



Construct a High Efficiency VM Disaster Recovery Solution

Best choice for protecting virtual environments



About NAKIVO

- Established in the USA since 2012
- Provides data protection solutions for VMware, Hyper-V and AWS EC2
- Over 10,000 customers around the world, distributed in EMEA, Americas and Asia
- Suitable for business use: Enterprise users use it to protect more than 7,000 VM over 200 sites
- Rapid growth: Both number of customers and revenues grow by 100% each year
- Distributed in 124 countries and sold by more than 2,000 dealers

vmware®



Microsoft



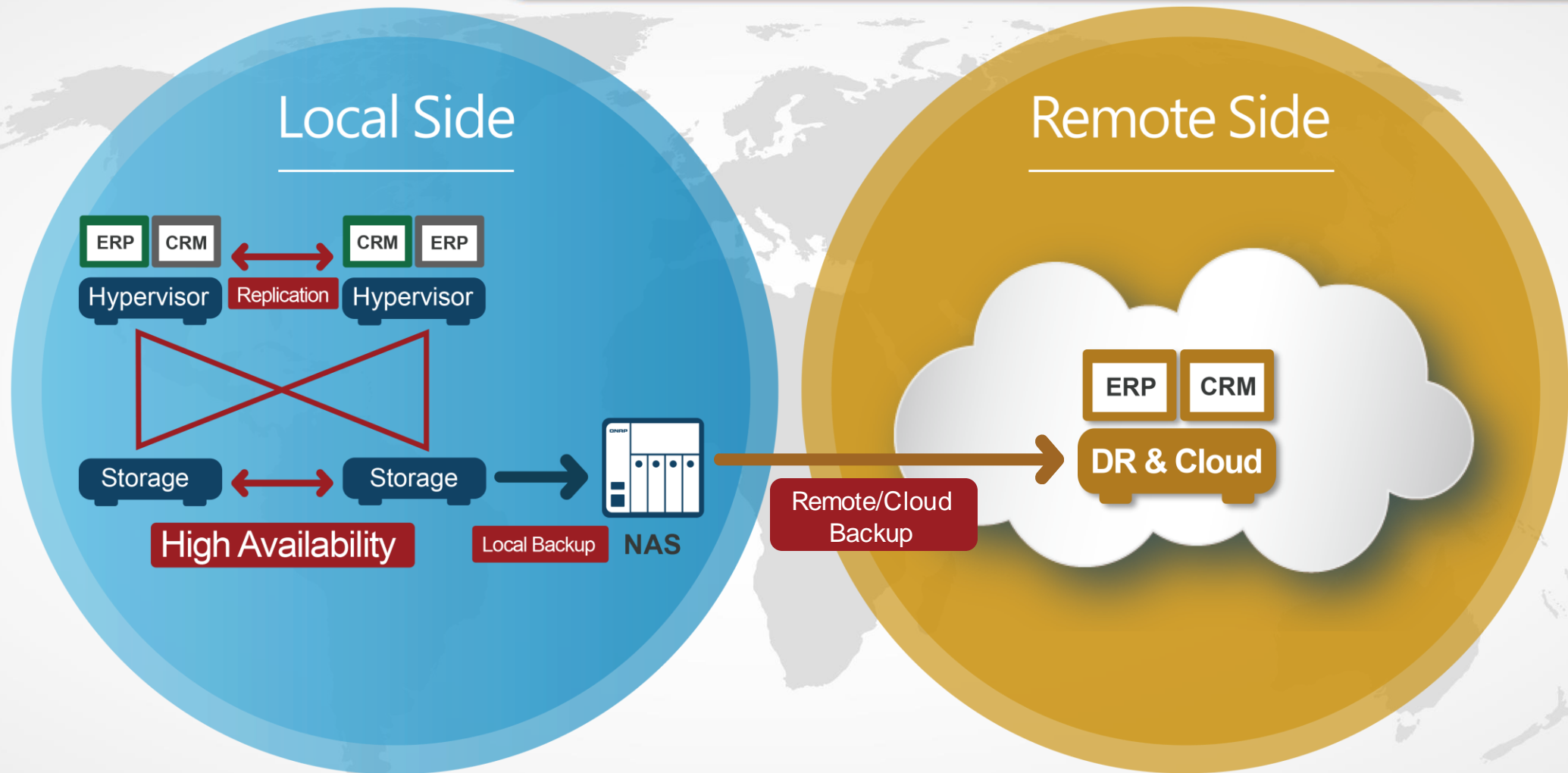
NAKIVO

Optimize your backup solution with NAKIVO



- **Time saving**
Easy-to-use, reliable, set-and-forget
- **Cost-conscious**
Suitable for enterprises of all scale
- **Storage space saving**
Reduce the sizes of backed up data effectively
- **Multiple layers of protection**
Screenshot verification, Remote/Cloud replication and backup
- **Ultimate backup efficiency**
Optimize and compress data for transferring, LAN free backup
- **Instant recovery**
Instantly recover VM, file and application object

