

The QNAP logo is located in the top left corner. It consists of the letters "QNAP" in a bold, white, sans-serif font. The background of the entire slide is a dark blue gradient with several large, stylized, overlapping diamond or arrow shapes pointing towards the center. These shapes are outlined in a lighter blue and have a subtle glow effect.

QNAP Network & Virtual Switch

Experience high speed transmission & performance,
and virtual network infrastructure

Use cases of high speed transmission



Government



**Educational
Institution**



Mass Media



Healthcare

High speed transmission is no longer luxuries...

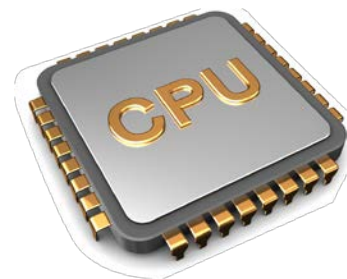
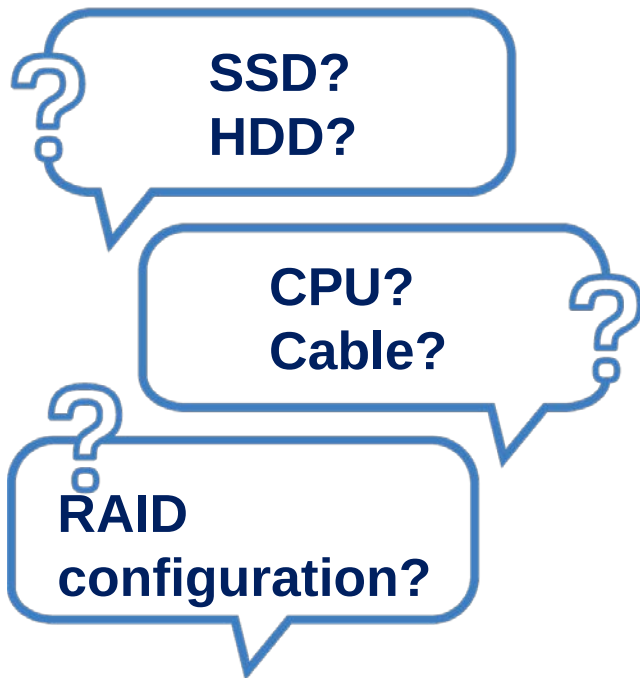
Why do you need higher performance?



QNAP network advantages

	QNAP QTS 4.3.4	Synology DSM 6.2
Hardware design optimized for high speed transmission	 10G supported from entry to high-end (with QM2 expansion)	High-end only
4K/6K/8K online editing	 Long-term collaboration with video editors and provides high-speed transmission solution	Btrfs is less used for video post-production
Thunderbolt connectivity	 Supports shared storage for Mac and Windows through Thunderbolt	Not supported
Support diversified virtual networks for VM and container	 Dedicated UI	Less choices
Flexible virtual switch infrastructure	 The virtual switch can be adjusted at any time	Only set on VM/Container

What else do you need for high speed network?



As the old proverb says, time is money

If need to process 4TB
of raw data:

■ **1 GbE**

■ **11 hours**

($4\text{TB} \div 100\text{MB/s} \div 60\text{sec} \div 60\text{min}$)

■ **10 GbE / Thunderbolt 2**

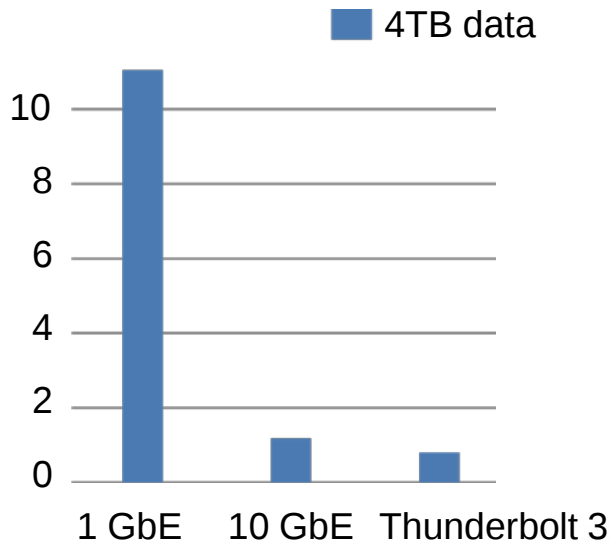
■ **1.2 hours**

($4\text{TB} \div 950\text{MB/s} \div 60\text{sec} \div 60\text{min}$)

■ **Thunderbolt 3**

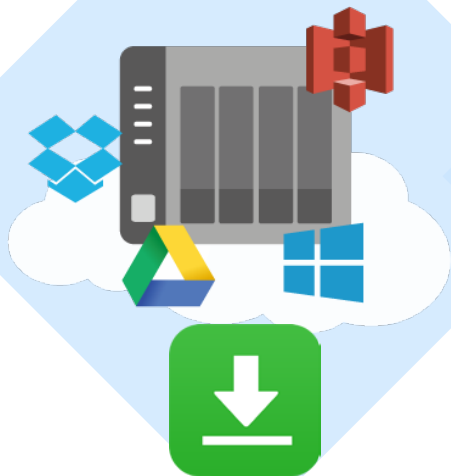
■ **0.75 hour**

($4\text{TB} \div 1400\text{MB/s} \div 60\text{sec} \div 60\text{min}$)



Applications of various high-speed network interfaces

GbE



10GbE



Thunderbolt

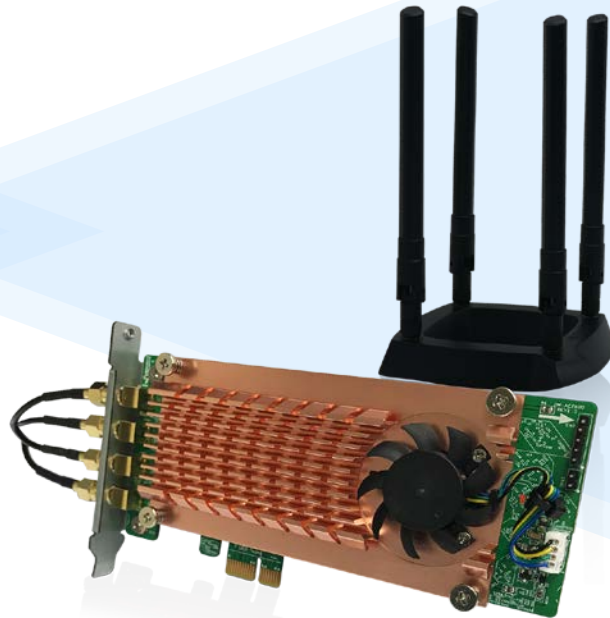


Faster Wi-Fi, delivered: new products under way

QWA-AC1900U USB WiFi dongle



QW-AC2600 PCIe Wi-Fi expansion card



Demo – File transfer

Performance comparison

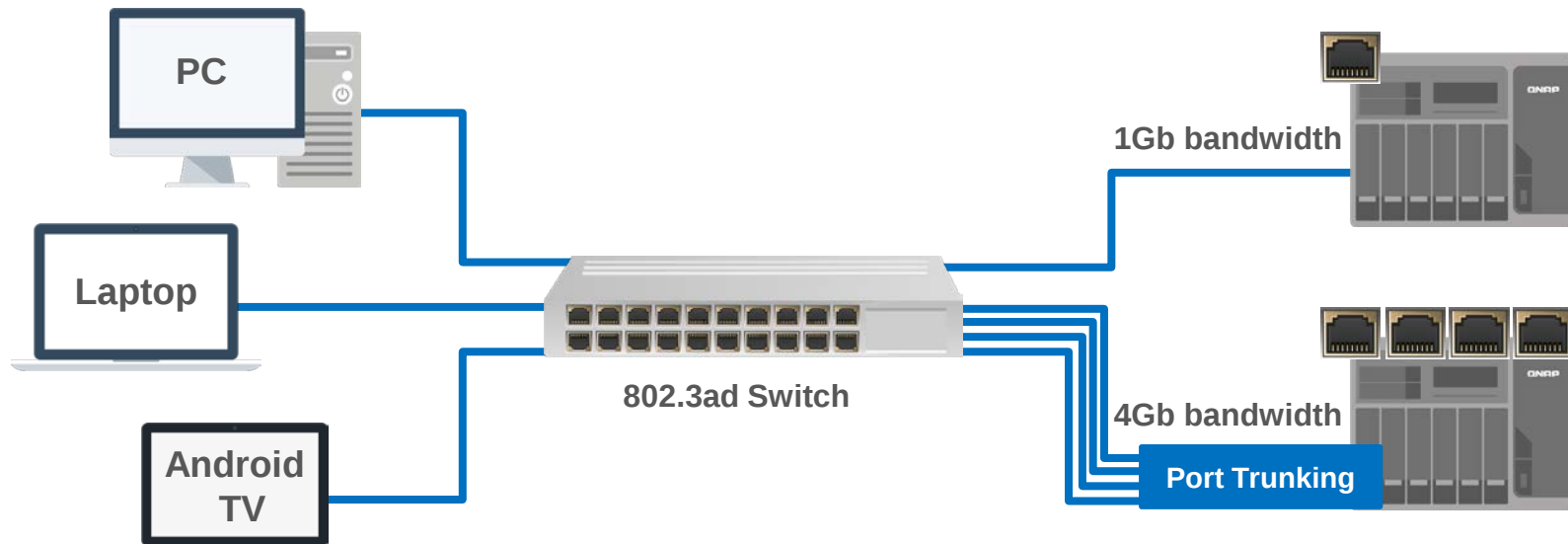
QNAP NAS

Network functionality introduction

- Port Trunking
- VLAN
- DHCP server
- Default Gateway
- WiFi

Port Trunking (load balancing and failover)

- ◆ Increases bandwidth and adds load balancing for more clients.
- ◆ Provides a failover mechanism to maintain network availability.



