



# **Consultant Scanner Personal Edition**

User Guide

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## About this guide

Welcome to Qualys Consultant Scanner - Personal Edition! This lightweight and easy to install Scanner helps you scan your internal networks for security issues using the Qualys Cloud Platform.

## About Qualys

Qualys, Inc. (NASDAQ: QLYS) is a pioneer and leading provider of cloud-based security and compliance solutions. The Qualys Cloud Platform and its integrated apps help businesses simplify security operations and lower the cost of compliance by delivering critical security intelligence on demand and automating the full spectrum of auditing, compliance and protection for IT systems and web applications.

Founded in 1999, Qualys has established strategic partnerships with leading managed service providers and consulting organizations including Accenture, BT, Cognizant Technology Solutions, Deutsche Telekom, Fujitsu, HCL, HP Enterprise, IBM, Infosys, NTT, Optiv, SecureWorks, Tata Communications, Verizon and Wipro. The company is also a founding member of the [Cloud Security Alliance \(CSA\)](#).

For more information, please visit [www.qualys.com](http://www.qualys.com)

## Qualys Support

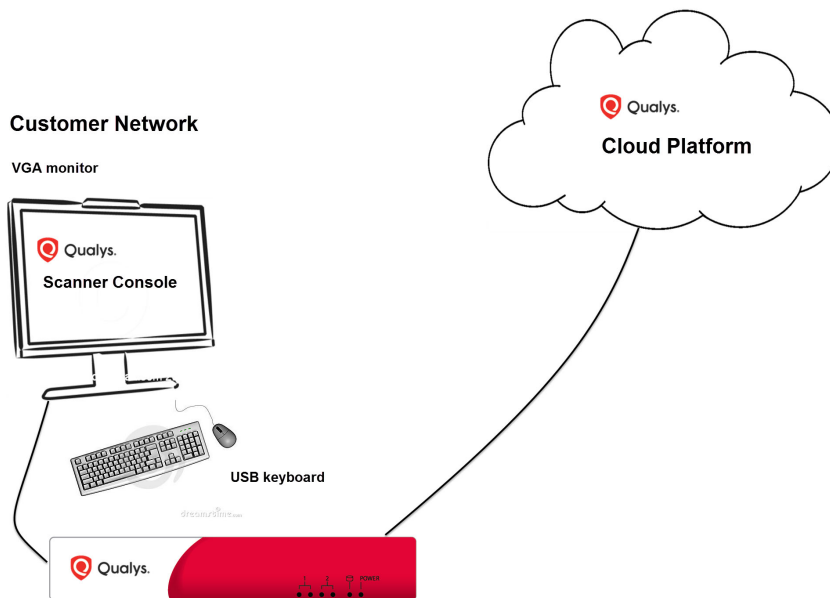
Qualys is committed to providing you with the most thorough support. Through online documentation, telephone help, and direct email support, Qualys ensures that your questions will be answered in the fastest time possible. We support you 7 days a week, 24 hours a day. Access support information at [www.qualys.com/support/](http://www.qualys.com/support/)

# Quick Start

Welcome to Qualys Consultant Scanner - Personal Edition! This lightweight Scanner Appliance is perfectly suited for consultants using the Qualys Cloud Platform to provide vulnerability and compliance services for their clients.

## Scanner to take on the go!

- Super compact and lightweight
- Plug in any VGA monitor and access the built-in console
- Activate in minutes - DHCP is enabled by default
- Easily configure as needed - static IP, proxy, and more
- Bind/unbind with different subscriptions, unlimited times



## What you'll need

Consultant Scanner - Personal Edition packaging from Qualys.

Qualys Cloud Suite account with Consultant Scanner - Personal Edition enabled. Manager or Unit Manager role is required. Interested in Consultant Scanner - Personal Edition? Sure just reach out to Qualys Support or your Qualys Account Manager.

VGA monitor to connect to Qualys Consultant Scanner - Personal Edition.

USB keyboard to connect to Qualys Consultant Scanner - Personal Edition.

## Quick Look at the Scanner

### Front panel



The Scanner's front panel gives you operational indicators.

1 - These LEDs tell you about the WAN interface which is disabled by default. When split network configuration is enabled for your scanner the left LED is lit (blinking) when there is WAN interface activity and the right LED is lit (solid) when the WAN interface is enabled. [Learn more](#)

2 - These LEDs tell you about the LAN interface which is enabled. The left LED is lit (blinking) when there is LAN interface activity and the right LED is lit (solid) when the LAN interface is enabled.

Disk - This LED is lit (blinking) when there is disk activity.

POWER - This LED is lit (solid) when the scanner is powered on.

