

Synology®

ActiveProtect Appliance Buyer Guide

Best practices for enterprise data protection



Table of Contents

Synology data protection solutions	03
Key features for enterprise IT managers	04
Deployment scenarios	06
Synology ActiveProtect appliance specs	08

Synology data protection solutions

With data at the heart of every organization, a cyber resilient data protection solution is what you need to back up, recover, and secure your data efficiently. Protect your data against malware attacks and other threats and recover data with speed in case of accidental deletion or system downtime with Synology ActiveProtect appliance.

The backup performance you need

Ultra-fast backups

7x

faster¹

Accelerated data recovery

2x

faster¹

Optimize storage capacity

80%

data reduction^{1,2}

Maximize efficiency

-99%

data transmission^{1,3}

Build a strong data protection plan for your business

Consolidate backups of SaaS applications, virtual machines, physical servers, PCs, Macs, file servers, and databases with ActiveProtect appliance to ensure fast recovery and continued service availability.

SaaS	Virtual Machines	Physical Servers	PC/Mac	File Servers	Databases
	 	 	 	  SMB File Server	 

ActiveProtect appliance highlights

- **Taking a modern backup approach:** Perform backups with speed and reduce bandwidth usage and storage space with ActiveProtect’s modern backup capabilities and its advanced deduplication techniques
- **Defend against ransomware:** Prevent data modifications or deletions with built-in immutability. Set air-gapping policies for servers to enter isolation mode immediately after backups are complete to prevent data protection gaps
- **Perform multi-site, multi-geo backups:** Choose where your data resides and store encrypted copies of backups locally to meet regional data residency requirements
- **Automate data tiering:** Move data automatically to remote storage options such as SA or HD Series, XS and XS+ models, or C2 Object Storage, Amazon S3, or Wasabi to scale your backup infrastructure

Key features for enterprise IT managers



✓ Secure your backups with a cyber resilience strategy

- Tamper-proof your backups to ensure no changes or deletions can be made to your data and that there are untouchable versions of your data for a predetermined period of time
- Isolate your backup copies with a logical or physical air-gapping strategy for data redundancy so that your backups are securely stored and clean copies can be recovered anytime
- Restrict employee access to data by delegating permissions for viewing, backing up, or restoring data to prevent privilege misuse

📄 Streamline your data protection

- View your entire backup infrastructure, including primary backups, backup copies, archived data, and tiered data on a single console
- Back up, manage, and monitor thousands of on-prem or SaaS workloads via a centralized platform for unified management
- Define backup policies, specify backup scope, and select time-based, event-based, or manual backups to meet SLA requirements
- Track backup and restore activity via hourly or daily scheduled reports

