Veritas Alta™ Enterprise Resiliency

High availability, disaster recovery, performance, and mobility in the public cloud.

Overview

Veritas Alta Enterprise Resiliency provides enterprise-class software-defined storage management, application-aware high availability, and disaster recovery (HADR) for your applications running in cloud, hybrid-cloud, and multi-cloud environments. The shared responsibility model for applications running in the cloud can become an opportunity to architect your applications for maximum uptime and performance.
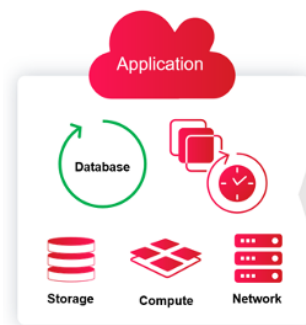
Veritas Alta Enterprise Resiliency offers unique features that not only improve application performance and reduce cost, but maximize architectural flexibility while avoiding cloud vendor lock-in. Creating cloud environments capable of supporting your most mission-critical applications involves several challenges that cannot be easily resolved with cloud-native tools or services. Veritas Alta Enterprise Resiliency is a holistic solution designed to work with all the leading cloud infrastructures to address these challenges, as well as intelligently manage HADR for cloud, hybrid-cloud, and multi-cloud environments as a fully automated process. Several key benefits are realized from this approach.

Why Veritas Alta Enterprise Resiliency?

- **Availability**—Provides application resiliency, ensuring that your applications are highly available and minimizing the impact of cloud provider disruptions and outages.

- **Performance**—A low-latency, software defined storage platform, designed to ensure the maximum performance of cloud-based workloads while controlling cost.

- **Mobility**—Avoid vendor lock-in by decoupling your critical applications and services from their underlying cloud service provider, and free applications to move between cloud providers to meet their business needs.

Application-Aware Availability and Resiliency in Cloud Environments

You can eliminate single points of failure and latency in cloud-native services that can negatively affect your end user's experience. Veritas Alta Enterprise Resiliency's intelligent application clustering provides more advanced application availability than cloud provider load balancing services provide. It can respond to application failures in cloud environments instantly, and fail over an IT service to other zones, regions, other cloud providers, or even on-premises data centers.

	Cloud	InfoScale
Application	✗	✓
Storage	—	✓
Networking	—	✓
Compute	—	✓
Recovery Method	Manual	Automated
Response Time	Depends	Seconds

✓ High availability monitoring & automated recovery — Basic infrastructure monitoring & resiliency ✗ No native high availability or DR

## Mission-Critical Application Resiliency in Cloud Environments

Veritas Alta Enterprise Resiliency supports a near-zero recovery time objective (RTO)/ recovery point objective (RPO) for mission-critical application data, and can move data between clouds and on-premises data centers with zero data loss. Integrated fencing and I/O shipping technologies protect your data from hardware and software

failures in the underlying cloud infrastructure, and provide more secure and reliable storage than NFS-based cloud services.

Since the cloud shared responsibility model leaves application HADR responsibility to the end user, it is critical for organizations to have a proven enterprise-grade solution to manage application uptime in the cloud. Veritas Alta Enterprise Resiliency's application-aware clustering and high-availability services ensure your applications are always online. If an application goes offline, Veritas Alta Enterprise Resiliency can bring the application back online or move your application to a different system so it stays highly available.

Tools such as Pacemaker can be used within the cloud, but they can be complex to manage and typically only work within a single environment, which does not allow for application failover to different clouds or on-premises data centers. Veritas Alta Enterprise Resiliency ensures that your applications are highly available within cloud, hybrid-cloud, and multi-cloud environments.

Veritas Alta Enterprise Resiliency's availability management technology can detect system failures instantly, and uses a virtual IP that maps directly to managed systems to eliminate a single point of failure. This also reduces data transfer costs and eliminates latency associated with native cloud load balancing services.

