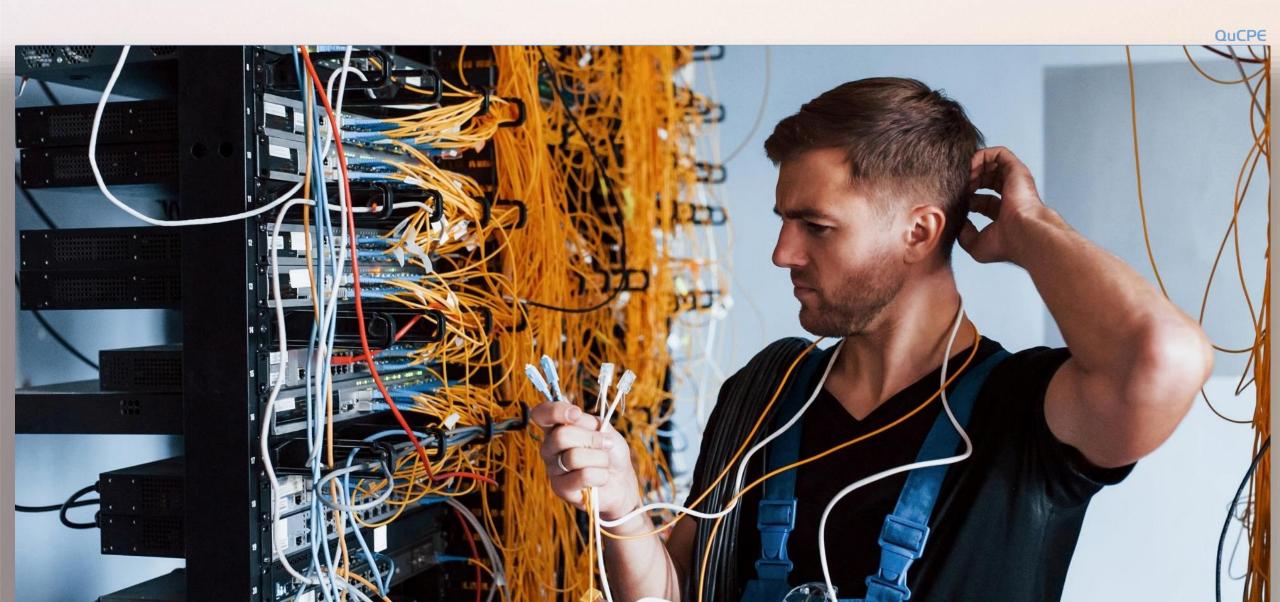
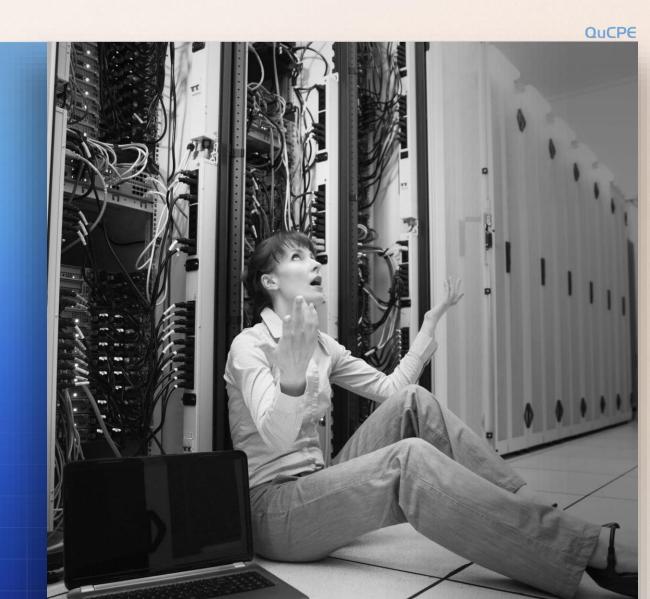


Still manage a traditional messy network?