🔄 Data recovery assurance

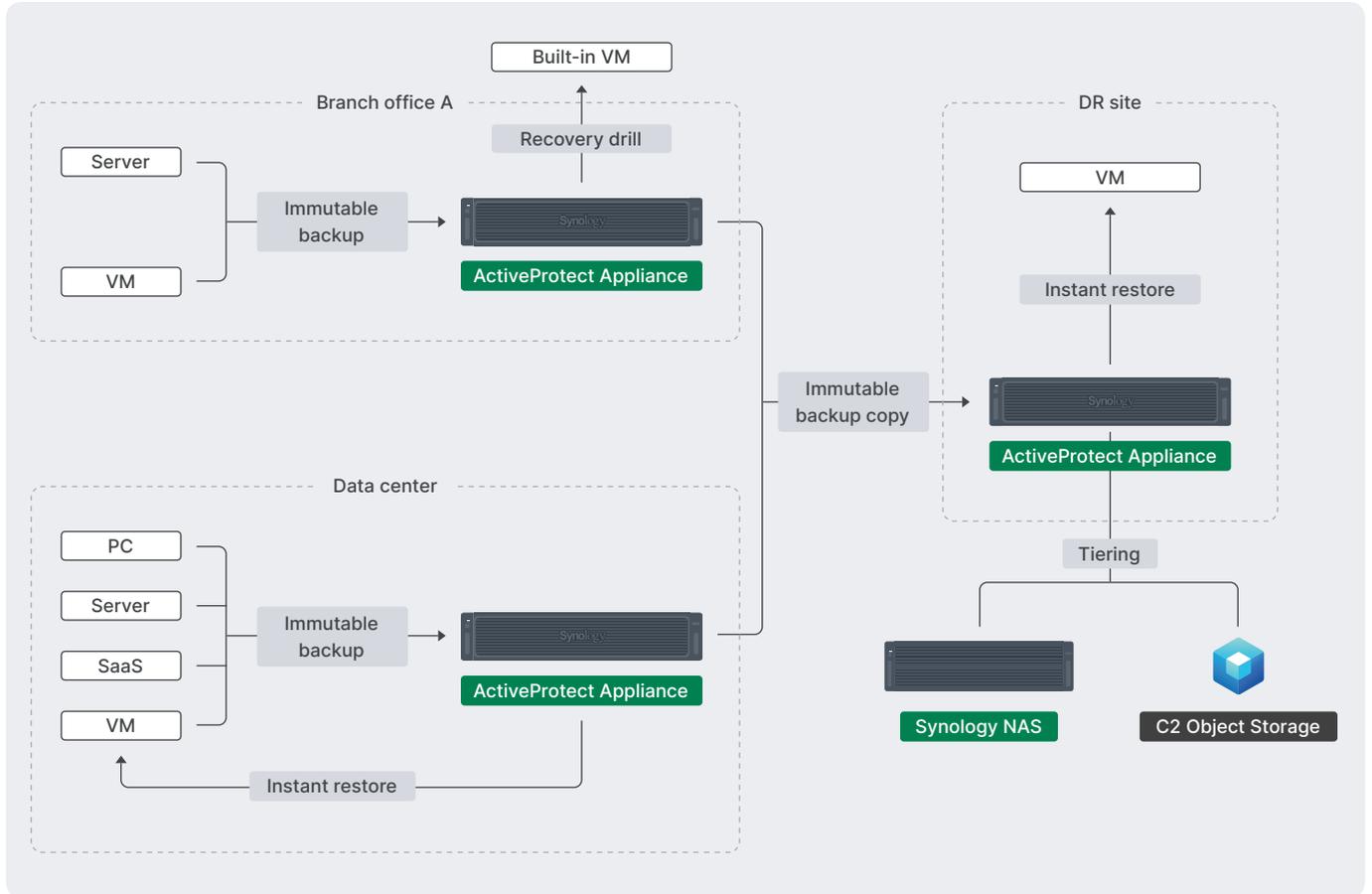
- Test your backups by running disaster recovery drill periodically via a built-in hypervisor to ensure that your data can be successfully recovered when needed
- Backed up data is automatically checked to ensure that an accurate copy of your data is preserved
- Errors or corrupt data is detected and repaired with self-healing capabilities for data accuracy

Long-term data retention made simple

- Move data automatically to an off-site storage of your choice with tiering and store backups to meet long-term data retention requirements
- Leverage a wide variety of remote storage options to scale your backup infrastructure and safeguard data for as long as needed to meet regulatory and compliance requirements

Deployment scenarios

As large corporations own large amounts of data, enterprises must deploy a backup solution that guarantees performance, scalability, as well as availability. ActiveProtect appliance allows businesses to streamline their data backup operations and meet deployment requirements for various scenarios.



Manage and view thousands of workloads in one place and back up workloads automatically under immutable protection plans that prevent data tampering or deletion. Boost your cyber resilience by running disaster recovery drills via a built-in hypervisor, storing backup copies in an isolated zone, or automatically moving your data to an on-prem or cloud backup repository such as SA or HD Series, select XS/XS+ devices, C2 Object Storage, Amazon S3, or Wasabi to retain legacy data and meet regulatory compliance.

Perform multi-distributed backups no matter where your offices are located by using a purpose-built backup appliance to centrally manage your entire backup infrastructure.

