vNAS Series

All-in-one NAS with virtualization platform

2014.01.03

Imaging

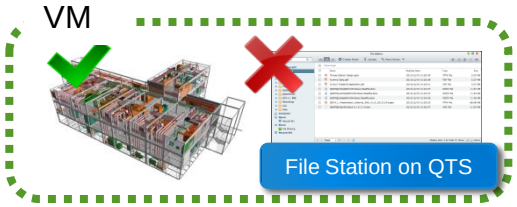

NAS


Virtualization
Station


Virtual Machines
App
OS
Virtualization Station

Virtualization Station

Install Virtualization Station on a specialized Turbo NAS



Safe, efficient, bandwidth-saving

vNAS

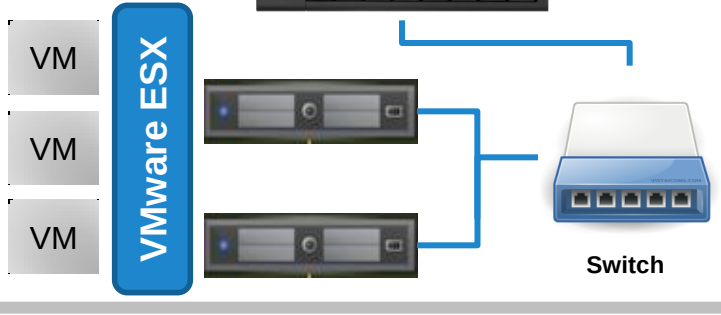
Use vNAS series to manage advanced virtualization applications and services