### Back panel



The Scanner's back panel includes: a power switch, a power socket, VGA socket, two USB ports, Ethernet LAN and WAN ports. (Note - The "Serial" Ethernet port shown is not in use; there is no Serial support on this scanner. The only way to have scanner console access is to connect a monitor to the VGA port and a keyboard to one of the USB ports.)

Your Scanner package from Qualys also includes accessories for proper set up in your networking environment.

Looking for more details? [See Product Specifications and Credits](#)

## Network requirements

<b>Bandwidth</b>	Minimum recommended bandwidth connection of 1.5 megabits per second (Mbps) to the Qualys Cloud Platform.
<b>Outbound HTTPS Access</b>	The local network must be configured to allow outbound HTTPS (port 443) access to the Internet, so that the Scanner Appliance can communicate with the Qualys Cloud Platform.
<b>Network Mode</b>	By default when you deploy a Scanner Appliance it will be in IPv4+v6 network mode. If your network is configured in a way that only IPv6 addresses can be used, then you'll need to switch to IPv6-only mode. See <a href="#">Enable IPv6-only Mode</a> .
<b>Access to Qualys Cloud Platform</b>	The Scanner Appliance must be able to reach certain infrastructure located at the Qualys Cloud Platform where your Qualys account is located.  Tip - Log in to the Qualys portal and go to Help > About to see the Qualys Cloud Platform servers that need to be whitelisted.
<b>Access to Target Assets</b>	The assets to be scanned (IP addresses, web applications) must be accessible to the Scanner Appliance.
<b>DHCP (default) or Static IP</b>	By default the Scanner Appliance is pre-configured with DHCP. If configured with a static IP address, be sure you have the IP address, netmask, default gateway, primary DNS and WINS server (if appropriate). <a href="#">Learn more</a>
<b>Proxy Support</b>	The Scanner Appliance includes Proxy support with or without authentication - Basic or NTLM. The Proxy server must be assigned a static IP address and must allow transparent SSL tunneling. Proxy-level termination (as implemented in SSL bridging, for example) is not supported. <a href="#">Learn more</a>
<b>LAN Interface (default) or Split Network config</b>	The LAN interface services both scanning traffic and management traffic to the Qualys Cloud Platform, unless Split Network configuration is enabled. <a href="#">Learn more</a>
<b>WINS Support</b>	If your network is running Windows Internet Naming Service (WINS), the Scanner Appliance needs to use it for host name resolution during scanning. Using a static IP address, the WINS servers are defined with the static IP settings using the Scanner Console. <a href="#">Learn more</a>
<b>VLAN Support</b>	These options are supported - Static and DHCP LAN configuration with native VLAN. - VLANs defined using the Qualys Cloud Platform UI. <a href="#">Learn more</a>

## Tell me the steps

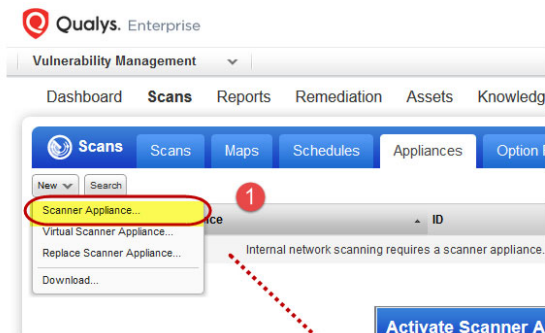
### 1 - Get your Activation Code

You'll find the Activation Code on the Qualys sticker fastened to your Scanner.

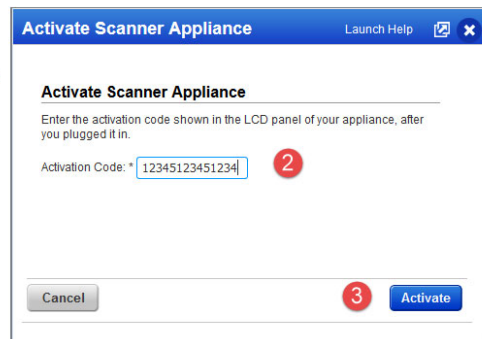
### 2 - Log in to Qualys Cloud Suite UI and enter your Activation Code

Go to Scans > Appliances and take these steps.

#### 1) Select New > Scanner Appliance



#### 2) Enter Activation Code 3) Click Activate

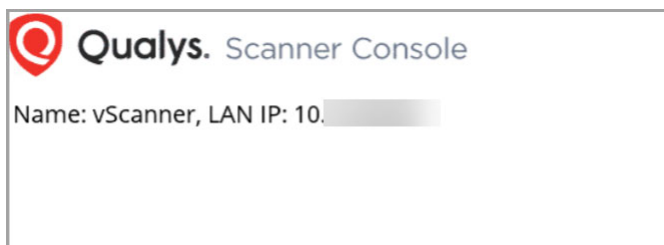


### Are you a Unit Manager?

For the activation step you'll need to select an asset group to add the Scanner to. This will make the scanner available to all Unit Managers in your business unit.

