

From Disaster Recovery to Cyber Recovery:

6 Key Elements for Enterprise Data Protection Strategy

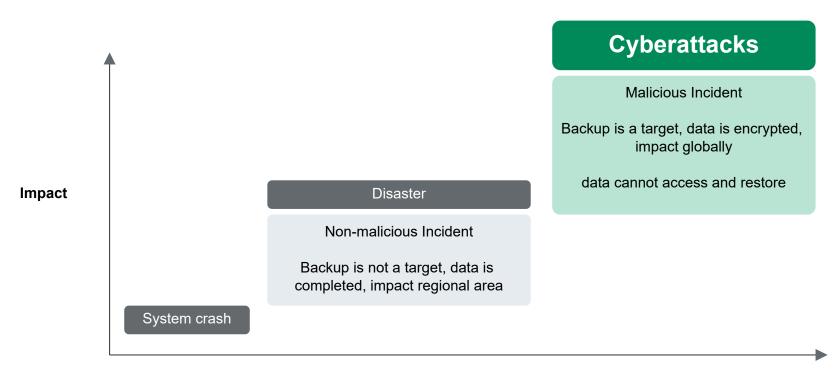
ANZ Country Manager
Jasmine Chiu

Increasingly complex and frequent cyberattacks

Reports: Change Healthcare cyberattack exposed data of 190 million people



Trends in Data Protection Positioning



Complexity

From Disaster Recovery to Cyber Recovery

	Disaster Recovery	Cyber Recovery	
Event	Natural disasters, hardware failures	Ransomware, cyberattacks	
Scope	Partial: localized	Comprehensive: entire enterprise or even industry supply chain	
Data access	Ability to back up and restore	Unable to back up and restore	
Focus	System service availability	Data integrity and confidentiality	

Australians Hit With One Cyber Attack Every Second in 2024

47 million Data Breaches Recorded

Soaring Data Breach Costs

\$4.26m

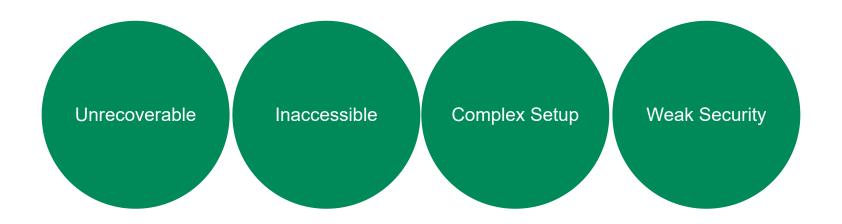
average cost of a data breach in Australia

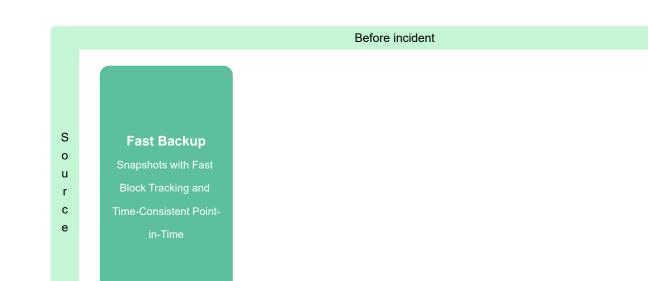
+27%

since 2020

What challenges hinder businesses from protecting data?