Port Trunking – switch setting

4 Save

Tools Wizard Help Logout

DGS-1210-28

- System
- VLAN
- L2 Functions
 - Jumbo Frame
 - Port Mirroring
 - Loopback Detection
- MAC Address Table
- Spanning Tree
- Link Aggregation
 - Port Trunking**
 - LACP Port Settings
- Multicast
- SNTP
- LLDP
- QoS
- Security
- AAA
- ACL
- SNMP
- Monitoring

2 Link Aggregation ☒ Enabled ☐ Disabled Apply

3 Link Aggregation Settings

Group: 01 Type: LACP Apply

Port	01	02	03	04	05	06	07	08	09	10	11	12	13	14
Port	☒	☒	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Port	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Maximum 8 ports in static group and 8 ports in LACP group.

Trunking list

Group	Type	Ports	Delete
01	LACP	01, 02, 03, 04	Delete

Port Trunking – interface

The screenshot displays the QNAP Network & Virtual Switch management interface. The left sidebar contains navigation options: Overview, Interfaces (highlighted with a red box and number 1), Virtual Switch, DHCP Server, and System Default Gateway. The main panel is titled 'Interfaces' and shows a list of network interfaces. The 'Port Trunking' tab is selected (highlighted with a red box and number 2). Below this, there is an 'Add' button (highlighted with a red box and number 3) and a 'Delete' button. A 'Port Trunking' dialog box is open, showing a table of available interfaces for trunking. The dialog also includes a checkbox for 'Warn me if a network cable is disconnected from the trunking group' and navigation buttons 'Cancel', 'Step 1/3', and 'Next'.

Network & Virtual Switch

Network & Virtual Switch

Overview

Interfaces

Virtual Switch

DHCP Server

System Default Gateway

Basic Advanced

Interfaces USB Wi-Fi

Port Trunking

Port Trunking

Add Delete

Port Trunking(Add)

Select the port trunking membership and mode. Please note that incompatible mode settings may affect overall performance or cause the network interface to hang. For more information, please click [here](#).

☐	Interface	Status	Speed
☐	Adapter 1	●	1 Gbps
☐	Adapter 2	○	– Mbps
☒	Adapter 3	●	1 Gbps
☒	Adapter 4	○	– Mbps

☒ Warn me if a network cable is disconnected from the trunking group

Cancel Step 1/3 Next

Port Trunking – switch type

Port Trunking(Add)

☐ **General Switch (most common)**
Supports Active-Backup, Balance-tlb, and Balance-alb



☒ **Managed Switch (supports Port Trunking/LACP)**
Supports Balance-rr, Balance-xor, Broadcast, and 802.3ad dynamic



Cancel

Step 2/3

Previous

Next

Port Trunking - mode

Port Trunking(Add)

Transmits the same network packets to all the network interface cards.

Load balancing & Failover

Increases the bandwidth to maintain the transmission speed for multiple clients and provides failover to ensure that the network connection will remain available even if a port fails.

☐ **Balance-rr**

Transmits network packets sequentially to each network interface card in order to distribute the internet traffic among all the NICs.

☐ **Balance-xor**

Transmits network packets using the XOR algorithm, which selects the same NIC slave for each destination MAC address.

☒ **802.3ad dynamic**

Uses a complex algorithm to aggregate NICs and configure speed and duplex settings, providing load balancing and fault tolerance.

Note: The switches also need to be configured.

Cancel

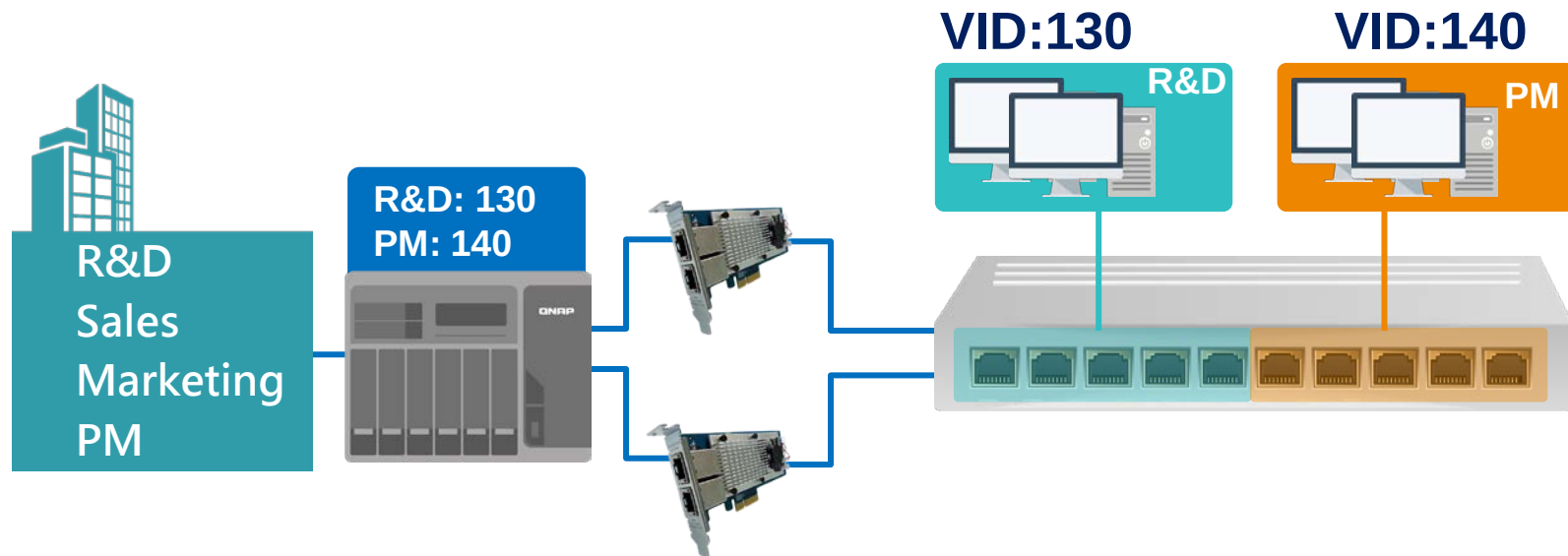
Step 3/3

Previous

Apply

VLAN (Virtual LAN)

- ◆ Ensures the network will not be affected by duplication of packets.
- ◆ Enhances network access security.



VLAN – set R&D VID to isolate other users

Network & Virtual Switch

Network & Virtual Switch

1 Interfaces

Overview
Interfaces
DHCP Server
System Default Gateway

Interfaces Thunderbolt USB Wi-Fi

DNS Server Port Trunking IPv6

2

3

Configure

VLAN

☒ Enable VLAN (802.1Q)

VLAN ID 130

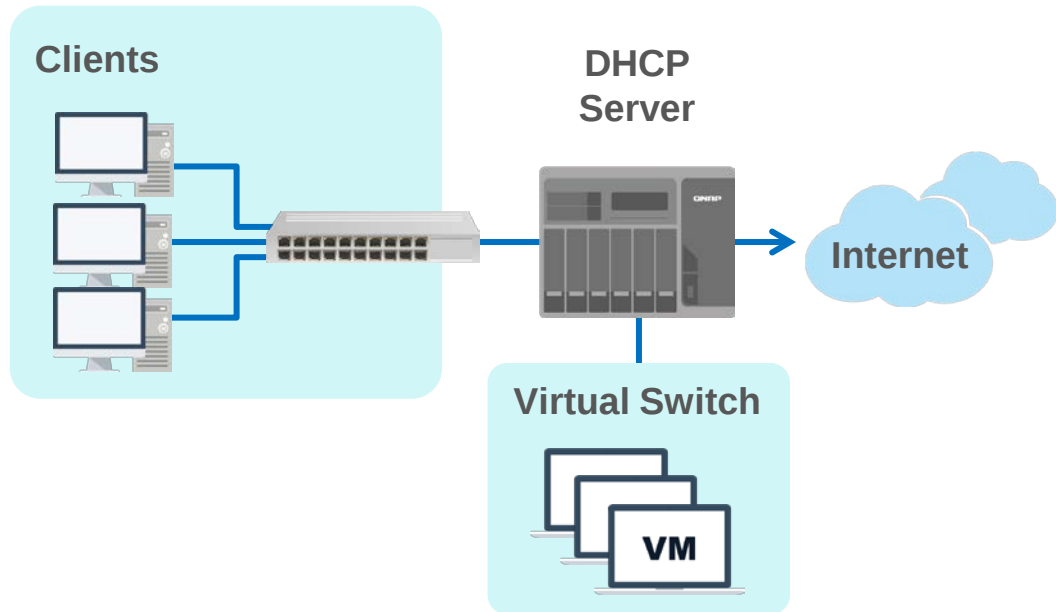
Note : Please ensure your client devices are able to join the VLAN in order to connect to the NAS, or you will be unable to connect to the NAS and may need to reset the network settings of the NAS to disable VLAN.

Apply Cancel

Basic Advanced

The screenshot shows the QNAP Network & Virtual Switch management interface. On the left sidebar, the 'Interfaces' tab is highlighted with a red box and a red circle containing the number '1'. The main panel shows the 'Interfaces' tab with a list of network adapters. The first adapter, 'Adapter 1 (1GbE)', is selected, and its configuration is shown. A red box and a red circle containing the number '2' highlight the edit icon (pencil) next to the adapter. A 'Configure' dialog box is open in the foreground, with a red box and a red circle containing the number '3' highlighting the 'VLAN' tab. In this dialog, the 'Enable VLAN (802.1Q)' checkbox is checked, and the 'VLAN ID' is set to '130'. A note at the bottom of the dialog states: 'Note : Please ensure your client devices are able to join the VLAN in order to connect to the NAS, or you will be unable to connect to the NAS and may need to reset the network settings of the NAS to disable VLAN.' At the bottom of the dialog are 'Apply' and 'Cancel' buttons. The background interface also shows other tabs like 'Overview', 'DHCP Server', and 'System Default Gateway', and a bottom bar with 'Basic' and 'Advanced' settings.

Built-in DHCP service



DHCP Server

- ◆ Assigns IP address to other physical interfaces in the private network.
- ◆ Assigns IP address to virtual machines via virtual switch.