Deployment of NAKIVO Disaster Recovery Solution



NAKIVO®

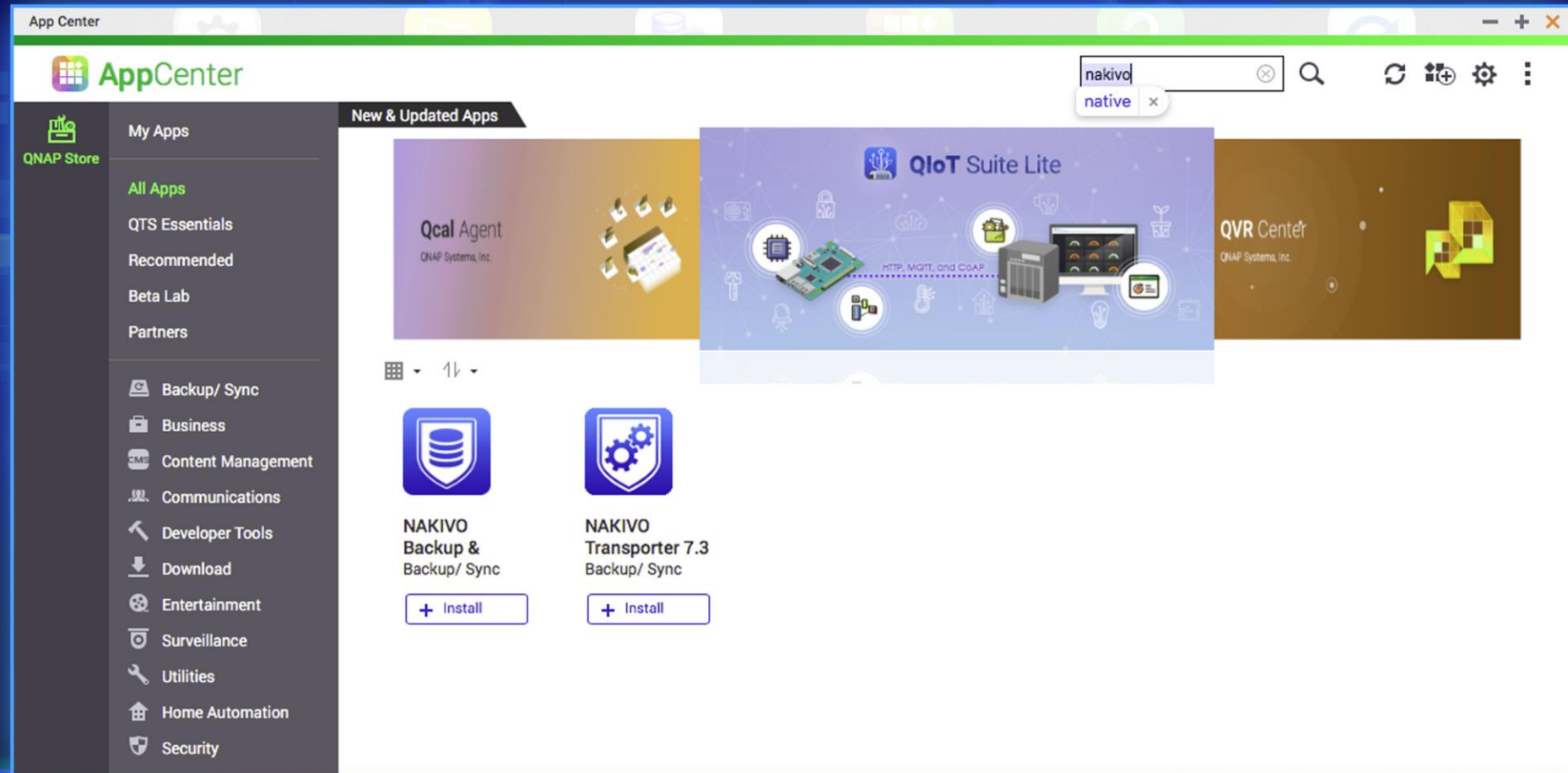
Backup & Replication

QNAP®



The best combination for VM backup and replication

Quick and Easy Installation on QNAP NAS



QNAP NAS provides Full-range Data Protection Capabilities



Hybrid Backup Sync



Snapshot



RAID

Improve backup efficiency via high-speed interface

Thunderbolt 3 built-in

10GbE Ready



Dedicated
bandwidth



