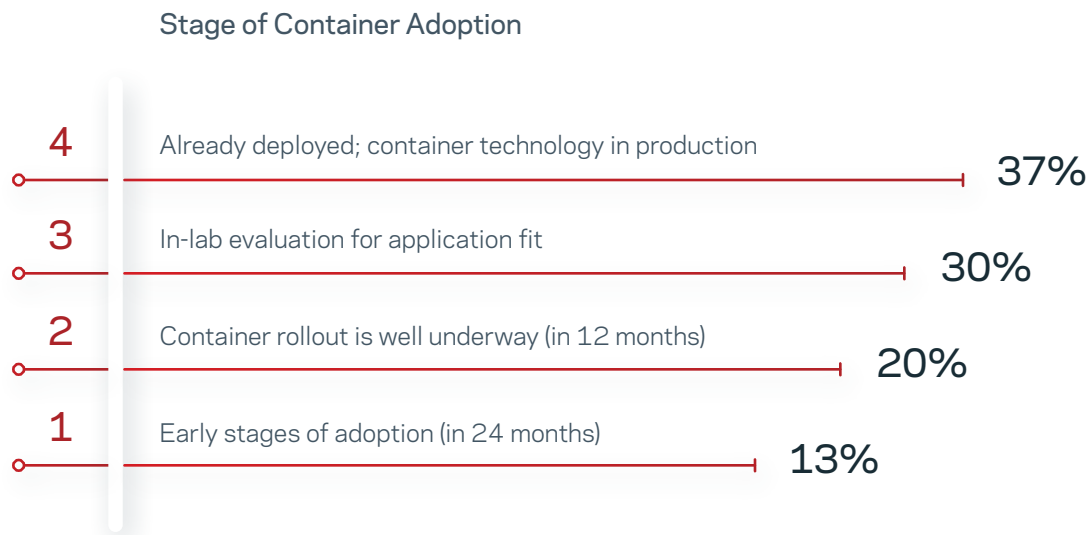


Figure 1. The stage and pace of container storage adoption among customers
 (Source: Cicero Implementing Data-Driven Strategy Report of containers)

Like all emerging technology, it will take time and engineering experience to develop and integrate advanced availability features for Kubernetes that allow organizations to achieve the same service level agreement (SLA) levels that they have with their current environment. Organizations are looking for solutions that can enable them to meet their SLAs for their mission-critical applications, so they can extract maximum value from their Kubernetes deployments. InfoScale provides this parity, filling capability gaps in Kubernetes to support containerized applications with enterprise-class availability and recoverability.

Enhancing InfoScale for Kubernetes



InfoScale for Kubernetes was created based on years of experience supporting mission-critical environments and expertise gained working with these new compute platforms. This enhanced solution is specifically designed to advance the maturity of the container market, providing increased resiliency, mobility, and efficiency needed to support mission-critical applications in Kubernetes deployments. Veritas combines the portability of containers with the Veritas data services abstraction of InfoScale to help enterprises achieve their digital transformation and application modernization goals.

Advanced Data Services for Stateful Applications

Veritas InfoScale for Kubernetes empowers enterprise customers and DevOps engineers to deploy enterprise-class data services with resiliency, mobility, efficiency, and cloud services using containerized applications on native Kubernetes and Red Hat OpenShift™ deployments.

New 8.0.300 Enhancements

- **Scalability:** The ability to seamlessly scale container environments to meet business demands with confidence.



- Multi-tenant support to easily deploy multiple storage pools in a Kubernetes cluster, tailored to deliver secure enterprise-grade ephemeral and persistent storage to support application performance and security requirements.
- Online DR management that enables customers to add new storage volumes at the primary cluster and replicate it to the secondary cluster non-disruptively.

- **Observability:** Holistically observe and proactively manage system status and alerts with a centralized management platform.



- Prometheus integration enables efficient and comprehensive system status monitoring and DR replication progress. You can export all information to Grafana, where you can easily visualize data with graphs, charts, and other advanced visualizations.
- Automated certification renewal ensures that certificates can be securely and reliably made available to containers.