The Common Blind Spots of Deploying Data Protection



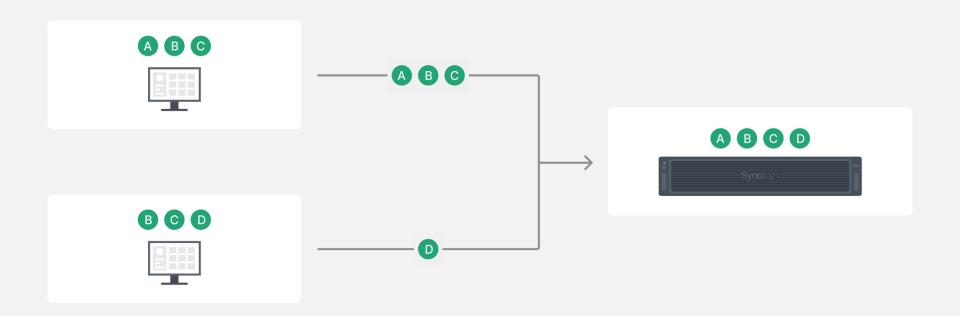


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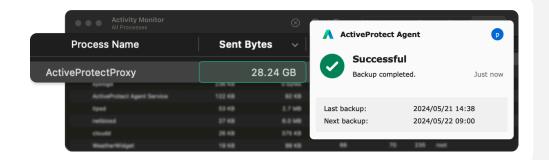
After incident

Source-side Deduplication

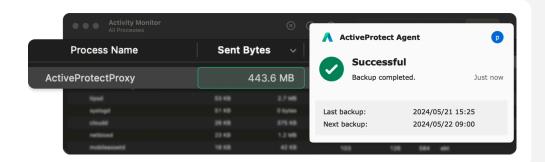


Saves 99% of Redundant Data Transmission Traffic

Device A Full Backup



Device B Full Backup



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Built-in quality assurance



Self-healing Backup

BTRFS checksum with RAID repairs damaged files automatically



Backup Verification

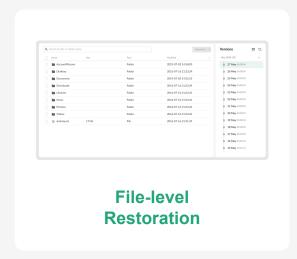
Takes a video when the backup image is imported



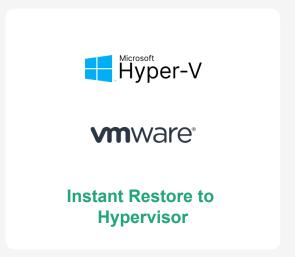
Sandbox environment

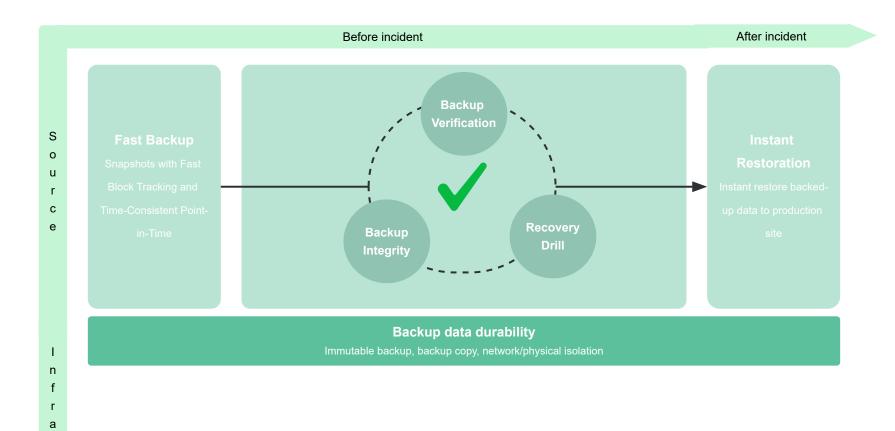
Allows for regular restoration drills using the built-in hypervisor