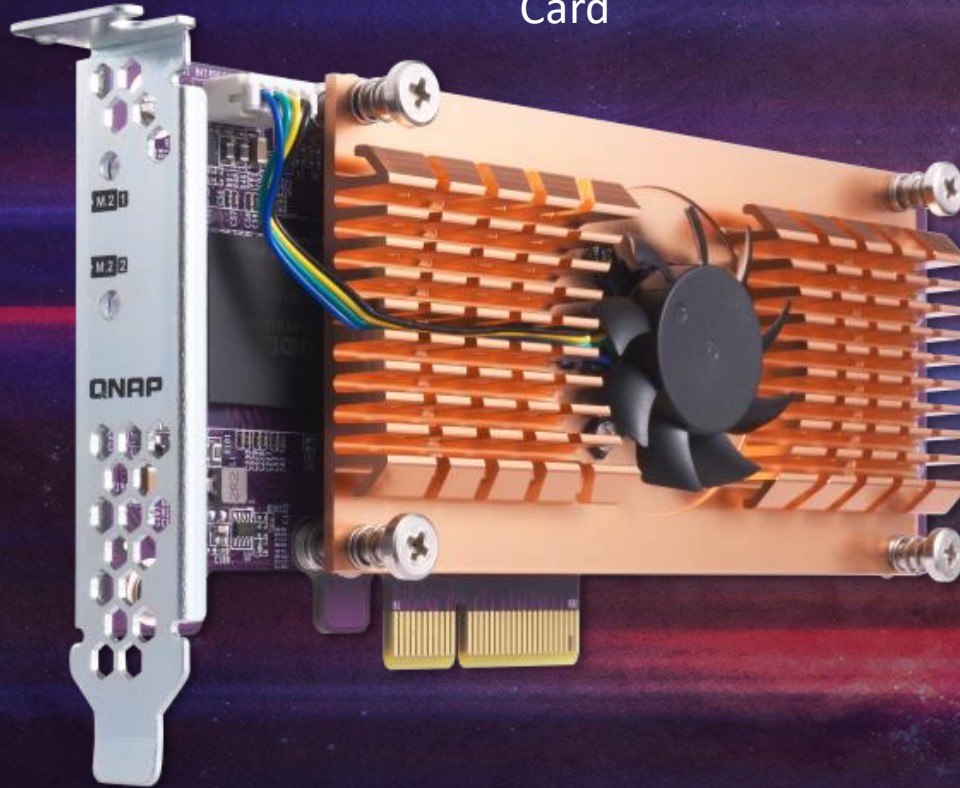
Dedicated
bandwidth



10GbE
Built-in

Support high-speed storage devices

QM2: M.2 SSD Expansion
Card



SSD



Qtier 2.0 Enhances File I/O Performance

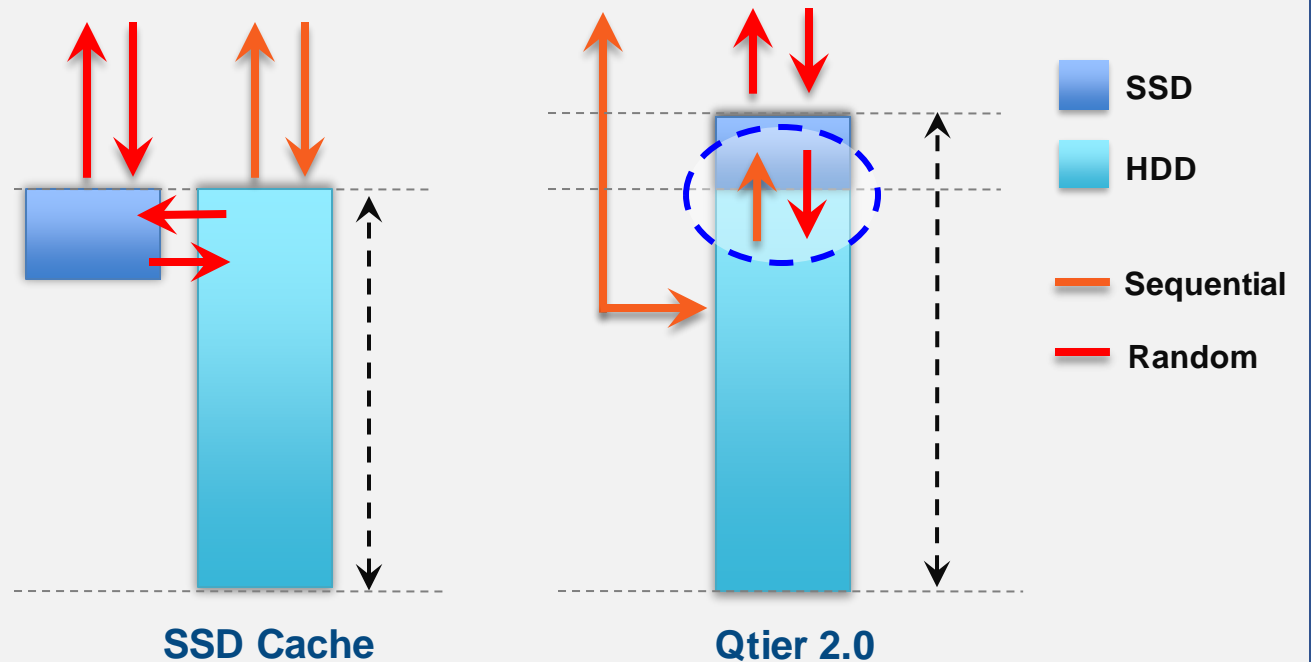
SSD Cache

- **Cannot be used to store data**
 - For short term performance boost

Qtier 2.0

- **The SSD tier can store data**
- **IO Aware and Tiering On-demand**
 - For both short and long term performance improvement

