

# Veritas InfoScale + AWS

## Application Performance and Availability in Hybrid-Cloud Deployments with Amazon Web Services.

### Overview

Cloud adoption is a given for most enterprises. In fact, 92 percent of organizations<sup>1</sup> plan to move infrastructure and workloads to public clouds such as Amazon Web Services (AWS). However, according to a global survey conducted by Veritas, more than 50 percent of cloud architects and administrators require greater uptime than cloud hosts can provide. Hybrid-cloud deployment models are becoming the norm, but ensuring seamless data movement, enterprise-grade performance, scalability and resiliency can be challenging.

Enterprises today require cloud data management solutions that will reliably protect data, simplify management and orchestration, ensure resiliency and reduce risk. Infoscale's unique software-defined infrastructure helps achieve a cloud-enhanced IT strategy cost-effectively without compromising components critical to business success.

InfoScale's integration with AWS delivers simple workload migration, orchestrated disaster recovery and optimized application performance. It enables simplified, cost-effective cloud management solutions while leveraging existing infrastructure investments.

### Business Continuity for Mission-Critical Applications

Business-critical applications, by definition, require high availability in the event of a node outage (compute and/or data) or an availability zone or regional outage. InfoScale allows recovery of critical workloads or even an entire site to AWS with a single click or with controlled recovery options. It can orchestrate seamless recoveries for complex, tiered workloads to AWS while ensuring all application dependencies are honored.

InfoScale uses its Intelligent Monitoring Framework (IMF) to monitor applications and trigger a fast failover when it detects an application failure. InfoScale offers application-aware agents for leading enterprise applications, and organizations can write custom agents for in-house applications. Volume and file-level replication ensure application data is replicated to other AWS availability zones or regions to protect against a large-scale infrastructure outage (see Figure 1).

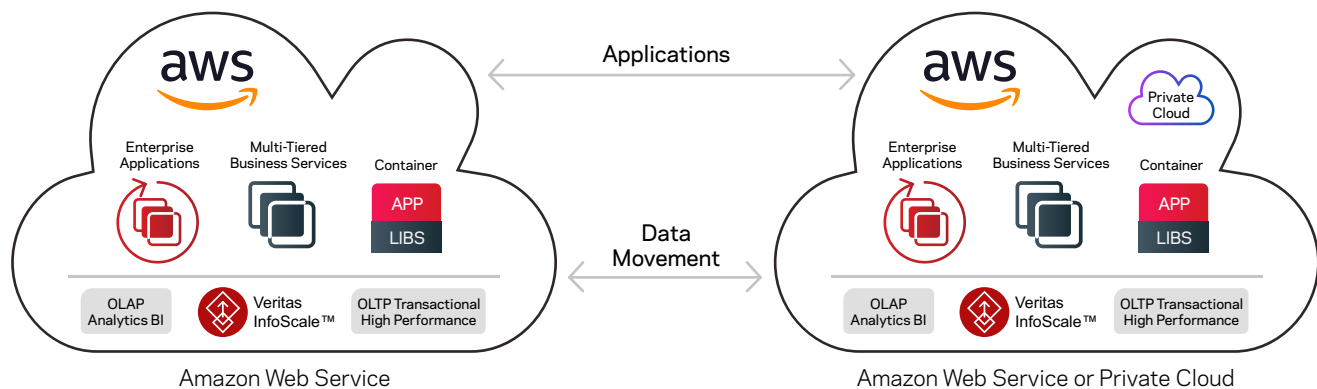


Figure 1. Veritas InfoScale ensures application resiliency across AWS regions and zones.

Additionally, proactive recovery readiness is simple, with fully automated and non-disruptive “fire-drills” that can be run at any time without affecting production environments. InfoScale provides testing for recovery and migration to AWS with automated cleanup and detailed reporting, giving an IT department the ability to comply with business continuity mandates.

