


Synology 2020



Sales Manager

Chris Alden



Application & Deployment

Synology Solutions Highlights



File Server &
Multi-site deployment



Backup business workload



Virtualization storage



Video Surveillance

Deployment Best Practices



NAS
Selection

Component

Security

A dark background with a network diagram consisting of numerous nodes and connecting lines, some highlighted in a light gray color. The nodes are represented by small circles, and the lines are thin and light gray. The overall appearance is that of a complex, interconnected network.

NAS Selection

Choose the right NAS for deployments

Synology NAS for Business

FS



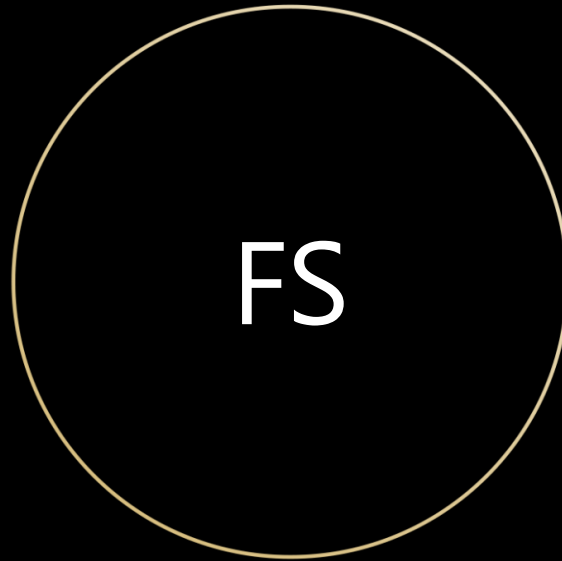
XS/XS+



Plus



Enterprise Product Lines



Highly scalable NAS meeting extensive data storage needs

SA3400

- Intel Xeon 8 core 2.1 GHz
- Up to 128GB DDR4 ECC RAM
- Up to 180/96 SATA/SAS disks
- 5 years warranty & SRS



