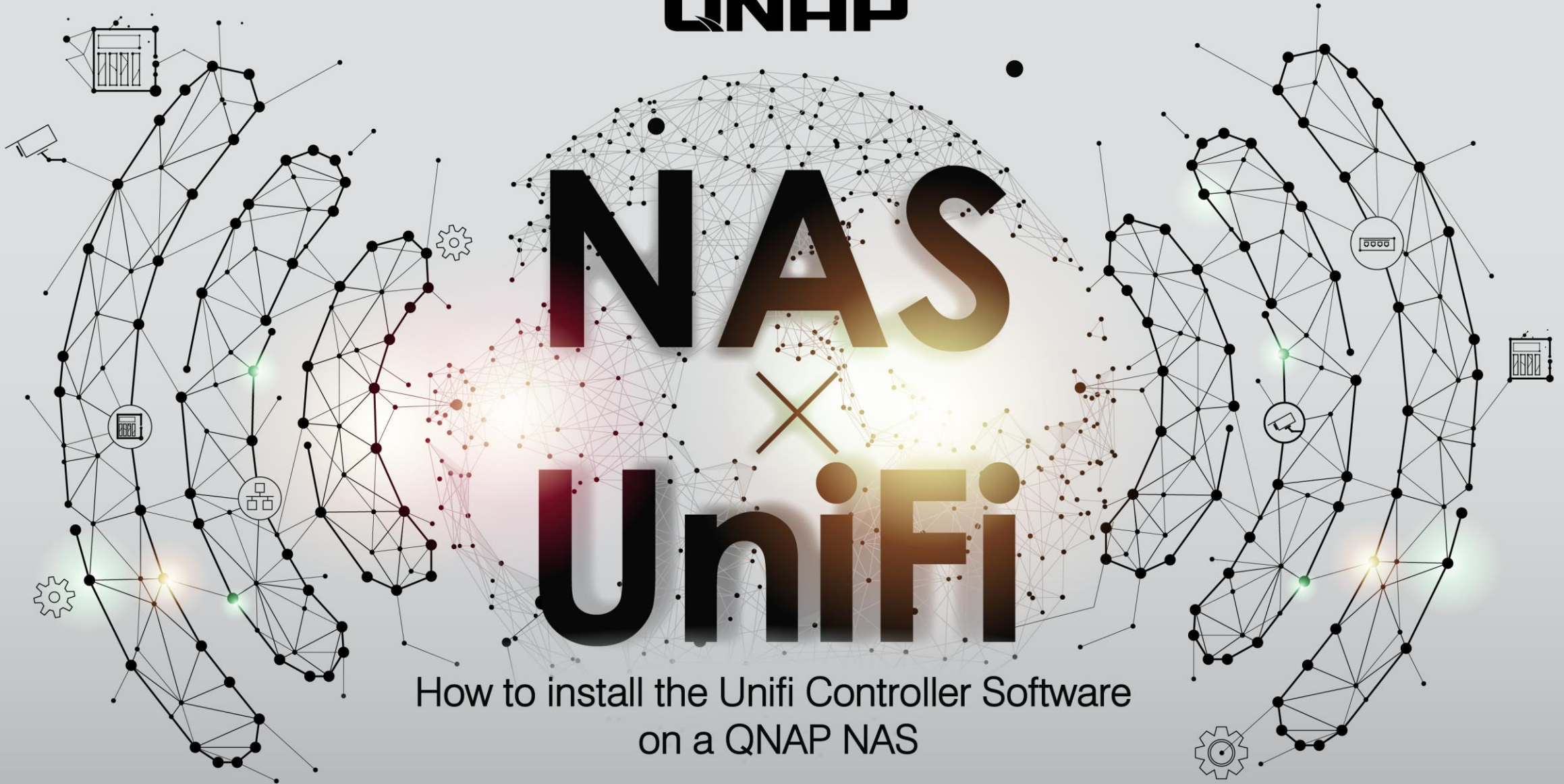


QNAP

NAS

UniFi

How to install the UniFi Controller Software
on a QNAP NAS



How to Conveniently Configure the Network with QNAP NAS

01 Ubiquiti Networks Introduction

02 Features of UniFi Controller on QNAP NAS

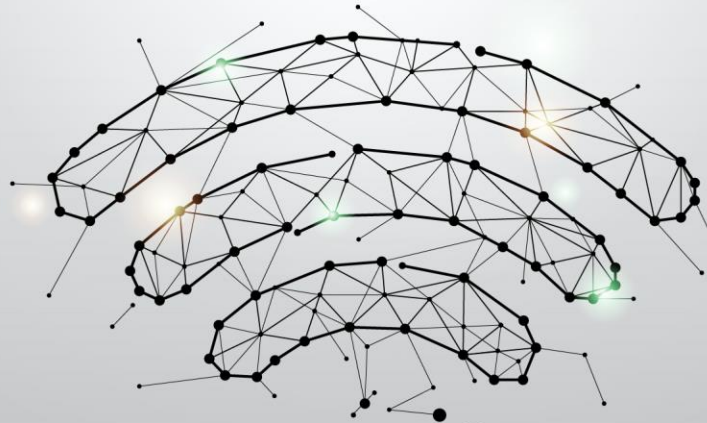
03 How to Build UniFi Controller on QNAP NAS

04 Demo



QNAP

Ubiquiti Networks Introduction



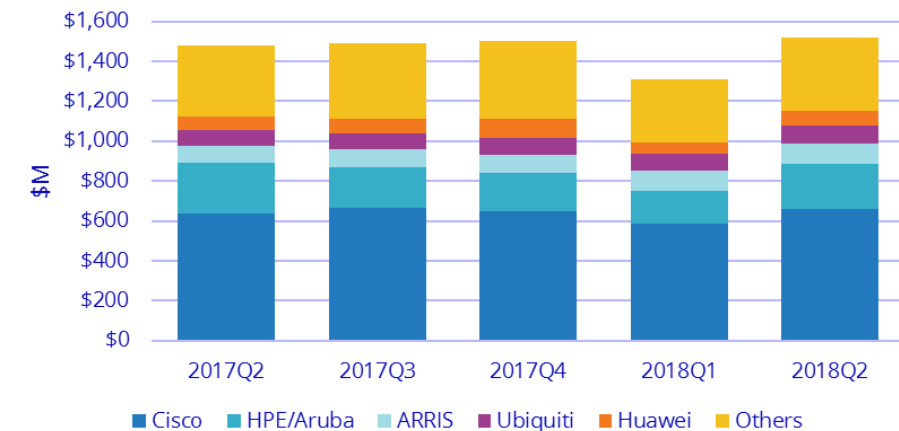
NAS
×
UniFi

Ubiquiti Networks

- Ubiquiti Networks, Inc. founded in 2003
- Headquarters in New York
- Provide network products and solution, including AirMax System, Wireless AP, etc.