AutoCAD

SOLIDWORKS

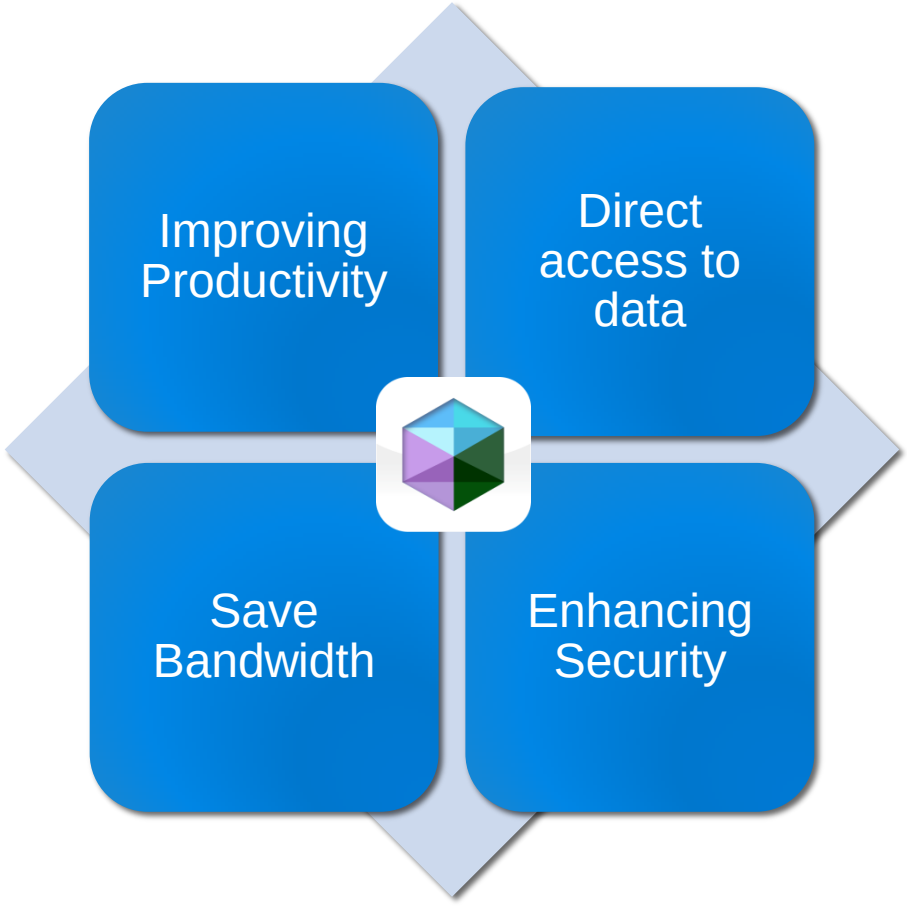
Microsoft SQL Server

ORACLE



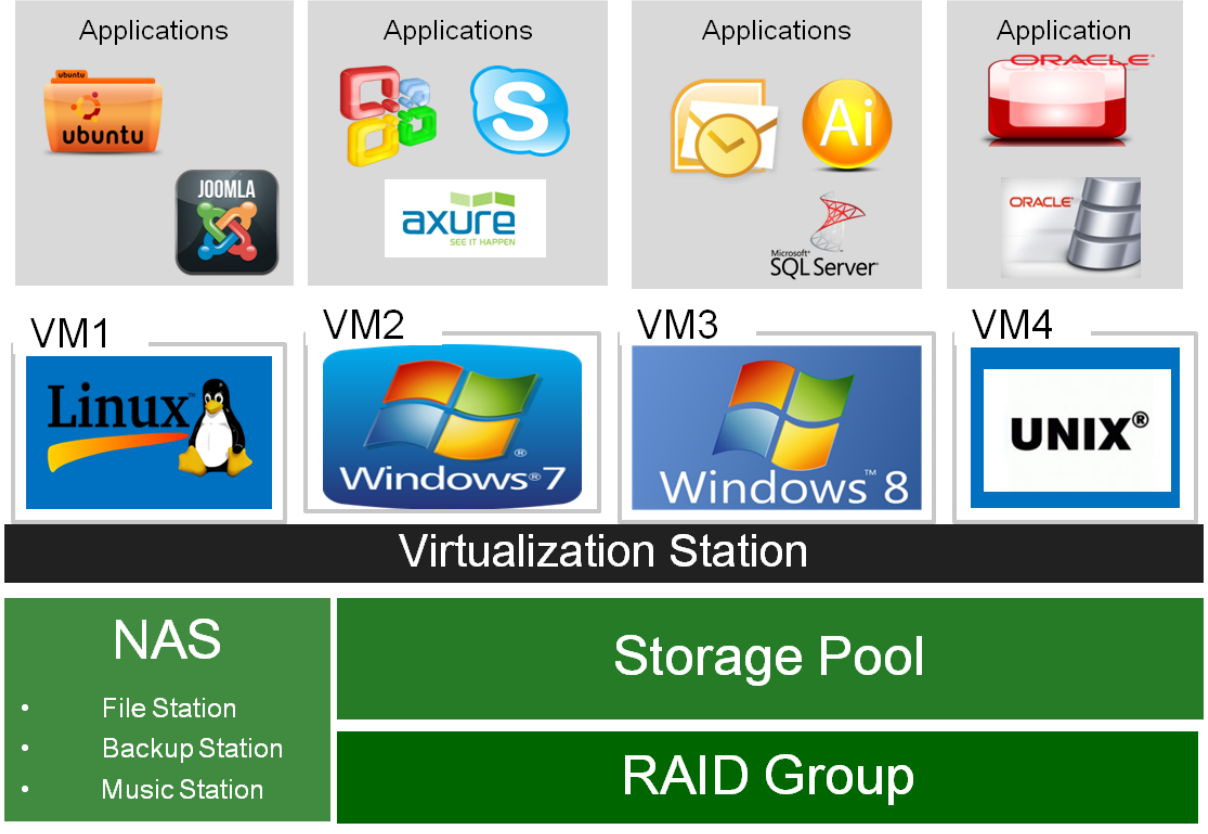
Turbo NAS is virtualization-ready: VMware® vSphere™, Citrix® XenServer™, Microsoft® Hyper-V™

High-level NAS = vNAS



Improving Productivity

- Execute multiple applications on different operating systems (eg. Windows, Linux, UNIX) at the same time.

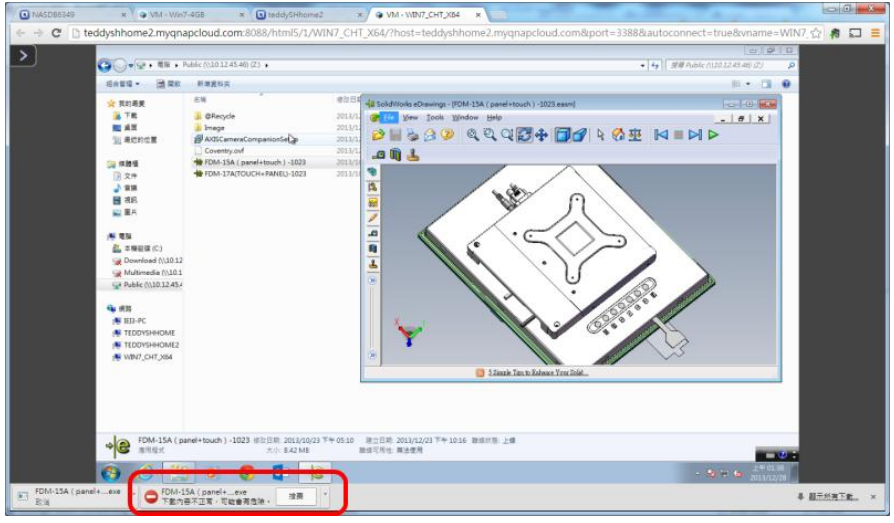


Data Visualization

- Specific file formats cannot be opened on the Turbo NAS, but vNAS makes it possible.
- vNAS features a built-in Virtualization Station that Windows, Linux, Unix OS can be installed on, allowing users to execute any supported application.

Data Visualization

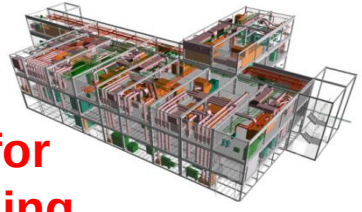
- In normal cloud storage circumstances, not every file can be downloaded and read