### 3 - Power on the Scanner

Upon success you'll see the Scanner Appliance name and IP address. This appears only after the scanner makes a successful connection to the Qualys Cloud Platform.



We'll attempt to connect the appliance to the Qualys Cloud Platform using DHCP by default.

Use the Scanner Console to configure network settings as needed. [Learn more](#)

## Tip - Check Scanner status in Qualys UI

Just log in to Qualys Cloud Suite and go to Scans > Appliances. You'll see your new Scanner in the appliances list.

**Good to Know** - It can take a few minutes for the Qualys user interface to get updated after you add a new scanner appliance. Please refresh your browser periodically to ensure that you are seeing the most up to date info.

The screenshot shows the Qualys UI 'Appliances' tab. At the top, there's a navigation bar with tabs: Scans, Maps, Schedules, Appliances (selected), Option Profiles, Authentication, Search Lists, and Setup. Below the navigation bar is a search bar and a table of appliances. The table has columns: Appliance, ID, LAN IP, WAN IP, LAN IPv6, Polling, Scanner, Signatures, and Last Update. Two appliances are listed: 'is\_sfagd\_sg1' and 'New\_Enc\_VSA\_3'. The 'is\_sfagd\_sg1' appliance is highlighted in yellow. Below the table, there's a detailed view for 'is\_sfagd\_sg1'. This view includes a summary section with a red box around it, containing 'Heartbeat Checks Missed' (0), 'Latest Scanner Version' (9.3.38-1), and 'Latest Signature Version' (2.4.48-2). To the right of this box, there's a section for 'Available Capacity' (100%).

Appliance	ID	LAN IP	WAN IP	LAN IPv6	Polling	Scanner	Signatures	Last Update
is_sfagd_sg1	0	10.1.0.54	--	--	180 seconds	9.3.38-1	2.4.48-2	05/24/2017 at 13:48:15 (GMT-0700)
New_Enc_VSA_3	15618999429829	10.11.53.252	--	2001:470:8418:b35::a0b:35fc/64	180	9.3.38-1	2.4.48-2	05/24/2017 at 12:56:07 (GMT-0700)

**is\_sfagd\_sg1**  
ID: 0

Owner: (Manager) | Connected on: 05/24/2017 at 15:17:12 (GMT-0700) | Verified on: 05/24/2017 at 15:20:02 (GMT-0700) | Connected

Summary: The appliance is online and its software versions are up to date.

Heartbeat Checks Missed	Latest Scanner Version	Latest Signature Version	Available Capacity
0	9.3.38-1	2.4.48-2	100%

1 - Activation is complete. Now you can start internal scans! (You'll see the busy icon is greyed out until you launch a scan using this appliance).

2 - This icon tells you it is a physical scanner appliance.

3 - Latest software versions - these are installed as part of the activation process.

4 - The available capacity will be 100% until you launch a scan. You can come back and check this at any time.

# Configuration options

You might need to customize the out of box configuration in order for successful activation to occur. The Scanner Console is used to configure network settings like static IP address, proxy server, and VLAN tag, and power on/off.

## Configuration may be required for activation


Keep in mind your Scanner must be able reach our Cloud Security Platform via HTTPS - this is required for successful activation. Depending on your network, you might need to configure network settings using the Scanner Console so that activation can occur successfully.

**How do I enter settings?** Press the Up and Down arrows to select input fields. Press the Right and Left arrows to scroll within a field. When you are done, select the last item, for example “Configure static IP address on LAN?” and type Y to confirm (or N to cancel).

## How to configure a static IP address

By default your Scanner is configured with DHCP. You can define a static IP address instead of DHCP. Using IPv6-only mode? Please see [Network Settings in IPv6-only Mode](#).

What are the steps? Access the Scanner Console. Press the Down arrow to select “Set up network (LAN)” from the main menu. Press the Right arrow to highlight “Enable static IPv4 config”. Press the Right arrow. Enter settings (use the Up/Down arrows to move thru the settings). When “Apply static IPv4 configuration on LAN?” is selected type Y to confirm.


**Qualys. Scanner Console**

Name: vScanner, LAN IP: 10.

Set up network (LAN) >	Enable static IPv4 config >	LAN address	10
Enable WAN interface >	Renew DHCP on LAN >	LAN prefix	24
Enable proxy >	Enable VLAN on LAN >	LAN gateway	10
Reset network settings >		LAN DNS1	10
System shutdown >		LAN DNS2	10
System reboot >		LAN WINS1	0.0.0.0
Version:		LAN WINS2	0.0.0.0
Exit this menu? (Y/N)		WINS domain	qualys.com
		Apply static IPv4 configuration on LAN? (Y/N)	

TIP:  
This menu is to configure a static IPv4 address for the scanner on the LAN interface.  
Press UP/DOWN arrow keys to select input fields. When entry is highlighted, text can be typed over.  
Use the LEFT, RIGHT, HOME and END keys to scroll within each input field.  
To apply changes, select the last menu item and type 'Y' to configure static IPv4 address.