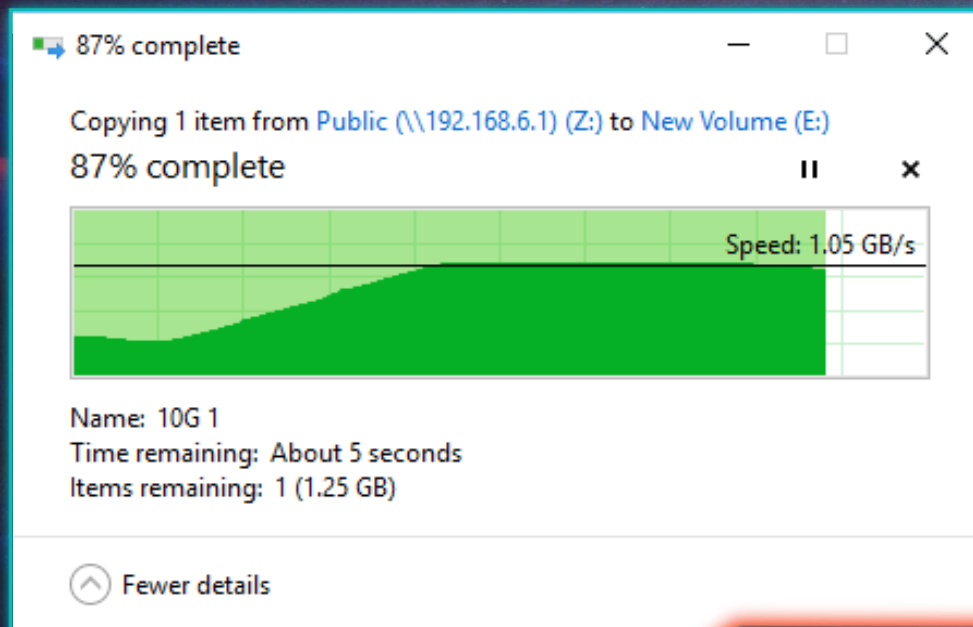
Applications



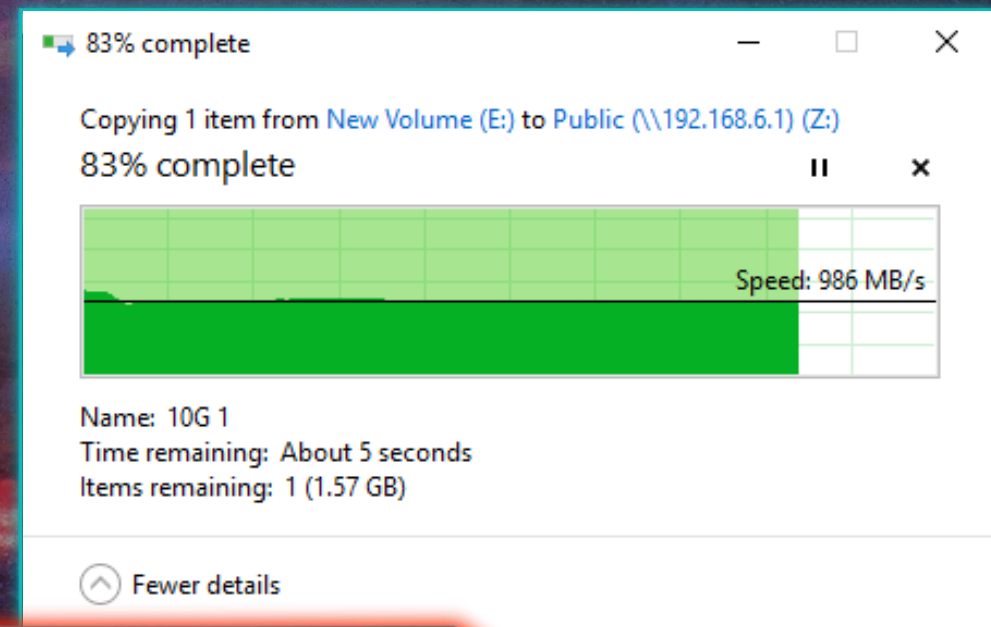
Get Full Performance With QNAP 10GbE Switch

10GbE High speed transmission

Download



Upload



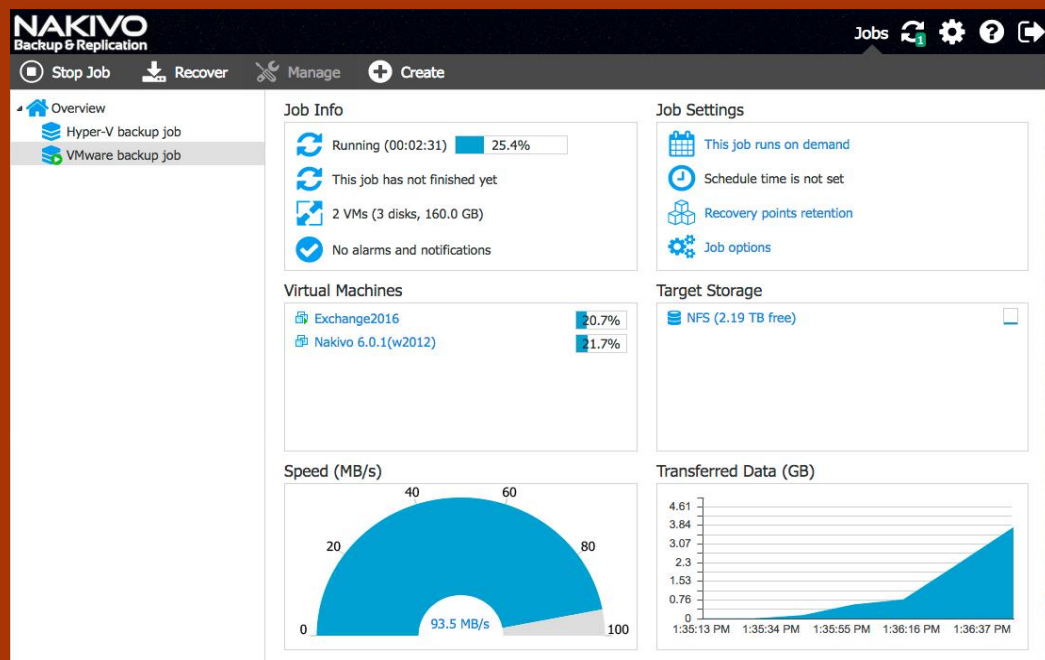
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Simplify VM backup management