Diverse Restoration Capabilities Restore key data according to your needs









Enhance Integration of Remote Storage Security



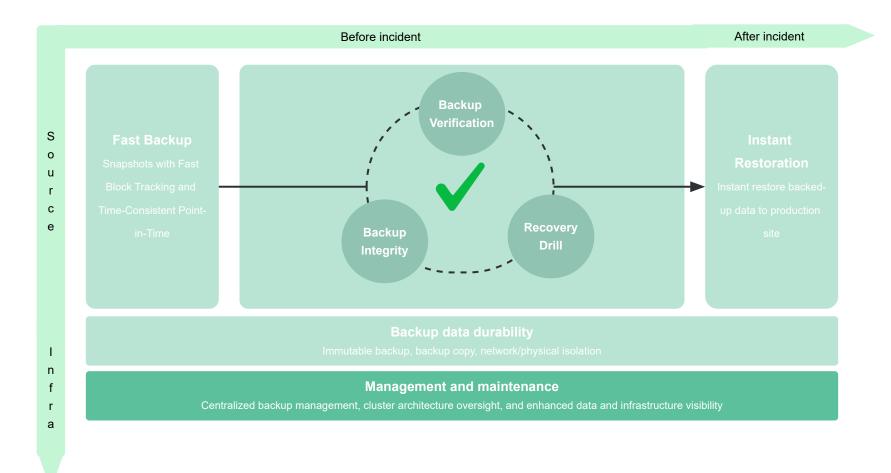
Client-side Encryption

Protect backup copies through client-side encryption mechanisms to ensure that all backup copies are encrypted before they are stored, preventing unauthorized access to the data.



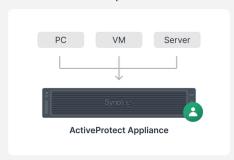
WORM Storage

Store backup copies in remote storage, with retention periods bound to prevent deletion or modification during the data retention period. This safeguards against any malicious attacks on backup copies.



Multiple Servers Deployment

Headquarters



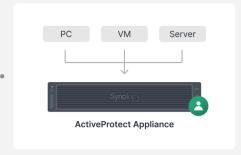
Branch Office A



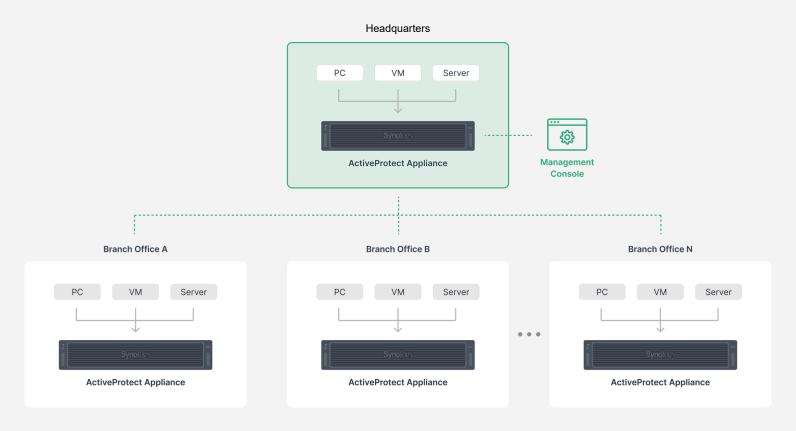
Branch Office B



Branch Office N



Single Interface for Multiple Servers



High Scalability to Protect the Entire Organization's Data

2.5K

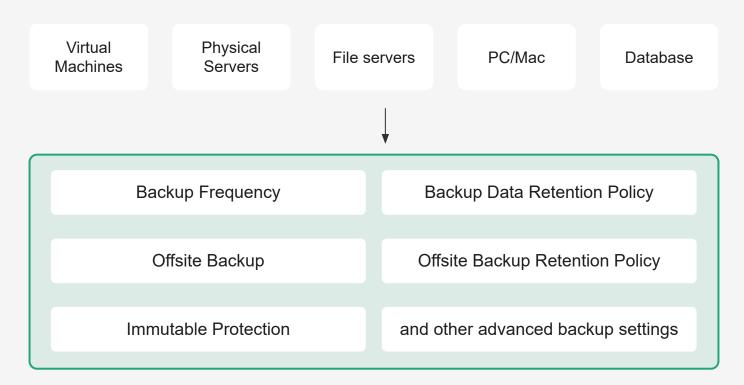
Site / Backup Server

150K

Backup Sources

(Devices and SaaS accounts)