## How to configure IPv6 address for scanning

This applies when you're in the default IPv4+v6 mode. Interested in only using IPv6? See [Enable IPv6-only Mode](#).

You have the option to configure the Scanner with an IPv6 address on the LAN interface - this will be used for scanning IPv6 hosts.

### Account requirements

The IPv6 Scanning feature must be enabled for your subscription.

### How it works

Once configured scanning traffic will be routed through the LAN interface

- LAN IPv4 interface for scanning IPv4 hosts, and
- LAN IPv6 interface for scanning IPv6 hosts

All management traffic (software updates, health checks, etc) will be routed through the LAN IPv4 interface.

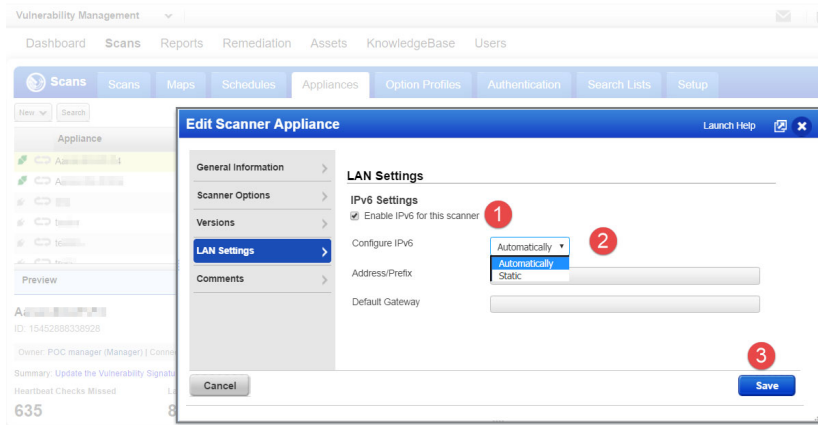
### 1 - Complete the Quick Start

Follow the Quick Start steps, described in this user guide, to activate your Scanner. Be sure your Scanner has successfully connected to the Qualys Cloud Platform. [Learn more](#)

Good to Know - Your Scanner must be configured using DHCP or a static IPv4 address before you can configure an IPv6 address for scanning.

### 2 - Edit Scanner settings using Qualys UI

Log in to Qualys portal. Go to Scans > Appliances and edit your Scanner Appliance.



1) Select "Enable IPv6 for this scanner". (Don't see IPv6 Settings? This means the IPv6 Scanning feature is not turned on for your account. Contact Support or your Technical Account Manager to get this feature.)

2) Choose "Automatically" and we'll do IP assignment through router advertisement, or choose "Static" and assign a static IP address.

3) Click Save to save the settings with IPv6 configuration.

## VLAN configuration

This is supported in IPv4+v6 network mode (the default) and IPv6-only mode.

These options are supported:

- Static and DHCP LAN configuration with native VLAN.
- VLANs defined using the Qualys Cloud Platform UI (see steps below).

### Steps to define VLANS using Qualys Cloud Platform UI

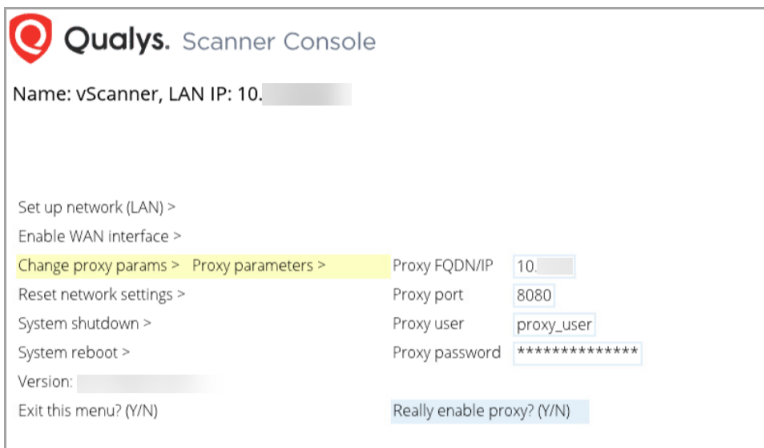
Log in to Qualys portal. Go to Scans > Appliances and edit the settings. You can add up to 4094 VLANs to devices with a serial number over 29000 and up to 99 VLANs to devices with a serial number under 29000. Add up to 99 static routes. Don't see these settings in the UI? The VLAN trunking feature must be turned on for your account. Please contact Support or your Technical Account Representative if you'd like us to turn it on for you.

