QNAP

Veeam Availability Suite with QNAP All Flash Solution

QNAP Enterprise series

veeAM
READY

Repository

Introduction

As businesses modernize their data centers to benefit from Internet of Things, artificial intelligence, and machine learning solutions, they need NAS solutions to be more than just "simple storage".

QNAP Systems, Inc., provides a comprehensive range of cutting-edge Network-attached Storage (NAS) and video surveillance solutions based on the principles of usability, high security, and flexible scalability. QNAP envisions NAS as being more than "simple storage" and has created many NAS-based innovations to help customers better manage their data.

QNAP's partnership with Veeam® brings these comprehensive innovations for NAS storage together with the global leader in Intelligent Data Management. Veeam Availability Suite™ enables the recovery of any IT service and related applications and data within minutes, offering availability for all workloads — virtual, physical and cloud.

82%

OF ENTERPRISES ARE FACING A GAP BETWEEN USER DEMAND AND WHAT IT CAN DELIVER, OR AN 'AVAILABILITY GAP' ❶

HIGHLY-RELIABLE FILE SERVER ALLOWING THOUSANDS OF SIMULTANEOUS CONNECTIONS

OUTSTANDING BUSINESS STORAGE FOR COMPREHENSIVE VIRTUALIZATION APPLICATIONS

OPTIMIZED NAS SOLUTION FOR VIDEO AND APPLICATIONS REQUIRING HIGH-AVAILABILITY

❶ 2017 Veeam Availability Report, Veeam Software, 2017

Disaster recovery and system availability are absolutely critical for modern businesses. Events that can cause data or IT infrastructure to become unavailable, such as ransomware attacks, power outages, floods or human errors, are unpredictable. Infrastructure requirements also differ depending upon the application, workload, or location. As businesses prepare to advance their Digital Transformation Initiatives, there cannot be a major disconnect between user expectations and what IT can deliver.

Businesses require dependable IT infrastructure that ensures they have the right tools, hardware and flexibly for sustained growth. Of all the elements in an IT infrastructure, storage is one of the most important. QNAP provides a full range of cutting-edge network-attached storage devices that not only fulfill storage needs, but also provide a wide range of services and features to greatly increase productivity and workflow within a business. By implementing a Veeam and QNAP solution, customers can confidently deploy intelligent NAS storage and to deliver the availability their users, customers and partners expect.