## Simplified Orchestration of Complex, Multitier Services

IT services are no longer stand-alone applications running on single servers. Multitier business services make up most of an IT organization’s critical services, with different components of the business service running on different tiers of infrastructure—including cloud—each with unique availability needs. A failure at any tier can bring down the entire business service; managing the recovery is time-consuming and complex. InfoScale is aware of the complete business service and takes action in the event of a failure to restore the entire service. When an individual component fails, InfoScale automatically orchestrates the connection to other computing resources, on-site or across sites. This process means faster recovery and minimal downtime—with no manual intervention.

## Intelligent, Policy-Based Data Movement to AWS

Transfers to/from the data center to the cloud need to be optimized to prevent costly, unnecessary data movement. InfoScale includes SmartMove technology that ensures efficient and intelligent data migration to help organizations save on bandwidth and storage costs when migrating application data to the cloud. SmartMove analyzes storage usage by looking up file system metadata and ensuring that only relevant or active data is migrated to the cloud. For example, if 10 TB of storage has been provisioned, and active (non-deleted) data is 3 TB, then a standard data mover typically moves 10 TB of data to the cloud by considering all non-zero bit strings as valid data. In contrast, SmartMove technology will look up the file system metadata and move only non-deleted or active data. (See Figure 2.) Data movement to the cloud using SmartMove can also be optimized in terms of CPU, network bandwidth and schedule.

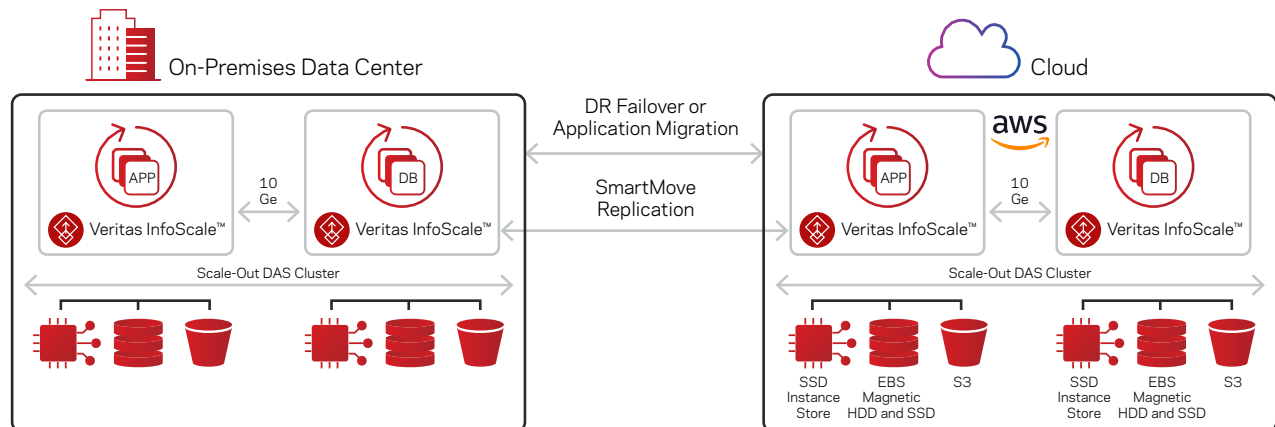


Figure 2. InfoScale uses SmartMove technology to reduce data transfer costs.

[Learn more about Veritas Infoscale.](#)

## About Veritas

Veritas Technologies is a global leader in data protection and availability. Over 80,000 customers—including 87 percent of the Fortune Global 500—rely on us to abstract IT complexity and simplify data management. The Veritas Enterprise Data Services Platform automates the protection and orchestrates the recovery of data everywhere it lives, ensures 24/7 availability of business-critical applications, and provides enterprises with the insights they need to comply with evolving data regulations. With a reputation for reliability at scale and a deployment model to fit any need, Veritas Enterprise Data Services Platform supports more than 800 different data sources, over 100 different operating systems, more than 1,400 storage targets, and more than 60 different cloud platforms. Learn more at [www.veritas.com](http://www.veritas.com). Follow us on Twitter at [@veritastechllc](https://twitter.com/veritastechllc).

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