



# Synology 2019



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National Sales Manager



# Backup Business Workloads

Best Practice

# Single Backup Appliance for Business



Streamline management

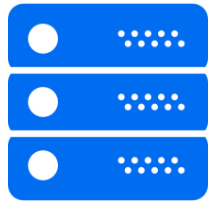
Maximum backup efficiency

Recovery & verification

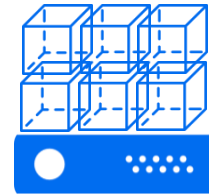
# Data Protection for Business



PC



Server



VM

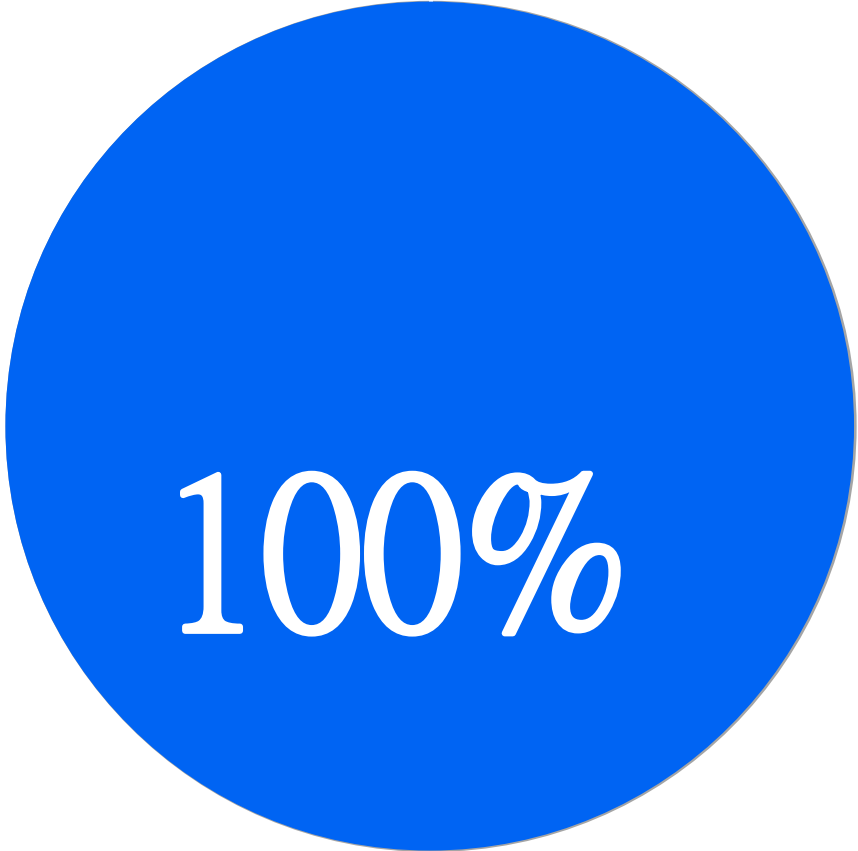


Cloud

# Is Your Data Safe?

Device loss is inevitable

Data loss is preventable



100%

# 4.1

Average # of backup solutions



Acquisition



Management



Support

# Active Backup Suite



Active Backup  
for [Business](#)



Active Backup  
for [G Suite](#)



Active Backup  
for [Office 365](#)