Worldwide Top 5 Enterprise WLAN Companies,
2017Q2 - 2018Q2 Revenue (\$M)



Source: IDC 2018

Ubiquiti Emerge

- Unique and innovative "Fast Roam" technology
- Central Management covering versatile UniFi products
- Free Software - UniFi Controller
- Competitive price of project construction



High Applicability Control Center UniFi Controller

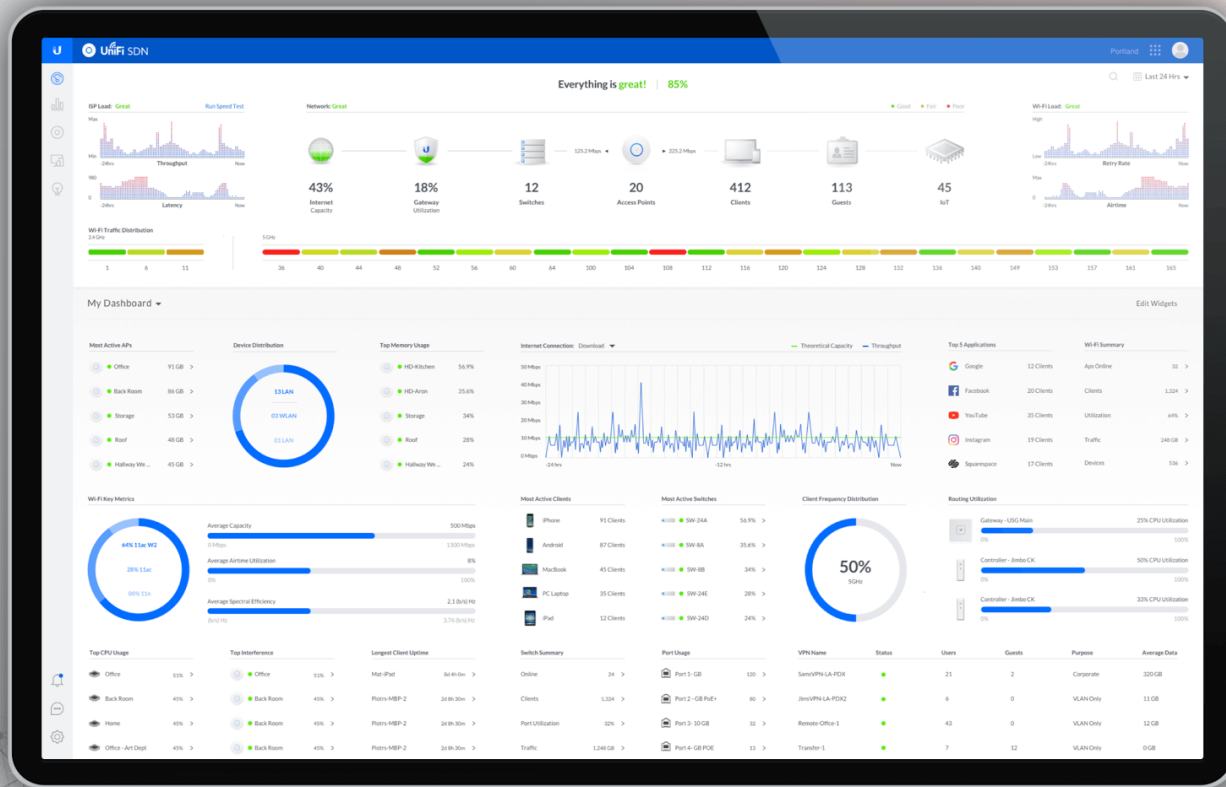


Network Management

- Intuitive and strong UI
- Allow you to configure and monitor network simultaneously