## Proxy configuration

Proxy configuration is supported in IPv4+v6 mode (the default) and IPv6-only mode.

The Scanner includes Proxy support with or without authentication - Basic or NTLM. The Proxy server must allow transparent SSL tunneling. Proxy-level termination (as implemented in SSL bridging, for example) is not supported. SOCKS proxies are not supported.

What are the steps? Access the Scanner Console. Select "Enable proxy", then "Change proxy params", then "Proxy parameters". Press the Right arrow and enter proxy settings. You can enter the IPv4 address or the FQDN for the proxy server.

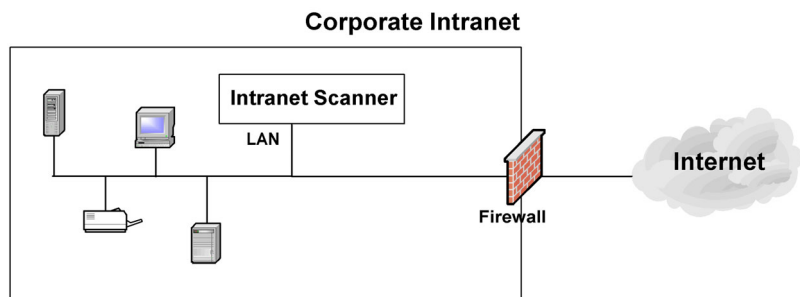


The screenshot shows the Qualys Scanner Console interface. At the top, it says "Qualys. Scanner Console". Below that, it displays "Name: vScanner, LAN IP: 10." followed by a redacted IP address. A list of menu items is on the left: "Set up network (LAN) >", "Enable WAN interface >", "Change proxy params > Proxy parameters >" (highlighted in yellow), "Reset network settings >", "System shutdown >", "System reboot >", "Version: ", and "Exit this menu? (Y/N)". On the right, the "Proxy parameters" form is shown with fields for "Proxy FQDN/IP" (containing "10."), "Proxy port" (containing "8080"), "Proxy user" (containing "proxy\_user"), and "Proxy password" (containing "\*\*\*\*\*"). At the bottom right, there is a button labeled "Really enable proxy? (Y/N)".

## Split Network configuration

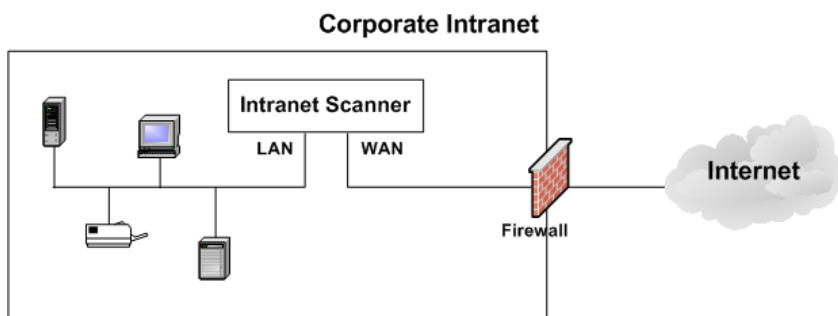
Split network configuration is supported only in IPv4+v6 mode (the default). It is not supported in IPv6-only mode.

By default the Scanner LAN interface services all traffic to the Qualys Cloud Platform, including management traffic (software updates, health check, scan data upload) and scanning traffic.



You have the option to configure a split network configuration for your Scanner by configuring the WAN interface using the Scanner Console. This enables support for networks that do not have direct Internet access. Split network configuration also keeps scanned data and internal targets secure by isolating internal LAN traffic from Internet traffic by using the WAN interface.


Once configured, management traffic will be routed through the WAN interface and scanning traffic will be routed through the LAN interface. No internal traffic will be routed or bridged to the WAN interface, and no management traffic will be routed or bridged to the LAN interface.



Please review these tips and best practices before you configure split network configuration.

- Check to be sure that network connection to both the LAN and WAN interfaces on the Virtual Scanner have been set up properly.
- The Virtual Scanner must be configured with DHCP or a static IP address on the LAN interface first.
- Do not configure the LAN and WAN interfaces on the same subnet. This type of configuration is not supported.

What are the steps? Access the Scanner Console. Navigate to “Enable WAN Interface”, press the Right arrow and provide the required settings. Once configured, all software updates and health checks are routed through the WAN interface and scanning traffic is routed through the LAN interface.

 **Qualys.** Scanner Console

Name: vScanner, LAN IP: 10.