DHCP service - setting

Network & Virtual Switch

Network & Virtual Switch

Overview

Interfaces

Virtual Switch

DHCP Server

System Default Gateway

1

2

3

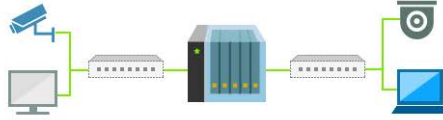
DHCP Server Information

Add Delete

	Adapter	IP Address	Start IP Address	End IP Address	Actions
☐	Adapter 2				
☐	Virtual Switch 3				
☐	Virtual Switch 2				

DHCP Server

Allow every adapter to set up its own DHCP service.



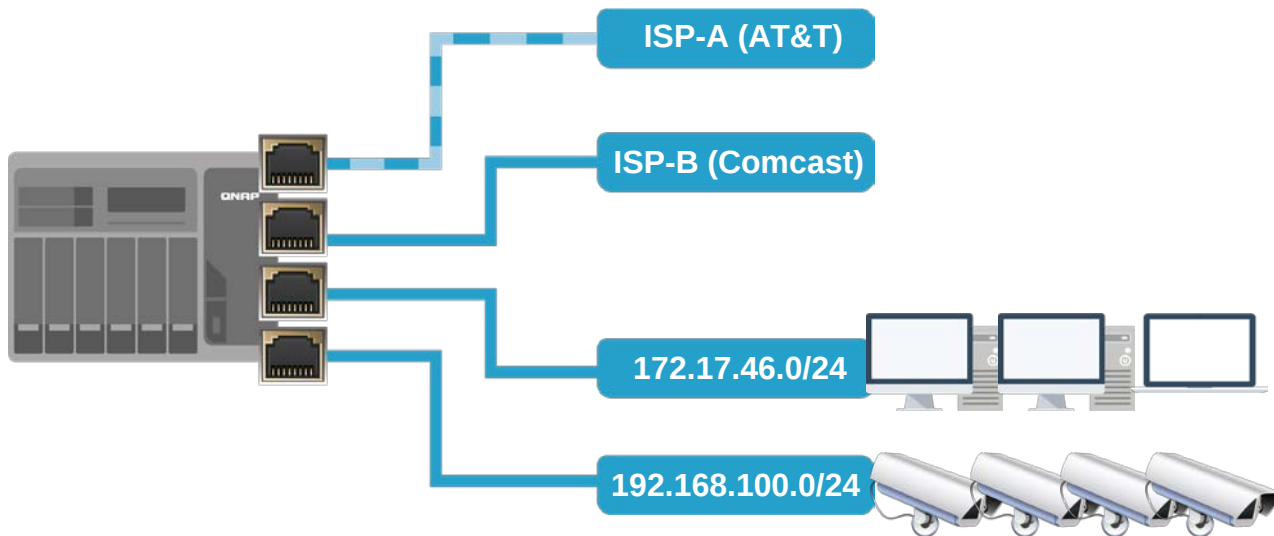
Interfaces	IP Address	Status
☐ Adapter 2	192.168.10.100	DHCP Server
☐ Adapter 3	172.17.46.71	DHCP client
☐ Adapter 4	...	DHCP client
☐ Virtual Switch 1	172.17.46.67	DHCP client

Cancel

Step 1/4 Next

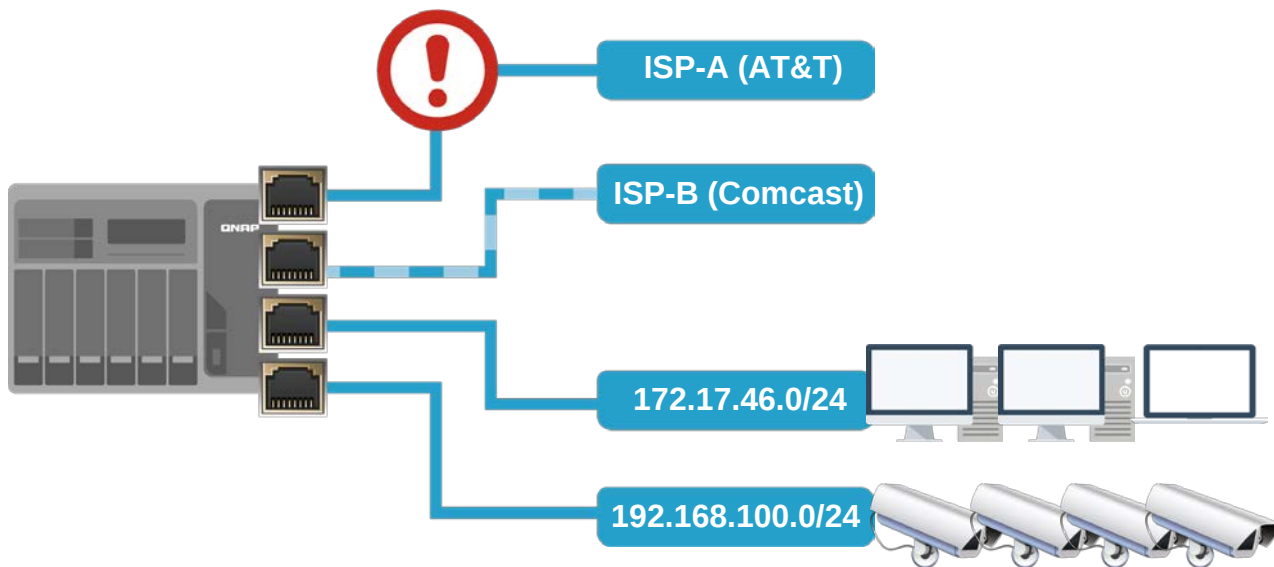
System Default Gateway

- ◆ Automatically detect adapters that can connect to the Internet (provides failover).



Auto failover when a connection is interrupted

- ◆ It checks the status of NAS network connections automatically (similar to Microsoft NCSI)
- ◆ Or, set the default gateway manually



Wi-Fi makes things easier...

...when physical wiring for your home is not feasible



New UI for setting up Wi-Fi

The screenshot displays the QNAP Network & Virtual Switch management interface. The left sidebar contains a navigation menu with the following items: Overview, Network (selected), Interfaces, Virtual Switch, DHCP Server, Route, Access Services, and DDNS. The main content area is titled 'Network & Virtual Switch' and has three tabs: Interfaces, USB QuickAccess, and USB Wi-Fi (active). Below the tabs, a subtitle reads 'Configure and manage USB Wi-Fi connections on this page.' The interface is divided into two main sections. The left section, titled 'Wi-Fi', contains three items: 'PCIe WiFi (5GHz)' with a toggle switch turned on, 'PCIe WiFi (2.4GHz)' with a toggle switch turned off and an 'Edit' button next to it, and 'USB WiFi' with a toggle switch turned off. The right section, titled 'Choose network', features a '+ Add Wi-Fi' button and a 'Scan' button. Below these buttons is a list of available networks: QNAP, PHI-5GHz, PM_internal_5G, Q13678 Wi-Fi Network, QIoT-LiveDemoRoom-5G, and QNAP-5G. The 'QIoT-LiveDemoRoom-5G' network is expanded, showing its 'Protocol' and 'Authentication' (WPA-PSK) details. It also includes checkboxes for 'Connect automatically' (checked) and 'Connect even if hidden' (unchecked). A 'Connect' button is located at the bottom right of this section. At the bottom of the interface, there are 'Basic' and 'Advanced' tabs, with 'Advanced' currently selected.

Network & Virtual Switch

Overview
Network
Interfaces
Virtual Switch
DHCP Server
Route
Access Services
DDNS

Interfaces USB QuickAccess **USB Wi-Fi**

Configure and manage USB Wi-Fi connections on this page.