Strong Features with Multiple Settings



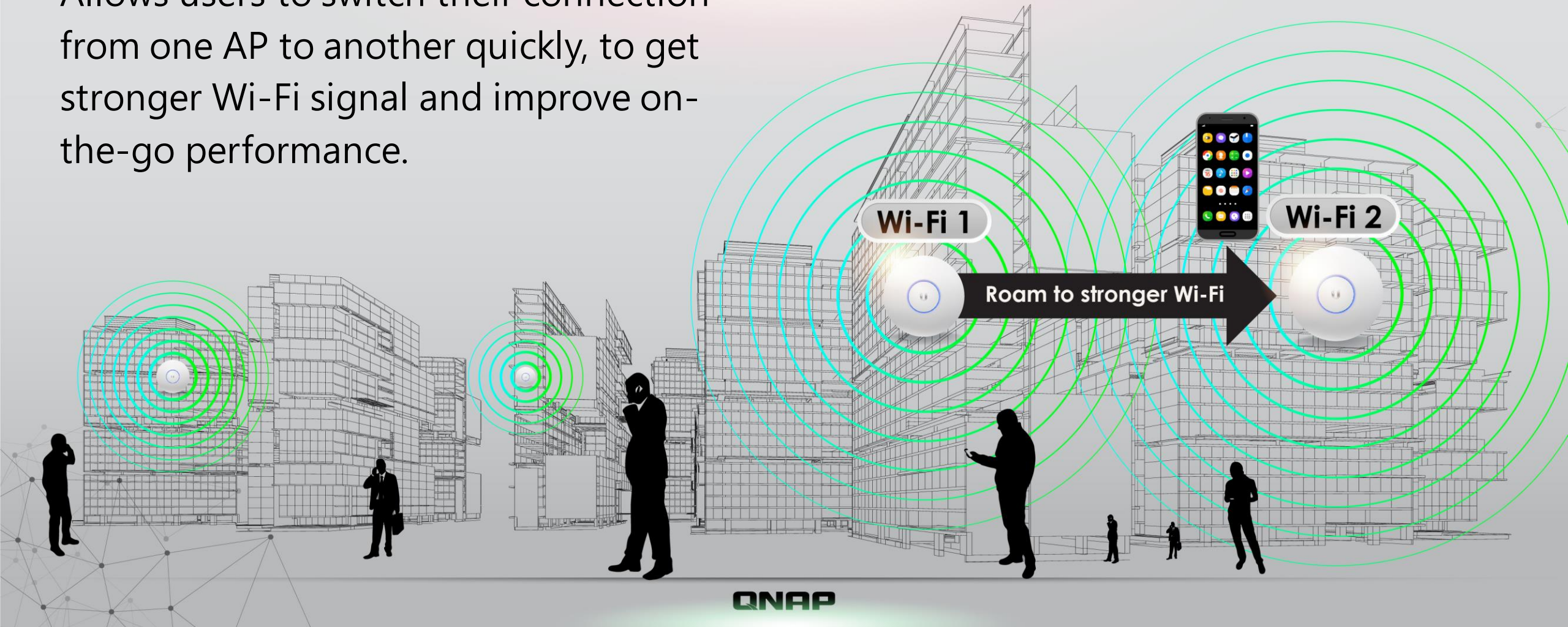
A single manager platform
Concentrating all cross-district
UniFi products

Supports:

- UniFi fast roaming
- Guest network with customized portal.
- Scheduled access policy for each SSID

UniFi Supports Fast Roaming

Allows users to switch their connection from one AP to another quickly, to get stronger Wi-Fi signal and improve on-the-go performance.



QNAP

Features of UniFi Controller on QNAP NAS



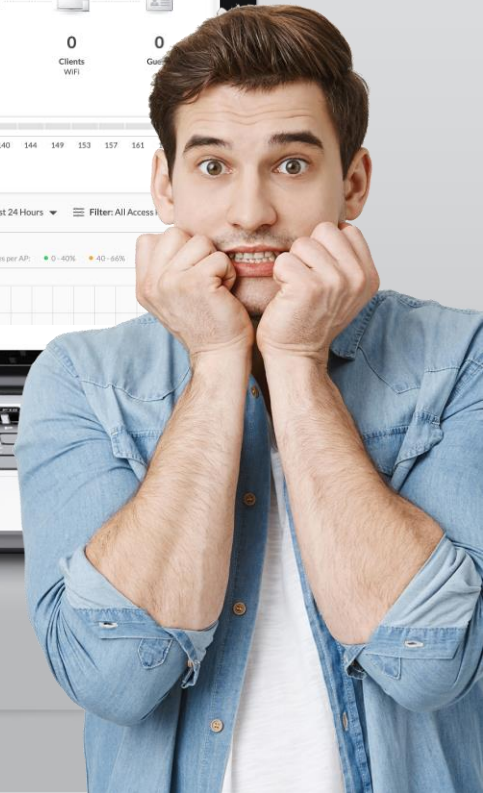
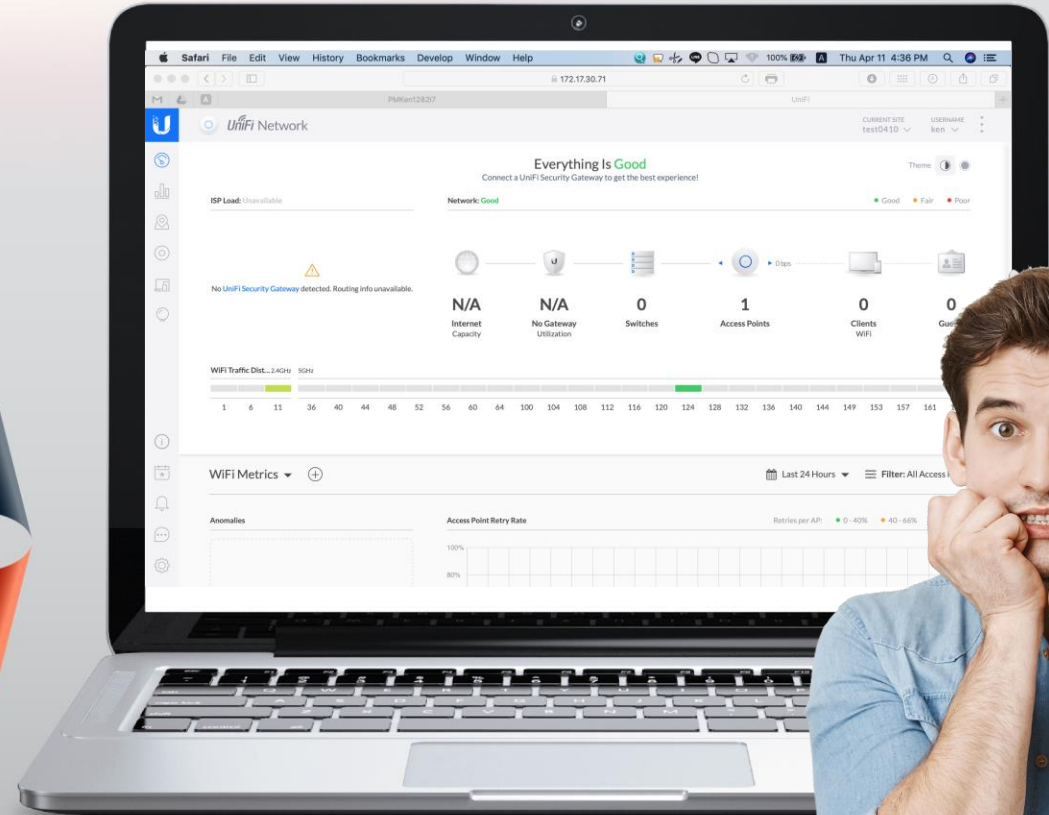
NAS
×
UniFi

Why NOT to install UniFi Controller in PC ?

