SCALITY | ARTESCA

DATASHEET

# Simple S3 object storage for immutable, cyber-resilient ransomware protection

**Your last line of defense against any threat to data recoverability? A cyber-resilient storage solution.**

**Immutable storage has become a cornerstone of cybersecurity. But in the era of AI-powered ransomware, it's no longer enough. Protecting data against the widest possible range of current and future threats requires a new way of thinking — one where immutability is just one piece of the puzzle.**

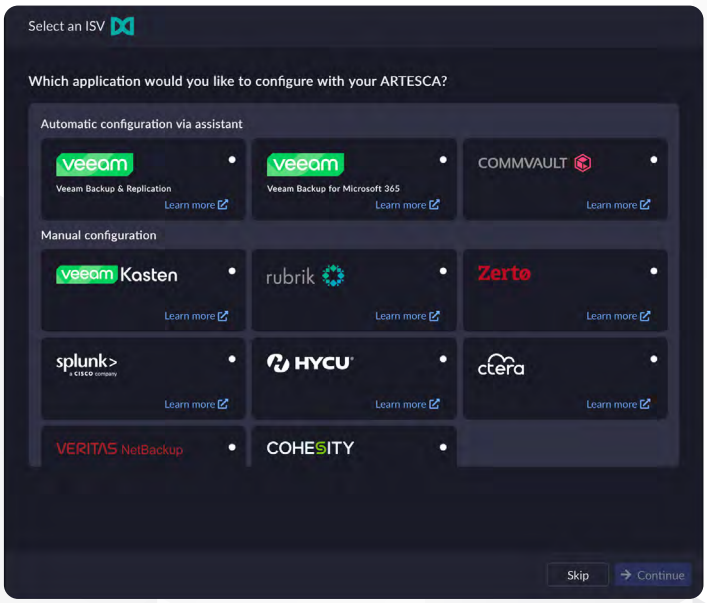
**Designed to provide the strongest form of immutability plus end-to-end cyber resilience, Scality ARTESCA is the only solution that safeguards data at five core levels for unbreakable protection against the cyberthreats of today and tomorrow.**

With backup repositories targeted in 89% of ransomware attacks[1], organizations are seeking surefire ways to mitigate risk, avoid paying extortionate ransoms, and maintain uninterrupted business operations amidst inevitable assaults on their data.

Raising the stakes even higher is a new era of AI-supercharged cyberthreats that's not just on the horizon — it's here now. To protect data against increasingly sophisticated and evasive threats, your solution must meet a new standard of protection.

Scality ARTESCA is built on the strongest zero-trust data security principles to meet the evolving real-world data protection needs of cybersecurity-obsessed and cost-conscious organizations. Offering an optimal balance of security, performance, and ease of use, it's the most secure, efficient, and simple target for securing data from the most popular backup software vendors.

Become unbreakable against ransomware — no deep storage or OS experience required




[1] 2025 Ransomware Trends and Proactive Strategies, Veeam

# 1 solution. 5 levels of cyber resilience.

**Scality ARTESCA is the only backup storage solution that enables end-to-end cyber resilience with unbreakable data protection at every level of the system — from API to architecture.**

## 1. API-level resilience

By mimicking application commands, ransomware attackers attempt to encrypt, modify, or delete stored backups.

ARTESCA stops these attacks in their tracks with support for S3 Object Locking APIs, ensuring backups are immutable the instant they're created.

- Amazon S3 object locking immutability with configurable data retention policies and compliance mode
- Automated enforcement of validated IAM access control policies

## 2. Data-level resilience

While application-level immutability provides powerful defense against ransomware, it can't prevent data exfiltration attacks or other malicious access on the network or by unauthorized admins.

ARTESCA thwarts would-be attackers with advanced data-at-rest encryption, user authentication, secure connections and more.

- Secure HTTPS/TLS S3 termination and AES 256-bit data encryption-at-rest
- Multi-factor authentication (MFA) for secure UI logins, plus automated firewall rules on deployment

## 3. Storage-level resilience

If attackers can't defeat higher-level defenses, they may attempt to penetrate the system below the API layer in order to modify data on the physical disk drives themselves.

With ARTESCA, the success of these low-level attacks is virtually impossible thanks to distributed erasure coding technology that renders data indecipherable.