Wi-Fi

PCIe WiFi (5GHz) ☒

PCIe WiFi (2.4GHz) ☐ Edit

USB WiFi ☐

Choose network

+ Add Wi-Fi Scan

QNAP Disconnect

PHI-5GHz

PM_internal_5G

Q13678 Wi-Fi Network

QIoT-LiveDemoRoom-5G

Protocol Authentication
WPA-PSK

☒ Connect automatically
☐ Connect even if hidden

Connect

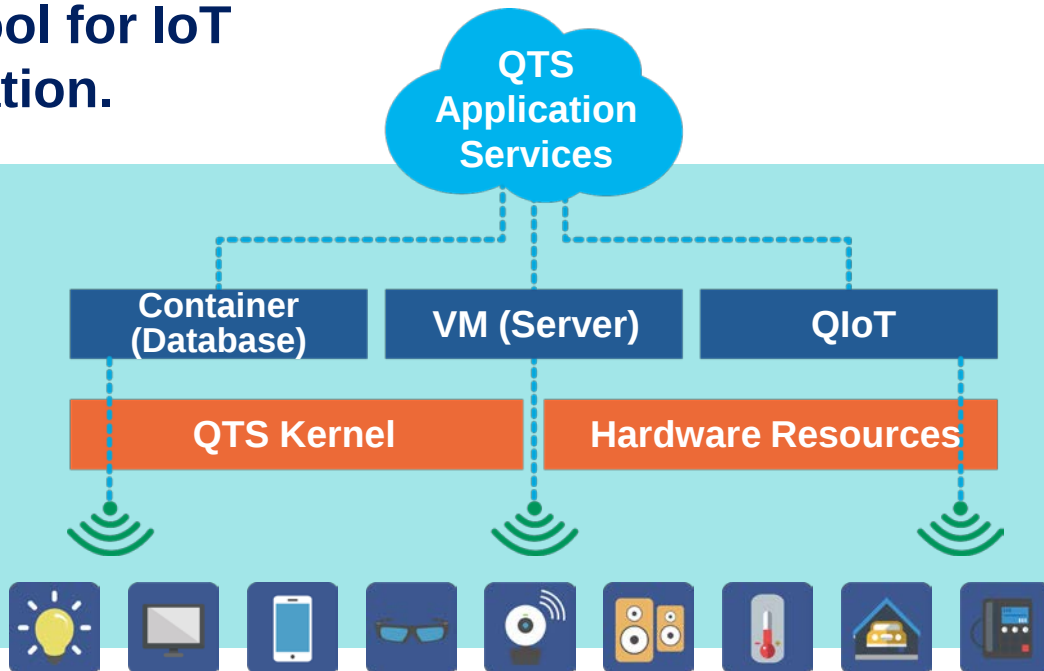
QNAP-5G

Basic Advanced

Your NAS is now a Wi-Fi AP

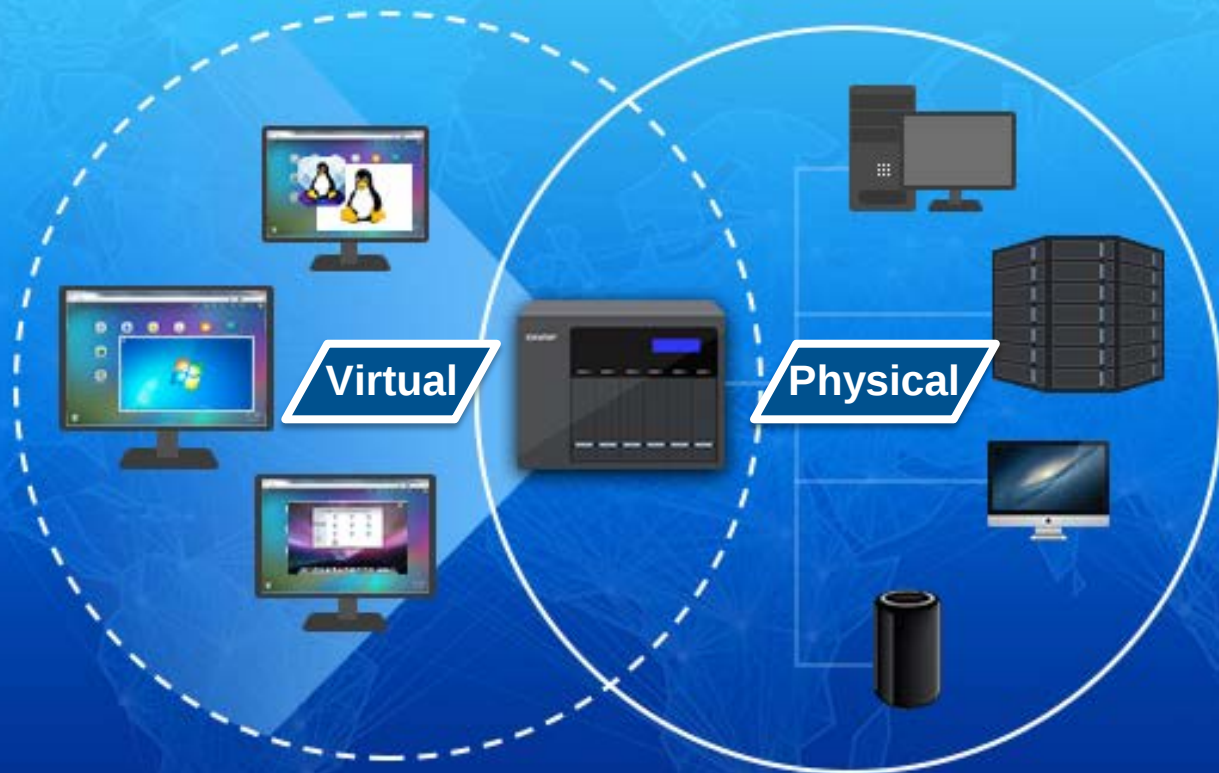
WirelessAP Station:

The best development tool for IoT or other wireless application.



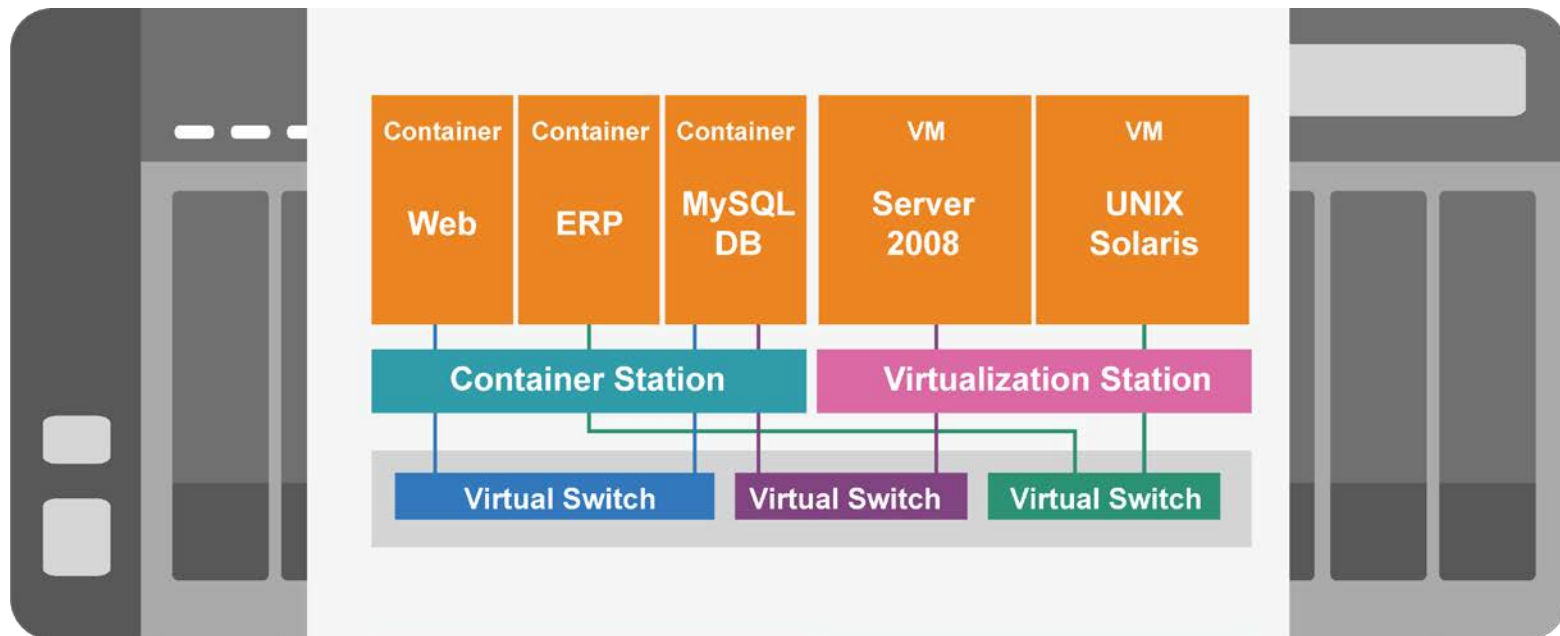
Introduction to Virtual Switch functionality