Single Protection Plan Covering All Backup Configurations



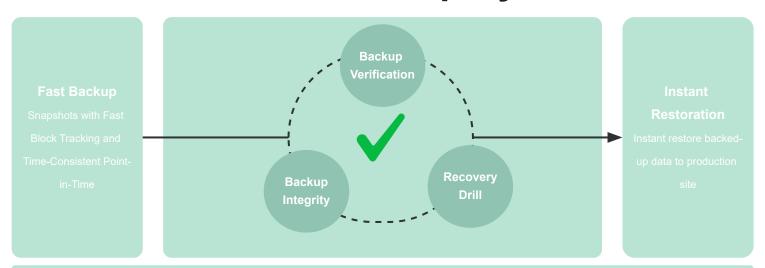
Auto Protection

- Virtual Machine: Apply protection policies automatically based on the host/cluster/folder where the virtual machines reside
- Cloud Service: Apply protection policies automatically based on the group to which the account belongs
- Physical Device: During deployment, input the **Connect Key** to establish a connection and apply protection policies automatically



ActiveProtect Appliances

Trusted Backup System



Backup data durability

Immutable backup, backup copy, network/physical isolation

Management and maintenance

Centralized backup management, cluster architecture oversight, and enhanced data and infrastructure visibility

System security

Granular access control and infrastructure security

Designed with Data Security at its Core



Access Control

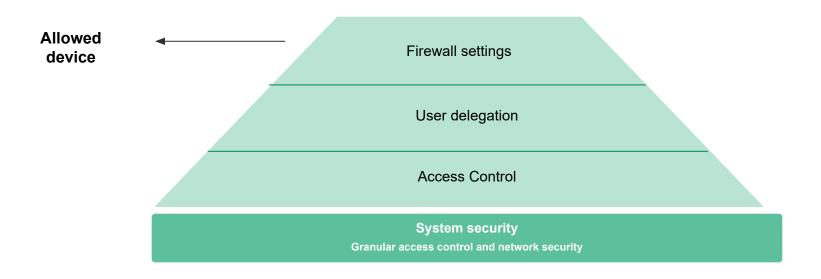
- Basic: Account & password
- Multi-factor (MFA): Integrating with directory services and supports SSO (SAML 2.0 and OIDC)
- Two-factor (2FA): Admin account



Granular User Permission

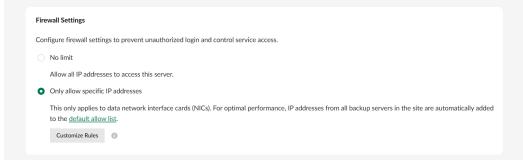
		Infra IT Team	Backup IT Team	Employee	Auditor
System Management	Storage	V	X	Х	X
	Hardware config	V	X	X	X
	Networking	V	X	X	X
	System security	V	X	X	X
Backup	Protection Plan	X	V	X	X
	Backup config	X	V	X	X
	Backup server	X	V	X	X
Restore	Restore all data	X	V	X	X
	by service restore	X	V	V	X
	by backup server	X	V	X	X
Monitoring	Backup status	X	V	X	V