Enterprise SAS

SA3400



SA3600



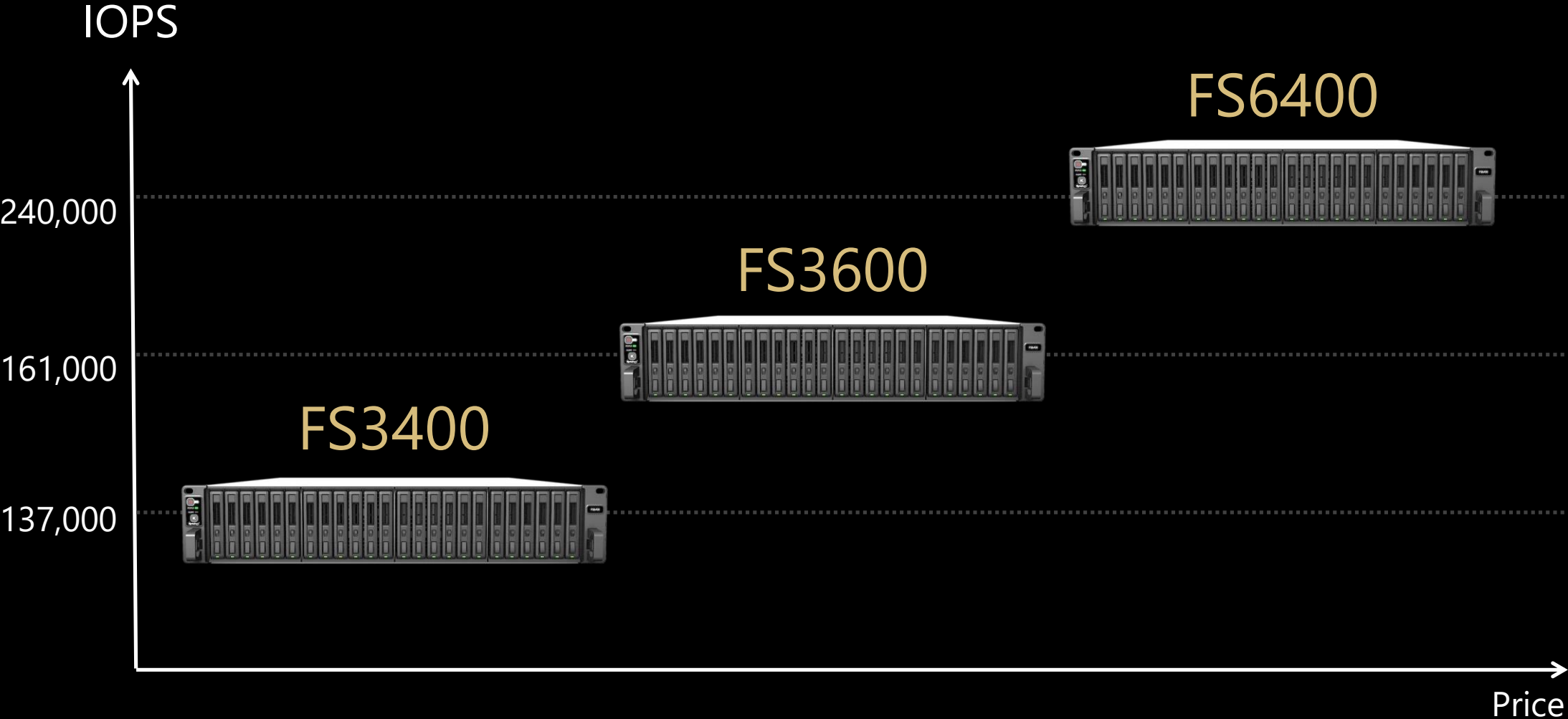
Uncompromising performance

FS6400

- Intel Xeon 8 core x 2
- iSCSI 4k random write >240K IOPS
- Up to 512GB RAM
- Up to 72 drive bays



FS series

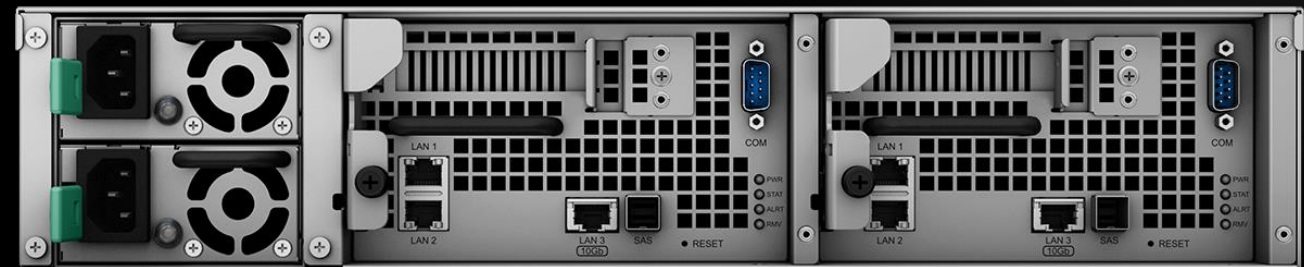


Active-active iSCSI Storage Server

UC3200

- Non-disruptive iSCSI service
- Non-disruptive system upgrade
- Memory data protection
- Fast failover time

Dual Controllers



Active-active iSCSI Storage Server

UC3200

- Dual controller, single UI
- Intel Xeon Quad core CPU
- Up to 72 bays SAS disks
- 141,000 4K random write IOPS