Not always online

Less flexible on the numbers of devices used

Cannot give permissions to other users



Advantages of building UniFi Controllers on QNAP NAS

Multiple Hardware specifications

Versatile Building Approach

A

B

4 Advantages

C

D

Supports Remote Connection

Online Stability 24/7

Multiple Hardware specifications



Built with 1 to 30 bays, tower to rackmount form factors, and intended for businesses to workgroups to home users; QNAP have a comprehensive selection of NAS solutions to meet a wide range of user requirements

Online Stability 24/7

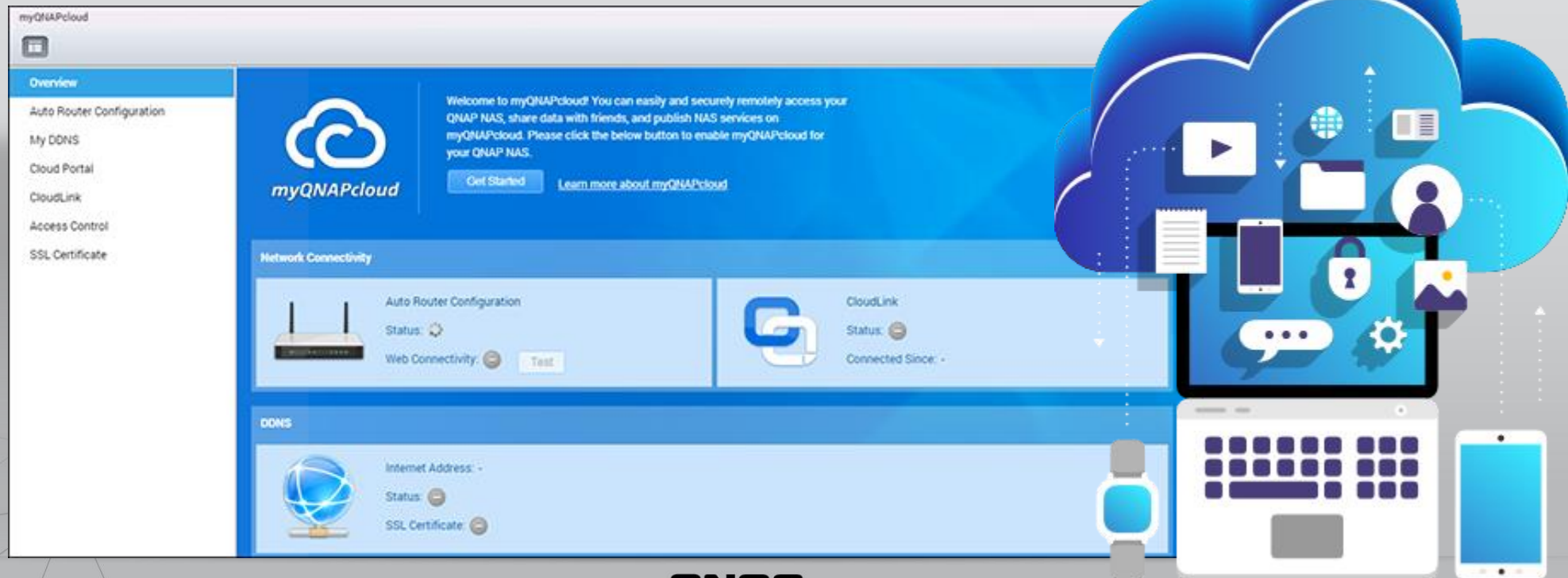
QTS, the platform for UniFi Controller, is a stable OS and rare offline server. You can connect from anywhere and anytime.

QTS 4.3



Free Cloud Services

QNAP NAS supports myQNAPcloud to remotely connect , you don't need to purchase additional Ubiquiti cloud service.



QNAP

How to Build UniFi Controller on QNAP NAS



NAS
×
UniFi

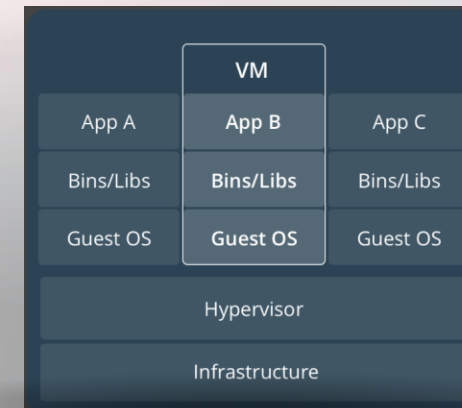
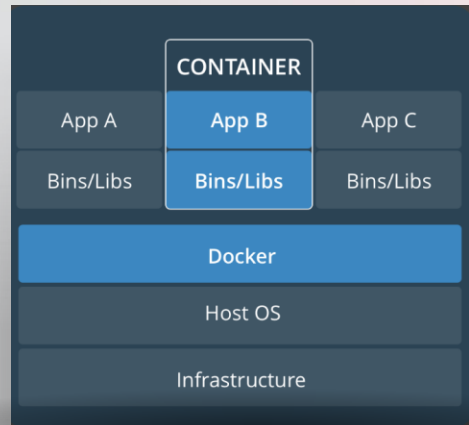
Versatile Approach to Build UniFi Controller on QNAP NAS

01 Through QNAP Container Station

02 Through QNAP Virtualization Station

03 Download 3rd party QPKG on Club

Container vs. Virtual Machine



Container

No additional Guest OS

Smaller image (hundreds of MB)

Strong Transferability

Initialization for seconds

Virtual Machine

Need Guest OS, consuming more resource

Larger image (GBs to dozens of GB)