Save Bandwidth

Local

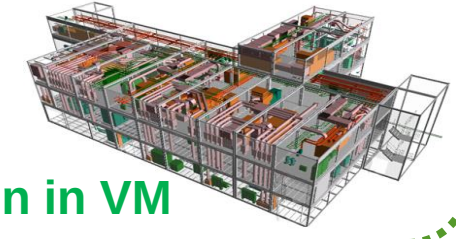
Access NAS to download file



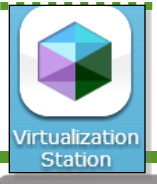
Waiting for downloading

VM

Login NAS



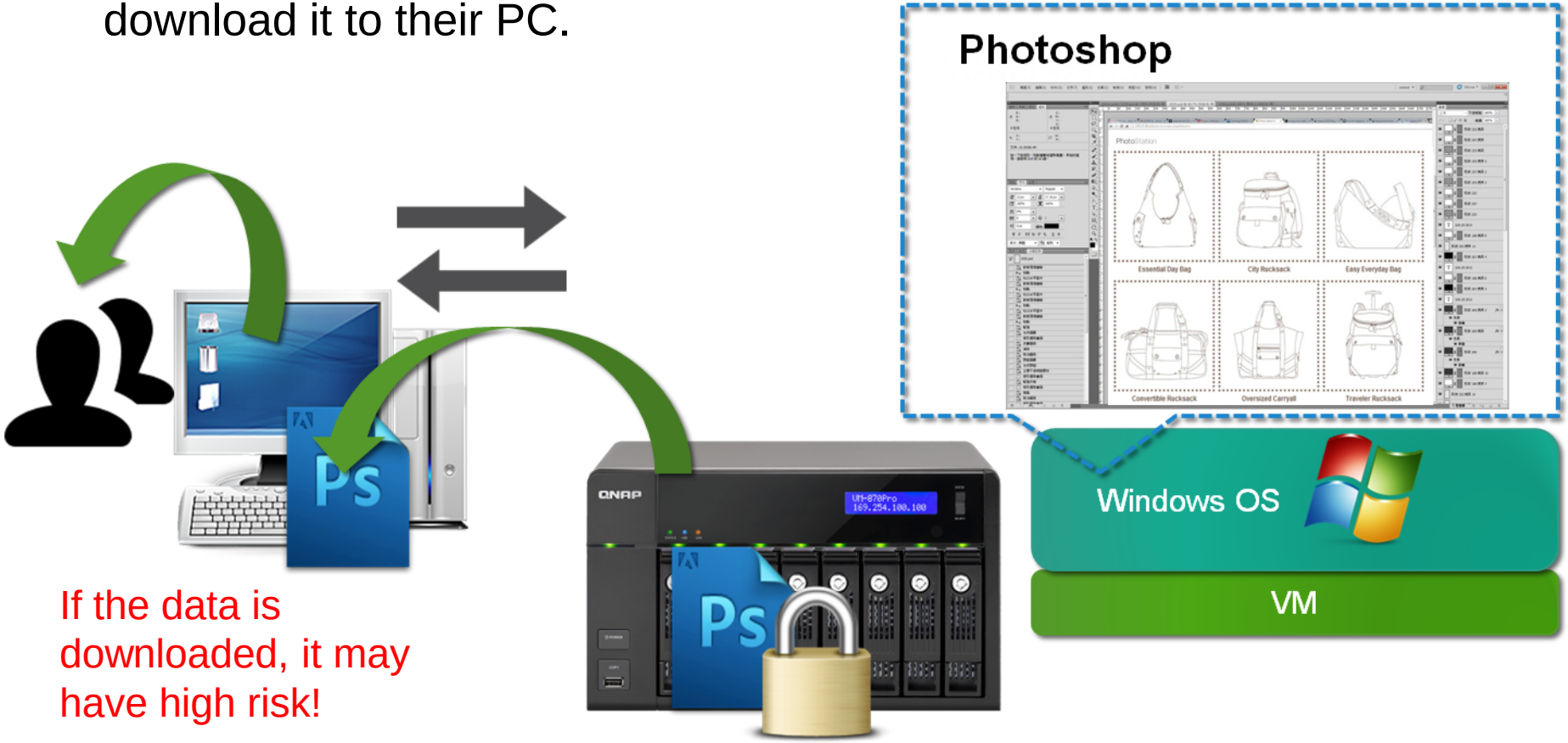
Directly open in VM



Download file from NAS

Enhancing Security

- Data is always kept on the Turbo NAS, and users do not have to download it to their PC.



The trend of high-level NAS: vNAS

- Built-in Virtualization Station QPKG
  - Supports Multi-OS (Windows, Linux, Unix ...) operation on Virtualization Station
  - Centralized management for virtual machines and storage on one platform
- Operating System: QTS 4.1
- Model Names: TVS-470, TVS-670, TVS-870
- CPU：Intel Core i5　RAM：16GB
- Maximum number of running Virtual Machines:
  - 7 * Windows 7, XP, Windows Server…etc. Virtual Machine (2GB memory for each VM)
  - 14 * Linux Fedora, CentOS, Ubuntu…etc. Virtual Machine (1GB memory for each VM)