Disk Selection

Choose the right disks for your storage server deployment

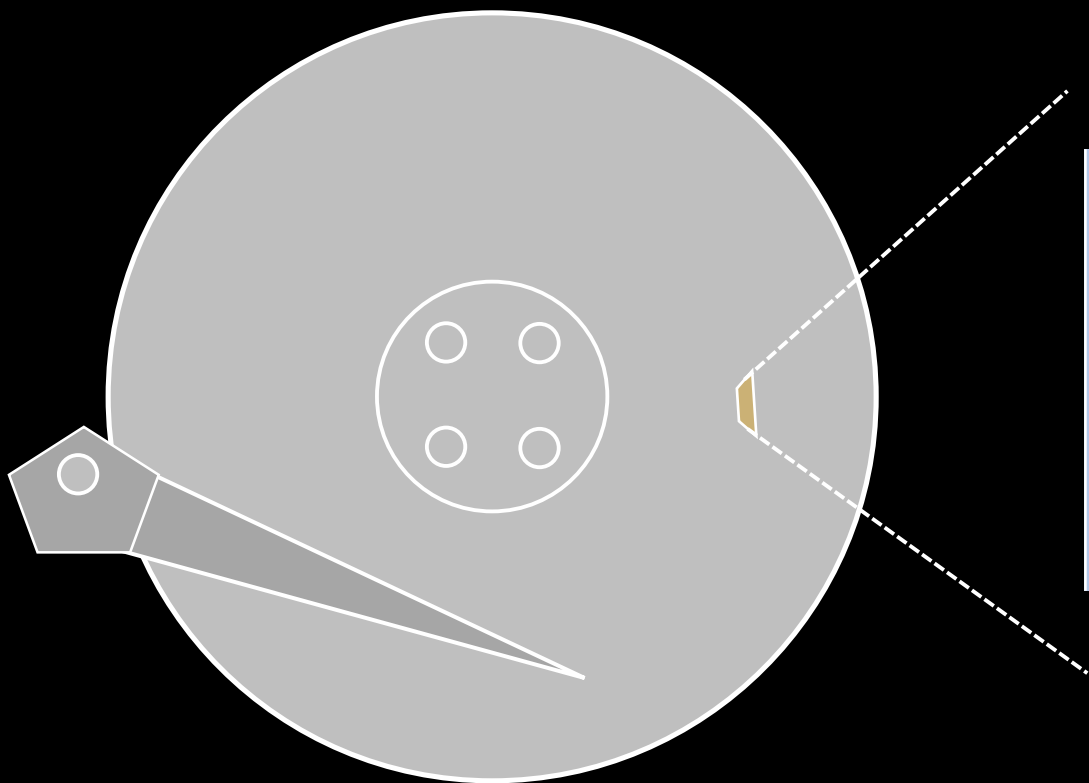
Disk Technology

SMR & PMR

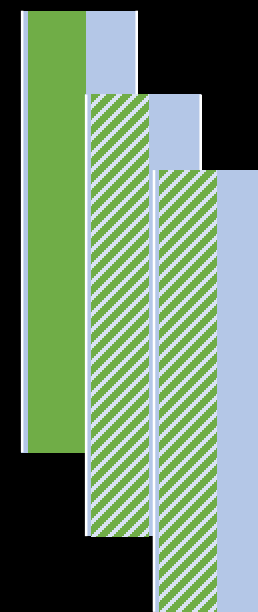


Width of **write** head

Width of **read** head



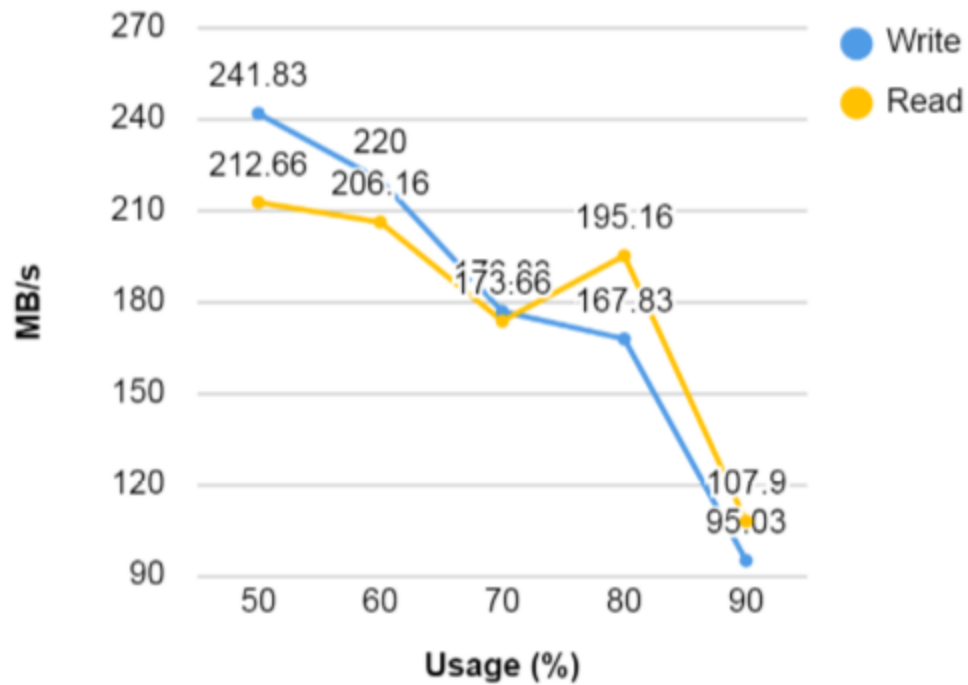