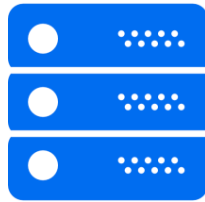
# Centralized, Active Management



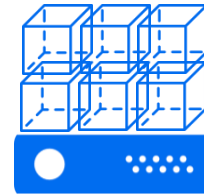
# Data Protection for Business



PC  
Active Backup  
for Business



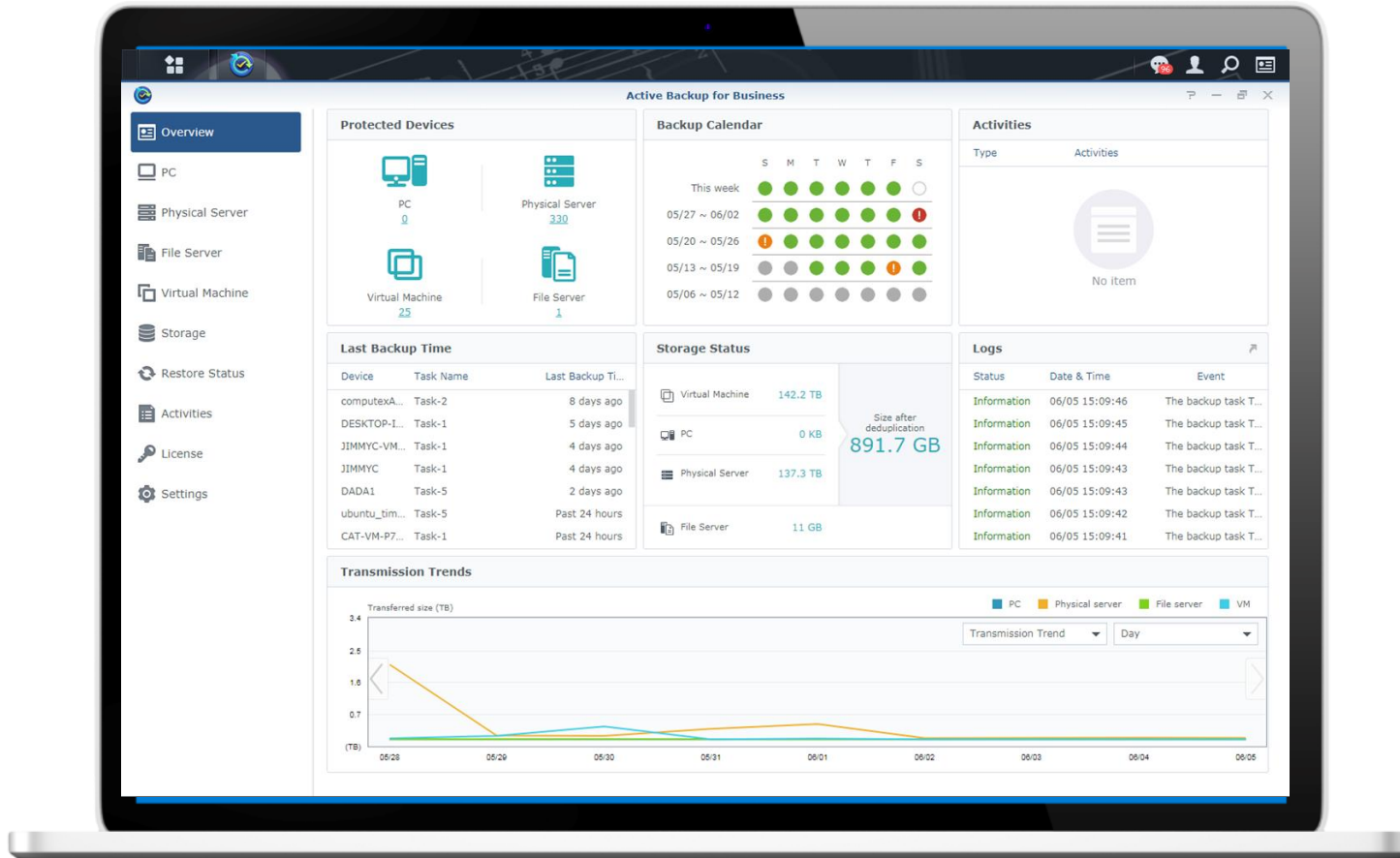
Server



VM



Cloud

