

Solution Brief



# Intelligent Resilience with AI-Powered Anomaly Detection

Protect Data Where It Lives.  
Detect Threats Before They Spread.

 arctera™

## Overview

Enterprises depend on uninterrupted access to data and applications, but continuity has never been more fragile. Large enterprises collectively report annual losses of ransomware, of around \$400 billion per year, stemming from threats like misconfigurations, ransomware, data corruption, and workload spikes.

InfoScale full stack resilience is redefining how operations teams prepare for the unexpected by unifying protection and response across applications, data, and infrastructure. This approach transforms traditional availability, disaster recovery, and data management into an adaptive system that understands how the environment is meant to operation, and why. This real-time context allows InfoScale to distinguish real risk from routine fluctuations, enabling faster detection and more confident response, with an overall 98% reduction in application downtime.

By correlating downtime and data risks with activity across the application stack, InfoScale AI powered anomaly detection delivers the intelligence for resilience orchestration to become autonomous, and self healing.

## Determining Operational Risk

Traditional operations and security strategies were designed to defend the perimeter and keep infrastructure redundant. While these layers are critical, they lack one essential ingredient. Context. They can detect that "something" is happening, but not "why". As modern apps span hybrid and multi-cloud architectures, the full picture of "healthy operations" or "normal activity" becomes fragmented.

### Key Challenges

- **Limited context of WHY applications and data are changing or moving.**
- **Delayed detection of abnormal file activity or access patterns**
- **Inability to distinguish between high I/O workloads and malicious events**
- **Lack of automated data-layer remediation actions**

InfoScale turns any application stack and all data into real-time security intelligence.

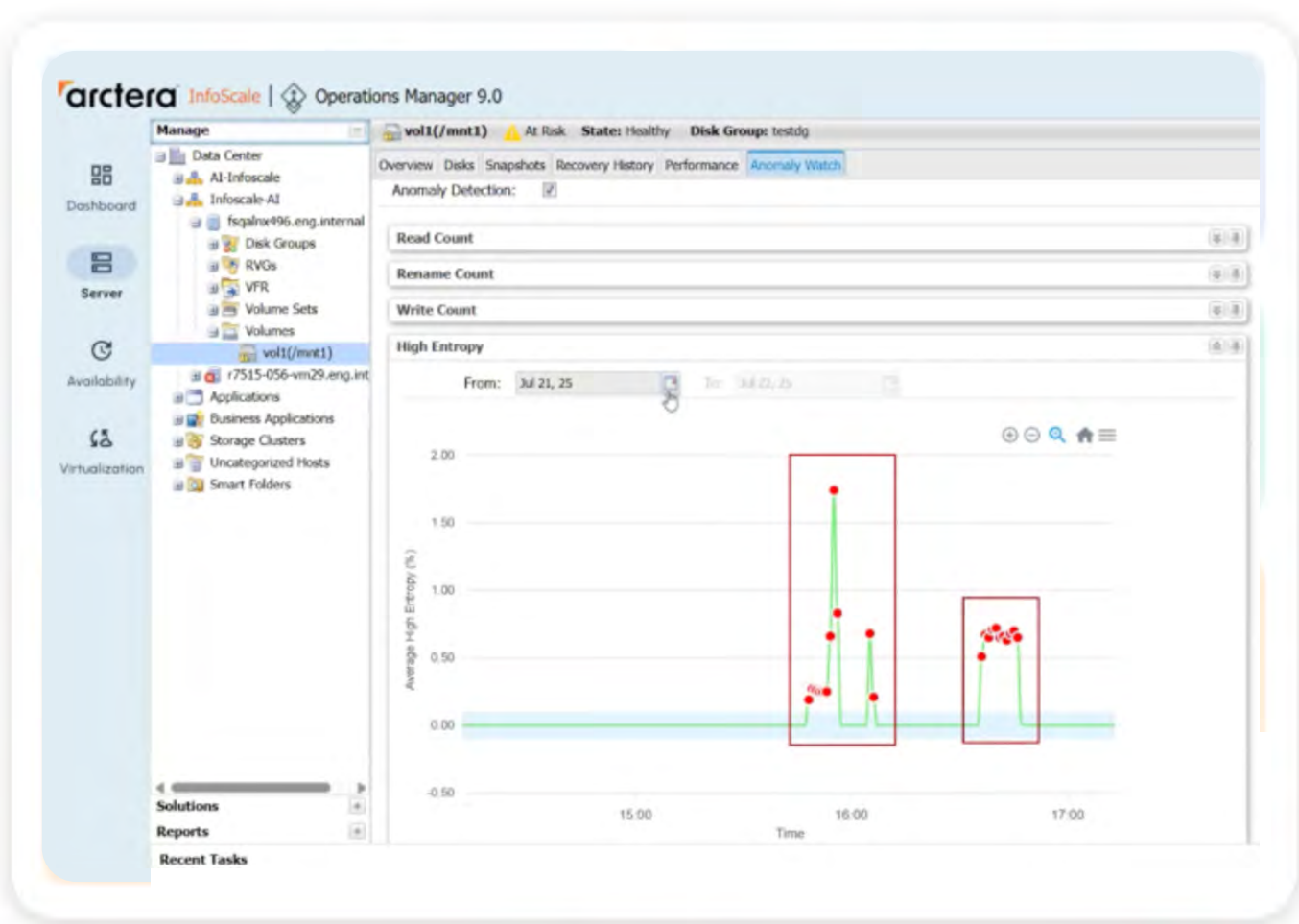
Offering a new level of cyber resilience and operational visibility.