Connect between physical and virtual interfaces

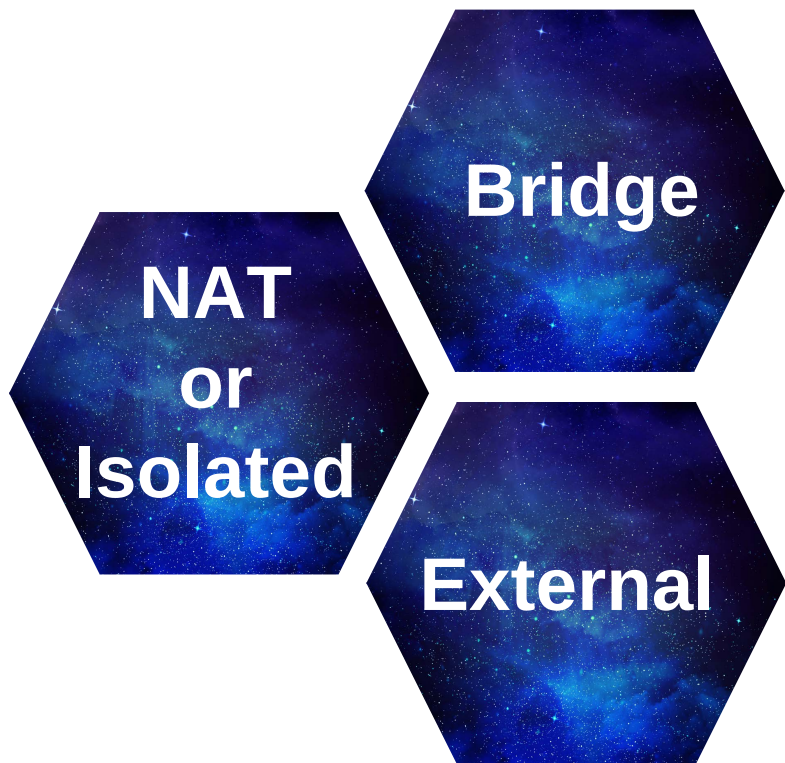


Application Defined Network Micro-Segmentation

- ◆ Define the network infrastructure your way via virtual switch



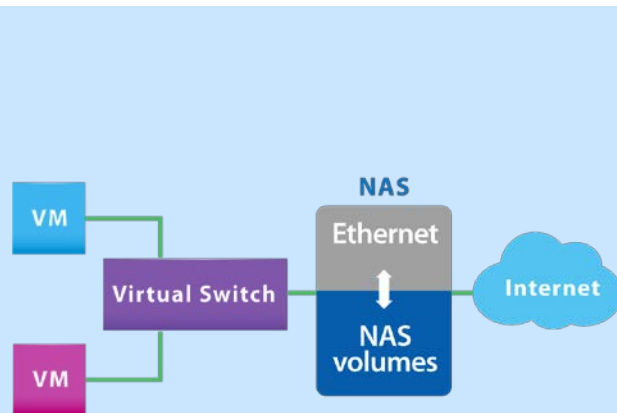
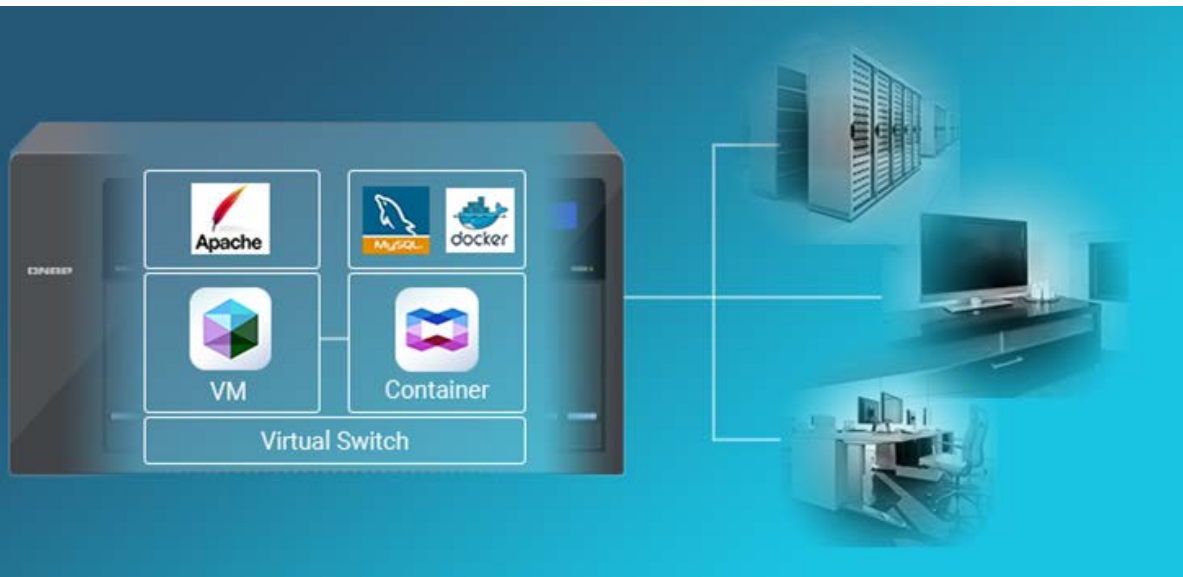
Flexibly define different network modes



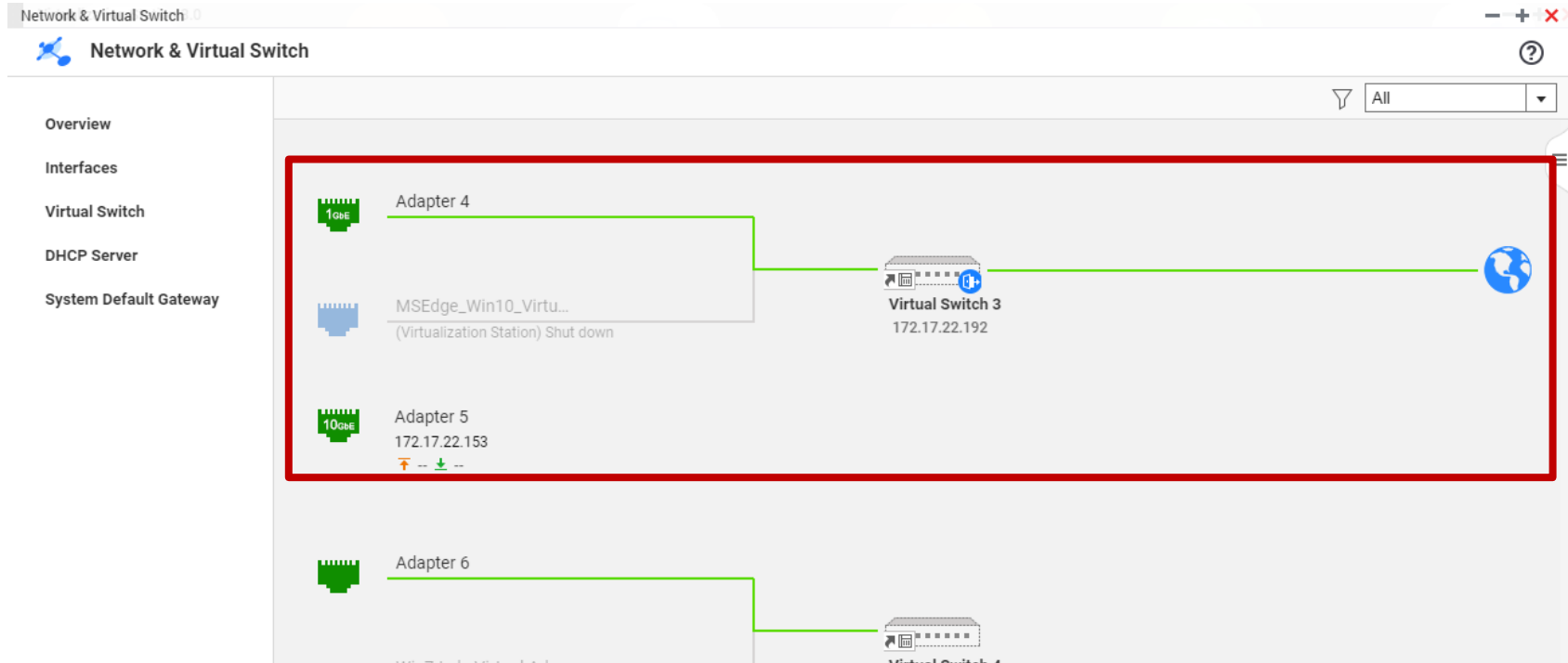
- ◆ **Bridge mode**
bridges different types or segments
- ◆ **NAT or Isolated**
Improves safety and security with network address translation (NAT) available
- ◆ **External**
Exclusive access to all available bandwidth.

Bridge Mode

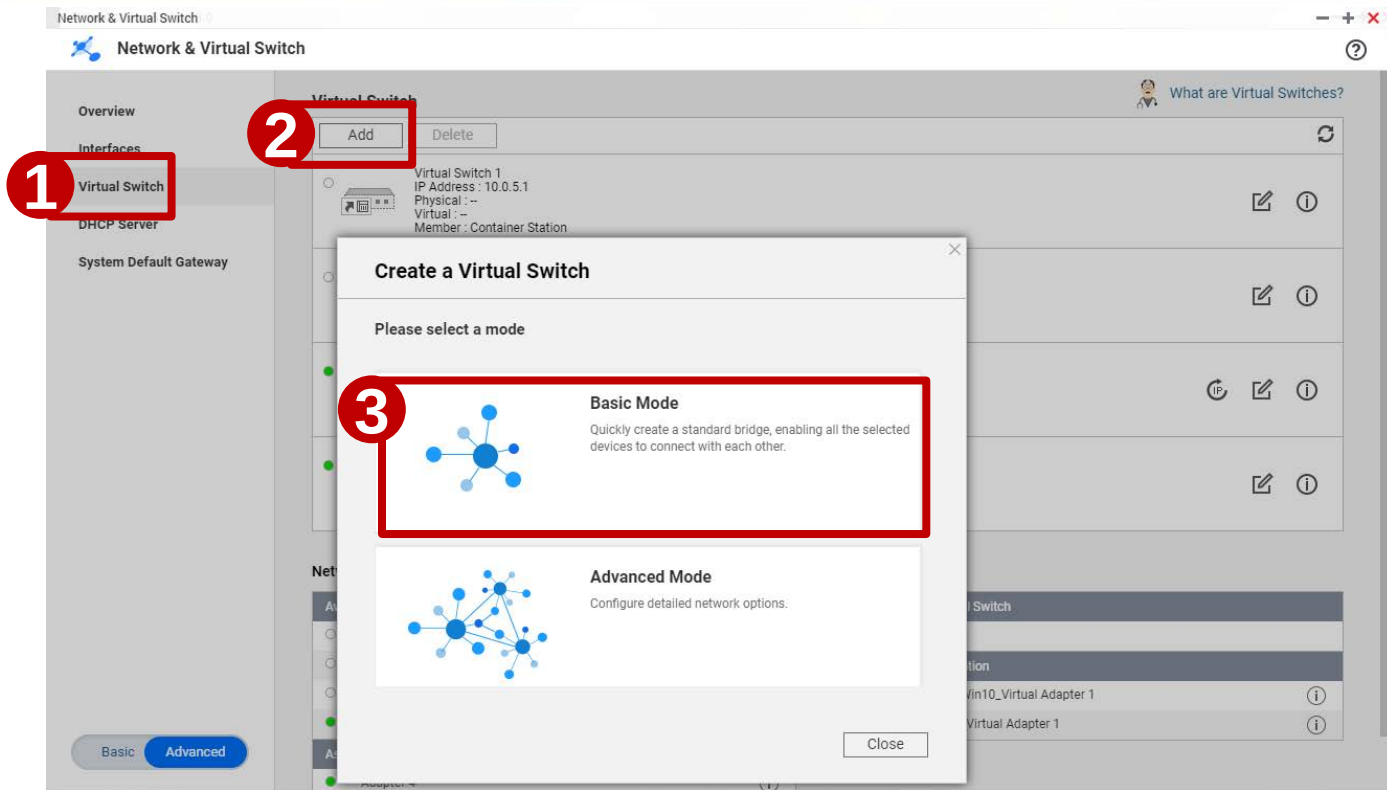
- ◆ Connect your virtualized network to external physical networks.
(Every virtual device is considered a real PC in the network)



Set up bridge mode virtual switch for your VM



Set up bridge mode virtual switch for your VM



Set up bridge mode virtual switch for your VM

Create a Virtual Switch

Physical Adapter

	Status	Adapter	IP Address
☐	☐	Adapter 1	--
☐	☐	Adapter 2	--
☐	☐	Adapter 3	--
☐	☒	Adapter 4	172.17.22.192 (V...
1 ☒	☒	Adapter 5	172.17.22.153
☐	☒	Adapter 6	0.0.0.0 (Virtual S...