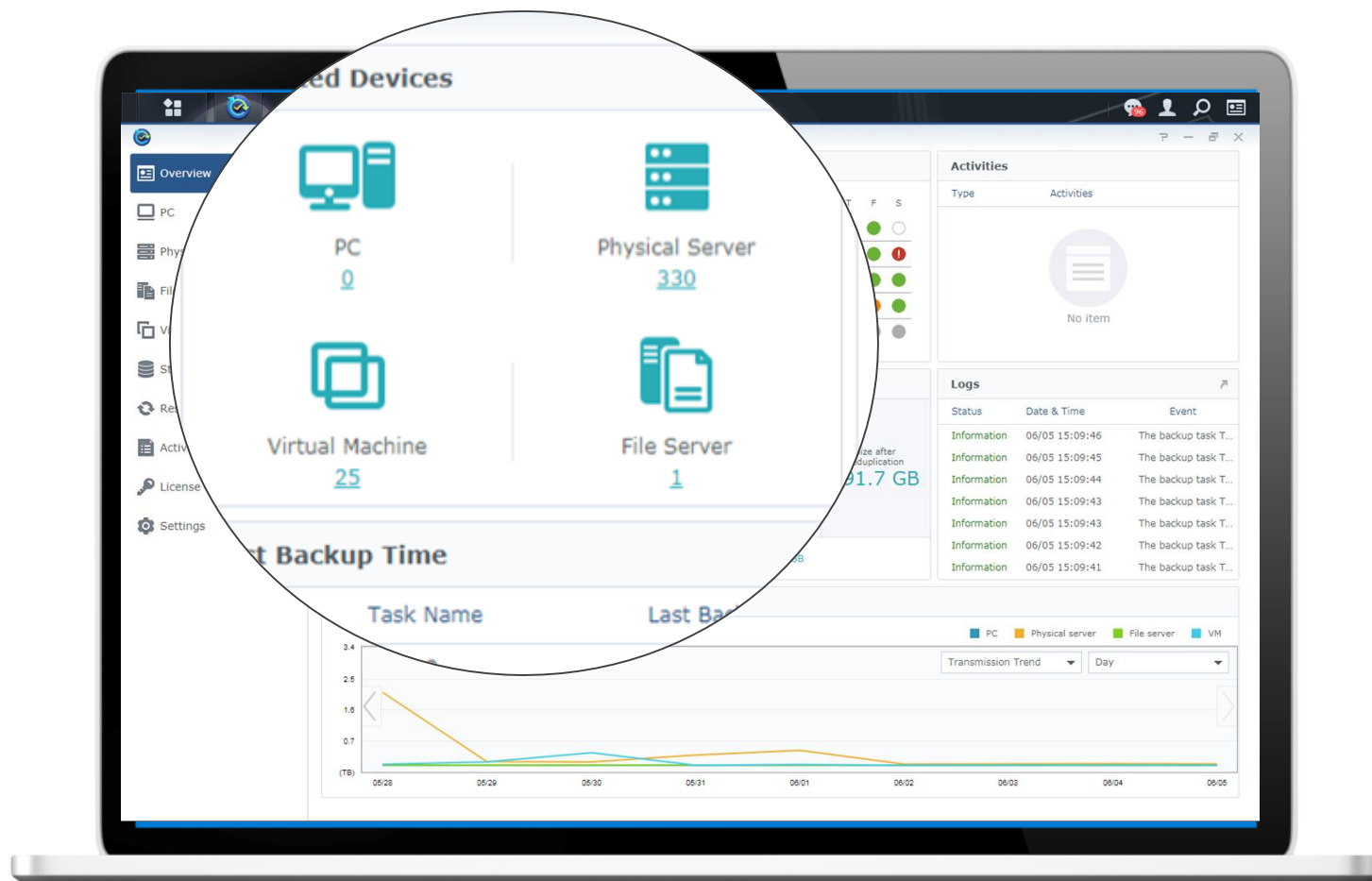


# Centralized Administration

Monitor all backup tasks

Generate reports based on your policy

Easy deployment with templates



# Image Backup

Bare metal image backup with agent software installed

Agentless for VMware vSphere



