

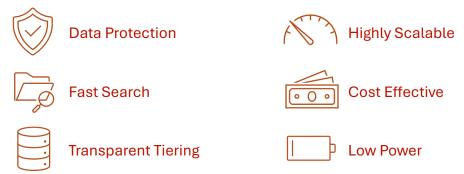
Uncompromising Data-at-Rest Security

RedData Archive: Low-Cost Scalable Archive & Data Protection Solution with Automated Tiering

RedData offers a cost-effective end-to-end archive solution for data protection. It safeguards any data using the RedData Archive Manager (AM) software, which integrates seamlessly with standard file systems and industry-standard backup solutions, providing transparent tiering for efficient data and storage management.



The solution reduces operating cost with its ZeroWatt cold data power profiles and nearly triples storage density through hardware or software data compression.



The AM enables Bare Metal and VM's to deploy a (very) small primary file system, yet to have access to an unlimited amount of back-end data. It is scalable by design and can be deployed as stand-alone (all-in-one) or distributed across a large storage infrastructure.

Pairing the RedData AM software with hardware from RedData's storage systems portfolio increases data center cost savings. The solution enables a combination of one or more storage tiers consisting of flash-based solid-state drives for fast storage, hard disk drives and/or tape for capacity storage, and Cloud storage.

RedData Archive is a complete archiving system that provides multiple capabilities in a single solution:

- Scalable tiered active/cold archive storage platform that connects to a variety of storage services
 for unparalleled performance and scale. It works natively with any tape technology for legacy
 storage compatibility.
- Catalog with an extensive metadata model for searching of all files from any attached client. The
 catalog provides a central repository of all connected and distributed data sources, allowing you
 to search through billions of files out of band, and optionally to export the results in csv or json
 file formats.
- 3. Toolset to create policy driven operations for data pools, storage media, and archive rule sets, allowing to replicate data sets in seconds without consuming additional backend space. This enables automated and transparent data migration, allowing for media to be added and removed without ever needing to interrupt current operations.



Data Protection Solutions

- 4. Constant data protection for all files with no need for a backup window or snapshot frequency as all files are copied and archived on file save or close. A user-defined policy defines the number of file versions to maintain or sets immutability, supporting file or file system recovery to any point-in-time or to another location, almost instantly, even with millions of files.
- 5. Power management functionality to support fine-grained power management at the individual storage device, device groups, or storage enclosure level. Only when data transfer is required will the system selectively power-on the necessary devices. Meanwhile, filesystem meta-data is always available via the Catalog and does not require data transfer, thereby leaving the system in a very low power state for optimized power management.

Combining the AM software with RedData's storage hardware truly enables a low-cost scalable archive and data protection solution.

Software - RedData Archive Manager (AM)

- Tiered storage for data access to distributed systems (Cloud to Tape) via a single namespace.
- Uses any available storage (disk, tape, cloud) as archive storage or replication copy.
- Catalog and index services to find files from any attached client.
- Policy driven tools for managing data pools, storage media, archive sets, storage capacity, provisioning, quotas, and power management.
- RHEL (Rocky9 preferred), Ubuntu LTS on Bare Metal or VM deployments.
- Gateway support standard fs/nfs and S3 get/put.

Hardware - RedData high-speed storage platform

- Two -server modules each AMD EPYC™ CPUs provide 128 PCIe lanes per CPU.
- PCIe Gen5 Platform with up to 32 PCIe Gen5 dual-ported NVMe SSDs in EDSFF E3.S slots, or PCIe Gen4 Platform supports up to 24 PCIe Gen4 dual-ported NVMe SSDs in U.2 slots.
- Network expansion with 4x PCle x16 add-in-cards.
- Hot-pluggable servers, power supplies, fans, and drives.

Hardware - RedData high-capacity storage platform

- JBOD with 102-drive capacity in a 4U enclosure, drive slots compatible with LFF or SFF drives, 12Gb/s support.
- Dual SAS-4 JBOD I/O modules for fail-over, each with 4-wide SFF-8674 24Gb/s mini-SAS HD expansion ports.
- Drive array can be zoned in four pre-defined zoning configurations.

Available Configurations

For more information about our configurations, please contact us at: inquiries@rpics.com.

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