Weak Transferability

Initialization for minutes

QNAP

Building on QNAP Container Station

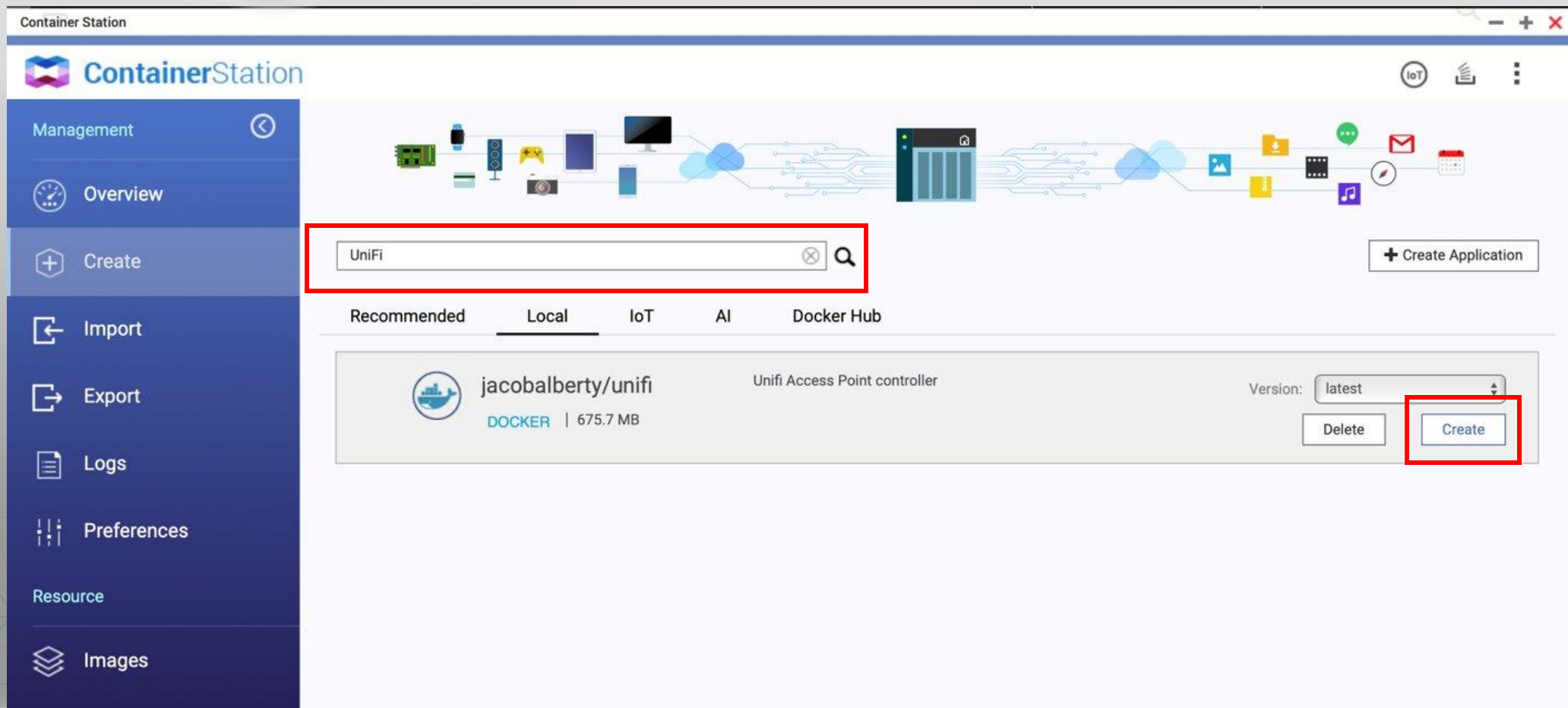


NAS
×
UniFi

Building on QNAP Container Station

STEP
01

Open Container Station and search
"UniFi" to create a container



Building on QNAP Container Station

STEP
02

Set network to "Bridge" mode

Container Station

Management

- Overview
- Create
- Import
- Export
- Logs
- Preferences
- Resource
 - Images
 - Volume

Create Container

Image : jacobalberty/unifi

Name : unifi-3

Command : unifi

Entrypoint : /usr/local/bin/docker-entrypoint.sh

Auto start : ☒

CPU Limit : %

Memory Limit : MB

The CPU limit must be within 10-100 %. The memory limit must be within 64-3840MB.

 [Advanced Settings >>](#)

Create Cancel

Create Container

 [Advanced Settings >>](#)

Link

Container Hostname :

Container MAC Address :

Network Mode :

NAT

Host

☒ Bridge

Use Interface : Adapter 1 (Virtual Switch 3)

☒ Use DHCP ☐ Use static IP

Use virtual switch for each container to have an individual IP. This setting may change NAS IP.

Create Cancel

Building on QNAP Container Station

STEP
03

UniFi Controller container has been established

The screenshot displays the QNAP ContainerStation web interface. On the left is a dark blue sidebar with navigation options: Management (Overview, Create, Import, Export, Logs, Preferences), Resource (Images, Volume, Containers), and a top bar with the ContainerStation logo. The main area is titled 'Overview' and shows system statistics: Container amount (1 Running, 0 Stopped), NAS States (Processor: Intel(R) Core(TM) i7-6700 CPU @ 3.40GHz, PMKen1282i7), CPU Usage (7%), and Memory Usage. Below these are tabs for 'All', 'Running', and 'Stopped' containers. A search bar and 'Start/Stop' buttons are present. A table lists the containers:

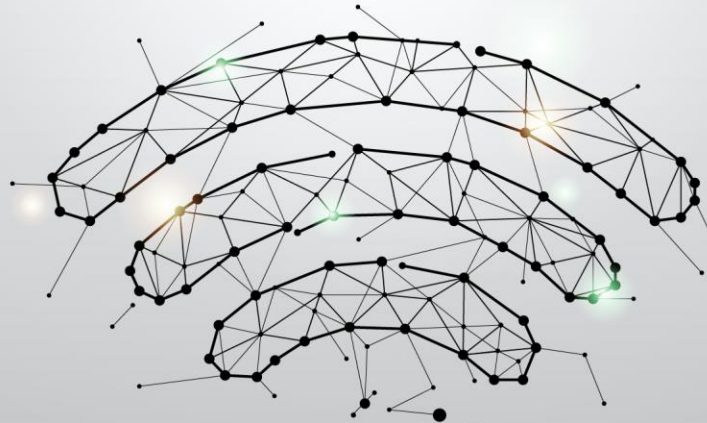
Status	Name	CPU	RAM	Upload	Download
Running	unifi-1 jacobalberty/unifi:latest	0 %	2 %	0 B /s	56.3 KB /s

The 'unifi-1' container is highlighted with a red box, and a link icon is visible next to its name.