NAS Build-in Virtualization Station

TVS-470

TVS-670

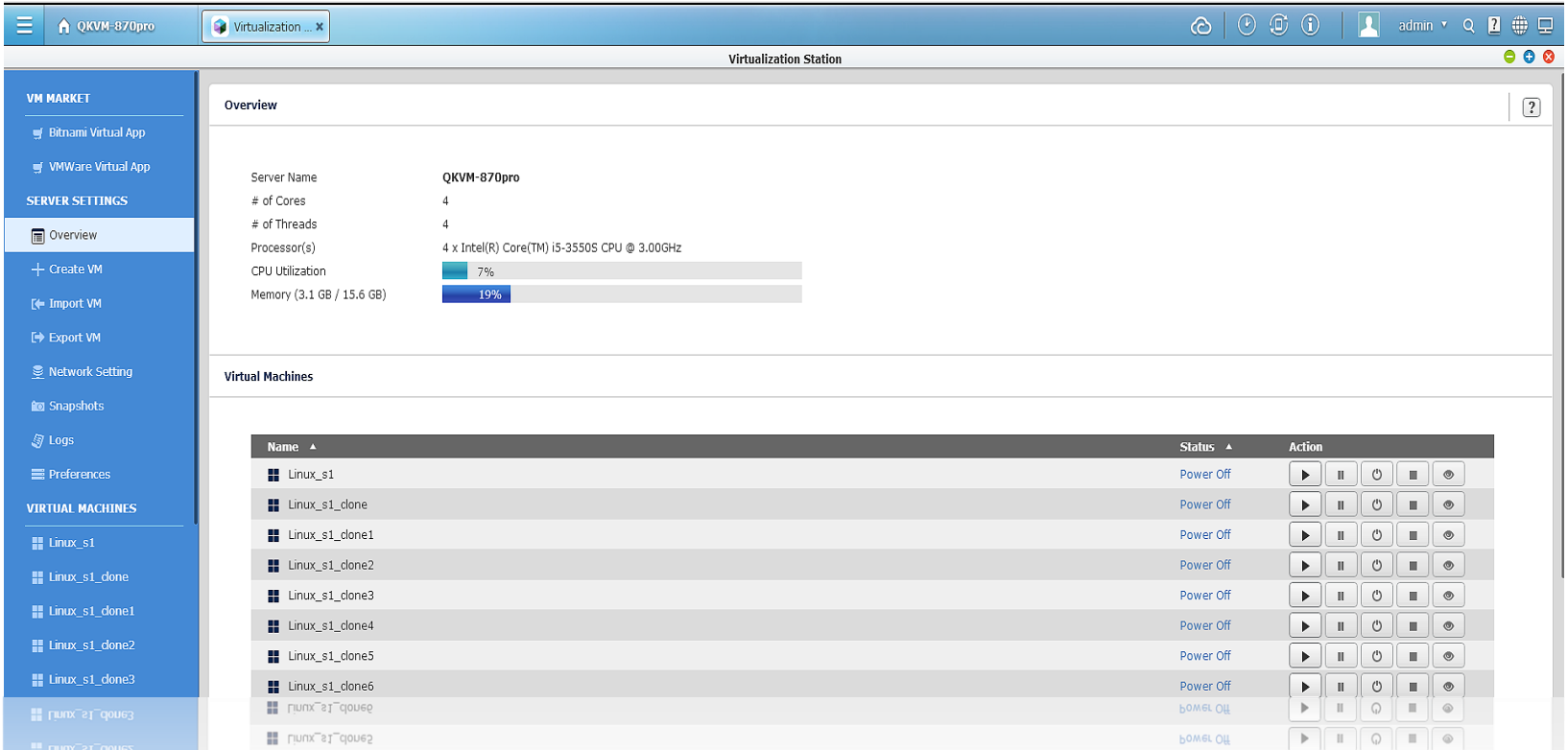
TVS-870

Please note: the number of concurrent running VMs is subject to actual usage of RAM and running applications on VMs. Running many VMs at the same time may affect the performance of NAS.

Function Introduction

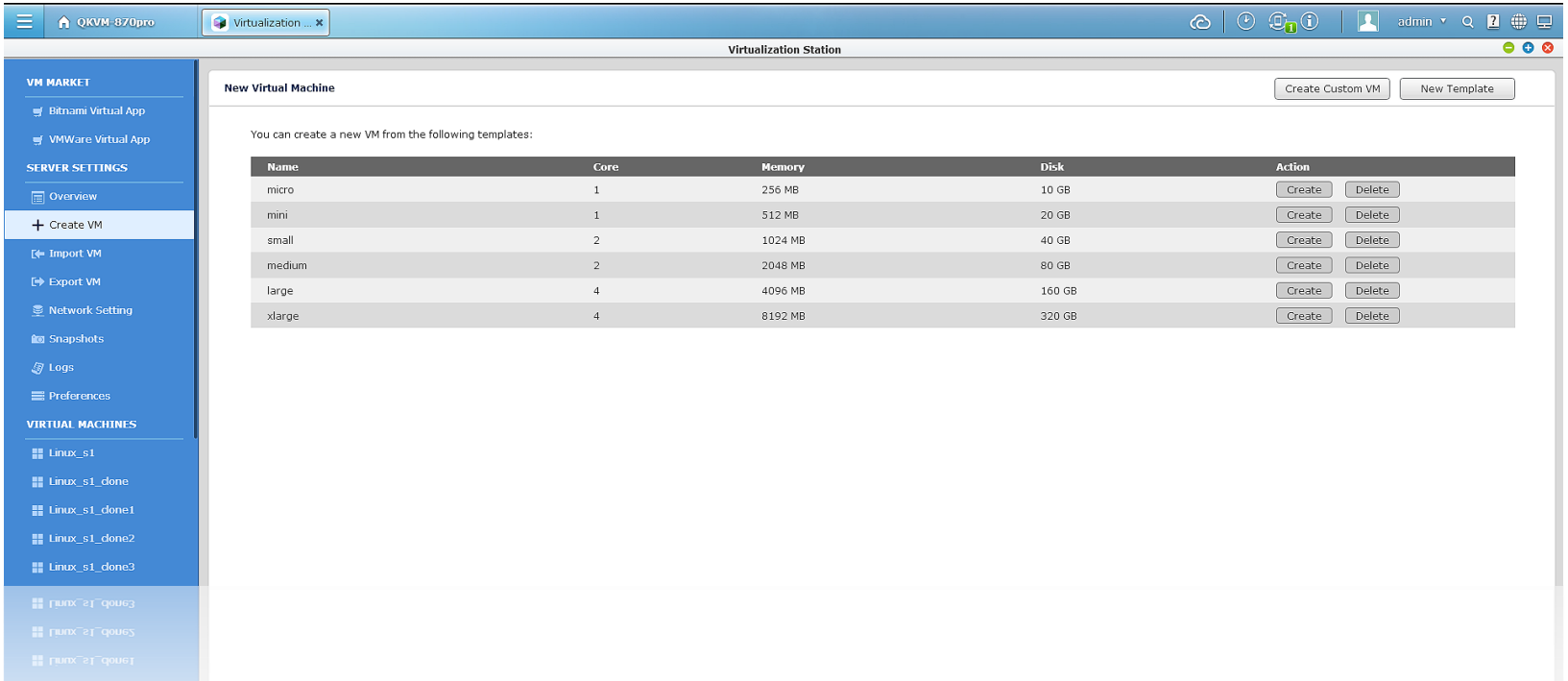
Virtual Machine and Overview

- NAS name, CPU specification, CPU & Memory usage
- A list of all VMs (virtual machines)