Intuitive management interface

Web-based management interface

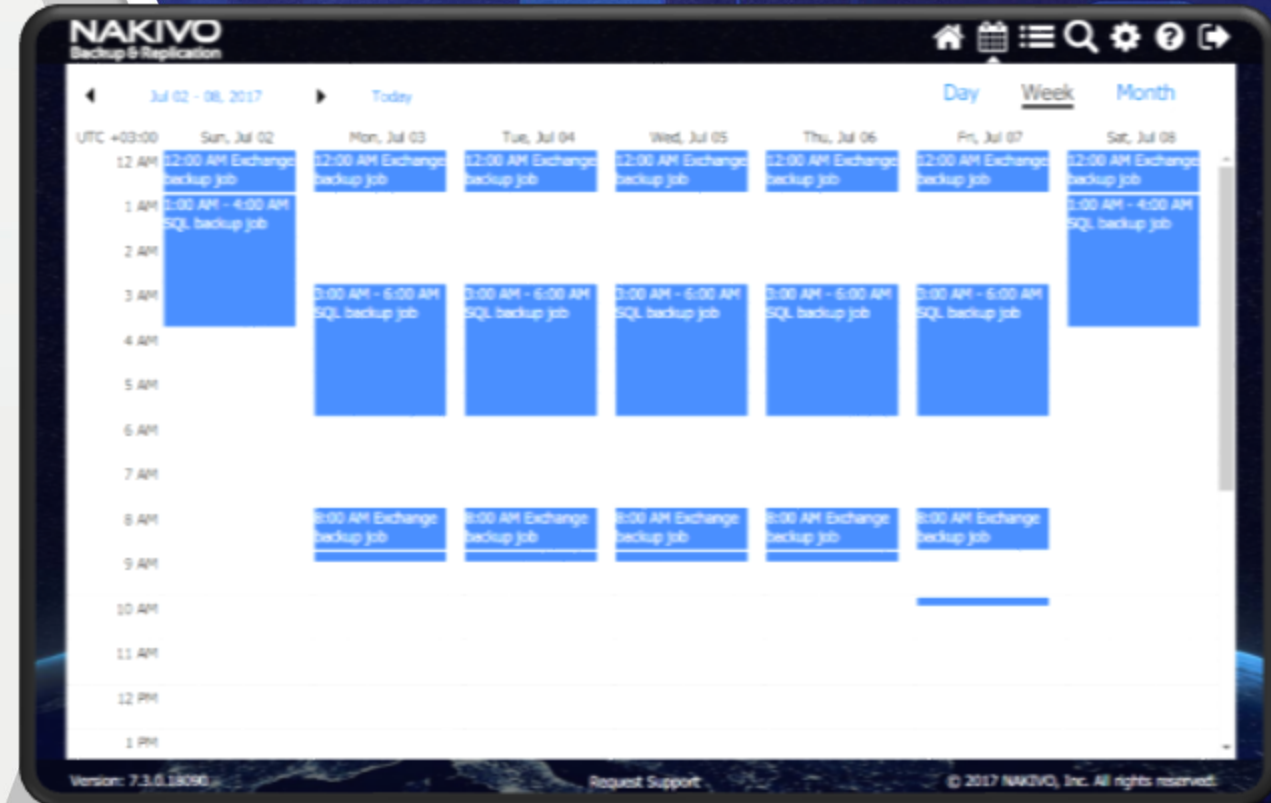


Create backup job step-by-step, intuitively

The screenshot shows the 'Edit: VMware backup job' configuration page. It features a step-by-step navigation bar with five steps: '1. VMs', '2. Destination' (which is the active step), '3. Schedule', '4. Retention', and '5. Options'. The 'Destination' section includes a 'Backup repository' dropdown menu currently set to 'Qnap1'. An information box on the right states: 'To re-use existing backups, ex...'. At the bottom, there is a link for 'Advanced options...'.

Easy way for job management via Calendar Dashboard

- All job schedules are shown in calendar view
- Predict job execution duration in the future based on the past jobs
- Find open time slots for new jobs
- View the status and details of all jobs.



Flexible job scheduling

Multiple schedules can be used for one job

Meet the customer's need



Schedule #1 [Remove](#)

Run daily/weekly

Starting at: 12:00 AM Ending: 6:00 AM

☐ Sun ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☐ Sat

[All days](#) [Work days](#) [Weekends](#)

Schedule #2 [Remove](#)

Run daily/weekly

Starting at: 12:00 AM Ending: 6:00 AM

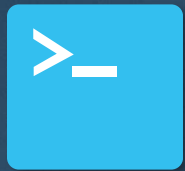
☐ Sun ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☐ Sat

[All days](#) [Work days](#) [Weekends](#)

[Add another schedule](#)

[Show calendar](#)

Automate your data protection plan



Product command line interface



Pre and Post Script



HTTP API



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Ultimate data reduction techniques