- **One management server:** Safeguard all your workloads and track your backups, no matter its location. View your entire backup infrastructure with a single console, thanks to Synology ActiveProtect appliance
- **One or more managed backup servers:** Set up multiple managed backup servers and store backups automatically, with an intuitive user interface, allowing you to scale at any time to meet evolving data needs
- **One or more backup copy targets:** Implement a multi-layered air-gapped backup strategy to meet logical and physical isolation. Store clean copies of your backups on at least one backup appliance so that your data can be recovered, in case of sudden data loss
- **One tiering target:** Perform data tiering and store encrypted copies of your data remotely to retain legacy data and meet regulatory compliance by storing data off-site, and free up space on your backup appliances

For uninterrupted data availability, we recommend using a secondary backup appliance as a failover management server. This server will take over management tasks if the primary management server fails.

Synology ActiveProtect appliance specs

Meet your organizational needs with Synology ActiveProtect appliance.

	DP7400	DP7200	DP340	DP320
Model name				
Form factor	2U (RU)	2U (RU)	Desktop	Desktop
Suggested backup source ⁴	83.5 TB	56 TB	14.5 TB	5 TB
Storage configuration	<ul style="list-style-type: none"> • 10 × 20 TB HDD (RAID 6 + 1 Spare) • 2 × 3840G SSD (RAID 1) 	<ul style="list-style-type: none"> • 10 × 12 TB HDD (RAID 6 + 1 Spare) • 2 × 1920G SSD (RAID 1) 	<ul style="list-style-type: none"> • 4 × 8 TB HDD (RAID 5) • 2 × 400G SSD (RAID 1) 	2 × 8 TB HDD (RAID 1)
Suggested cluster size	<ul style="list-style-type: none"> • Manage up to 2,500 servers or 150,000 workloads in a cluster⁵ • Can also function as a managed server 	<ul style="list-style-type: none"> • Manage up to 2,500 servers or 150,000 workloads in a cluster⁵ • Can also function as a managed server 	Managed in a cluster that supports up to 2,500 servers	Managed in a cluster that supports up to 2,500 servers
Built-in virtual machines for instant restoration	9 ⁶	9 ⁶	2	1
CPU	AMD EPYC 7272 (12 cores)	AMD EPYC 7272 (12 cores)	AMD R1600 (2 cores)	AMD R1600 (2 cores)
Memory	64 GB (Max. 512 GB)	32 GB (Max. 512 GB)	16 GB	8 GB
Network interface	<ul style="list-style-type: none"> • 1 x 1GbE RJ-45 Port (Management) • 2 x 10GbE RJ-45 Port (Data transfer) • (Optional) 2 x 10GbE RJ-45 / 25GbE SFP28 (Data transfer) 	<ul style="list-style-type: none"> • 1 x 1GbE RJ-45 Port (Management) • 2 x 10GbE RJ-45 Port (Data transfer) • (Optional) 2 x 10GbE RJ-45 / 25GbE SFP28 (Data transfer) 	<ul style="list-style-type: none"> • 1 x 1GbE RJ-45 Port (Management) • 1 x 10GbE RJ-45 Port (Data transfer) 	<ul style="list-style-type: none"> • 1 × 1GbE RJ-45 Port (Management) • 1 × 1GbE RJ-45 Port (Data transfer)

Notes:

1. Performance figures have been obtained through internal testing by Synology Inc.
2. Maximize storage capacity with cross-site deduplication and global deduplication.
3. Eliminate redundant data with source-side deduplication to enable fast data transmission.
4. Synology ActiveProtect Appliance is a preconfigured backup solution that comes with an estimated backup capacity that has been obtained via internal testing to ensure optimal backup efficiency.
5. ActiveProtect license is required.
6. When equipped with 128 GB of memory (additional memory modules required), the maximum number of virtual machines can be expanded to 17.



Get in touch

Contact our sales team to learn how Synology can support your backup needs.



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