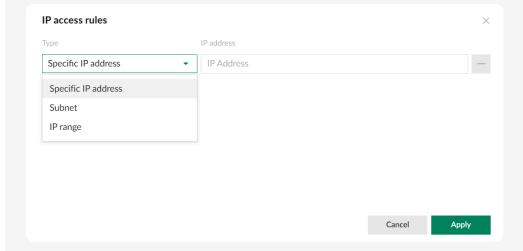
Designed with Data Security at its Core



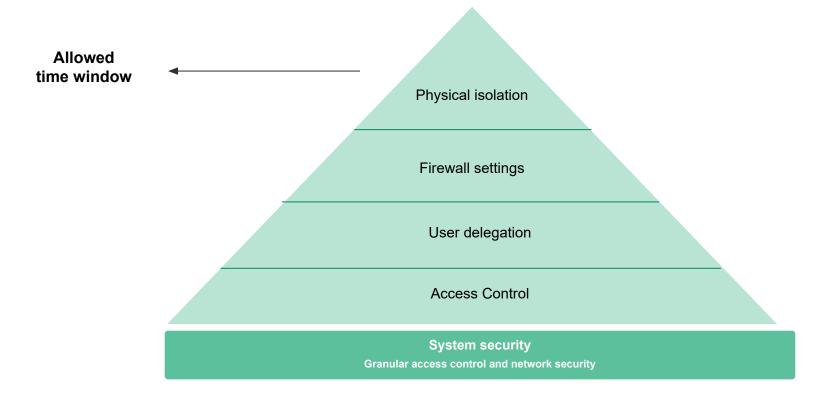
Accessible Only to Authorized Devices

Through firewall settings, only devices on a specified IP whitelist are allowed to access the backup server



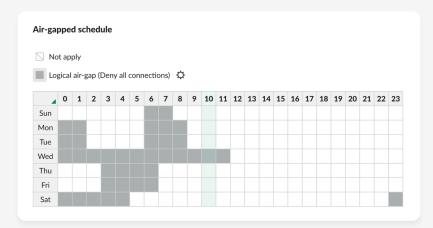


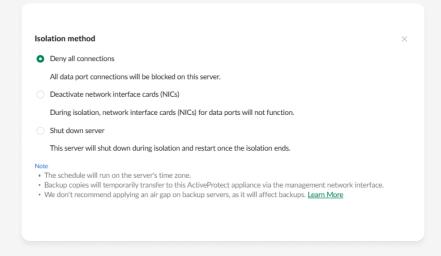
Designed with Data Security at its Core



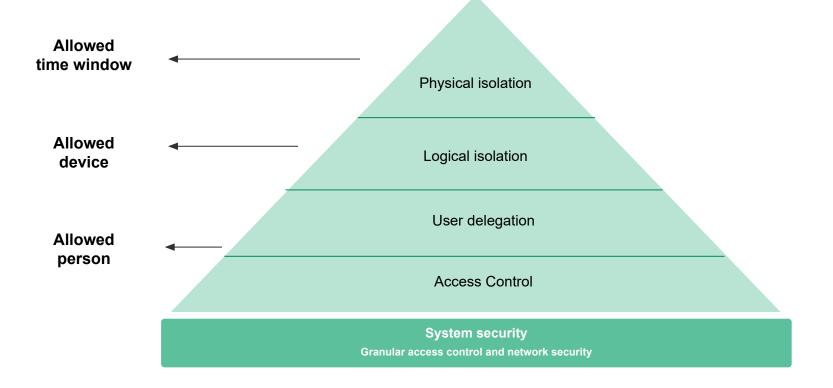
Accessible only when allowed time

Through physical isolation mechanisms and scheduled on/off of devices or network ports, ensure that access to equipment is only possible at designated times.