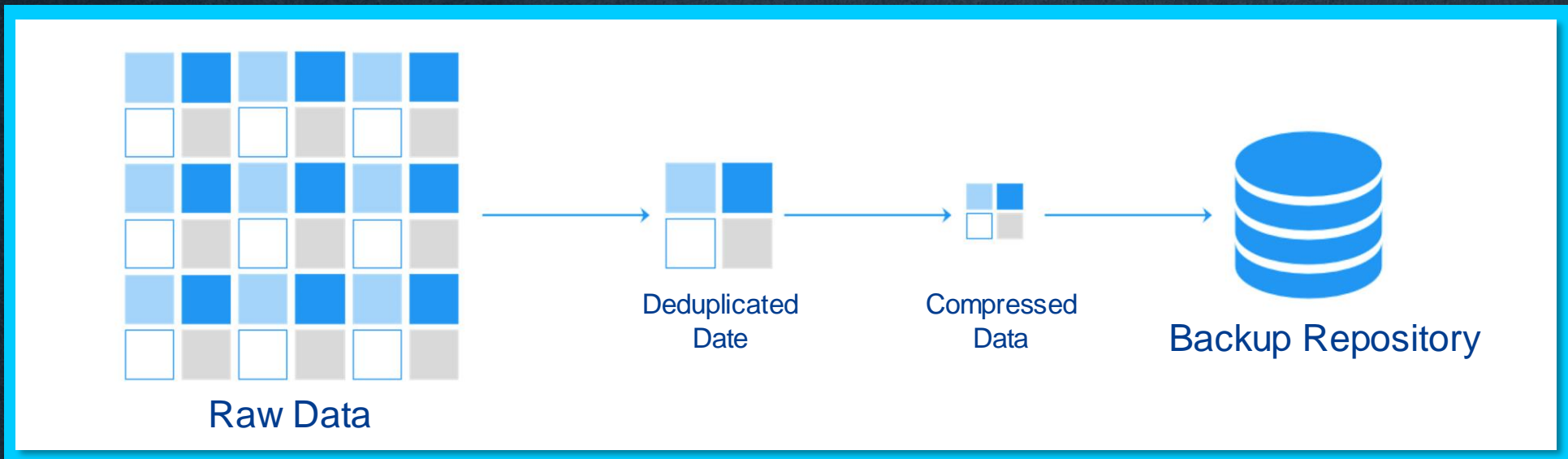
Skip swap file

- **Faster and smaller backups**
- **Great data reduction**
e.g. 4GB swap x 10 VMs x 30 days = 1.2 TB



Deduplication and Compression for efficient disk space utilization

- Deduplication across the entire Backup Repository, only one copy of data will be kept
- Compression reduces the size of backed up data



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Complete data protection solution



Comprehensive VM protection

- Image-based backup of VMware, Hyper-V and AWS EC2
- Forever-Incremental Backup via VMware Changed Block Tracking, Hyper resilient change tracking
- Application-Aware Backup(Exchange, SQL, AD, Oracle etc.)
- Up to 1,000 GFS recovery points per VM backup



Automated Screenshot verification

- Instantly run the VM from the newly created backup
- View the results of the verification through an email report with the OS screenshot attached



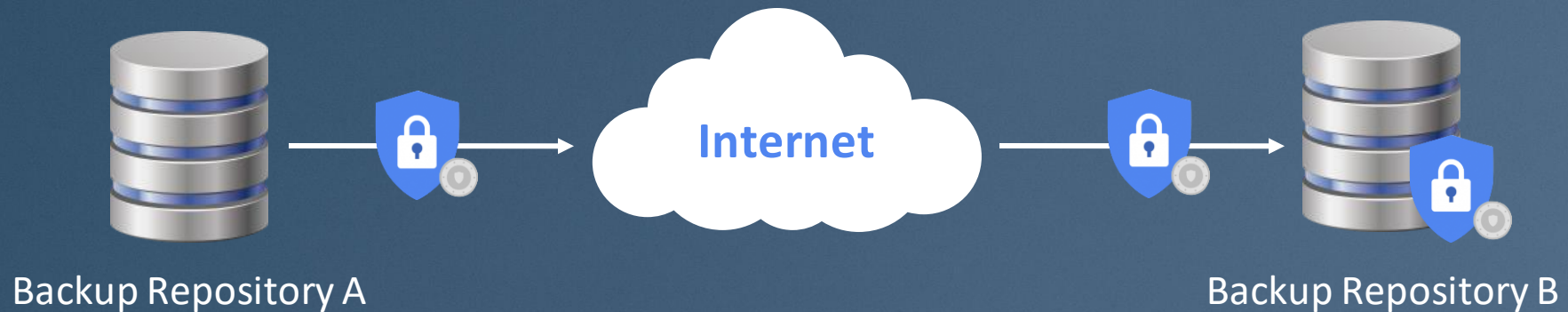
Backup protection via copy

- Backup copy offsite and to Azure/AWS cloud
- Set custom rules specifying which VMs should be copied, where, how, and when



Encrypt the backed up data

- Use AES 256 encryption
- VM backup encryption in flight
- VM Backup encryption at rest



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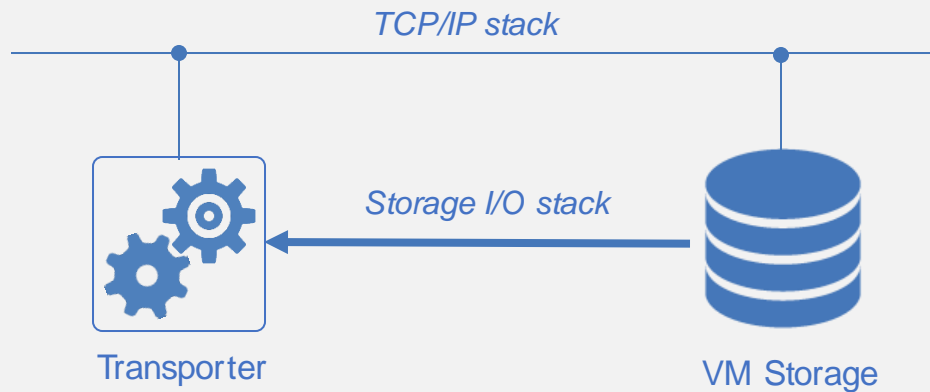
Enhance the backup performance