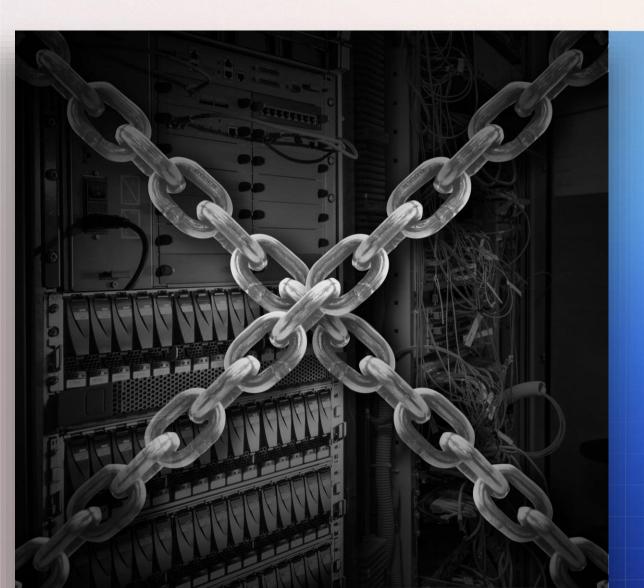


Massive single function devices

- Complexity of daily operation
- More boxes, more interoperability issues
- More boxes, more failure points
- Energy wasting



Difficulties of upgrade



- Fixed boxes lack of flexibilities for future extensions
- Too many things to worry in complicated environment
- Service down time is always long to make physical changes

Match function? Match cost?

- Too costly and complex to replicate same functions to new branches
- Potential security breaches or additional operation expense occurs if not matching network functions with original network



QUCPE

No professional IT managers in branches





- Difficult to identity real problems remotely without professional trouble shooting
- OPEX of IT people traveling around makes IT properties become burdens of business

Business wait nobody

 Hardware boxes delivery suddenly become a critical issue nowadays (Chip shortage, port congestion, charge raises...)

 The longer new service deploy takes, the low competitiveness you got



QUCPE



A new era has come...

Simple

Deploy new services via VM/VNF, no complicate hardware installation process.

Cost effective

Single multiple function box instead of multiple boxes with single function.

Flexible

Software defined, breaks hardware barriers and limitations. Release the possibility of your IT environment.

Minimize downtime

On site support is no longer required, remote manage, trouble shoot VM/VNF directly.

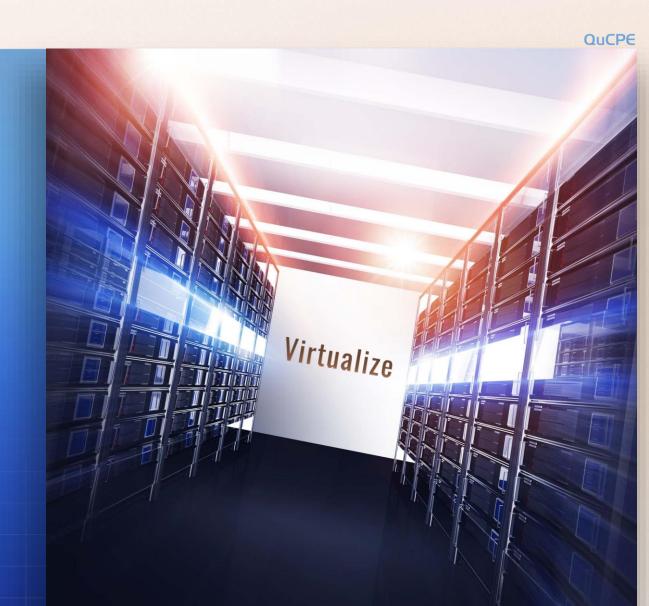
Quick

Few clicks to get complex jobs done. Such as service modifying, shifting or bulk deployment.



Can I virtualize my IT? What do I need?

- Powerful device not only carry existing services but also with buffers for future upgrades.
- Flexible platform that can enable and well manage various services
- An easy way to monitor, manage all around the world.



Traditional IT

Internet **WAN Application Firewall Optimization Acceleration** Router IPS/IDS **Switch** Server 0 0

QNAP IT Virtualization Solution



QNE Operating System



QuCPE

OUCPE

QNAP IT virtualization solution



Efficient cloud management platform allows remote deploy and manage VM or software containers to your network.

QNE Operating System

Flexible OS provides a safe, easy managed environment to attach various services, release the possibility of your network.



Powerful platform to carry QNE and your services. Simplify your network and make the daily operation much easier.