- **Performance:** Ensure IT ecosystem is performing at peak proficiency to meet or exceed business SLAs.



- CSI support for high-performance ephemeral volumes for stateless container-based applications.

Core Key Capabilities

- **Resiliency:** Being IT resilient means being prepared for any type of disruption—planned or unplanned—to mitigate the risk of downtime or service disruption. InfoScale provides:



- Automated or manual disaster recovery to protect against site failures. This includes multiple disaster recovery (DR) plans to simplify the setup and failover of persistent storage volumes, namespace, and cluster metadata to a remote hybrid-cloud site to continue application accessibility.
- Faster failover of faulty nodes within the cluster protects against potential data corruption and allows stateful application operations to resume in seconds.

- **Mobility:** The ability to move information and services freely and easily to meet the needs of the business.

InfoScale enables organizations to:



- Replicate persistent storage volumes from test/dev clusters to production clusters with minimal disruption.
- Create persistent storage volume snapshots for backup and recovery of mission-critical applications.

- **Efficiency:** This is about doing more with less by maintaining or improving the quality of IT services delivered to the organization, while reducing costs.



- A software-defined storage layer that enables IT to leverage existing server and SAN storage to create enterprise-class persistent storage volumes, while decreasing the need for additional capital expense.
- The ability to create persistent storage volume classes for high-performance, increased resilience, and secure encryption enables organizations to meet the different requirements of their applications.
- CSI plug-in persistent volume support for stateful container pods.
- Veritas InfoScale Operator Manager (VIOM) support for simplified license usage management and reporting.

- **Security:** Protection against the criminal or unauthorized use of electronic data; the number one concern for customers today.



- Support for persistent volume encryption at rest.
- Enforcement of Federal Information Processing Standard Compliance (FIPS-140).
- Compliance with the Federal Executive Order (EO).

Ease of Ordering

Veritas InfoScale for Kubernetes is available for on-premises and cloud deployments. The software can be downloaded via the Veritas download center or via the Red Hat Ecosystem Catalog and comes in three editions with flexible subscription terms to meet your IT and price requirements.

Edition Options:

- InfoScale for Kubernetes Enterprise Edition provides all the functionality listed above
- InfoScale for Kubernetes Storage Edition provides all the functionality listed above, minus the disaster recovery feature
- InfoScale for Kubernetes Developer Edition is free for non-production use for a maximum of three nodes in a single cluster and provides the same functionality as the InfoScale for Kubernetes Storage Edition

Download Options:

For Red Hat OpenShift:

- InfoScale can be installed directly from the [Red Hat Ecosystem Catalog](#)

For Kubernetes:

- The free Developer Edition can be downloaded here:
[veritas.com/content/support/en_US/downloads/detail.REL134671](https://www.veritas.com/content/support/en_US/downloads/detail.REL134671)
- 60-day trialware of Veritas InfoScale for Kubernetes:
[veritas.com/form/trialware/veritas-infoScale-for-kubernetes](https://www.veritas.com/form/trialware/veritas-infoScale-for-kubernetes)



Summary

Veritas InfoScale is a software-defined solution that has a long-standing history of innovation and support for the latest trends in IT. Unlike point solutions for physical, virtual, cloud platforms, and containers, InfoScale is a single enterprise solution for managing SLAs for your mission-critical applications, to keep your business running.

About Veritas

Veritas Technologies is the leader in secure multi-cloud data management. Over 80,000 customers—including 91% of the Fortune 100—rely on Veritas to help ensure the protection, recoverability and compliance of their data. Veritas has a reputation for reliability at scale, which delivers the resilience its customers need against the disruptions threatened by cyberattacks, like ransomware. No other vendor is able to match the ability of Veritas to execute, with support for 800+ data sources, 100+ operating systems and 1,400+ storage targets through a single, unified approach. Powered by Cloud Scale Technology, Veritas is delivering today on its strategy for Autonomous Data Management that reduces operational overhead while delivering greater value. Learn more at www.veritas.com. Follow us on X at [@veritastechllc](https://twitter.com/veritastechllc).

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