Set up network (LAN) >

Enable WAN interface > Enable static IPv4 config >

Enable proxy > Enable DHCP on WAN >

Reset network settings >

System shutdown >

System reboot >

Version:

Exit this menu? (Y/N)

WAN address

10.

WAN prefix

24

WAN gateway

10.

WAN DNS1

0.0.0.0

WAN DNS2

0.0.0.0

Apply static IPv4 configuration on WAN? (Y/N)

TIP:

This menu is to configure a static IPv4 address for the scanner on the WAN interface.

Press UP/DOWN arrow keys to select input fields. When entry is highlighted, text can be typed over.

Use the LEFT, RIGHT, HOME and END keys to scroll within each input field.

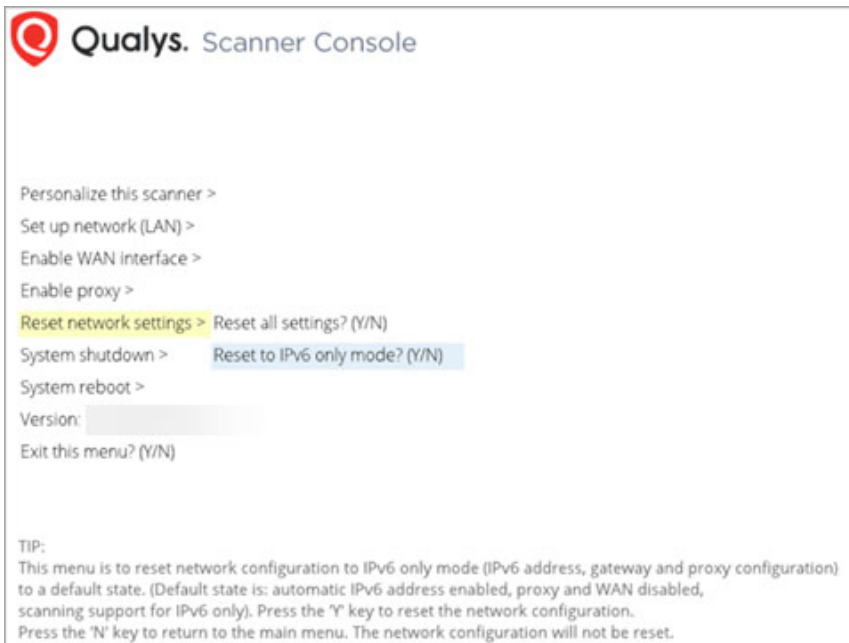
To apply changes, select the last menu item and type 'Y' to configure static IPv4 address.

## Enable IPv6-only Mode

When you deploy a scanner appliance, it works in IPv4+v6 mode by default. You have the option to enable IPv6-only mode. When you enable IPv6-only mode, all communications will use IPv6 addresses instead of IPv4 addresses, and you'll see additional menu options in the Scanner Console for IPv6 network and proxy configurations.

### Step 1 - Reset to IPv6-only mode

The first step you'll need to take is to reset the network configuration to use IPv6-only mode. Access the Scanner Console, and select "Reset network settings", and then "Reset to IPv6 only mode?". Type Y to confirm (or type N to cancel).



### Step 2 - Configure network and proxy settings (optional)

In IPv6-only mode, you have the option to configure the scanner network interface with either a manual or automatic IPv6 configuration. IPv6-only mode supports proxy and VLAN configurations. Proxy and VLAN configurations work the same whether you're in IPv4+v6 mode or IPv6-only mode. See the following sections for details:

[Network Settings in IPv6-only Mode](#)

[VLAN configuration](#)

[Configure a Proxy Server in IPv6-only Mode \(Optional\)](#)

## Network Settings in IPv6-only Mode

When in IPv6-only mode, configure the scanner network interface either with manual or automatic IPv6 network configuration. Automatic IPv6 is used by default.

### Configure the scanner with automatic IPv6

Automatic IPv6 is the default network configuration for a scanner in IPv6-only mode.

When using automatic IPv6 we'll do IPv6 address assignment through both router advertisement and DHCPv6. Even with automatic IPv6 configuration, you have an option to configure manual DNS resolvers for your scanner. If configured manually, IPv6 DNS1 and IPv6 DNS2 resolvers will take precedence over the DNS resolvers acquired from DHCPv6 and RADVD.

### Configure the scanner with manual IPv6

If automatic IPv6 address assignment is not available on your network, you must enable the scanner with a manual IPv6 address. One of these configurations is required. Note: For a valid network configuration, you should configure at least one IPv6 DNS resolver.

Access the Scanner Console. Navigate to "Set up network (LAN)", and then "Enable manual IPv6 config". Press the Right arrow and enter the following settings: Manual address, IPv6 prefix, IPv6 gateway, IPv6 DNS1 and IPv6 DNS2. When you're done entering settings, select "Apply the manual IPv6 configuration on LAN?" and type Y to confirm (or N to cancel).