Technologies of LAN-free Backup

Hot-add

Mount disks to Transporter to retrieve data via storage I/O stack



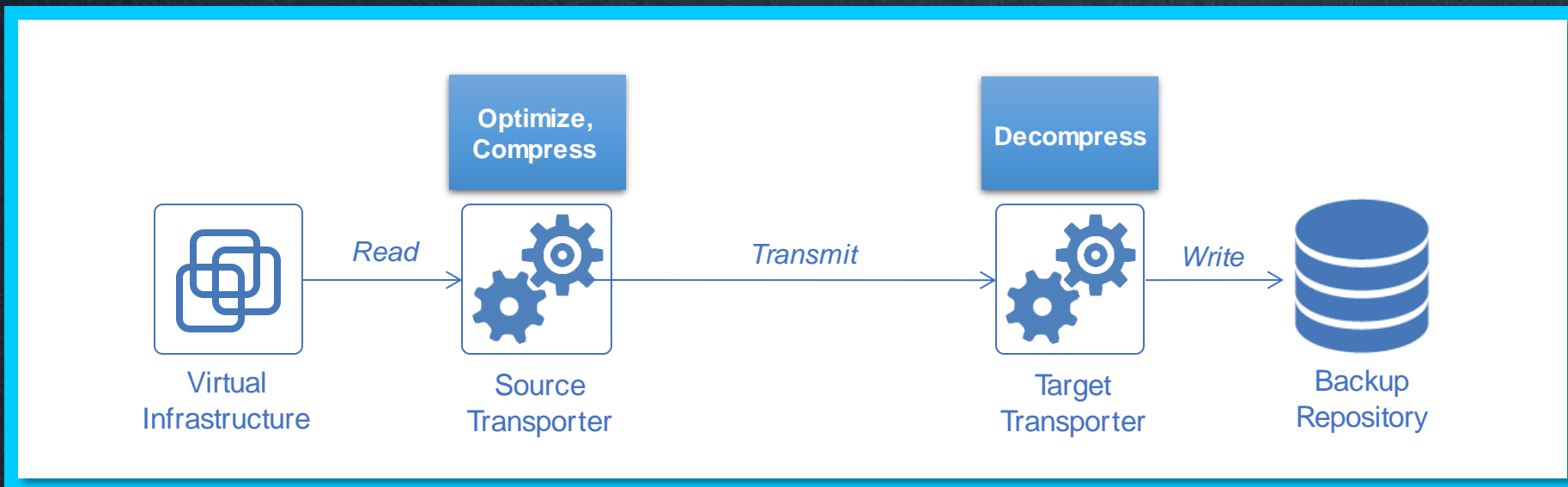
Direct SAN Access

Retrieve data directly from SAN via fiber-channel or iSCSI



Network Acceleration

- VM backup, replication, and recovery speed can be increased by 2X in WAN and busy LAN networks



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Instant disaster recovery



Instant VM Recovery

- Recover the VM from any recovery point and any location
- Instantly boot VM from compressed and deduplicated backups
- Recover your VMs back to the production site to resume normal business operations



Instant file and object recovery

- Support to search and recover file, exchange object, SQL object and AD object
- Agent-less framework



Files



Exchange



SQL



Active Directory

VM Failover and Failback

- VM replication creates and maintains identical copies of source VMs on a target server
- Recovering from a disaster from up to 30 recovery points as simple as powering on your VM replicas



NAKIVO x QNAP

Maximize the cost efficiency



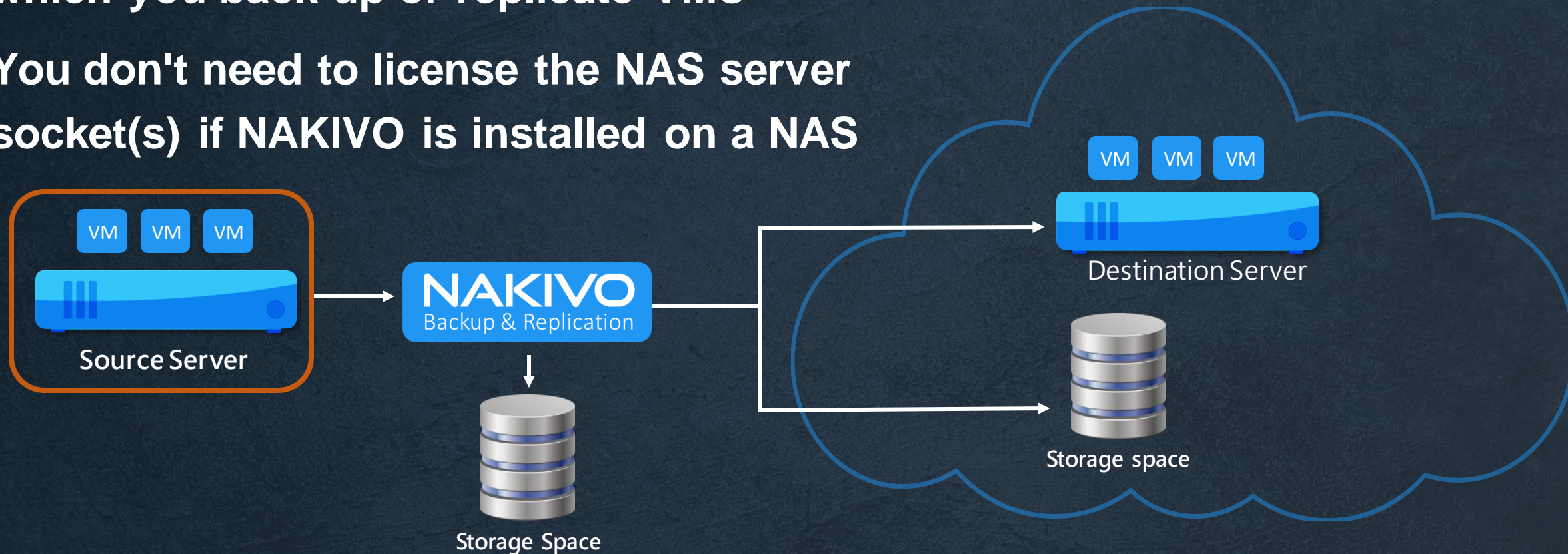
Easy to build up VM backup plan

- NAKIVO is available in QNAP App Center and can be installed on QNAP NAS directly
- Offload the VM system loading
- Enable high backup efficiency and flexible expansion