PMR



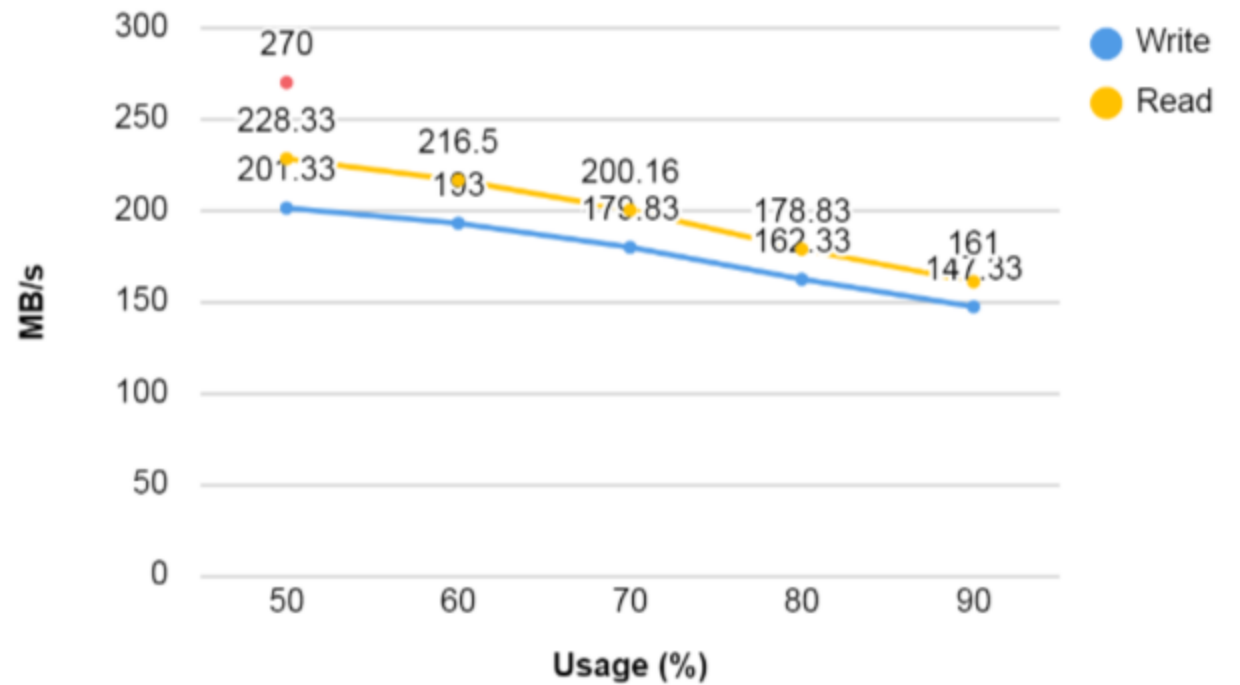
SMR

Disk Performance

SMR



PMR



Ways to Improve Performance

HDD Managed

Built-in bigger cache
Optimize firmware

Host Managed

Host aware operation
SSD Cache

SMR disks in Enterprise Archive Market



SMR in NAS Drives?