QNAP and Veeam Address Key Data Center Challenges

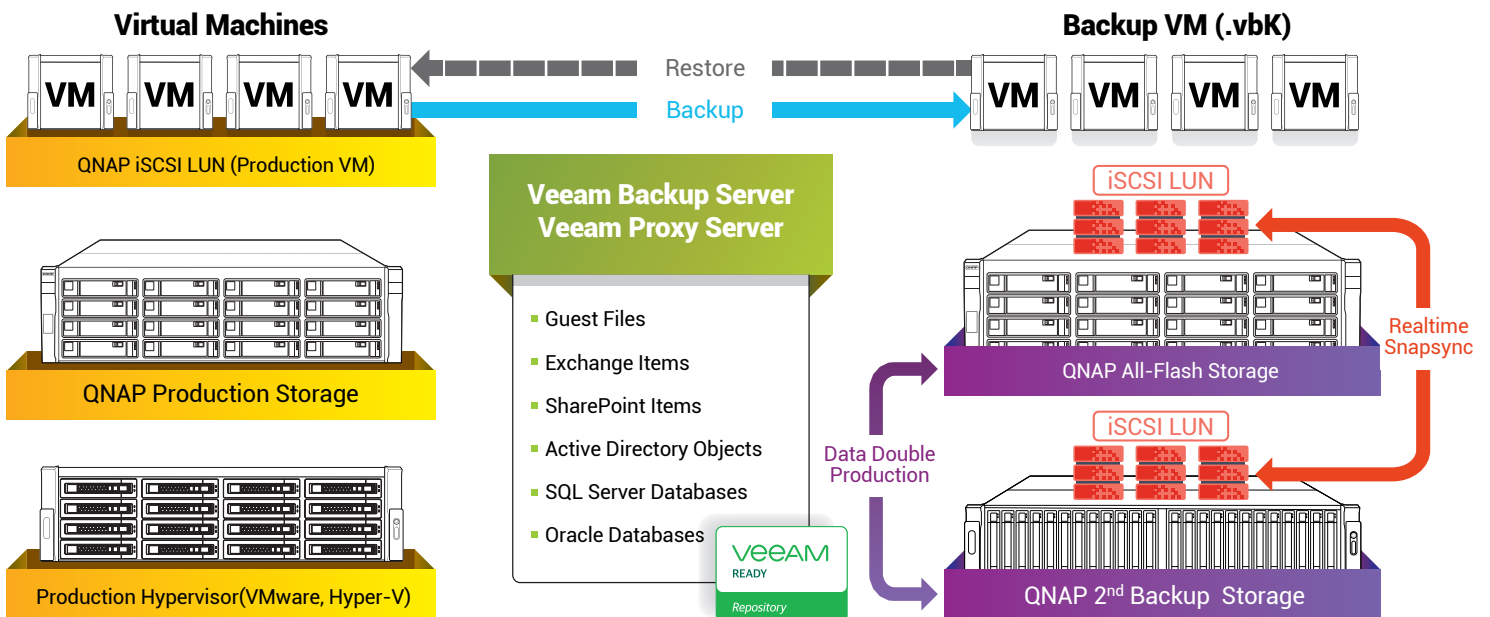| Challenges	Benefits
Data Loss	**Veeam & QNAP Help Your Business Meet Your RPO Goals** • QES supports self-healing and block-based checksums to detect and correct silent data corruption, ensuring data integrity. • QES provides near limitless snapshots (up to 65,535 per NAS) and real-time Snapsync to protect your data. • With Veeam DataLabs™, you can mitigate the risks associated with application deployment and configuration changes by testing them in a secure and trusted production-like environment, powered by Veeam.
Efficiency	**Veeam & QNAP All Flash Offers a Fast and Efficient Backup Solution to Reduce RTOs** • QES supports storage-pool-level Quality of Service (QoS) to guarantee space and consistent I/O performance in environments with multiple LUNs or multiple NAS devices. • QES over-provisioning enables you to pre-allocate and reserve a percentage of SSD storage pool space to maintain read and write performance and reduce recovery times. • With Veeam Instant VM Recovery®, you can run any virtualized application on VMware vSphere or Microsoft Hyper-V directly from a backup, allowing you to recover a failed VM in minutes.
Enterprise Ready	**QNAP + Veeam = Better Together and Enterprise Ready** • QNAP All Flash solution provides enterprise-grade storage features including: QoS, data integrity, snapshot, block-based replication, over-provisioning, and seamless capacity expansion. • With Veeam, you can anticipate needs and demands for backup, recovery, and availability securely across multi-cloud infrastructures to meet the expectations of our mobile, always-on world.

System Architecture

Veeam efficiently backs up production workloads to fast, high performance QNAP All Flash Storage, helping you accelerate digital transformation, simplify IT infrastructure, reduce risk, lower costs, and enhance business agility.

Virtual Machines
VM VM VM VM
QNAP iSCSI LUN (Production VM)

QNAP Production Storage

Production Hypervisor(VMware, Hyper-V)

Restore
Backup

**Veeam Backup Server
Veeam Proxy Server**
- Guest Files
- Exchange Items
- SharePoint Items
- Active Directory Objects
- SQL Server Databases
- Oracle Databases

veeam READY
Repository

Data Double Production

Backup VM (.vbK)
VM VM VM VM

iSCSI LUN
QNAP All-Flash Storage

Realtime Snapsync

iSCSI LUN
QNAP 2nd Backup Storage

QNAP storage systems have been verified as Veeam Ready. For more information and to view a list of Veeam Ready QNAP NAS models, go to
https://www.veeam.com/ready.html.

QNAP SYSTEMS, INC.

www.qnap.com