Perpetual License method suitable for enterprise of all scales

- Per physical CPU socket for each VM server on which you back up or replicate VMs
- You don't need to license the NAS server socket(s) if NAKIVO is installed on a NAS



NAKIVO Editions comparison (v7.3)

	Pro Essentials	Enterprise Essentials	Pro	Enterprise
# Of Licenses per Organization	2(min) – 6(max)	2(min) – 6(max)	Unlimited	Unlimited
Base feature set	✓	✓	✓	✓
Calendar Dashboard	✗	✓	✗	✓
Active Directory Integration	✗	✓	✗	✓
HTTP APIs	✗	✓	✗	✓
Multi-tenancy	✗	✓	✗	✓
Self-Service	✗	✓	✗	✓
Branding	✗	✓	✗	✓
License Delegation	✗	✓	✗	✓
Support and Maintenance (1 year included)				

NAKIVO x QNAP

Live Demo

Intently deploy NAKIVO backup environment



NAKIVO x QNAP

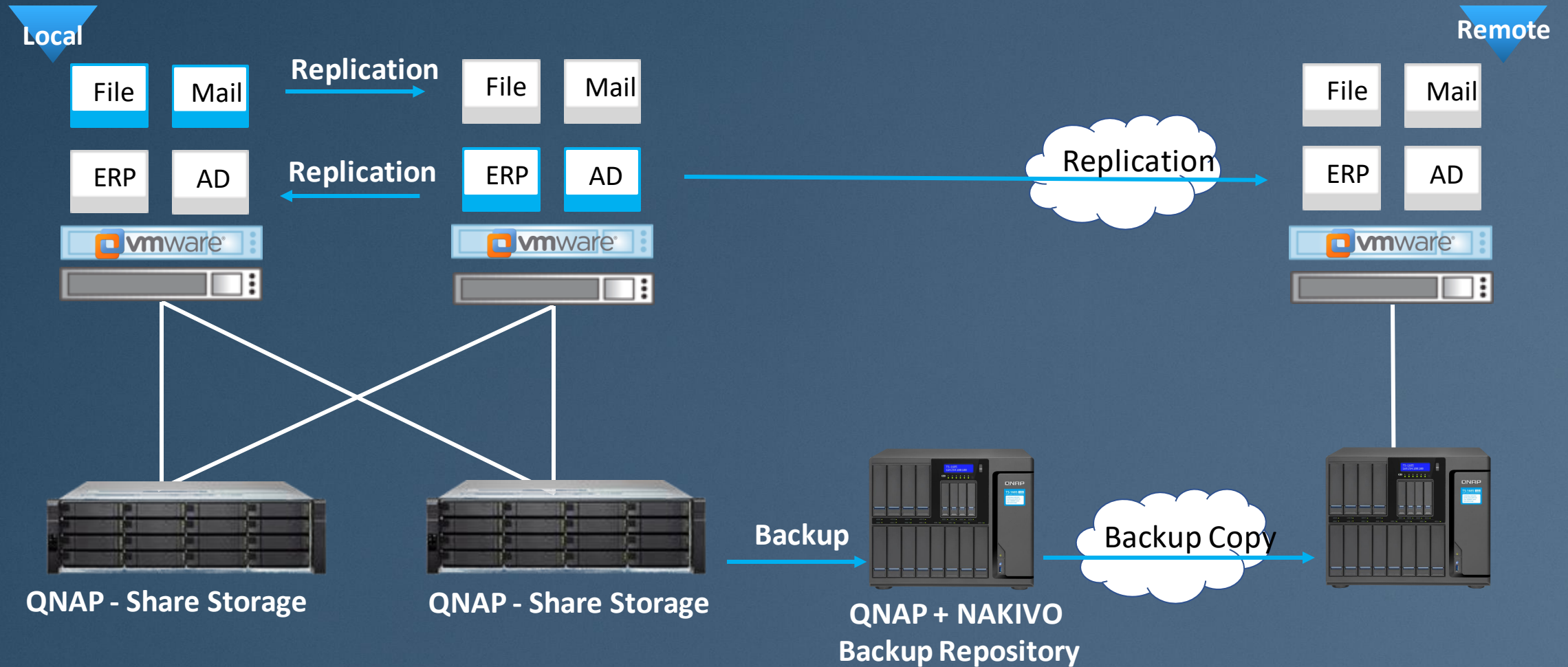
Profession way to back up your virtual environment



High flexible deployment for various backup scenarios



Disaster Recovery framework for enterprises



NAKIVO x QNAP

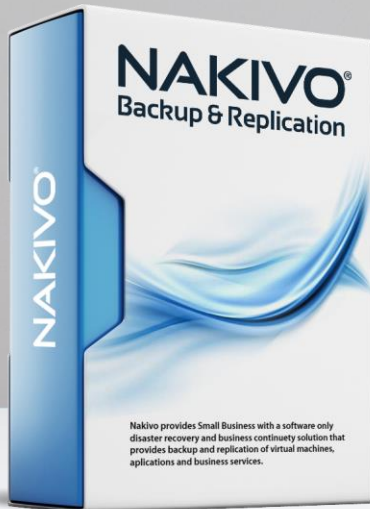
Live Demo

Disaster Recovery



QNAP x NAKIVO

Best choice for protecting virtual environments



- ✓ **Fast**
- ✓ **Reliable**
- ✓ **Cost-efficient**
- ✓ **VM protection**