SSD

Consumer or Enterprise?

Spec on Paper

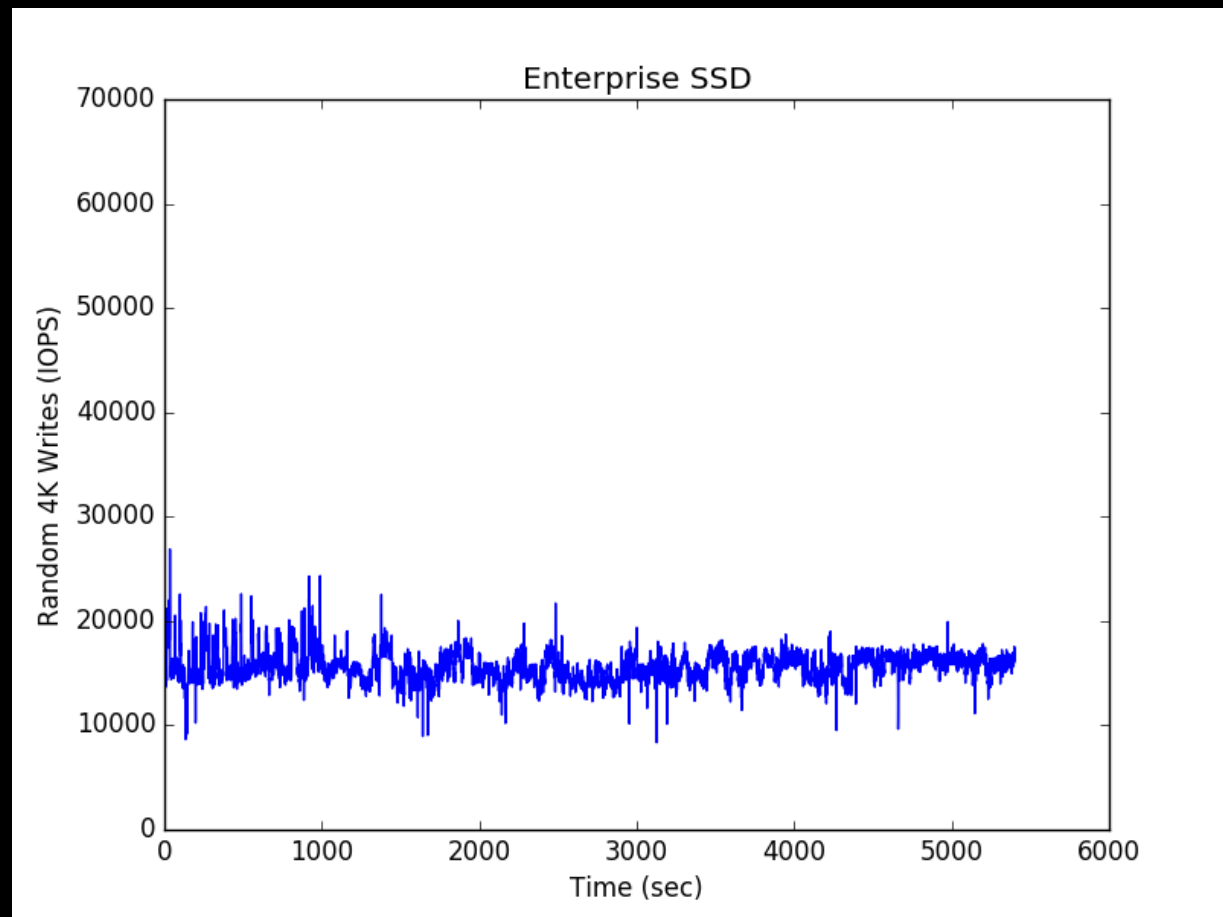
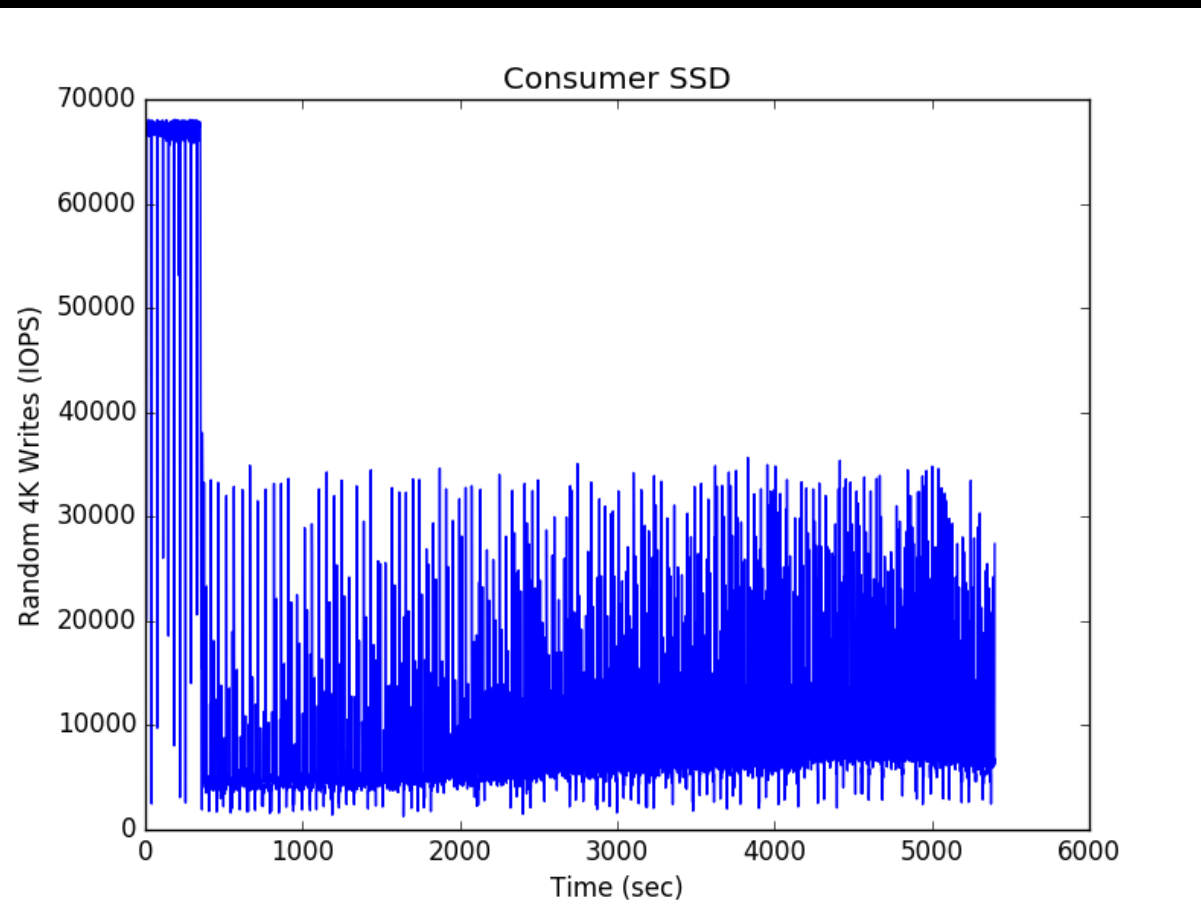
	Consumer SSD Brand C	Enterprise SSD Brand I
Capacity	2TB	1.92 TB
Price	\$223.48	\$415
Sequential read/write	560/510 MB/s	560/510 MB/s
Random reads/writes IOPS	95K/90K	97K/46.5K