QNAP

Networking

Equipment

Operating System



Next-generation Operating System

Next generation OS

QNE (QNAP Network Equipment OS)

- Inherit the experiences for Enterprise storage OS
- The foundation for QNAP next generation products

Break-through design than legacy Servers

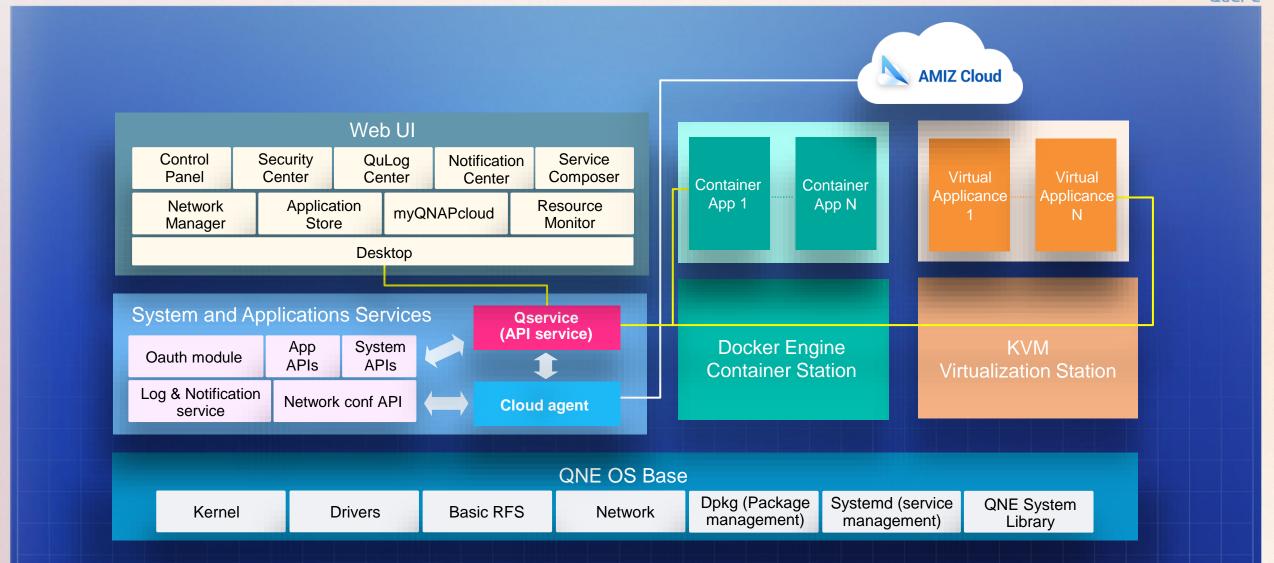
Break-through architecture

- Redesigned architecture for virtualized services
- Extremely fast service's response and migration