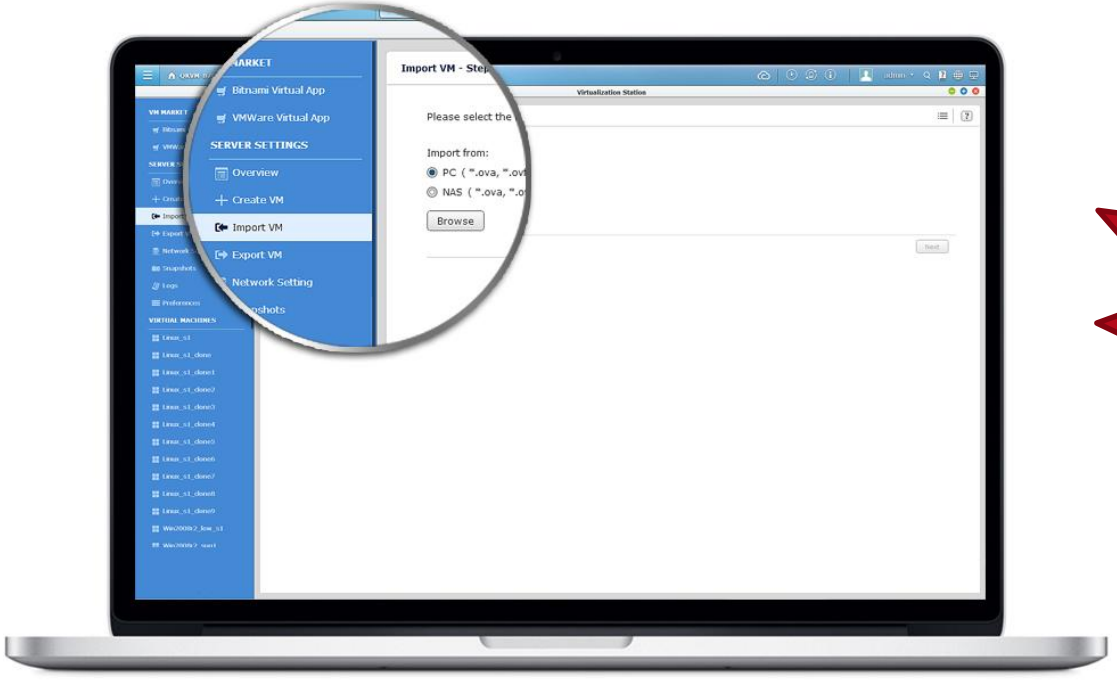
Fast virtual machine creation

- Provides several default templates for creating a virtual machine quickly (e.g. number of Cores, size of Memory)
- Centralized resource provisioning



Virtual Machine Importing / Exporting

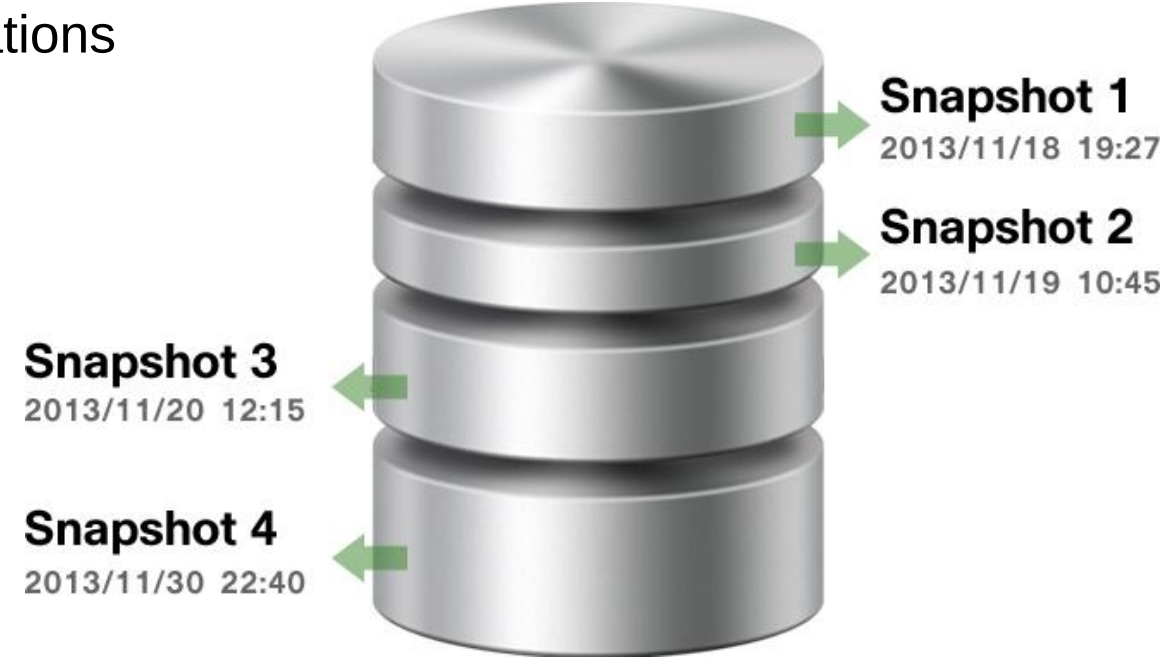
- Supports various VM formats, e.g. .ovf, .ova
- Supports VM importing & exporting to/from NAS or computers