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Veritas Alta Enterprise Resiliency Virtual IP

Near-instant fault detection
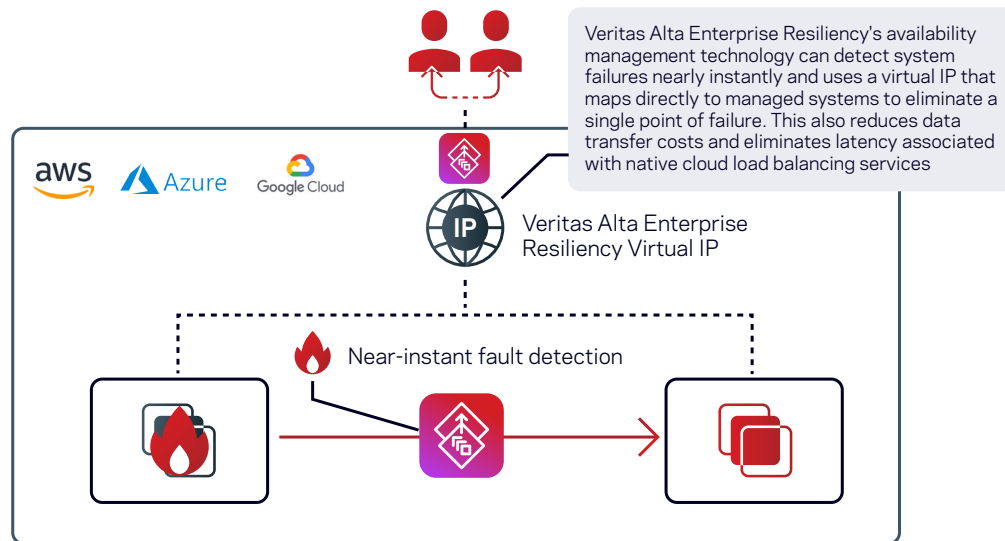
Shared Storage in Cloud Environments

Veritas Alta Enterprise Resiliency delivers a low-latency software defined storage platform designed to ensure the maximum performance of cloud-based workloads. By coupling the intelligent data management of Veritas Alta Enterprise Resiliency with the nearly limitless capacity of cloud storage, users can maximize their resource utilization while maintaining a cost-effective and scalable primary storage architecture. Intelligent data caching process keeps frequently accessed read data on cloud instance ephemeral SSD's, which are used in conjunction with direct-attached cloud block storage services for maximum performance in the cloud, while reducing operating costs.

- Understanding the dependencies of applications to the underlying storage infrastructures is a challenge, along with the need to manually map these components together. With the free Veritas InfoScale Operations Manager (VIOM) tool, organizations can centrally manage their application, server, and storage environments with ease. This leads to lower operational cost, faster application deployment times, and higher service levels. VIOM can also help reduce the risk of human error by providing comprehensive visibility throughout the environment.

- VIOM also enables administrators to identify and visualize potential problems with applications and storage resources by correlating health and status information across multiple applications, cloud servers, storage, and replication resources. This increased visibility enables rapid problem resolution that typically spans multiple organizational structures. Veritas Alta Storage Resiliency enables customers to migrate application data volumes and container-based persistent storage volumes to other geographical locations, whether within your current cloud service provider infrastructure, to another service provider platform, or revert to on-premises.