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SMART  
STREAMLINED  
SOLID

2019

# Is Image Backup Efficient?

Too  
Big

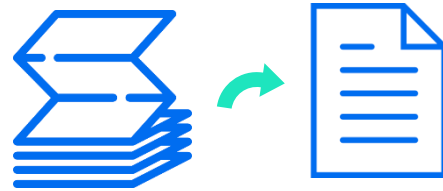
Too  
Slow

File  
Restore

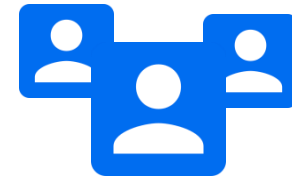
# Maximum Backup Efficiency



Changed Block  
Tracking

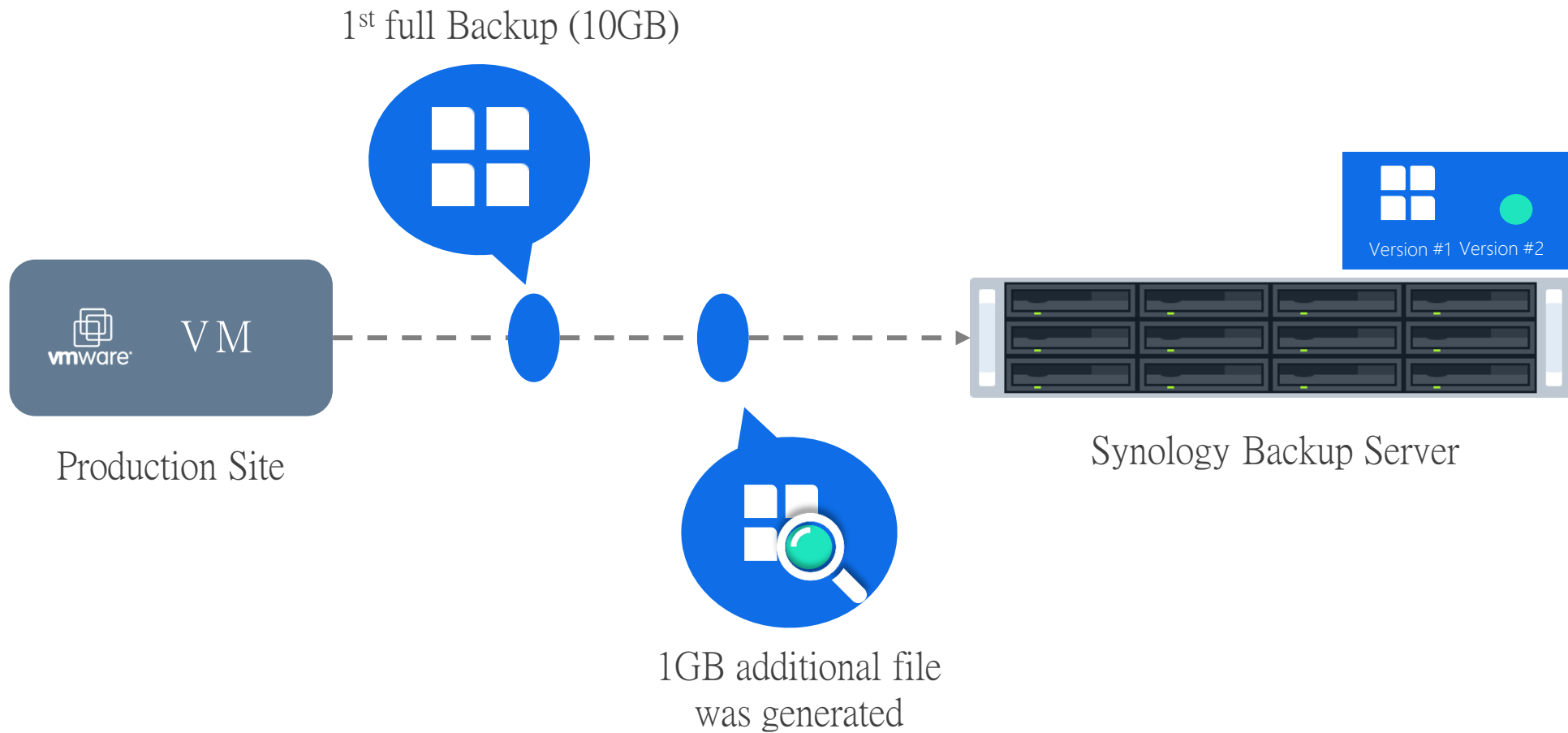


Global Deduplication



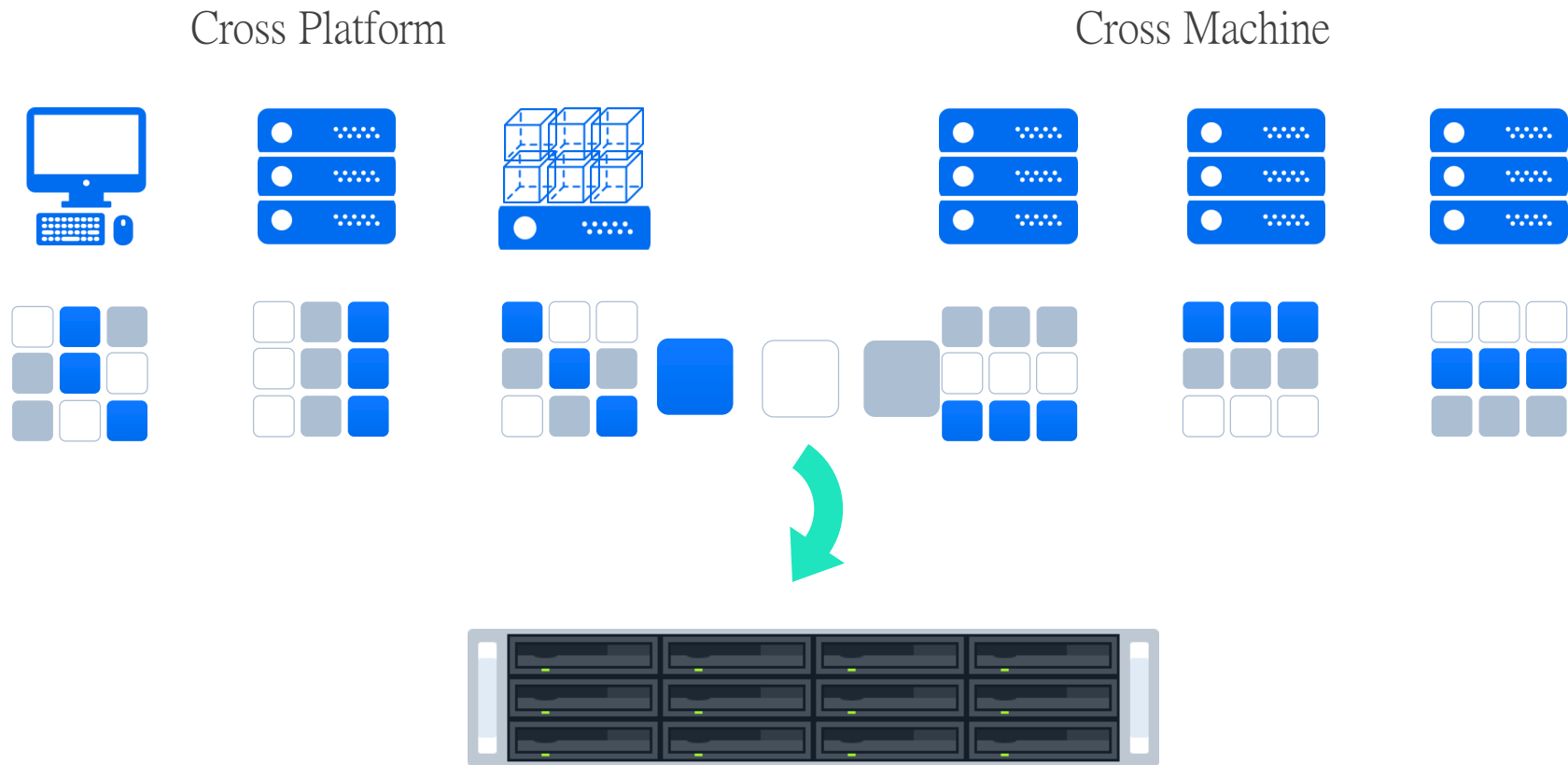
Self-Recovery Portal

# Changed Block Tracking (CBT)

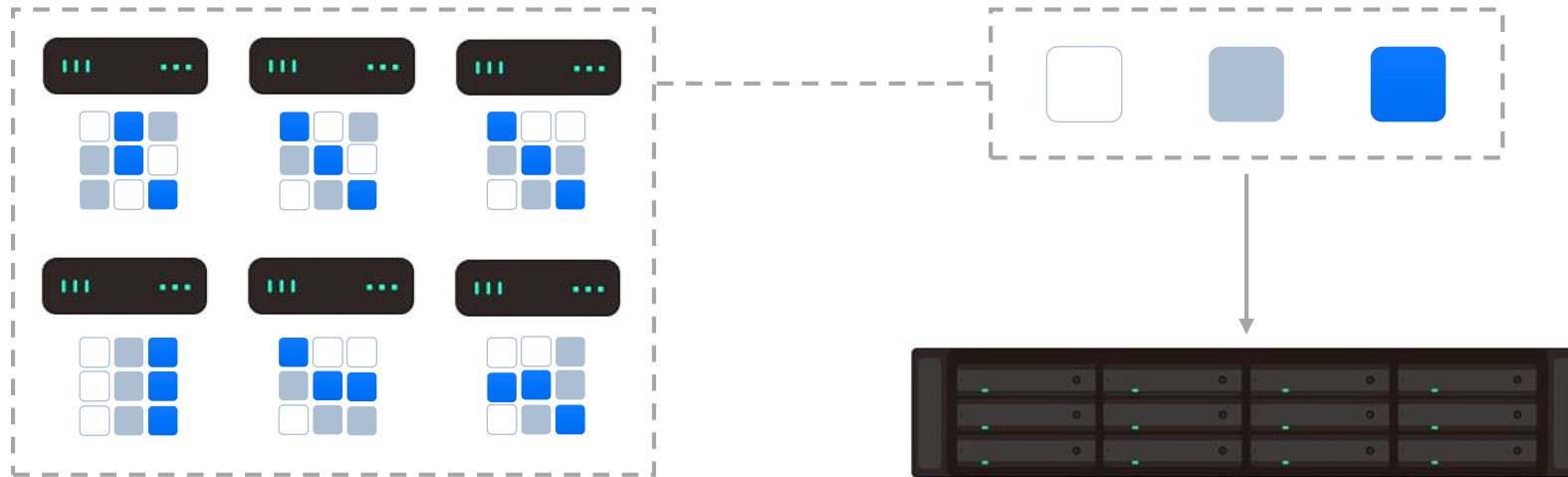




