Acronis Storage

Universal Software-Defined Storage for Your Datacenter

Acronis Storage is a software-defined storage solution that allows you to quickly and easily transform industry-standard hardware into protected, enterprise-grade storage. Universal, cost-efficient, and scalable, it combines block, file, and object workloads in a single solution and is built on a proven architecture that has been protecting over 100 petabytes of production data in Acronis Data Centers for more than six years. It incorporates Acronis CloudRAID™ for reliable data protection and Acronis Notary™ with blockchain technology to ensure data integrity.

EASY
- Enjoy a high-level dashboard, detailed performance data, and individual disk and network stats in an easy-to-use GUI.
- Receive real-time alerts about issues, misconfigurations, and failures in a cluster to take immediate action.
- Upgrade the system in one click with no production impact.

UNIVERSAL
- Supports block, file, and object storage in a single solution.
- Integrates with all Acronis products.

COST-EFFICIENT
- Provides an attractive price point and flexible licensing models to reduce costs.
- Uses standard x86 hardware to lower costs even further.

SAFE
- Designed to protect against component failure and data corruption with hot, warm, and cold data using Acronis CloudRAID.
- Provides file authentication for regularity and validation purposes using Acronis Notary with blockchain.
- Encrypts data at rest using AES-256 bit encryption.
- Provides object storage geo-replication, which copies data across all data centers to provide a higher level of data protection and security.
- Includes an audit log, which provides a full list of actions and detailed descriptions.

SCALABLE
- Scales from gigabytes to exabytes to allow seamless business growth.

ACRONIS STORAGE LOWERS TOTAL COST OF OWNERSHIP

- Works with industry-standard hardware to lower costs
- Improves IT productivity with agile deployment in 14 clicks
- Offers one-click system upgrades, with no impact on production systems
- Reduces disk overhead down to 17 percent with Acronis CloudRAID
- Offers an attractive price point and flexible licensing to accommodate each customer's specific business requirements

MINIMUM SYSTEM CONFIGURATION

Cluster Size: One physical node or virtual machine,
5 Nodes recommended
CPU: 2 cores
RAM: 2GB+
Disk: 3xHDDs, 100GB min.
Network: 1 Gbit Ethernet

RECOMMENDED CONFIGURATION

Cluster Size: 5+ nodes
CPU: 4+ cores
RAM: 16GB+0.5 GB per HDD
Disk: 12+ HDD/SSD per server

USE CASE AND WORKLOAD FEATURES

- **Archive, high-performance, and file storage** for all-in-one storage support
- **High-performance block storage (hot data)** for virtual environments, databases, and other applications
- **Shared (warm data) file storage** for files, backups, virtual infrastructures, and web hosting
- **Object storage** for big data, archival data, backups, application storage, static web content hosting, and online services storage
- **Acronis Backup Gateway** to provide seamless integration with Acronis backup products
- **iSCSI, NFS, Amazon S3, and Acronis Backup API** are supported to ensure compatibility with applications and workflows
- **SSD caching** to deliver maximum performance
- **Hot plug for SSD/HHD** to increase/ decrease capacity or replace a drive without downtime
- **Automatic cluster rebalancing** to improve performance and reliability
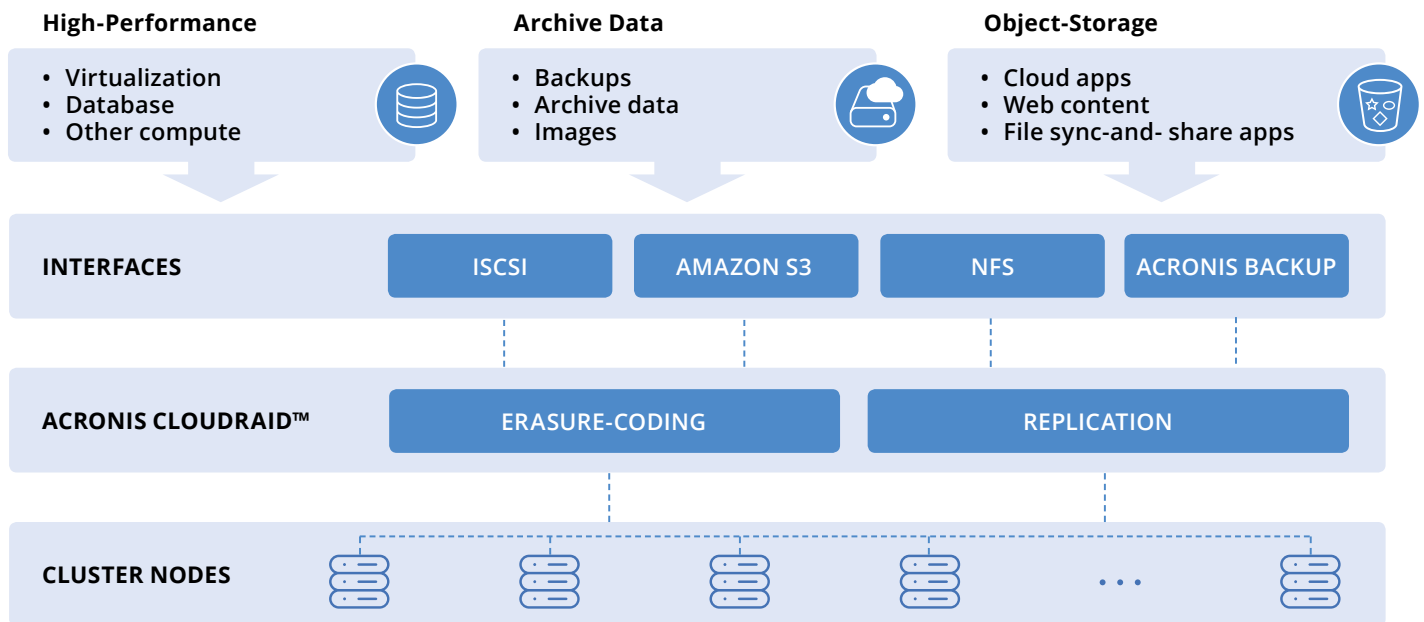- **Storage tiers** to optimize storage efficiency

DATA PROTECTION FEATURES

- **Acronis CloudRAID** erasure-coding and replication to protect data even when multiple nodes fail
- **Acronis Notary** with data in blockchain and replication to guarantee data authenticity
- **Data encryption** at rest using AES-256 bit encryption
- **Object storage geo-replication** to provide data access across multiple data centers
- **Flexible number of replicas** to minimize chances of data loss
- **Data checksumming and scrubbing** to ensure data integrity

MANAGEMENT AND INFRASTRUCTURE FEATURES

- **Per-workload configuration and tuning** to maximize individual application performance
- **Single-panel, secure web management interface** with role-based access to improve IT productivity
- **Audit log** to track all user actions
- **Alerts** to immediate address system issues
- Designed to **scale from gigabytes to exabytes**, allowing seamless business growth
- Non-disruptive **on-line expansion of nodes and disks**

ACRONIS STORAGE DATA FLOW

High-Performance
- Virtualization
- Database
- Other compute

Archive Data
- Backups
- Archive data
- Images

Object-Storage
- Cloud apps
- Web content
- File sync-and- share apps

INTERFACES | ISCSI | AMAZON S3 | NFS | ACRONIS BACKUP

ACRONIS CLOUDRAID™ | ERASURE-CODING | REPLICATION

CLUSTER NODES

Acronis