The screenshot shows the UniFi login page with a dark blue background. At the top is the UniFi logo and version '5.10.19'. Below are input fields for 'Username' and 'Password'. A 'Remember me' checkbox is located below the password field. A blue 'SIGN IN' button is at the bottom, with a 'FORGOT PASSWORD?' link underneath it.

QNAP

Building on QNAP Virtualization Station

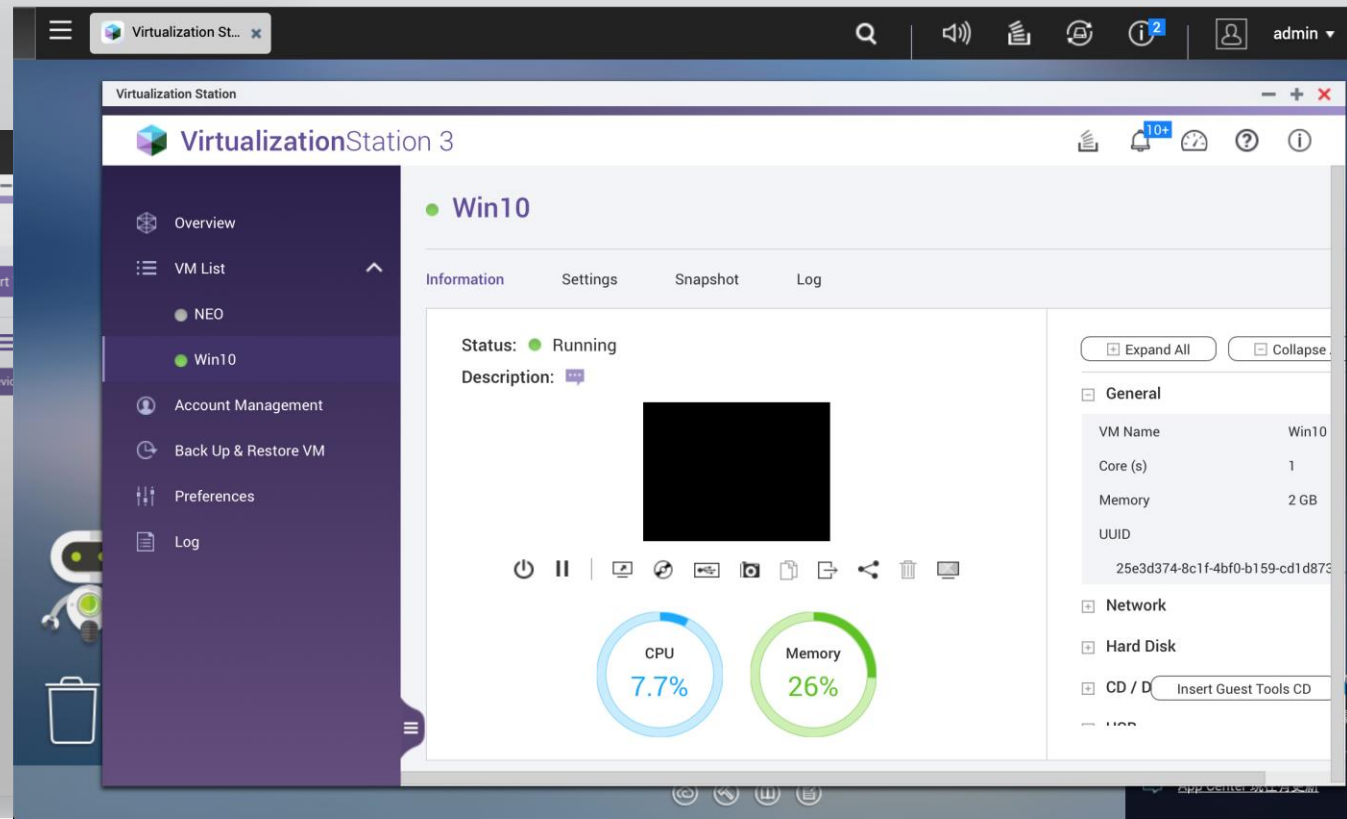
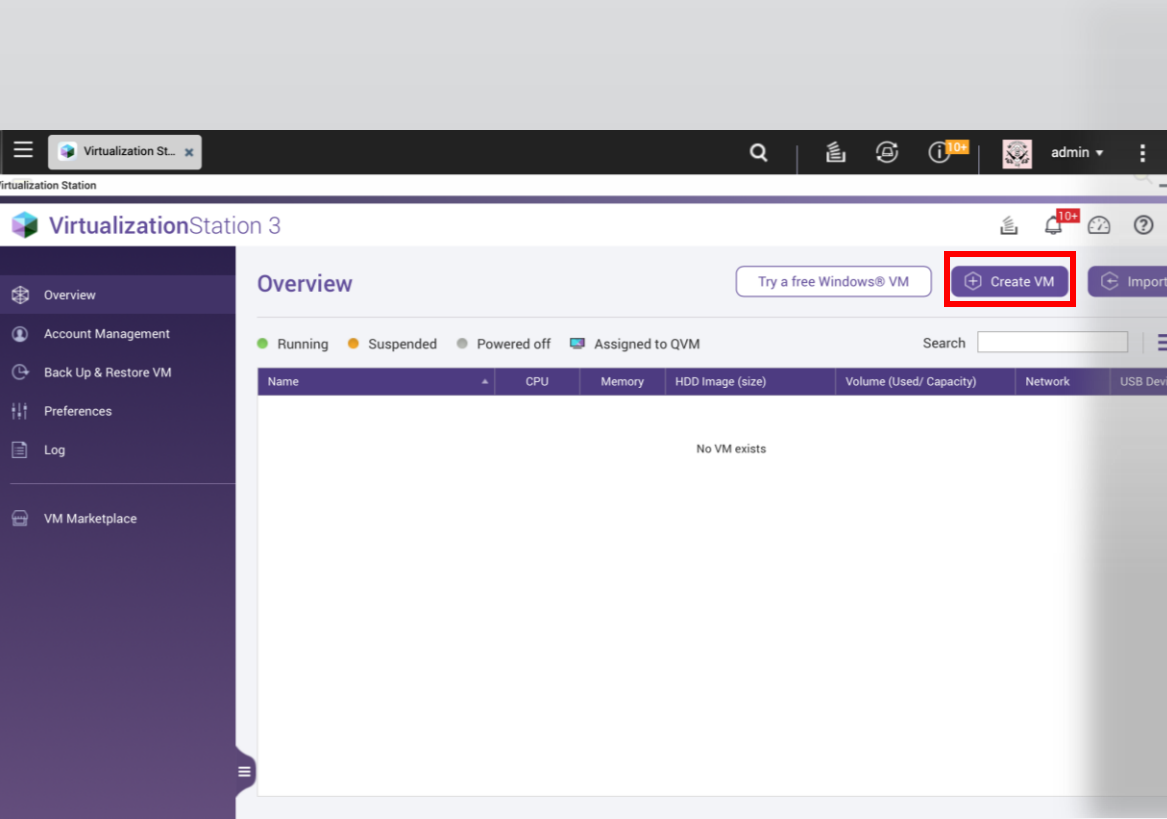