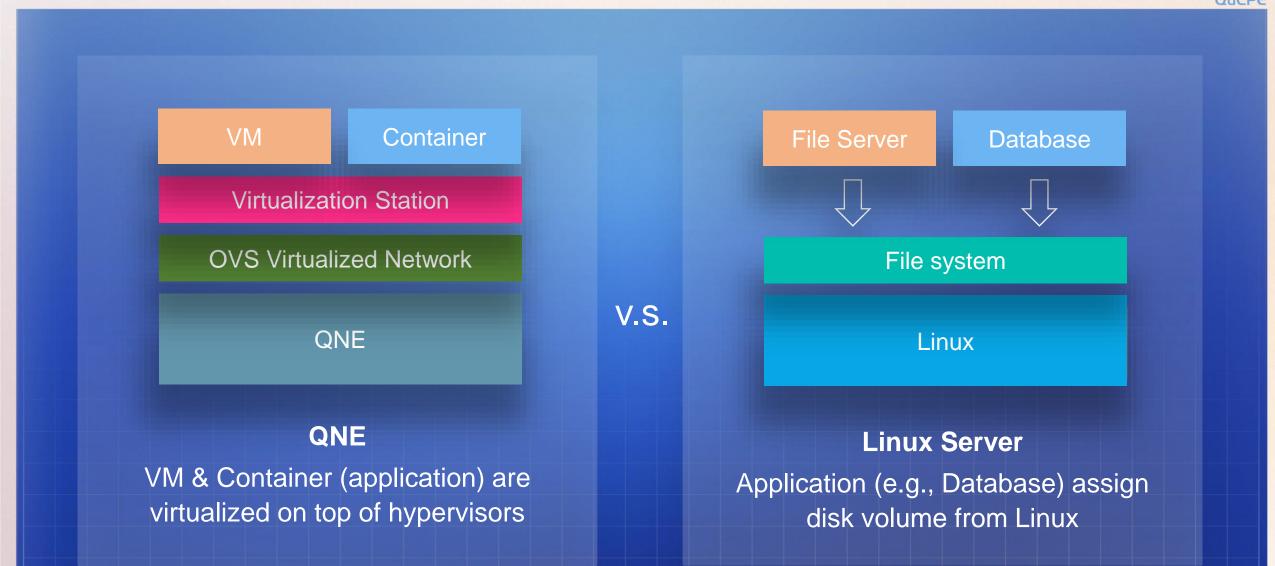
Data center technologies from CSPs

Flexible software-defined and virtualized technologies

- Simplified the IT management for SD-Branch
- Remotely adjustment along with business locations

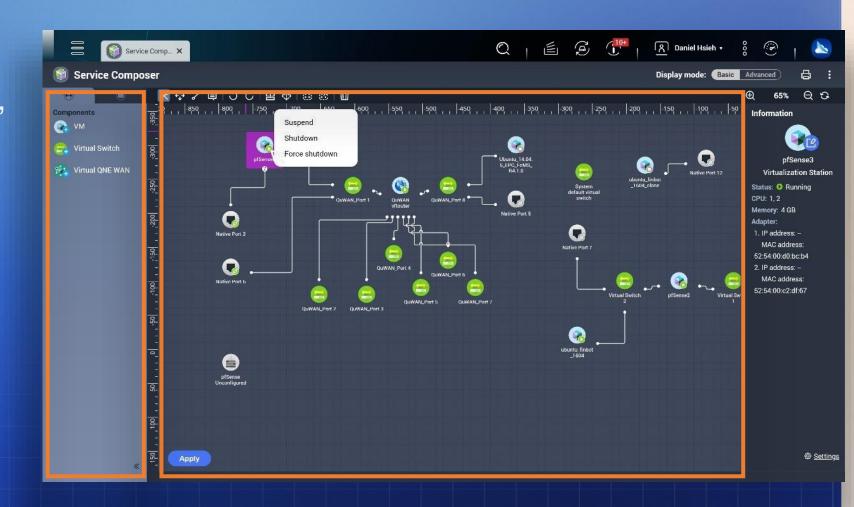


QNE differences to server system

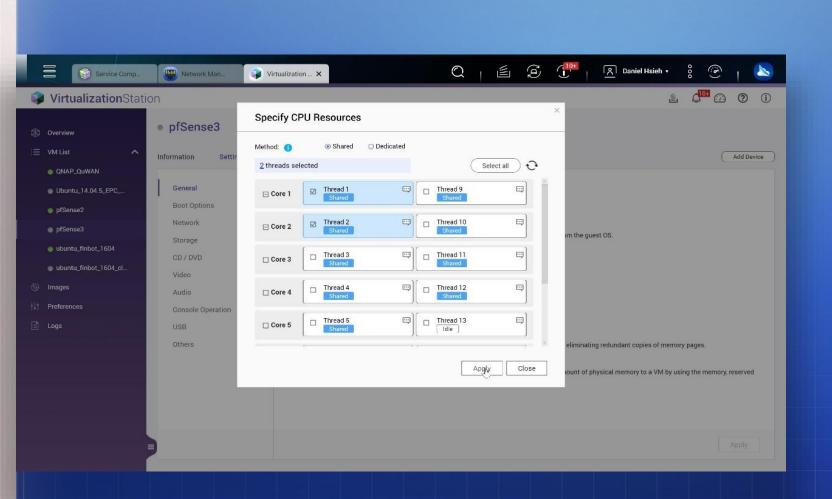


Service composer

- Objective graphic UI
 help to easily create VM,
 VNF and links between.
- Visual virtual network topology makes the maintenance much easier.



CPU resource arrangement

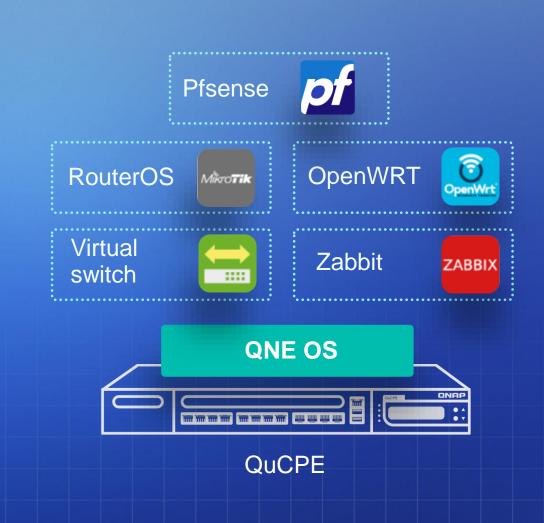


Allocate CPU resource for each VM or services through CPU pinning function. Guarantee critical services are always in good quality in your network.