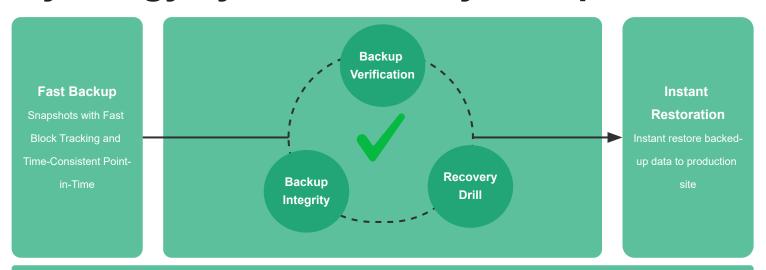




Designed with Data Security at its Core



Synology cyber-resiliency data protection



Backup data durability

Immutable backup, backup copy, network/physical isolation

Management and maintenance

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System security

Granular access control and network security



ActiveProtect Appliance

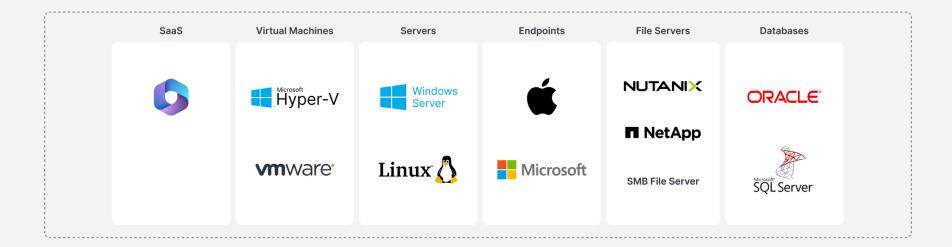




ActiveProtect Manager

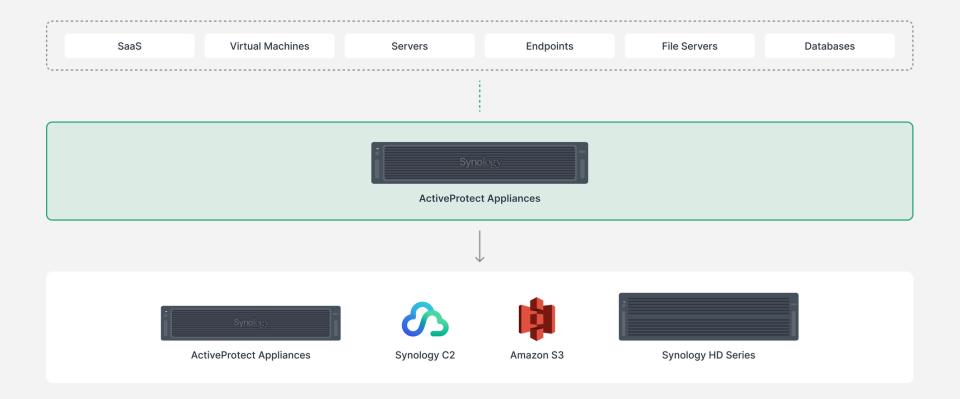
Modern, secure, and simple. A next-generation backup OS designed to protect emerging workloads for businesses.