# Redefining Resilience AI-Powered Anomaly Detection

InfoScale correlates activity across any infrastructure and the full application stack. Powered by AI, behavior analysis flags deviations and pinpoints true anomalous activity that infrastructure or storage bound tools miss.

## What It Detects:

- Sudden IOPS spikes inconsistent with baseline behavior
- Unusual access patterns (e.g., unexpected users or workloads accessing sensitive directories)
- Anomalous encryption activity suggestive of ransomware
- Silent data corruption or degraded storage performance
- Malicious data deletions, volume activity, and deviations



InfoScale's built-in AI models are capable of detecting abnormal activity within seconds of deviation from baseline behavior—up to 10x faster than traditional security analytics systems relying on log aggregation or endpoint alerts. This ultra-fast detection gives operations teams a critical head start often before damage begins or spreads, enabling a proactive response that protects business continuity.

# Unified Detection, Isolation and Recovery for Real-Time Resilience

Detection alone isn't enough. Only InfoScale's anomaly detection, **data isolation**, and recovery form a full a unified operational cyber resilience loop.

- **Detect:** Real-time anomaly detection at the data and app layers
- **Isolate:** Trigger volume or workload isolation to prevent spread
- **Recover:** Instantly restore from clean datapoints or replica copies

Together, these capabilities enable InfoScale to **respond to threats intelligently**, even when security teams are still triaging alerts—ensuring that your recovery point objective (RPO) and recovery time objective (RTO) remain intact under any attack, disruption, or accidental crisis.

Capability	Business Impact
<b>Full Stack Anomaly Detection</b>	Identify and isolate threats <b>before</b> they cause widespread impact.
<b>Behavioral Baselines</b>	Detect data threats without relying on pre-existing signatures or rules.
<b>Automated Remediation</b>	Trigger recovery, isolate workloads, or generate alerts automatically.
<b>Unified Across VM + Container Workloads</b>	Monitor and protect all storage-attached workloads in hybrid environments.
<b>Policy Integration</b>	Tie data-level detections to enterprise security and recovery policies.

# Any App, All Data, Anywhere

InfoScale full stack **resilience platform** delivers integrated visibility, data management, performance, and protection across:

- **Virtual Machines** (VMware, Nutanix, Suse, Red Hat Virtualization, OpenShift Virtualization)
- **Containerized Workloads** (Docker, Kubernetes-based)
- **Traditional and Modern Storage Volumes**
- **Multi-site and Hybrid Cloud Architectures**

**Trusted by over 1,700 global enterprises for real-time resilience.**

**Proactive Resilience** – Prevent outage impact before it disrupts operations.

**70% Reduction in False Positives** – Ensure teams act on threats, not noise.

**98%** - Reduction in application downtime.

**Full Stack Visibility** – Across apps, vms, containers, storage, and hybrid clouds.



# The InfoScale Advantage

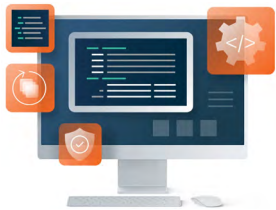
InfoScale integrates AI-based detection directly into the **full application stack**, enabling enterprises to turn attack targets into an operational advantage. Instantly know if downtime or data loss triggering activity is impacting your data or application uptime.

## Use Cases

- **Early Ransomware Detection** before encryption propagates
- **Monitoring Insider Activity** to continuously defend data
- **Validation of AI Workload Behavior** against expected baselines
- **Proactive Protection for Data** and applications
- **Compliance-Driven Activity Logging** and anomaly documentation

"We've built walls around our data with access controls and encryption. But, with the sophistication and speed of attacks, it's not always enough. Operations teams now need attack intelligence inside the data."

Enterprise Infrastructure Architect



## Next Steps

Protect data by detecting threats at the target, your operations. InfoScale's anomaly detection is available today as part of the InfoScale Resilience Platform.

**Learn more about InfoScale's intelligent full stack resilience platform**



**Schedule a demo with our technical team**



**Download the platform overview**



**Contact us: [arctera.com/infoscale](https://arctera.com/infoscale)**

## About Arctera

Arctera helps organizations around the world thrive by ensuring they can trust, access, and illuminate their data from creation to retirement. Created in 2024 from Veritas Technologies, an industry leader in secure multi-cloud data resiliency, Arctera comprises three business units: Data Compliance, Data Protection, and Data Resilience. Arctera provides tens of thousands of customers worldwide, including 70% of the Fortune 100 with market-leading solutions that help them to manage one of their most valuable assets: data. Learn more at [www.arctera.io](https://www.arctera.io). Follow us on X [@arcteraio](https://twitter.com/arcteraio).



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