Service to deploy

Following services are verified running on QNE

- Firewall/router (pfSense)
- Router OS (MikroTik)
- Network Management (Zabbix)
- OpenWRT
- Virtual Switch



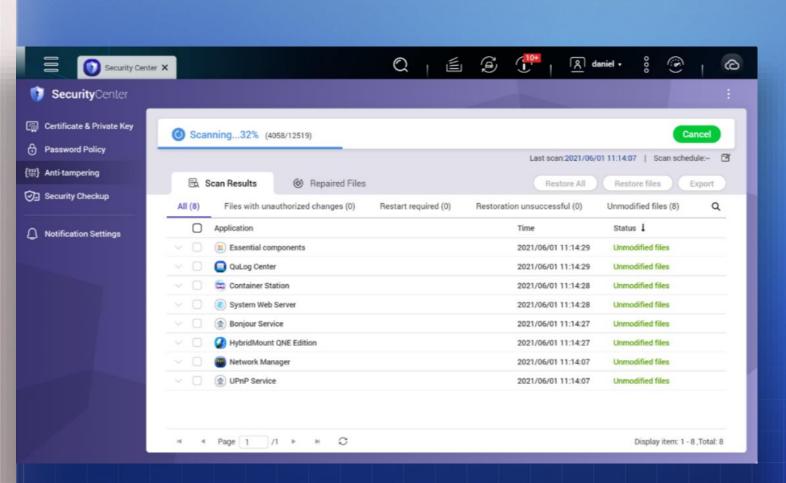
Network manager

QuCPE

Assigning physical interfaces for VM and VNF. Hook your network services to the real network.



Security center



- Military grade anti-tampering function preventing malware change QNE or app
- Auto-recovery when unauthorized change was detected.
- Ensure the security of management access through certificates or password policies.

Stable, light platform

- Leverage Linux kernel
 5.1LTS (Long Term Support)
 version, ensure the stability
 of all your services.
- QNE is a light weight OS that can finish boot up in short time.
 - Helping quickly enable services to the network.



Subscription free SD-WAN

- QuWAN provides an easy way to build VPN connections for your business network.
- Hub & Spoke topology suitable for network that requires fast deployment, extension and backup route.