- Data is encoded and spread across the cluster, impeding an attacker's ability to extract meaningful data
- Metadata in secure repository on intrinsically immutable object storage layer
- Scale-out from 50TB to multi-petabytes with dual-level data protection for up to 11 nines of durability

## 4. Geographic-level resilience

Data stored in a single location is particularly vulnerable to cyberattacks. Even air-gapped systems can be breached by attackers with unauthorized physical access, or destroyed by fires, flooding, or other natural disasters.

To eliminate the risks of single-site backup storage, ARTESCA employs replication for mirroring of data across data centers — and enables easy multi-site deployment for application-managed replication.

- Deploy ARTESCA in remote locations for immutable offsite storage to eliminate the "all data in one place" problem

## 5. Architecture-level resilience

Storage solutions designed before the ransomware era can be defeated by attacks below the API, network and administrative layers.

ARTESCA is a true object storage solution that's intrinsically immutable, meaning data is always preserved in its original form once stored. A security-hardened operating system mitigates the impact of common vulnerabilities and exposures.

- Integrated Linux operating system precludes root access and reduces exposure to CVEs

# Key features

## Simplicity

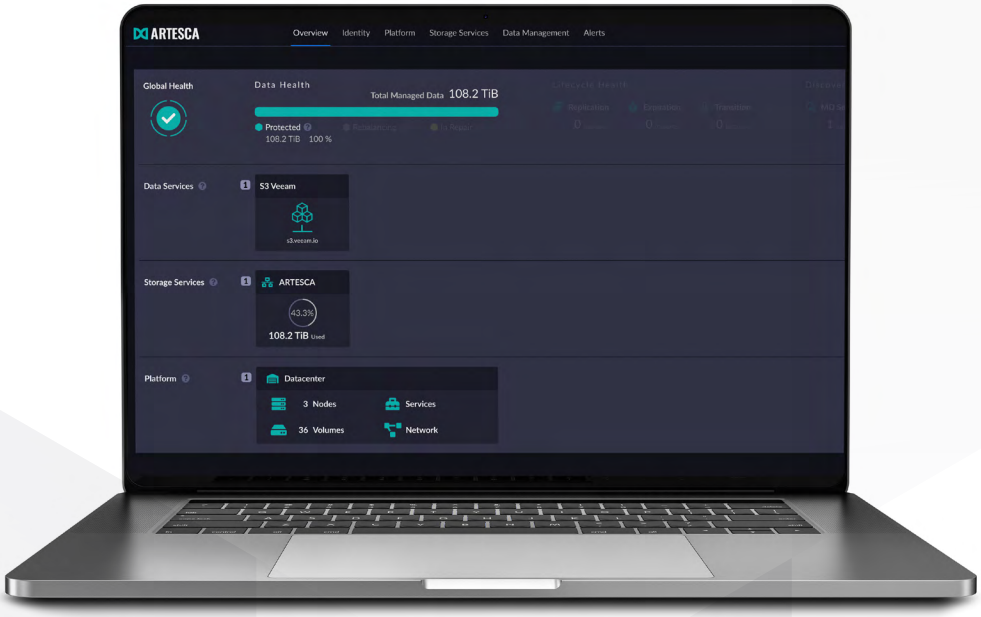
- Connectors to simplify application integration to best practice recommendations
- Streamlined, intuitive, feature-rich user interface
- New software update notification and simple upgrade including OS
- Deploys on industry-standard x64/AMD servers or as a production-ready VM appliance
- Supports a wide range of hybrid and all-flash storage server platforms
- Easily increase capacity organically by drive or server addition
- Scale out from TBs to 8.5PBs usable capacity
- Comprehensive S3 API support
- Full-featured trial of the OVA for VMware vSphere

## Security

- Immutability guaranteed with S3 Object Lock, data retention policies and compliance mode
- Secure S3 connections via HTTPS/TLS endpoints
- AES 256-bit data encryption-at-rest
- S3 v4 authentication and access control policies
- AWS IAM-compatible identity management
- Hardened, streamlined and prepackaged operating system
- Built-in auto configured firewall rules and locked down ports
- Secure MFA-enabled admin UI

## Data protection

- Local and network erasure coding for highest levels of data durability with lowest overhead and improved recovery performance
- Data immutability via S3 Object Lock, plus end-to-end CORE5 cyber resilience

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