Virtual Adapter (Cannot modify Container NIC or Linux internal NIC)

	Application	Adapter	Name
2 ☒	Virtualization ...	MSEdge_Win10_Virtual Adapter 1	MSEdge_Win10
☒	Virtualization ...	Win7-Lab_Virtual Adapter 1	Win7-Lab

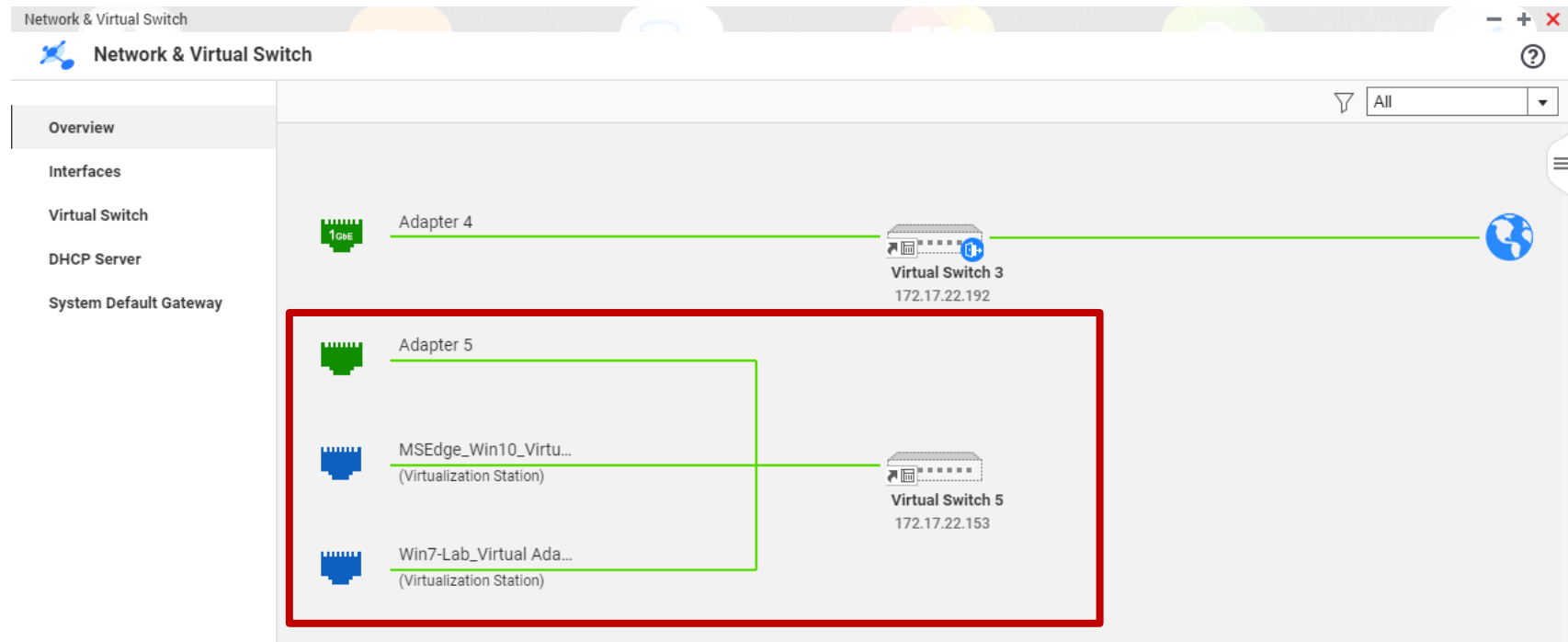
☒ Enable the Spanning Tree Protocol to prevent bridge loops.

Cancel

Previous

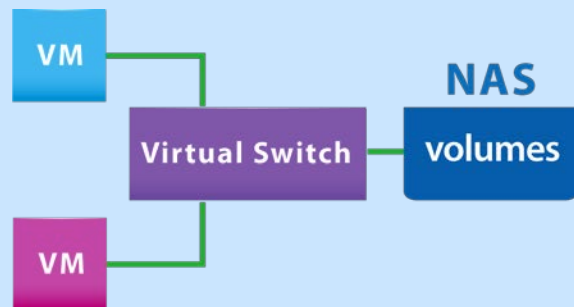
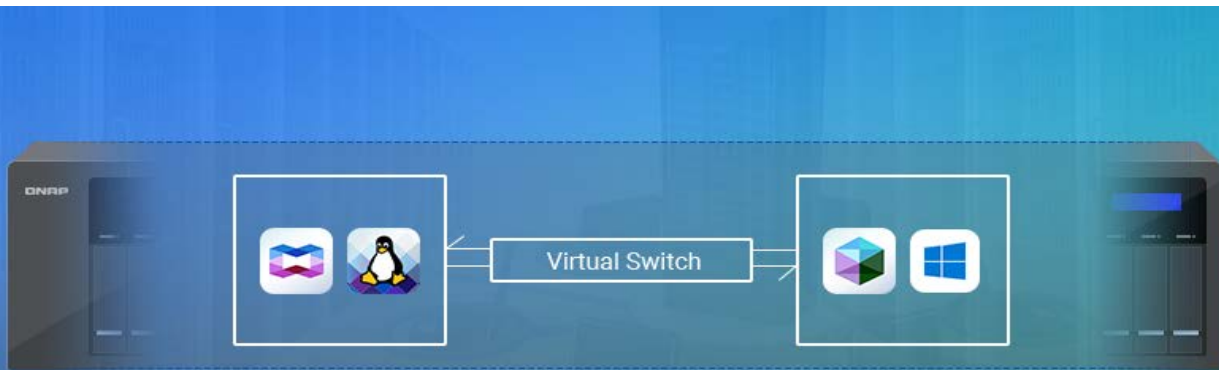
Apply

Set up bridge mode virtual switch for your VM



Isolated mode

- ◆ Absolutely closed and secure virtual network
 - Perform functional verification
 - Internal data computing
 - Sandbox testing
- ◆ Provides DHCP service and NAT (if Internet access is temporarily needed)



Set up isolated mode virtual switch for your VM

Virtualization Station 3.0

VirtualizationStation 3

Overview

Try a free Windows® VM Create VM Import VM

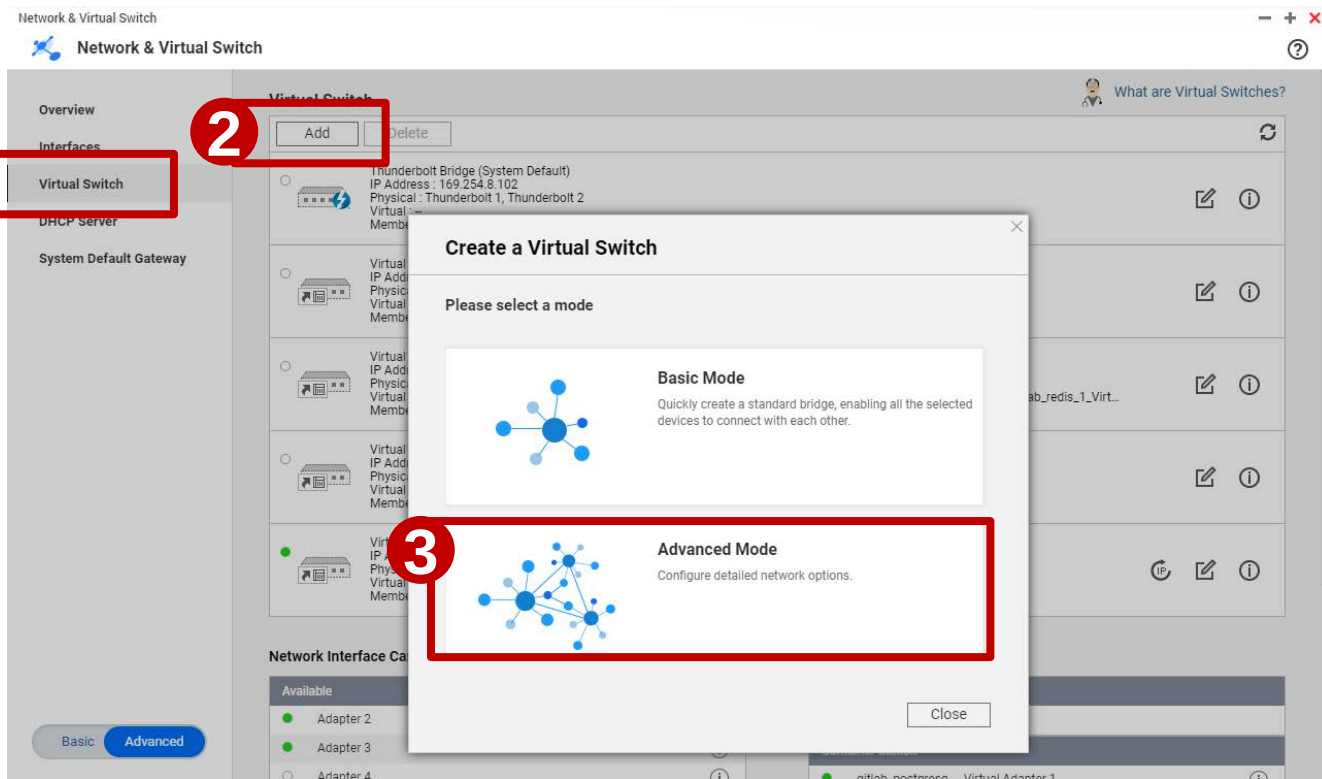
● Running ● Suspended ● Powered off 🖥 Assigned to QVM

Search

Name	CPU	Memory	HDD Image (size)	Volume (Used/ Capacity)	Network	USB Device
 MSEdge_Win10	0.2% 1 cores	26% 2 GB	/Download/MSEdge_Win10/MSEdge_Win10_00.img (21.4GB)	DataVol1 (63.7GB/ 396GB)	Virtual Switch 3	
 Win7-882S	2.2% 1 cores	13% 1.02 GB	/Download/Win7-882S/Win7-882S.img (8.87GB)	DataVol1 (63.7GB/ 396GB)	Virtual Switch 3	
 WinXP	2.7% 1 cores	13% 1.02 GB	/Download/WinXP/WinXPimg (3.22GB)	DataVol1 (63.7GB/ 396GB)	Virtual Switch 3	

Power On Pause Stop Restart Snapshot Share Delete Settings

Set up isolated mode virtual switch for your VM



Set up isolated mode virtual switch for your VM

×

Create a Virtual Switch

Select the devices for the Virtual Switch.