WAN Optimization



Intuitive Web Management

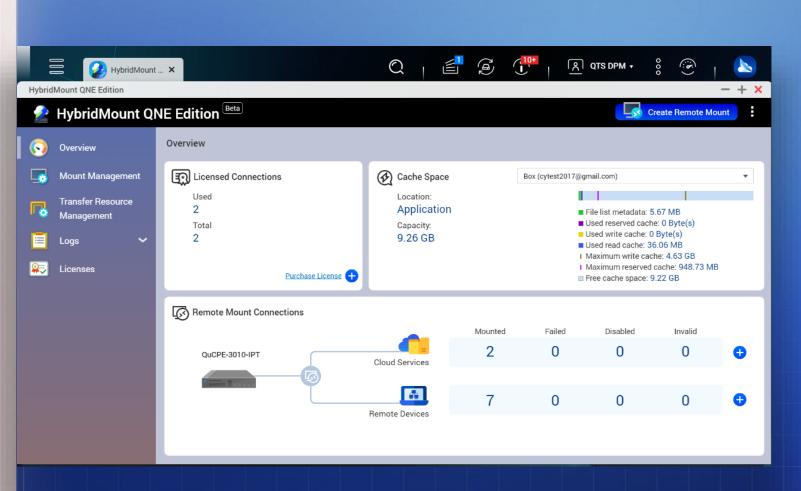


Cloud Management



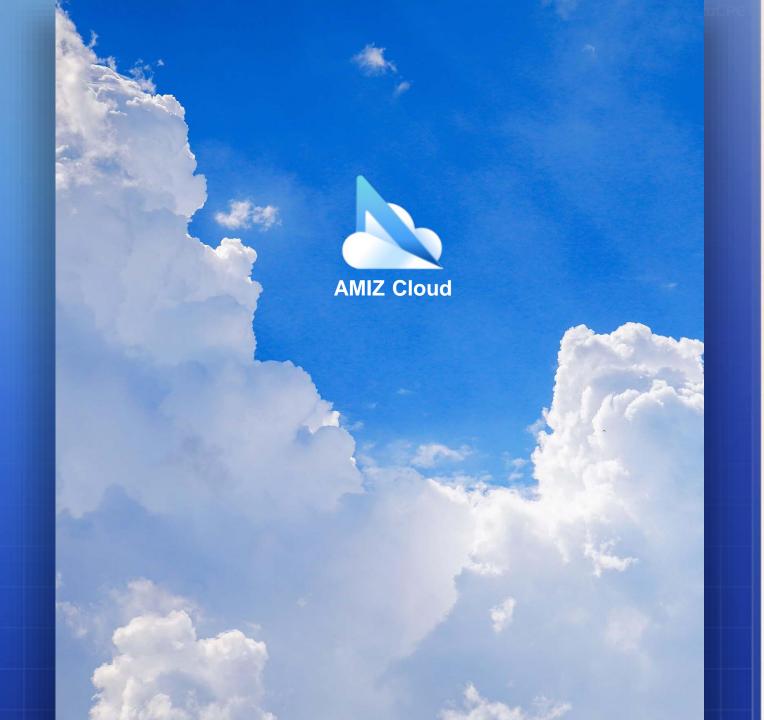
Networking Security

Hybrid mount

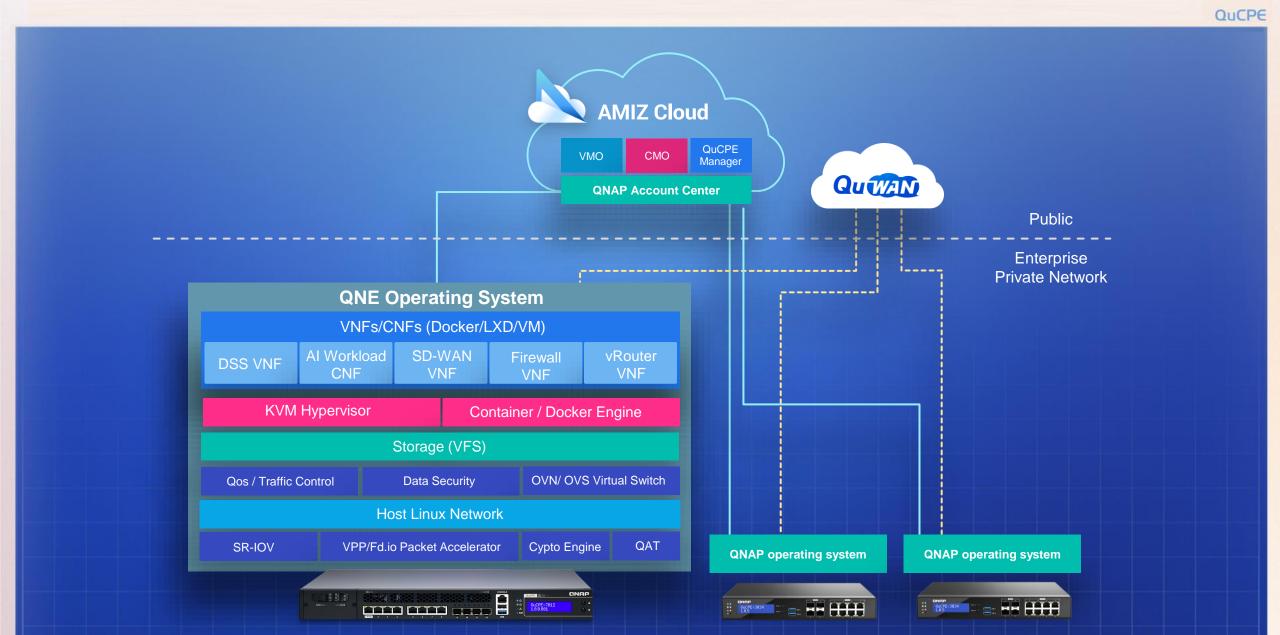


- Free hybrid mount service frees your WAN bandwidth by well managed those frequent access files.
- It improves the efficiency of your intranet and also help to reduce leasing line expense.