NAS
×
UniFi

Refer to Virtualization Station Tutorial to build VM

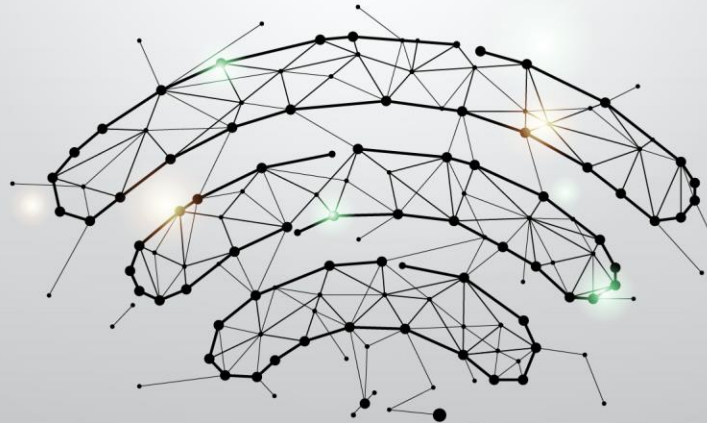
QNAP Virtualization Station

<https://www.qnap.com/go/solution/virtualization-station/>



QNAP

Download 3rd party QPKG from QNAP Club



NAS
×
UniFi

Download 3rd party Application form QNAP Club

QNAP CLUB

Home Categories Search

Unifi
Home > Unifi

70203 Installation(s)

Qoolbox

Donate

Forum Topic

Tutorial

Release Notes

SHARE

Twitter Facebook Google+ LinkedIn

Details
Last release: 5.10.20.0 · 2 weeks ago

Overview Old versions

Ubiquiti Unified WiFi Management Scaled to Thousands

The UniFi Controller software is a powerful, enterprise wireless software engine ideal for high-density client deployments requiring low and high uptime performance. A single UniFi Controller running in the cloud can manage multiple sites: multiple, distributed deployment multi-tenancy for managed service providers.

Dependencies

QJDK8

QTS
Requires QTS 4.3.0 or later

Models
TS-NASX86 TS-X28A TS-NASX86 64BITS

Make a Donation

STEP
01

Install dependent app in advance : QJDK8

TS-NASX86
TS-X28A
TS-NASX86_64

Download

QJDK8
Home > QJDK8

77925 Installation(s)

Qoolbox

Donate

Forum Topic

Tutorial

Release Notes

Details
Last release: 1.8.201 · 3 weeks ago

Overview Old versions

Java Development Kit 8

QTS
Requires QTS 4.2.1 or later

Models
TS-X31 TS-NASX86 64BITS TS-X28A TS-NASX86 TS-X41

Make a Donation

Download

STEP
02

Download compatible version to NAS

Manual Installation through AppCenter

The screenshot displays the QNAP App Center application window. The interface includes a sidebar with navigation options like 'My Apps', 'All Apps', 'QTS Essentials', 'Recommended', 'Beta Lab', and 'Partners'. The main area shows a grid of installed and available applications, each with an icon, name, version, category, and an 'Update' button. A red box highlights the 'Install Manually' icon in the top right corner of the App Center window. A dialog box titled 'Install Manually' is open in the foreground, providing instructions on how to manually install a package. The dialog box contains the following text:

Install Manually

To install a package, please follow the steps below:

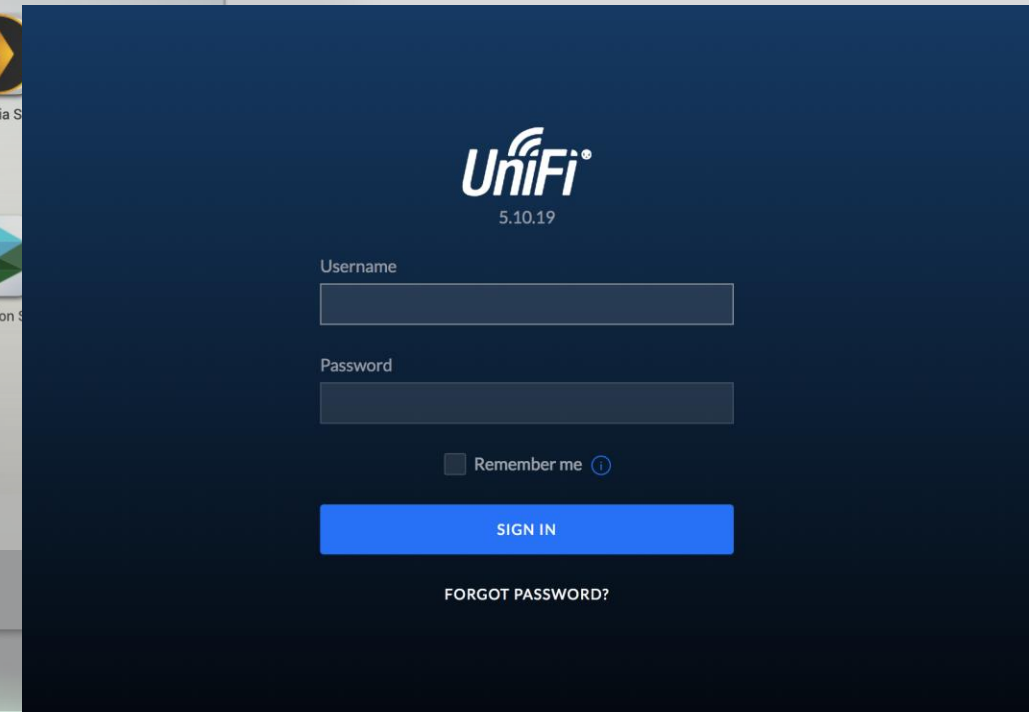
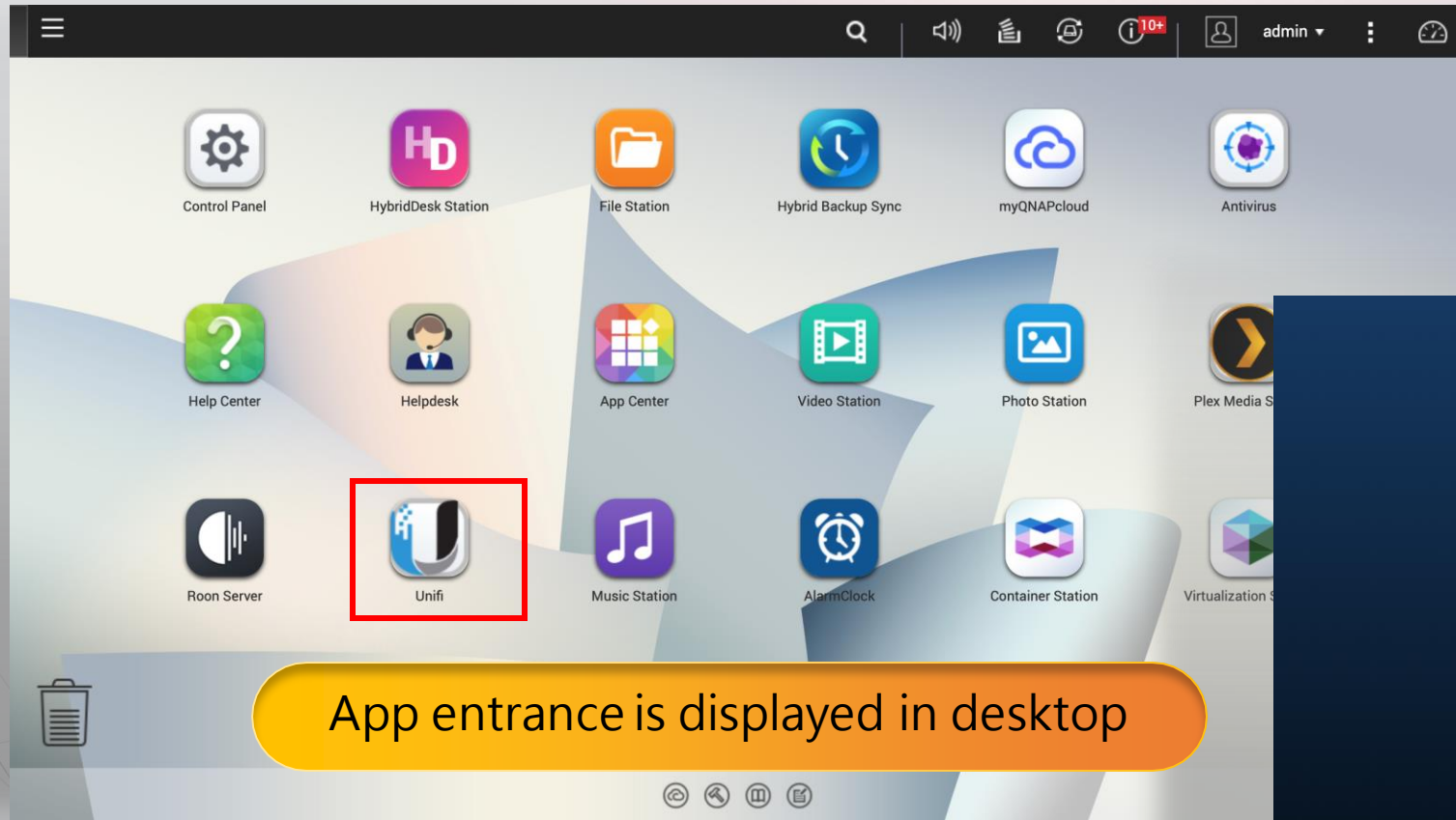
1. Click [here](#) to browse more App add-ons including those newly developed ones from the Beta lab. You can download and unzip the add-ons to your computer.
App Development: If you would like to develop App add-ons, the [QDK](#) has the tools, documentation, and sample codes you need to create great applications.
2. Browse to the location where the unzipped file is, and then click [Install].

Note: QNAP recommends that you only install applications from the QTS App Center or the QNAP website. Applications downloaded from other sources are NOT authorized by QNAP and may harm your system, cause data loss, or leave your Turbo NAS open to attack. QNAP will not be held responsible for damage, loss or harm caused by unauthorized apps.

The dialog box features a text input field, 'Browse...' and 'Install' buttons, and a 'Close' button at the bottom right.

STEP 03 Upload qpkg in App Center and install

UniFi Controller has been Installed





DEMO

QNAP



Copyright© 2019 QNAP Systems, Inc. All rights reserved. QNAP® and other names of QNAP Products are proprietary marks or registered trademarks of QNAP Systems, Inc. Other products and company names mentioned herein are trademarks of their respective holders.