Compatible with VMware & VirtualBox

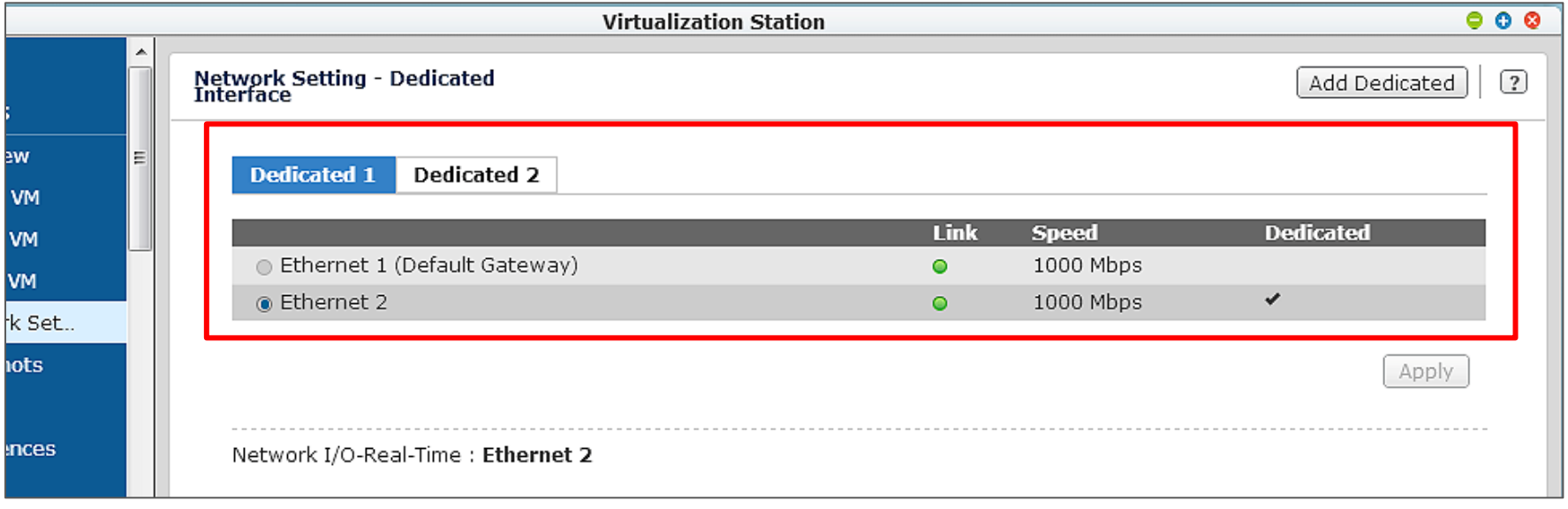
VM Snapshot

- Snapshot for RAM of VMs and ISO of volumes
- Provides a snapshot feature to record the virtual machine system status at a point of time
- Can quickly roll back to the snapshot ensuring constant system operations



Individual network bandwidth for each virtual machine

- Configure specific VMs with dedicated Ethernet resources
- Monitor bandwidth usage for each Ethernet resource

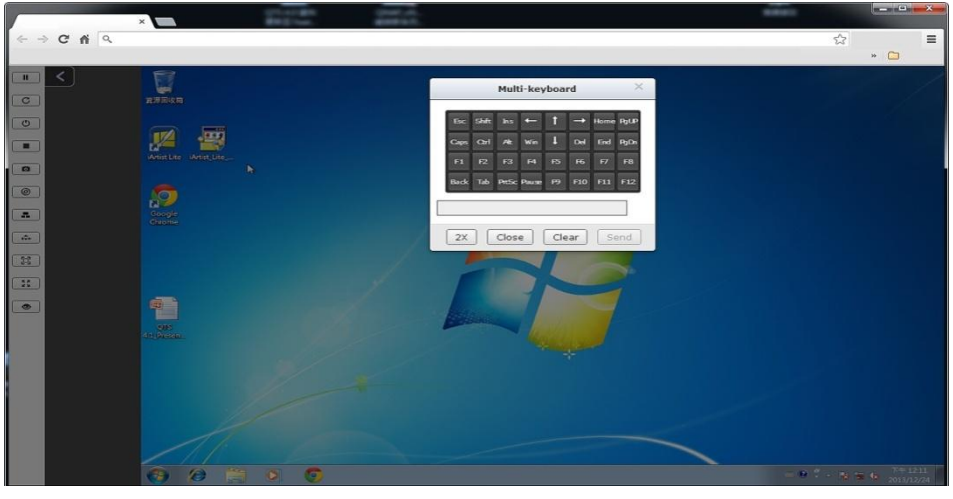


Remote desktop operations

- Shared remote administration user interface
- Use HTML5-compatible web browsers on mobile devices to remotely manage VMs on the NAS
- Web-based Thin Client does not consume hardware resources