Physical Adapter

	Status	Adapter	IP Address
☐	●	Adapter 1	192.168.1.15 (Vi...
☐	●	Adapter 2	169.254.100.100
☐	●	Adapter 3	172.17.46.74
☐	○	Adapter 4	--

Virtual Adapter (Cannot modify Container NIC or Linux internal NIC)

	Application	Adapter	Name
☐	Container Sta...	gitlab_postgresq..._Virtual Adapter 1	gitlab_postgresq...
☐	Container Sta...	gitlab_redis_1_Virtual Adapter 1	gitlab_redis_1
☐	Container Sta...	gitlab_gitlab_1_Virtual Adapter 1	gitlab_gitlab_1

☒ Enable the Spanning Tree Protocol to prevent bridge loops.

Cancel

Step 1/4

Previous

Next

Set up isolated mode virtual switch for your VM

Create a Virtual Switch

☐	Container Sta...	gitlab_postgresq..._Virtual Adapter 1	gitlab_postgresq...
☐	Container Sta...	gitlab_redis_1_Virtual Adapter 1	gitlab_redis_1
☐	Container Sta...	gitlab_gitlab_1_Virtual Adapter 1	gitlab_gitlab_1
☐	Container Sta...	fedora-twentyfou..._Virtual Adapter 1	fedora-twentyfou...
☐	Container Sta...	mongo-1_Virtual Adapter 1	mongo-1
☒	Virtualization ...	WinXP_Virtual Adapter 1	WinXP
☒	Virtualization ...	MSEdge_Win10_Virtual Adapter 1	MSEdge_Win10
☒	Virtualization ...	Win7-882S_Virtual Adapter 1	Win7-882S

Thunderbolt

	Status	Adapter	IP Address
☐	○	Thunderbolt 1	169.254.8.102 (T...
☐	○	Thunderbolt 2	169.254.8.102 (T...

☒ Enable the Spanning Tree Protocol to prevent bridge loops.

Cancel

Step 1/4

Previous

Next

Set up isolated mode virtual switch for your VM

Create a Virtual Switch

Set up the Virtual Switch IP address

☐ DHCP client i

☒ Static IP

☐ Use the same settings as the selected adapter.

☒ Manually configure the IP address

Fixed IP Address

192

168

88

10

Subnet Mask

255

255

255

0

Default Gateway

☐ Do not assign IP addresses (for special purposes such as building an external network or isolated network)

Cancel

Step 2/4

Previous

Next

Set up isolated mode virtual switch for your VM

Create a Virtual Switch

Set up the Virtual Switch service

1 ☐ Enable NAT

☒ Enable DHCP Server

2 Start IP address 192 . 168 . 88 . 101

End IP address 192 . 168 . 88 . 120

Subnet Mask 255 . 255 . 255 . 0

Lease time 1 Day(s) 0 Hour(s)

Default Gateway 192 . 168 . 88 . 10

DNS Server 10 . 8 . 2 . 11

WINS Server . . .

DNS suffix

Cancel Step 3/4 Previous Next

Set up isolated mode virtual switch for your VM

Network & Virtual Switch

Network & Virtual Switch

Overview

Interfaces

Virtual Switch

DHCP Server

System Default Gateway

gitlab_redis_1_Virtual ...
(Container Station)

gitlab_gitlab_1_Virtual ...
(Container Station)

fedora-twentyfou..._Vi...
(Container Station)

mongo-1_Virtual Adap...
(Container Station)

WinXP_Virtual Adapte...
(Virtualization Station)

MSEdge_Win10_Virtu...
(Virtualization Station)

Win7-882S_Virtual Ad...
(Virtualization Station)

Virtual Switch 2
10.0.3.1

Virtual Switch 3
192.168.88.10

Basic Advanced

Set up isolated mode virtual switch for your VM

Network & Virtual Switch

Network & Virtual Switch

Overview

Interfaces

Virtual Switch

DHCP Server

System Default Gateway

gitlab_redis_1_Virtual ...
(Container Station)

gitlab_gitlab_1_Virtual ...
(Container Station)

fedora-twenty ...
(Container Station)

mongo-1_V ...
(Container Station)

WinXP_Virtu ...
(Virtualization Station)

MSEdge_Win10_Virtu ...
(Virtualization Station)

Win7-882S_Virtual Ad ...
(Virtualization Station)

Virtual Switch 2
192.168.88.1

Virtual Switch 3
192.168.88.10

Virtual Switch 3 List of distributed IP

IP Address	Device Name	MAC Address
192.168.88.102	samxp-5461769dc	52:54:00:64:b7:4c
192.168.88.103	MSEdgeWIN10	52:54:00:7d:c0:0c
192.168.88.104	Sam-Win7-882ST	52:54:00:66:12:2e

Search

Inspect Distributed IP list

Basic Advanced

Set up isolated mode virtual switch for your VM

Network & Virtual Switch

Network & Virtual Switch

Overview

Interfaces

Virtual Switch

DHCP Server

System Default Gateway

gitlab_redis_1_Virtual ...
(Container Station)

gitlab_gitlab_1_Virtual ...
(Container Station)

fedora-twentyfou..._Vi...
(Container Station)

mongo-1_Virtual Adap...
(Container Station)

WinXP_Virtual Adapte...
(Virtualization Station)

MSEdge_Win10_Virtu...
(Virtualization Station)

Win7-882S_Virtual Ad...
(Virtualization Station)

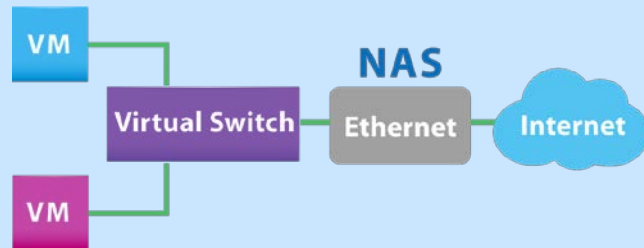
Virtual Switch 2
10.0.3.1

Virtual Switch 3
192.168.88.10

Basic Advanced

External mode

- ◆ Assign an Ethernet port dedicated to the virtual network; all packets are directed out to the network without going through the NAS, as this ensures that the bandwidth of the specific Ethernet port can be fully utilized by the virtual device.



Set up external mode virtual switch for your VM

Virtualization Station 3.0

VirtualizationStation 3

Overview

Try a free Windows® VM Create VM Import VM

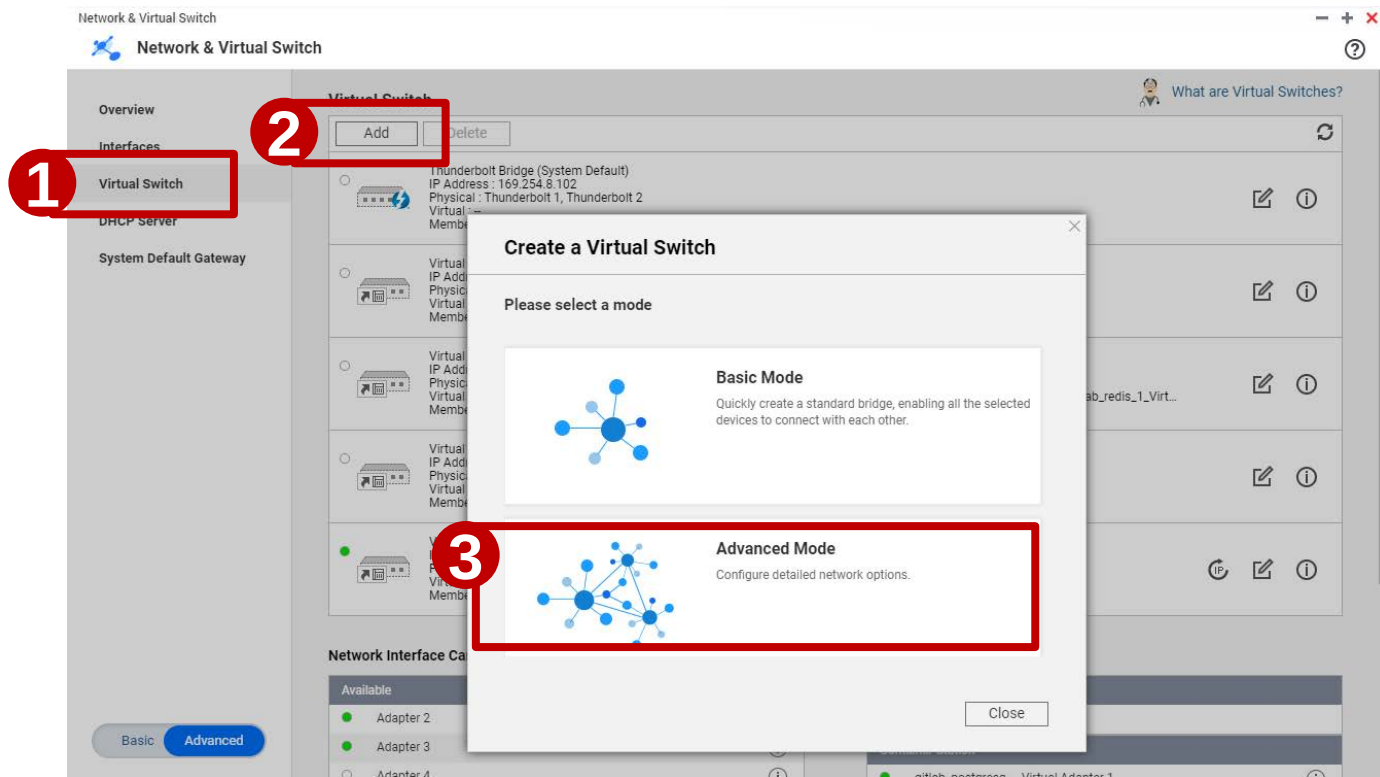
Running Suspended Powered off Assigned to QVM

Search

Name	CPU	Memory	HDD Image (size)	Volume (Used/ Capacity)	Network	USB Device
MSEdge_Win10	0.2% 1 cores	26% 2 GB	/Download/MSEdge_Win10/MSEdge_Win10_00.img (21.4GB)	DataVol1 (63.7GB/ 396GB)	Virtual Switch 3	
Win7-882S	2.2% 1 cores	13% 1.02 GB	/Download/Win7-882S/Win7-882S.img (8.87GB)	DataVol1 (63.7GB/ 396GB)	Virtual Switch 3	
WinXP	2.7% 1 cores	13% 1.02 GB	/Download/WinXP/WinXPimg (3.22GB)	DataVol1 (63.7GB/ 396GB)	Virtual Switch 3	

Power On Pause Stop Restart Snapshot Settings

Set up external mode virtual switch for your VM



Set up external mode virtual switch for your VM

Create a Virtual Switch

	Status	Adapter	IP Address
☐	☐	Adapter 1	--
☐	☐	Adapter 2	--
☐	☐	Adapter 3	--
☐	☒	Adapter 4	172.17.22.192 (V...
☐	☒	Adapter 5	172.17.22.153 (V...
1 ☒	☒	Adapter 6	0.0.0.0 (Virtual S...