# Global Deduplication

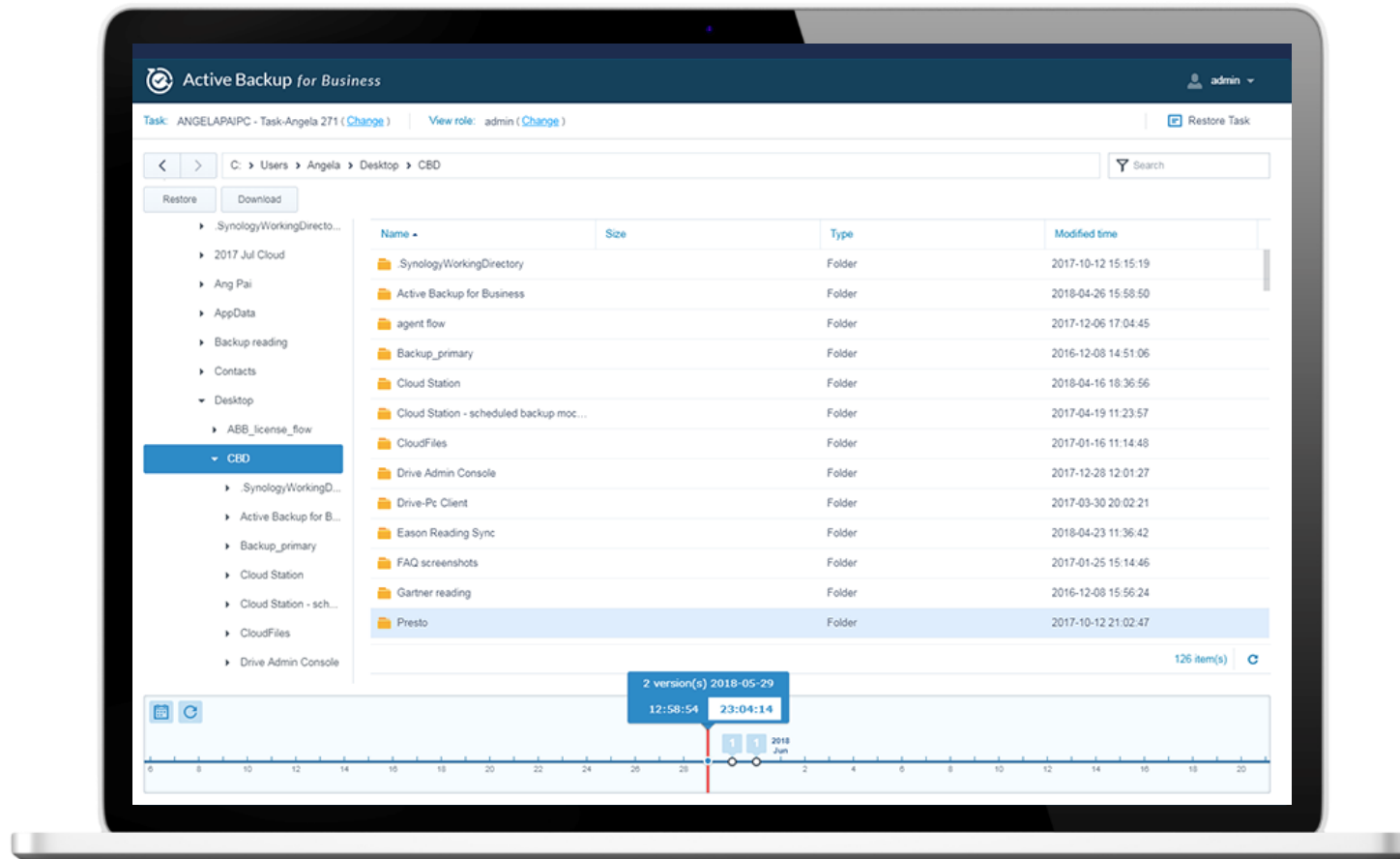


# SHISEIDO



66 TB  
Total data

17 TB  
Backup data



# Self-Service Restore Portal

Permitted users can have instant and granular restore capabilities without having to ask for admins' help.