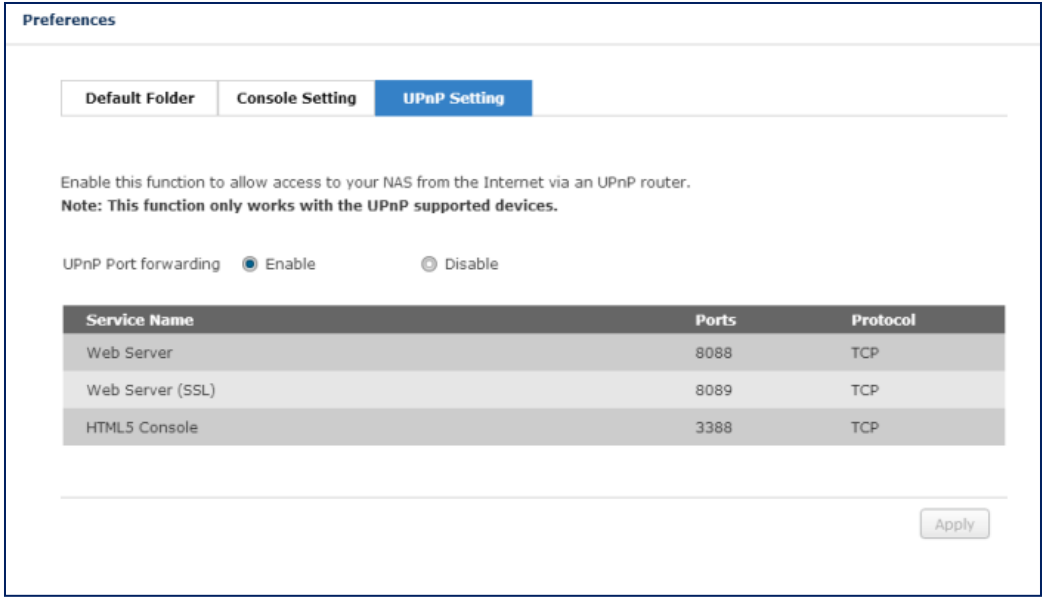
Remote desktop operations

- Supports Function Key Combinations
- Support HTML5 autofit



UPnP Auto Configuration

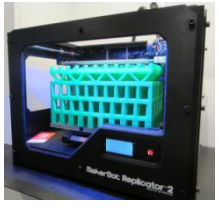
- Create ports on UPnP supported devices
- Supports port forwarding of multiple NAS units



Case 1

- Internet printer server
  - Install printer drivers directly on a virtual machine's OS for increased compatibility
  - 3D printing is processed easily
  - Efficiently share and manage multiple printers over the Internet

3D Printers



Printers (X brand)

Case 2

- IIS Web server
  - Provides a high-speed connection & large storage capacity for web servers
  - Operate existing ASP/ASPX web pages & databases on a Virtual Machine with a supported operating system