AMIZ
Cloud Platform

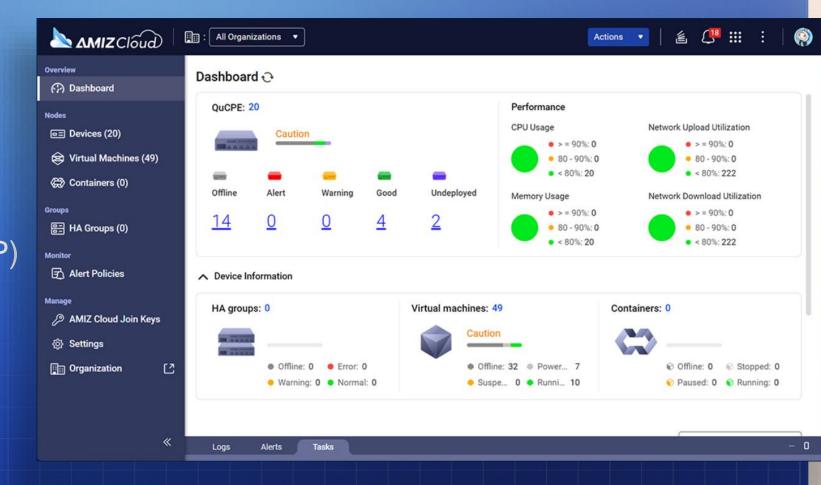


Manage QuCPEs across multiple sites or organizations

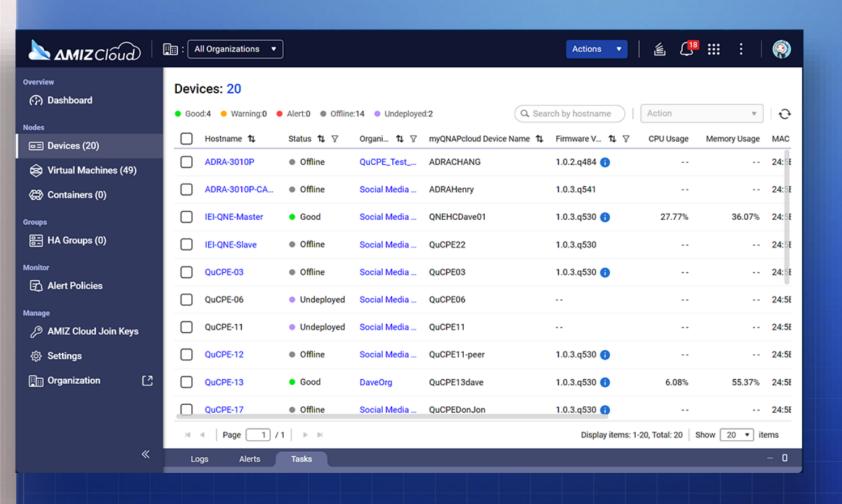


Remote management

- Centralized management for all QuCPE, VM and software container in different sites, improve the efficiency of IT management.
- Zero Touch Provisioning (ZTP) deploy VM/VNF without touching real devices. Save time and money for on-site support.



Bulk deployment



Deploy dozens or even hundreds of VM/VNF by simply clicks on GUI. Enable new services quickly to catch business chances.

VM image management

Save/copy the VM images All Organizations 🔻 AMIZCIOUD) **Deploy Virtual Machines** allows you the replicate or (?) Dashboard Organization Selection (1) shift VMs to new sites, or Organization: DaveOrg • Devices (20)

⊗ Virtual Machines (49) recover disasters even Select Image Containers (0) **QNAP Marketplace Custom Image** more quickly. 믉 HA Groups (0) QuTScloud (Beta) Zabbix Appliance Alert Policies 5.0.4 Details Details AMIZ Cloud Join Keys **AWS File Gateway** 1544560738 Settings
 Settings Details Organization C Specify Resources and Devices VM name: « Alerts