Set up network (LAN) >	Enable manual IPv6 config >	Manual address	2600:c02:1021:132d:250:56ff:fe9a:fc
Enable proxy >	Renew automatic IPv6 >	IPv6 prefix	64
Reset network settings >	Enable VLAN on LAN >	IPv6 gateway	fe80::250:56ff:feae:49fc
System shutdown >		IPv6 DNS1	2600:1234::
System reboot >		IPv6 DNS2	2600:5678::
Version:			
Exit this menu? (Y/N)		Apply manual IPv6 configuration on LAN? (Y/N)	

## Configure a Proxy Server in IPv6-only Mode (Optional)

Follow these steps below to configure proxy configuration in IPv6-only mode.

Access the Scanner Console. Select “Enable Proxy”, then “Change proxy params”, then “Proxy parameters”. Press the Right arrow to enter proxy settings. When you’re done, select “Really enable proxy?” and type Y to confirm (or N to cancel).

Set up network (LAN) >	Change proxy params > Proxy parameters >	Proxy FQDN/IP	2600:abc:1234:132d::
Reset network settings >		Proxy port	8080
System shutdown >		Proxy user	proxy_user
System reboot >		Proxy password	*****
Version: <input type="text"/>			
Exit this menu? (Y/N)		Really enable proxy? (Y/N)	

## Renew Automatic IPv6 on LAN

Follow these steps to renew the network configuration on LAN when using automatic IPv6.

Access the Scanner Console. Select “Set up network (LAN)”, then select “Renew automatic IPv6” from the sub-menu. Select “Apply automatic IPv6 configuration on LAN?” and type Y to confirm (or N to cancel).

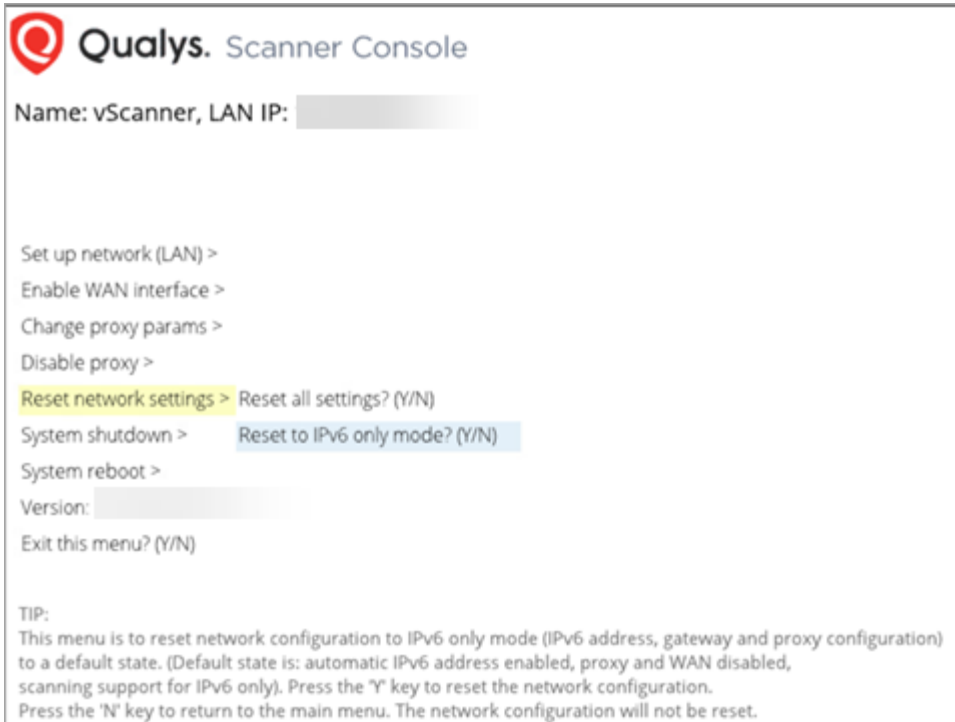
Note: If configured manually, IPv6 DNS1 and IPv6 DNS2 resolvers will take precedence over the DNS resolvers acquired from DHCPv6 and RADVD.