# Flexible Restore Options

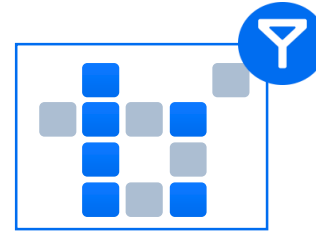
	PC	Physical Server	VM	File Server
Full restore	✓	✓	✓	
File level restore	✓	✓	✓	✓
Self-service restore portal	✓	✓	✓	
Instant restore to VMware		✓	✓	
Instant restore to Synology VMM		✓	✓	



# Active Backup for Business



Single  
Interface



Advanced Features



Flexible Restore

# Active Backup for SaaS

# Challenges in Cloud Environment



User Actions



Service  
Limitations



Privacy &  
Compliance



# Active Backup for SaaS



Active Backup  
for [G Suite](#)



Active Backup  
for [Office 365](#)



# Active Backup for Office 365

Drive, mail, contacts, and calendar

Continuous backup

Single instancing & dedup

Smart restore options



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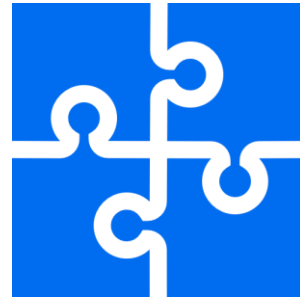
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SOLID

2019

# Active Backup Suite



Centralized  
Management

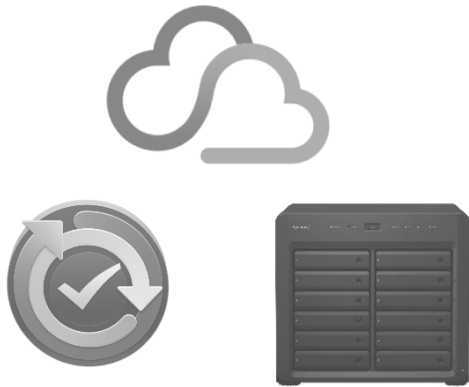


Single Solution  
Support

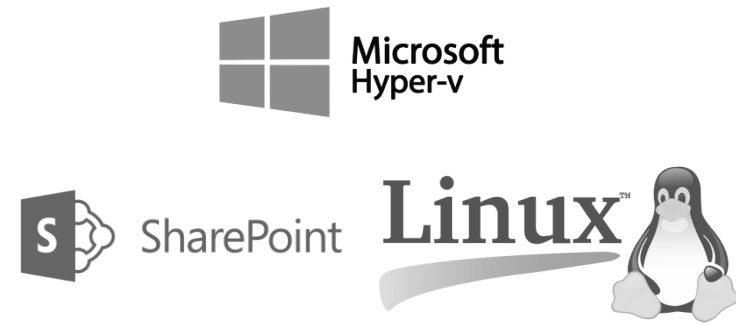


No License Fees

# Active Backup 2019



More Destinations

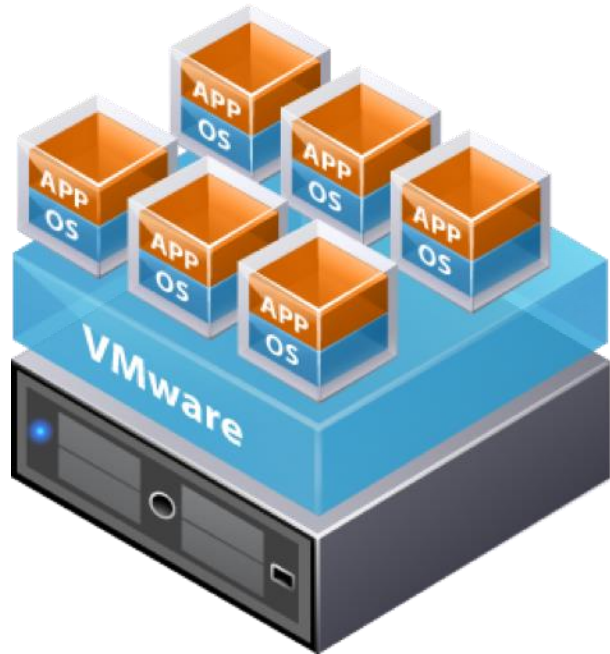


More Platforms

# Virtualization Storage



# Storage for Virtualization



## Certificated VM Storage



## Advanced iSCSI Features

VAAI/ODX, MPPIO, Thin Provision,  
Snapshot, ...