- Veritas Alta Storage Resiliency SmartTier can bidirectionally move active and inactive data between cloud SSD and lower-cost HDD storage, or even object storage buckets, depending on I/O activity thresholds.
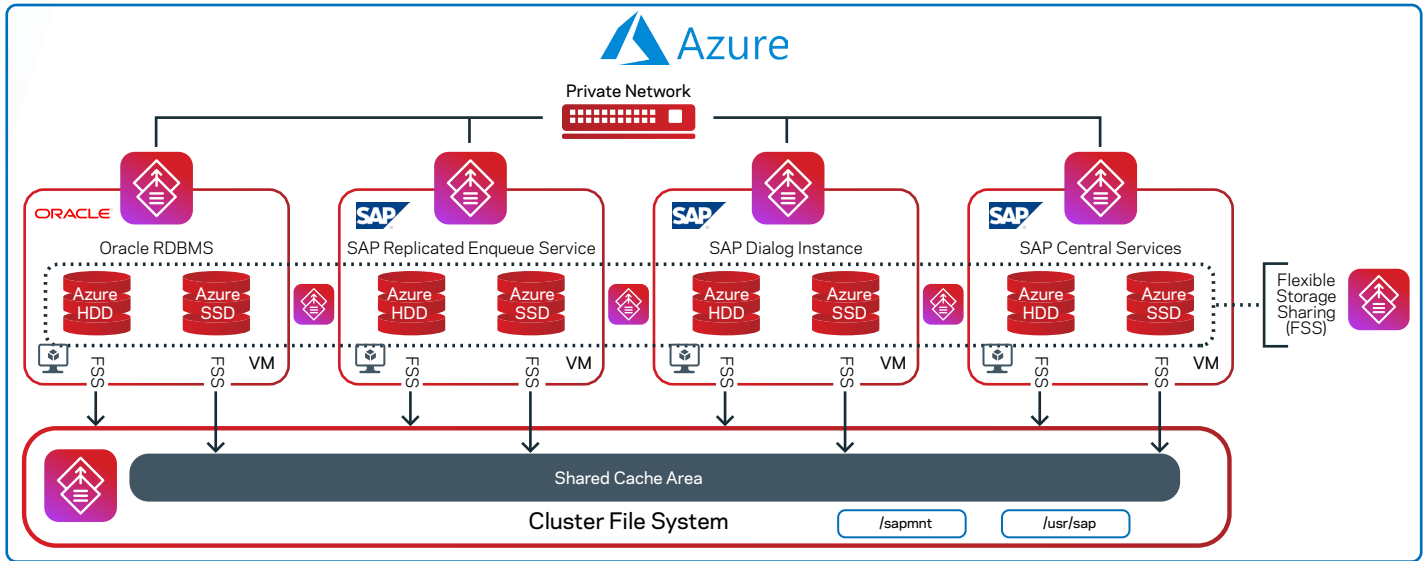
Hybrid and Multi-Cloud Environments

Veritas Alta Enterprise Resiliency can fully support a hybrid approach to public cloud consumption, offering bidirectional HADR and storage management between on-premises environments and the supported public cloud providers. Veritas Alta Enterprise Resiliency manages the application components on-premises and in the cloud, as well as the data replication between on-premises and cloud data volumes.

With its agnostic approach to operating systems and platforms, Veritas Alta Enterprise Resiliency is well suited for deployment in hybrid-cloud and multi-cloud HADR configurations, and can be tailored to support varying RPO and RTO requirements.

Learn More

With cloud becoming an increasingly common platform for hosting IT infrastructure, Veritas Alta Enterprise Resiliency is the ideal software-defined solution to help you reduce cloud costs and complexity, while ensuring that your applications are highly available and resilient. Whether you're considering a cloud, hybrid-cloud, or multi-cloud architecture, Veritas Alta Enterprise Resiliency provides enterprise functionality for your IT services that allows you keep your applications highly available and manage your IT services in the cloud with confidence.

To learn more about Veritas Alta Enterprise Resiliency, visit veritas.com/alta/enterprise-resiliency.

About Veritas

Veritas Technologies is a leader in multi-cloud data management. Over 80,000 customers—including 95 percent 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, 1,400+ storage targets, and 60+ clouds 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 Twitter at @veritastechllc.

VERITAS™

2625 Augustine Drive
Santa Clara, CA 95054
+1 (866) 837 4827
veritas.com

For global contact information visit:
veritas.com/company/contact

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