MVC | Web Pages | Web Forms | Single Pages | Web API | SignalR

Sites | Services

ASP.NET

Database

Virtual Machine 1

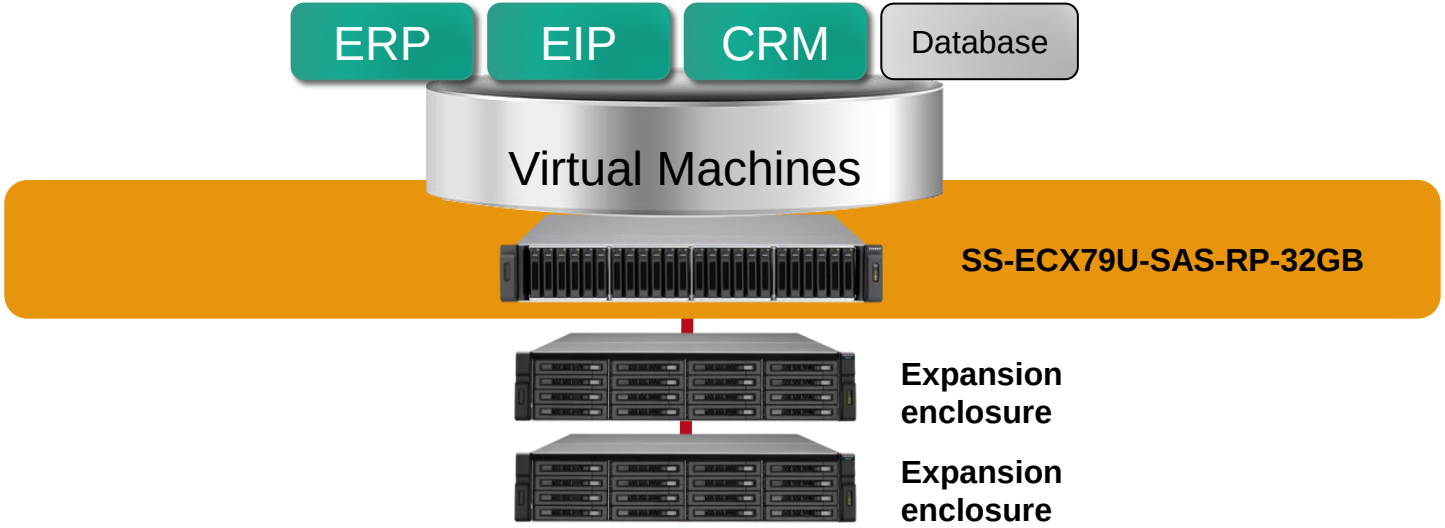
Virtual Machine 2

Virtual Machine 3

SS-ECX79U-SAS-RP-32GB

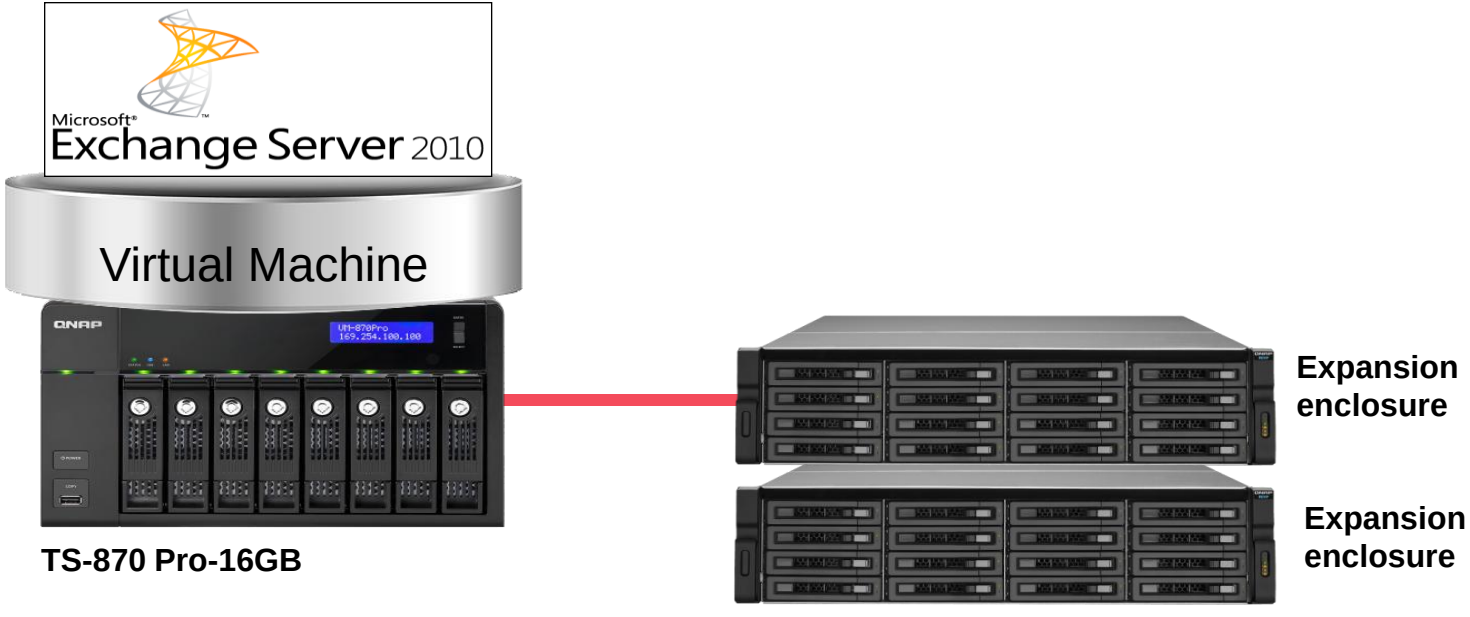
Case 3

- ERP/EIP/CRM system
  - High performance computing with Intel® Quad-Core Xeon™ E3-1245 v2 3.4 GHz Processor and 10 GbE network interface
  - SSD Cache acceleration
  - Highly reliable data protection with QNAP RAID technology
  - Backup data directly to the QNAP Turbo NAS



Case 4

- Microsoft Exchange server
  - Large storage capacity for storing a vast amount of emails
  - Data backup & storage capacity expansion
  - Enter archived emails and browse instantly without downloading



Case 5

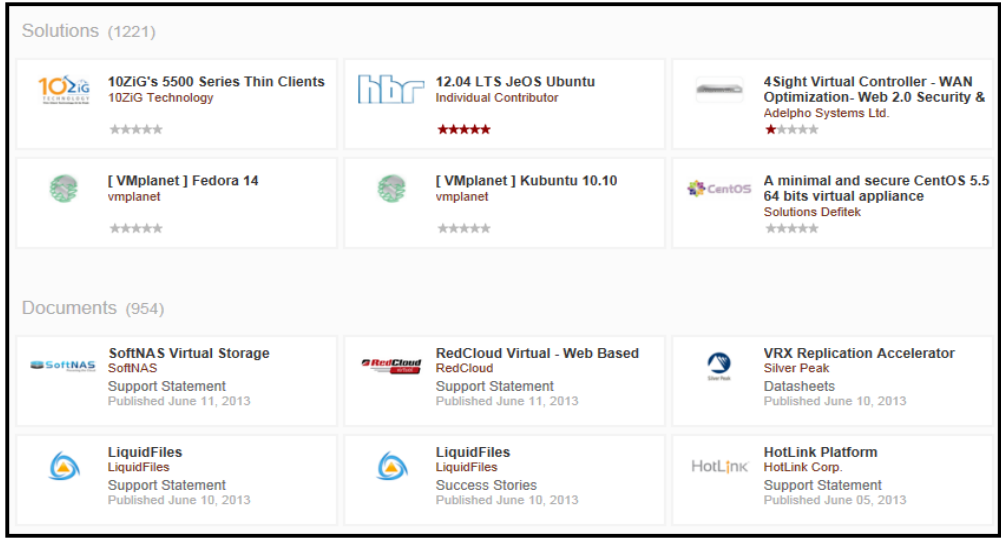
- Windows Active Directory Server
  - Manage servers on the virtual machine easily and efficiently

TVS-870

Download more VMs from online Store

- Build your enterprise-package of information systems easily & quickly
  - Import to Virtualization Station and instantly use applications on VMs
  - Compatible with **VMware Virtual Machines & VirtualBox Virtual Machines**
  - Online store:
    - Bitnami App store**:** https://bitnami.com/stacks
    - VMWare Marketplace**:** https://solutionexchange.vmware.com/store/category_groups/19

Bitnami App store



VMWare Marketplace

THANK YOU