Set up network (LAN) >	Enable manual IPv6 config >	SLAAC address	2600:c02:1021:132d:250:56ff:fe9a:fc5e
Enable proxy >	Renew automatic IPv6 >	IPv6 prefix	64
Reset network settings >	Enable VLAN on LAN >	IPv6 gateway	fe80::222:bdff:fe8:19ff
System shutdown >		Manual DNS1	2600:abcd::
System reboot >		Manual DNS2	2600::cdef::
Version: <input type="text"/>		IPv6 RA info	Flags=[none],Prf=medium,rTTL=300
Exit this menu? (Y/N)		Apply automatic IPv6 configuration on LAN? (Y/N)	

## Switch Between Modes

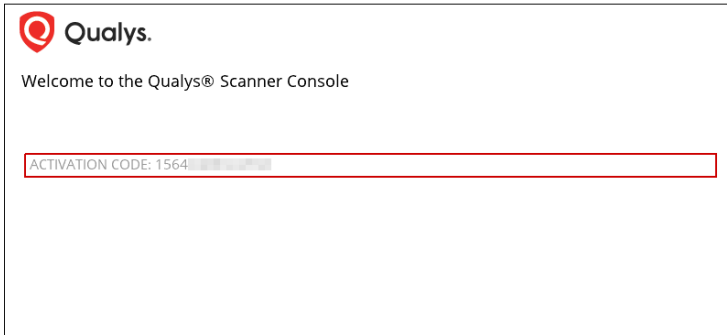
Easily switch between IPv4+v6 and IPv6-only network modes.

Access the Scanner Console. Select “Reset network settings” from the main menu. In the sub-menu, you’ll see the option “Reset to IPv4+v6” if you’re in IPv6-only mode, or you’ll see the option “Reset to IPv6 only mode” if you’re in IPv4+v6 mode. Select the reset option and type Y to confirm (or N to cancel).



# Troubleshooting

## Why do I see an Activation Code?



The Scanner Console displays ACTIVATION CODE in some cases:

- You powered on the Scanner before entering the Activation Code using the Qualys portal UI. [Click here for the activation steps](#)
- You entered the wrong Activation Code using the Qualys portal UI, i.e. the Scanner has another activation code.
- You entered the Activation Code following the activation steps but used the wrong Qualys Cloud Platform, e.g. the Scanner is licensed for US Platform 1 instead of US Platform 2.

## Communications Failure message

The COMMUNICATION FAILURE message appears if there is a network breakdown between the scanner and the Qualys Cloud Platform.

The communication failure may be due to one of these reasons: the local network goes down, Internet connectivity is lost for some reason, or any of the network devices between the scanner and the Qualys Cloud Platform goes down.

Note the sequence of events following a network breakdown:

- If there are no scans running on the Scanner: The next time the scanner sends a polling request to the Qualys Cloud Platform, the polling request fails, and then the COMMUNICATION FAILURE message appears.
- If there are scans running on the Scanner: The COMMUNICATION FAILURE message appears after the running scans time out. In this case it is recommended you cancel any running scans and restart them to ensure that results are accurate.

Once the network breakdown is resolved, you'll see the scanner friendly name and IP address and you scan start new scans.

The COMMUNICATION FAILURE message remains until the next time the Scanner makes a successful polling request to the Qualys Cloud Platform. There may be a lag time after the network is restored and before the scanner is back online, depending on when the next polling request is scheduled. Additional time is necessary for communications to be processed by a Proxy server if the scanner has a Proxy configuration.

## Appliance Network Errors

An appliance network error indicates the Scanner attempted to connect to the Qualys Cloud Platform and failed. For details on troubleshooting and a list of possible errors, please visit [Scanner Appliance Troubleshooting and FAQs](#).

Important! The Scanner is not functional until the error is resolved.

# Product Specifications and Credits

**Model number** QGSA-1330-A2

## Software Credits

Portions of the software embedded in the Qualys Scanner Appliance were developed by third parties and are governed by the terms and conditions detailed in the following Qualys document

Qualys Scanner Appliance Software Credits

<https://www.qualys.com/docs/qualys-software-credits-scanner-appliance.pdf>

## Product Specifications

Configuration	
CPU	Intel Celeron Quad-Core 2.00 GHz, 2M Cache
Memory	4 GB DDR3-1333
Hard Drive	500 GB, 2.5", SATA 6 Gb/s, 5400 RPM
Ethernet	Two GbE ports
USB	Two USB 2.0 ports
Power Input	100-240 VAC, 50-60 Hz to AC-DC Adapter 12 VDC, 40W
Power Consumption	AC-DC Adapter 12 VDC, 40W
Dimension	1.73 (H) x 8.19 (W) x 7.13 (D) inches
Weight	3.96 lbs.
Environment	
Acoustic Noise	~24 dBA at 23°C
Operating Conditions	0°C to 40°C, 0 to 5,000 feet, 5 to 85% RH
Storage Conditions	-20°C to 75°C, 5 to 95% RH
Operating Vibration	0.5 Grms, 5-500 Hz, 30 minutes per axis
In-Package Shock	In accordance with GB/T 2423.8-1995 Part 2; Test Ed (IEC 60068-2-32:1990-1995 IDT equivalent)
Regulatory	UL
EMC	FCC
Environmental	RoHS, WEEE
Other certifications	Per specific requirements