Cross-Platform Centralized Protection





Native Offsite Backup Capability





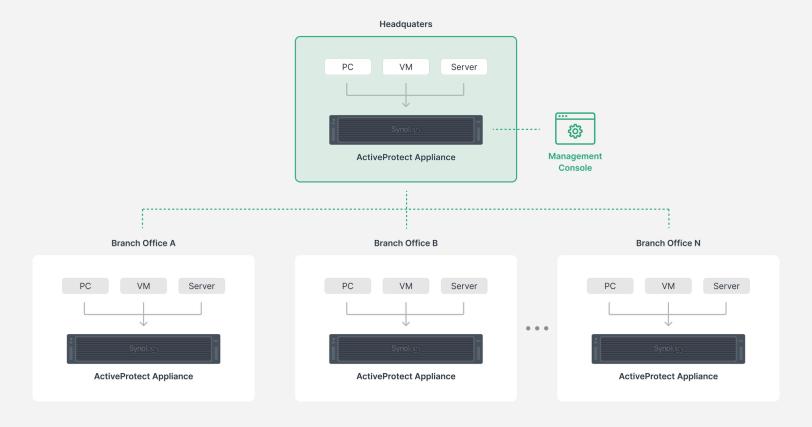


Easy Deployment with Software & Hardware Integration

10 min

Complete Initial Setup

Single Interface for Multi-site Deployments



High Scalability to protect the entire organization's data

2.5K

Site / Backup Server

150K

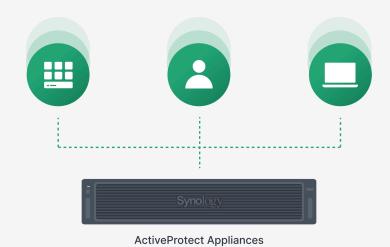
Endpoint Devices /
Cloud Accounts

Single Protection Plan Covering All Backup Configurations

Virtual Physical File servers PC/Mac Database Machines Servers **Backup Frequency** Backup Data Retention Policy Offsite Backup Offsite Backup Retention Policy Immutable Protection and other advanced backup settings

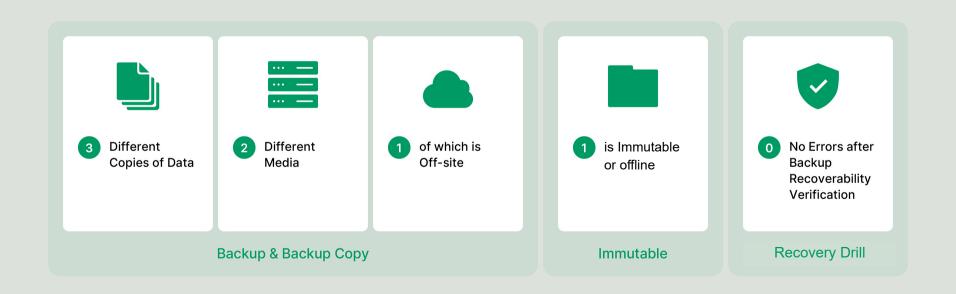
Set & Forgot

- Virtual Machine: Apply protection policies automatically based on the host/cluster/folder where the virtual machines reside
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- Physical Device: During deployment, input the Connect Key to establish a connection and apply protection policies automatically



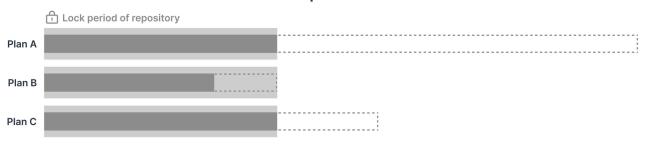


3-2-1-1-0 Backup Rule

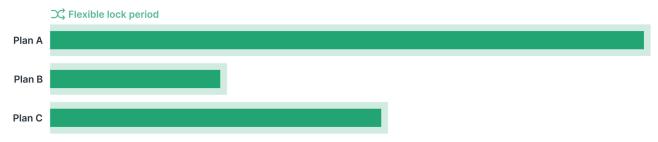


Native Immutability

Backup Software

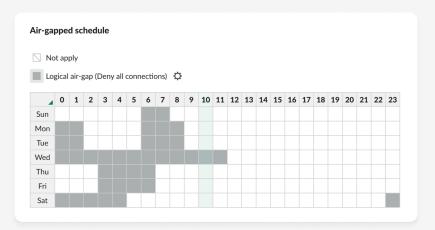


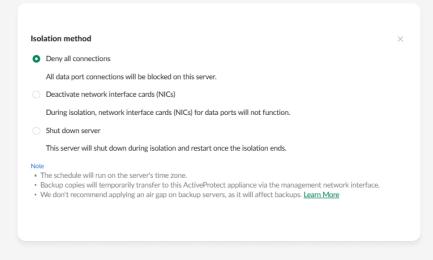
ActiveProtect



Offline Backup

Through physical isolation mechanisms and scheduled on/off of devices or network ports, ensure that access to equipment is only possible at designated times.