## Competitive Hardware

High performance and cost-effective  
products

# NAS Selection

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Considerations for VM storage and performance needs



# Choose NAS for Virtualization Storage

IOPS

Measure IOPS  
requirement



600



80,000

4K Random Write

# IOPS for VM Storage



# Choose NAS for Virtualization Storage

IOPS

Measure IOPS  
requirement

SSD

Use SSD or SSD  
Cache

10GbE

Use 10GbE for  
lower latency

Btrfs

Advanced LUN  
support

All Flash Uncompromising Performance

# FS3017



2 Xeon

Six core CPUs

72 Bay

24 Bay 2.5"

512 GB

Memory

190k

4k random IOPS



Taishin Bank

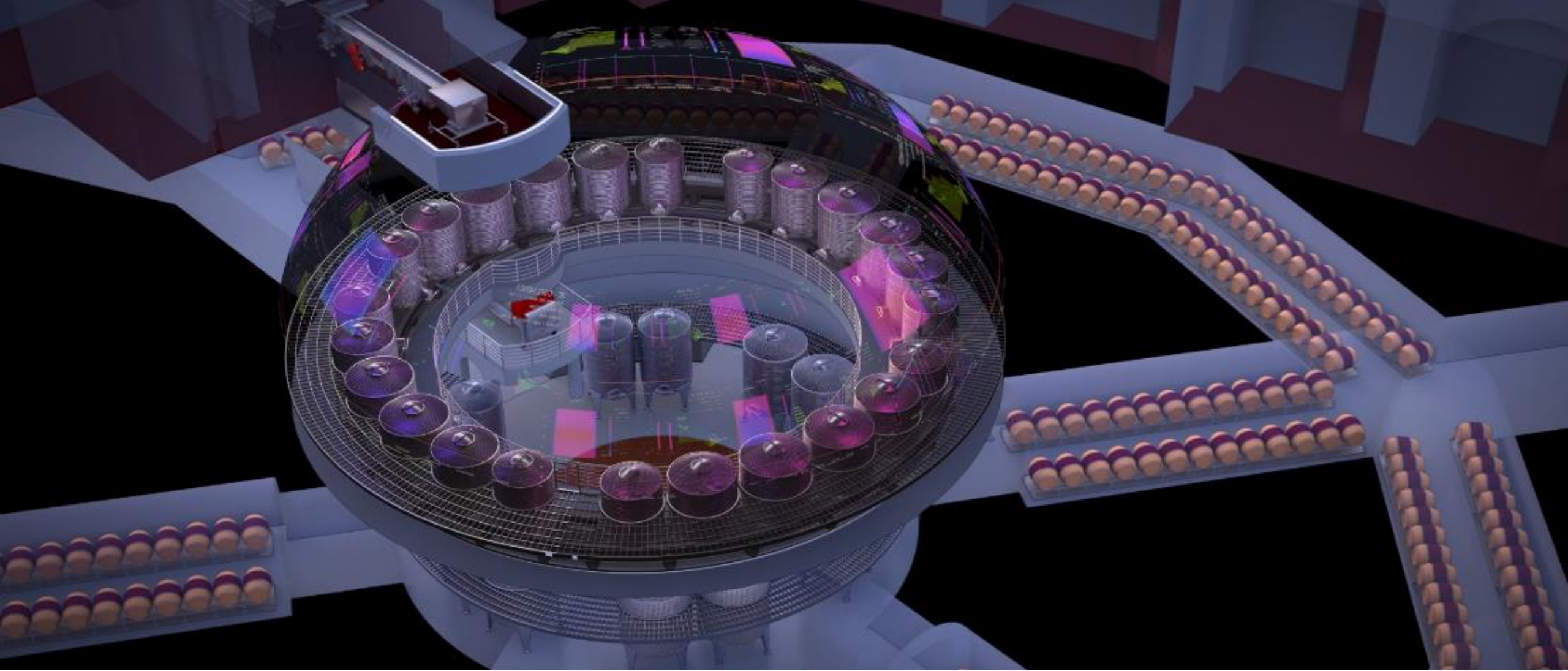
- FS2017 + RX2417sas provide iSCSI service
- Database service for over 8,000 users
- Link Aggregation for dual 20 Gbps iSCSI channel
- 7 times faster than previous system





*Palmar Vineyards*





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