Consumer & Enterprise SSD Difference

- Power lose data protection
- Endurance - lifetime writes
 - Brand C – 700 TB
 - Brand I – 10 PB (15x)
- Over-provisioning (2TB vs. 1.92 TB)
- Consistent performance



IOPS





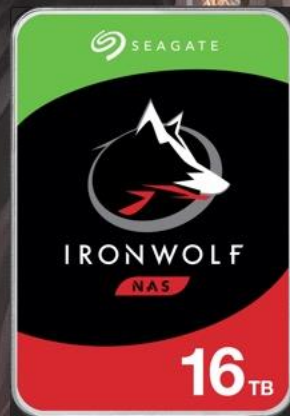
Choose Right SSD

Enterprise SSD is necessary, especially for SSD cache

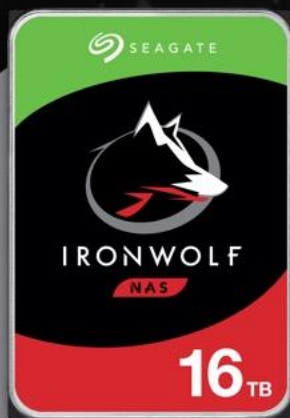


BUILT FOR NAS

Seagate's cutting-edge technology know-how enables a superior NAS experience that helps maximize data potential



EVERY SCENARIO COVERED



IRONWOLF 16TB

Designed for home, SOHO, and
SMB NAS



IRONWOLF PRO 16TB

Built for creative pro, SOHO, and
SME NAS



IRONWOLF 110 SSD

Performance for SOHO, SMB,
and SME NAS

Security

Protect from network attack and ransomware

MUST READ: [Capital One hacker took data from more than 30 companies, new court docs reveal](#)

This new ransomware is targeting network attached storage devices

NAS devices are often used to store critical data and back-ups - but many are exposed to the open internet and the cybercriminals behind eChoraix are taking advantage.



By [Danny Palmer](#) | July 10, 2019 -- 15:03 GMT (08:03 PDT) | Topic: [Security](#)

Recommended Content:

White Papers: Dynamic Cyber Defenses: A Fresh Approach To an Old Problem

In cybersecurity, prevention has failed. The bad actors still compromise IT systems and, in not so rare occurrences, succeed in their objectives. Failure, however, is too strong a statement. In reality, prevention is not a total failure; a...

[Download Now](#)

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RECOMMENDED FOR YOU

On Demand Webcast - Exposed & At Risk

Timeline

- Jul. 10 • Ransomware targeted on other NAS devices
- Jul. 19 • Synology user reported ransomware attack
• Synology analyzed and confirmed it was brute force attack instead of system vulnerability
- Jul. 22 • Synology support team tracked down and got into hacker's server
• Synology sent hacker's attack code to TWCERT
- Jul. 26 • TWCERT worked with CFCS-DK in Denmark to take down hacker's server

PSIRT

8_{hr}

Investigating
vulnerabilities

+

15_{hr}

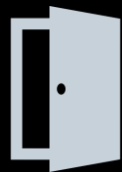
Vulnerabilities
fixed

<

24_{hr}

Responsive
event handing

Security Settings Checklist



Avoid default ports



IP Auto Block



Account and
password rules

- Avoid using "admin"
- Password strength
- 2 steps authentication



Let's Encrypt
integration



Security Advisor



Video & Webinar

Partner Program

Grow business with Synology

Partner Benefits



- Technical trainings
- Product information and Support
- Business development
- Sales enablement

Technical Trainings



Monthly Webinar

Train Your Team

NFR Test Units

Product Information & Support



Reseller News

High Priority
Queue

Account Manager

Business Development



End User
Event & Training

Marketing Assets

Sponsorship &
Collaborations

Sales Enablement



Registered Pricing



Loaner Program



Joint Call



Joint on-site Visit



Let's Grow Business Together

Synology®

S Y N O L O G Y
2 0 2 0

- Next Generation File Server
- Hybrid Cloud and Beyond
- Application & Deployment
- Partner Program

Synology®

S Y N O L O G Y
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