Built-in quality assurance



Self-healing Backup

BTRFS checksum with RAID repairs damaged files automatically



Backup Verification

Takes a video when the backup image is imported



Sandbox environment

Allows for regular restoration drills using the built-in hypervisor

Designed with Data Security at its Core

Prevention of ransomware

- Native integrated off-site backup
- Immutable protection
- Scheduled offline (Air gap)
- Backup verification
- Built-in hypervisor for recovery drills

Security authentication

- Support for Windows
 AD/LDAP authentication
- Support for SAML 2.0
 SSO server to meet multi-factor authentication
 requirements
- Access control permissions

System security

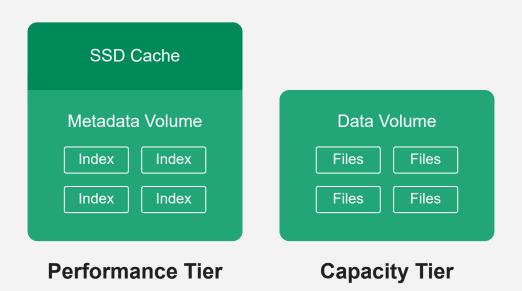
- Product Security Incident Response Team
- Rapid response to security incidents
- Static code analysis
- Penetration testing
- Membership in FIRST organization

Data and network security

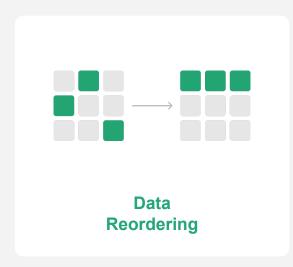
- Automated repair of static data corruption
- Automatic repair of disk corruption
- Built-in firewall
- Transmission encryption
- Out-of-band management mechanism



Storage Space Redistribution



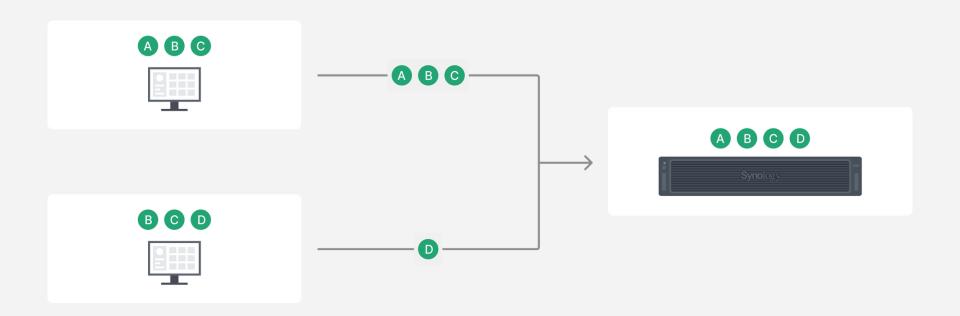
Exclusive Backup Engine for Optimized Performance



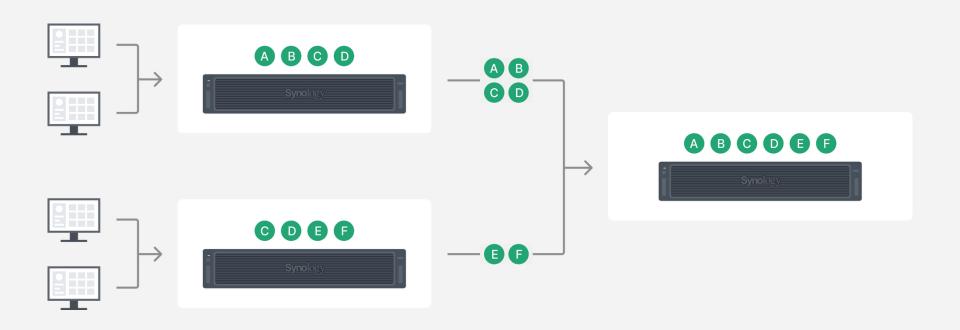




Global Source-side Deduplication



Cross-site Remote Backup also Applicable



Simple Management

Single-platform management for up to 150,000 devices

Reliable Restoration

Integration of immutable storage and offline backup against ransomware

Outstanding Performance

Integrate source sidededuplication and optimized storage configuration