QUCPE

QNAP
Universal
Customer
Premises
Equipment



	A	A A		NEW HILL	NEW NEW
	QuCPE-7012- D2166NT-64GB	QuCPE-7012- D2146NT-32GB	QuCPE-7012- D2123IT-8GB	QuCPE-3034- C3758R-16G	QuCPE-3032- C3558R-8G
CPU	Intel Xeon D-2166NT 12 cores, 24 treads 2.0GHz (Max 3.0GHz)	Intel Xeon D-2146NT 8 cores, 16 treads 2.3GHz (Max 3.0GHz)	Intel Xeon D-2123IT 4 cores, 8 treads 2.2GHz (Max 3.0GHz)	Intel Atom C3758R 8 cores, 8 treads 2.4GHz	Intel Atom C3558R 4 cores, 4 treads 2.4GHz
Memory	64GB DDR4 ECC (4x16GB)	32GB DDR4 ECC (2x16GB)	8GB DDR4 ECC (2x4GB)	16GB DDR4 (2x8GB)	8GB DDR4 (2x4GB)
Port	10GbE SFP+ x4 2.5GbE RJ45 x8	10GbE SFP+ x4 2.5GbE RJ45 x8	10GbE SFP+ x4 2.5GbE RJ45 x8	10GbE SFP+ x4 2.5GbE RJ45 x8	10GbE SFP+ x2 2.5GbE RJ45 x8
Network Module	1	1	1		
PCIe Slot	1x PCIe Gen3 x8	1x PCIe Gen3 x8	1x PCIe Gen3 x8		
HDD Slot	2x 2.5" SATA slots	2x 2.5" SATA slots	2x 2.5" SATA slots	-	
M.2 SSD Slot				2x 2280 M.2 MVMe	2x 2280 M.2 MVMe

Network performance acceleration

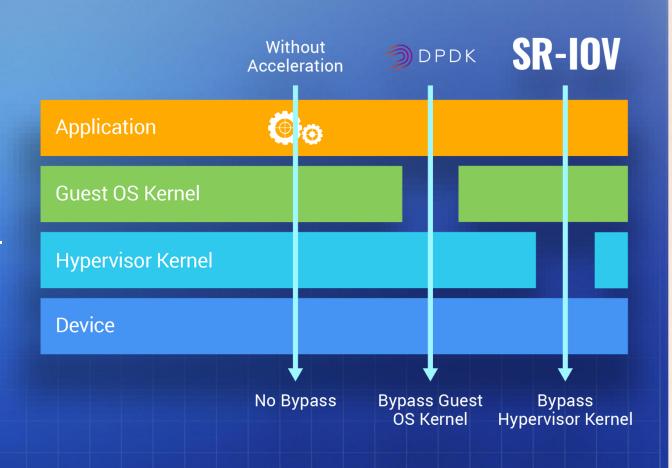
OVS-DPDK

Accelerate packet processing speed in between physical / virtual networks

SR-IOV

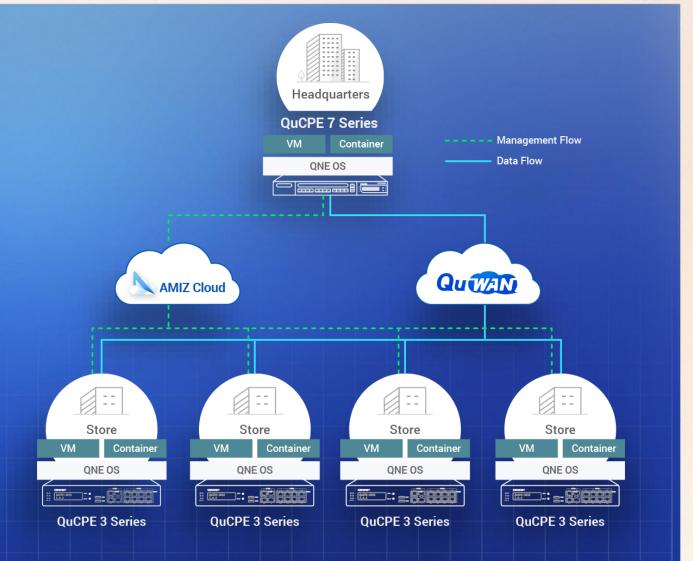
Accelerate 10Gbps+ Smart NIC via SR-IOV. Best-in-class pass through for Smart-NIC

Intel @ QAT
 Speed up QuWAN or IPSec encryption and decryptions



QuCPE

- HQ: Powerful QuCPE 7 series
- Branches: Cost effective QuCPE 3 series
- Intranet VPN: Subscription-free QuWAN
- Central management: AMIZ cloud



QuCPE-3032/3034

is your best choice



LIVEDENO

QuCPE-3032/3034