Virtual Adapter (Cannot modify Container NIC or Linux internal NIC)

	Application	Adapter	Name
☐	Virtualization ...	MSEdge_Win10_Virtual Adapter 1	MSEdge_Win10
☐	Virtualization ...	Win7-Lab_Virtual Adapter 1	Win7-Lab
2 ☒	Virtualization ...	Win7-external_Virtual Adapter 1	Win7-external

☒ Enable the Spanning Tree Protocol to prevent bridge loops.

[Step 1/4](#)

Set up external mode virtual switch for your VM

Create a Virtual Switch

Set up the Virtual Switch IP address

☐ DHCP client i

☐ Static IP

☒ Use the same settings as the selected adapter.

☐ Manually configure the IP address

Fixed IP Address

Subnet Mask

255

255

255

0

Default Gateway

☒ Do not assign IP addresses (for special purposes such as building an external network or isolated network)

Cancel

Step 2/4

Previous

Next

Set up external mode virtual switch for your VM

Network & Virtual Switch

Network & Virtual Switch

Overview

Interfaces

Virtual Switch

DHCP Server

System Default Gateway

Adapter 4

Virtual Switch 3
172.17.22.192

Adapter 5

MSEdge_Win10_Virtu...
(Virtualization Station) Shut down

Win7-Lab_Virtual Ada...
(Virtualization Station)

Virtual Switch 5
172.17.22.153

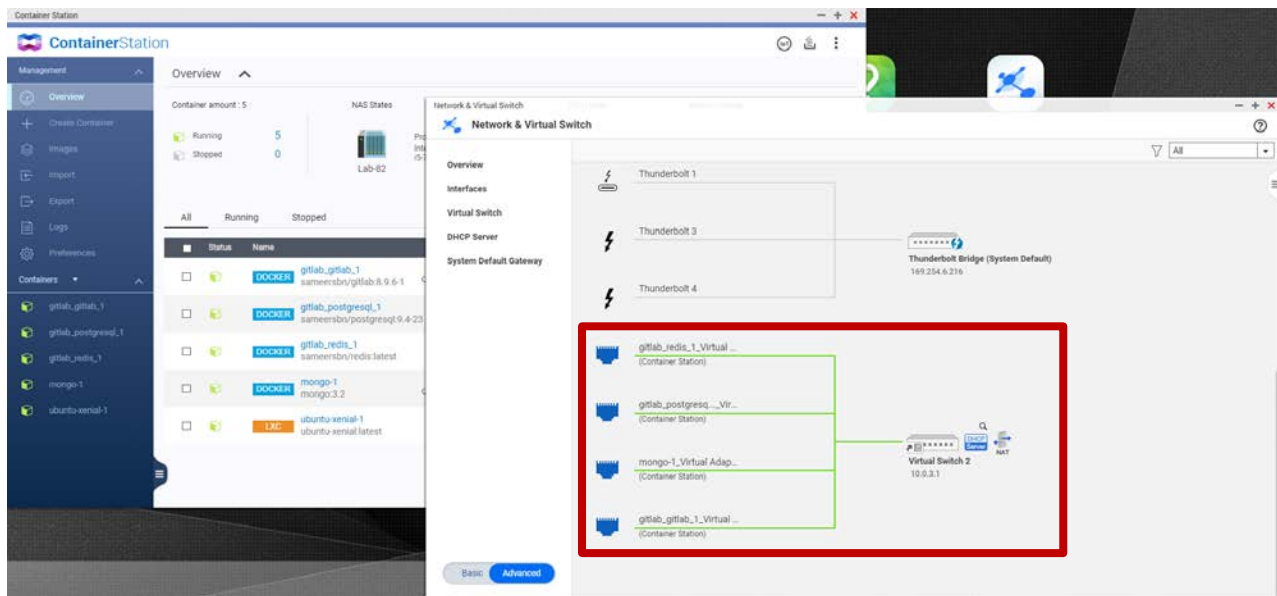
Adapter 6

Win7-external_Virtual ...
(Virtualization Station)

Virtual Switch 4
0.0.0.0

Basic Advanced

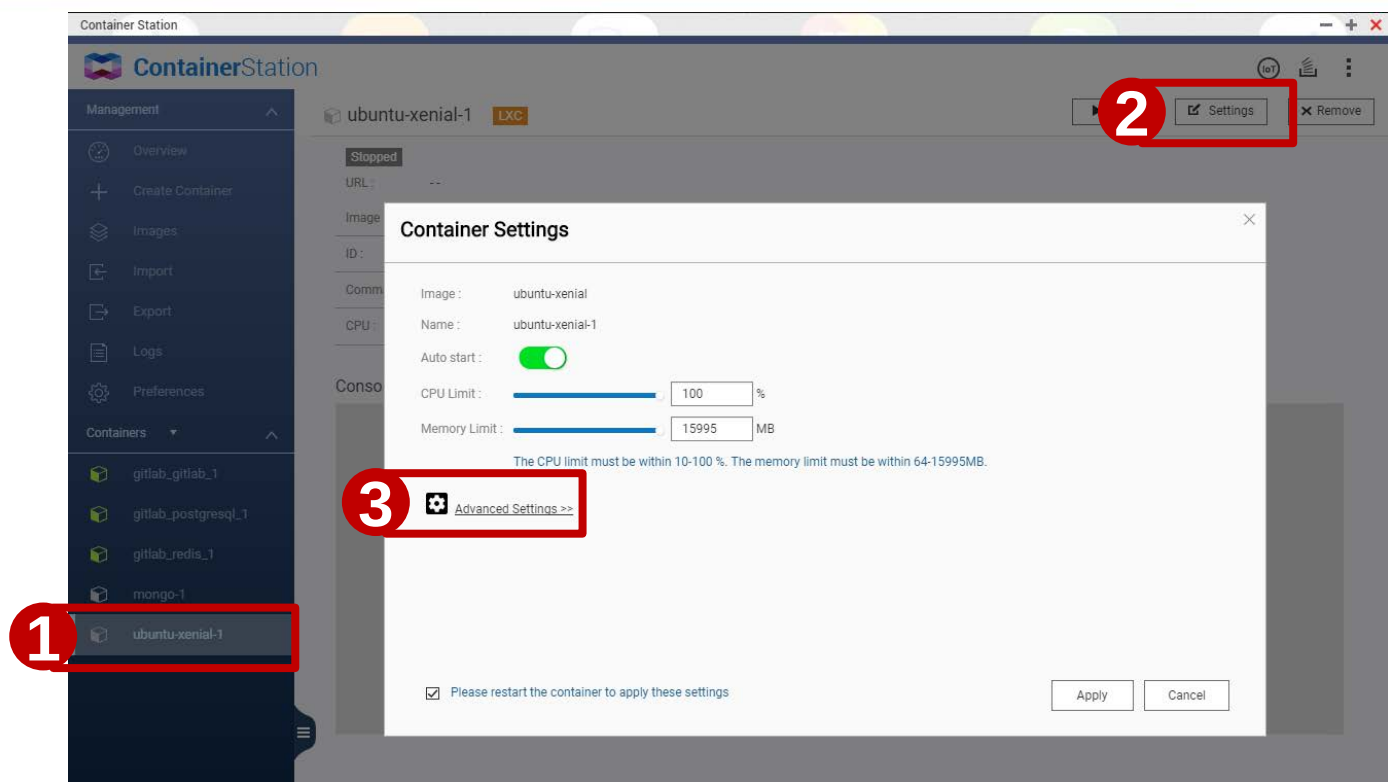
Two modes available for your containers



Network modes available for containers:

- ◆ NAT mode (default)
- ◆ Bridge mode

Set containers to connect in bridge mode



Set containers to connect in bridge mode

Container Settings

 [Advanced Settings >>](#)

1 | Network

Device

Shared F...

Container Hostname : ubuntu-xenial-1

Container MAC Address : --

2

Network Mode : Bridge

Use Interface : Adapter 6 (Virtual Switch 3)

☒ Use DHCP ☐ Use static IP

Use virtual switch for each container to have an individual IP

☒ Please restart the container to apply these settings

Apply

Cancel

Set containers to connect in bridge mode

The screenshot displays the QNAP Container Station interface. On the left, the 'Management' sidebar includes options like Overview, Create Container, Images, Import, Export, Logs, and Preferences. The 'Containers' section lists several containers: gitlab_gitlab_1, gitlab_postgresql_1, gitlab_redis_1, mongo-1, and ubuntu-xenial-1.

The main 'Overview' panel shows a list of containers with their status (Running or Stopped) and names. A table lists the following containers:

Status	Name
Running	gitlab_gitlab_1 (sameersbn/gitlab:8.9.6-1)
Running	gitlab_postgresql_1 (sameersbn/postgresql:9.4-2)
Running	gitlab_redis_1 (sameersbn/redis:latest)
Running	mongo-1 (mongo:3.2)
Running	ubuntu-xenial-1 (ubuntu-xenial:latest)

The 'Network & Virtual Switch' window is open, showing the 'Overview' tab. It displays a network diagram with various interfaces and a virtual switch. A red box highlights the 'ubuntu-xenial-1_Virtua...' interface, which is connected to 'Virtual Switch 3' (172.17.22.179). Other interfaces shown include Adapter 4, Adapter 6, Thunderbolt 2, Server2008_Virtual Ad..., MSEdge_Win10_Virtu..., and Thunderbolt 1.

Demo

Network functionality for virtual machines

Thank you