



QUALYS®

# Virtual Scanner Appliance

## User Guide

November 17, 2016

CONTINUOUS SECURITY

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## About this guide

Qualys Virtual Scanner Appliance supports the same global scanning capabilities as our physical scanner appliance. The virtual scanner appliance is a stateless, disposable resource which acts as an extension of the Qualys Cloud Platform and is not a separately managed entity. This user guide describes how to get started with using a virtual scanner with your virtualization or cloud platform.

## About Qualys

Qualys, Inc. (NASDAQ: QLYS) is a pioneer and leading provider of cloud-based security and compliance solutions with over 9,200 customers in more than 100 countries, including a majority of each of the Forbes Global 100 and Fortune 100. The Qualys Cloud Platform and integrated suite of solutions help organizations 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, Fujitsu, HCL Comnet, HPE, 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/)



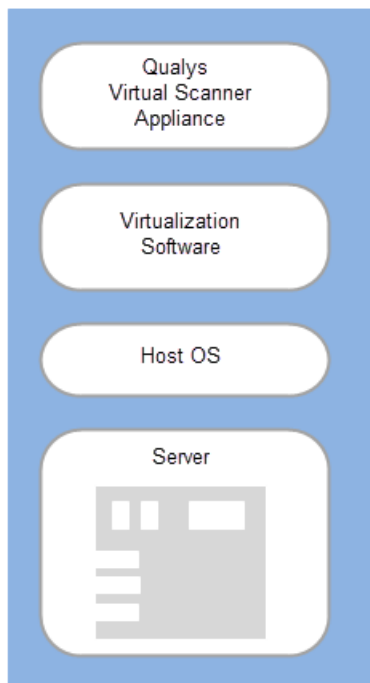
## Get Started

### It's easy to add a Virtual Scanner

You can add a virtual scanner to your account in just a couple minutes. Then you'll be ready to scan devices and web applications on your internal network.

The Virtual Scanner option must be turned on for your account. Please contact Qualys Support or your Technical Account Manager if you would like us to turn on this option for you.

### Tell me about the virtualization platforms



Qualys Virtual Scanner Appliance is packaged and qualified for deployment on a variety of virtualization and cloud platforms

#### Desktop/Laptop

VMware Workstation, Player, Workstation Player, Fusion  
Oracle VM VirtualBox

#### Client/Server

VMware vSphere: vCenter Server, ESXi  
Citrix XenServer  
Microsoft Windows Server (Microsoft Hyper-V)

#### Cloud

Amazon EC2-Classic  
Amazon EC2-VPC  
Microsoft Azure Cloud Platform (ARM)  
Microsoft Azure Cloud Platform (ASM)  
Google Cloud Platform  
OpenStack

### Want help with choosing the right platform?

No problem, just check our Community where you can find all the details about our supported virtualization platforms, configurations and available distributions.

#### From our Community

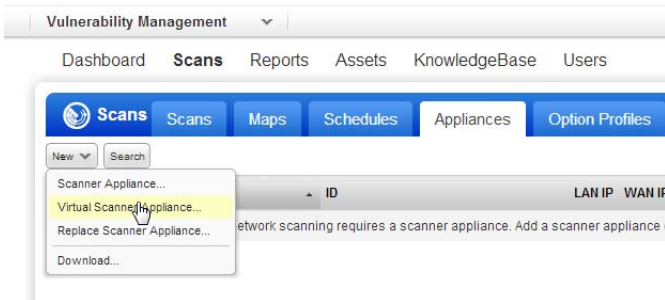
[Virtual Scanner Appliance - Platform Qualification Matrix](#)

[Reference - Virtual Scanner Appliance](#)

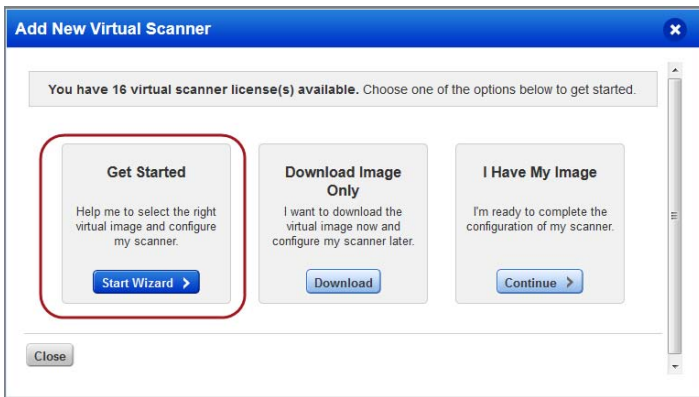
## Add Your Virtual Scanner

### Step 1 - Start the Wizard

Go to Scans > Appliances and select New > Virtual Scanner Appliance.

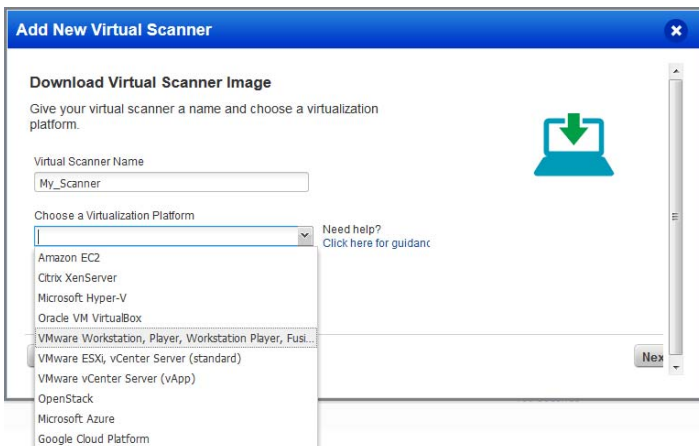


Click Start Wizard, and we'll walk you through the steps.



### Step 2 - Choose your virtualization platform

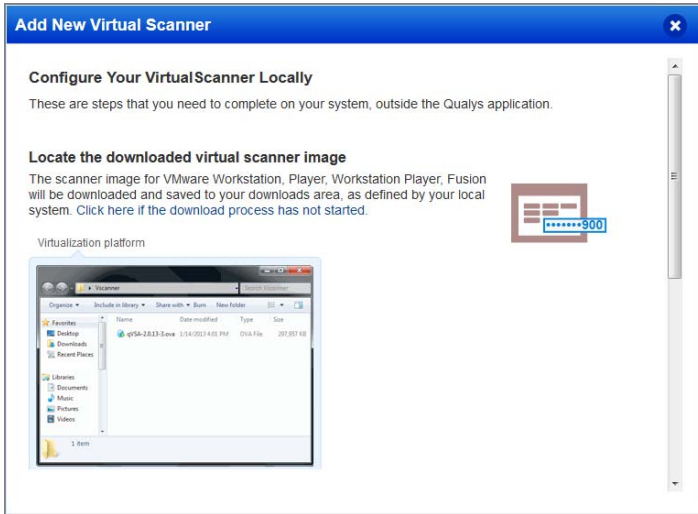
Give your scanner a name and tell us the virtualization platform you'd like to use.



### Step 3 - Download the Image

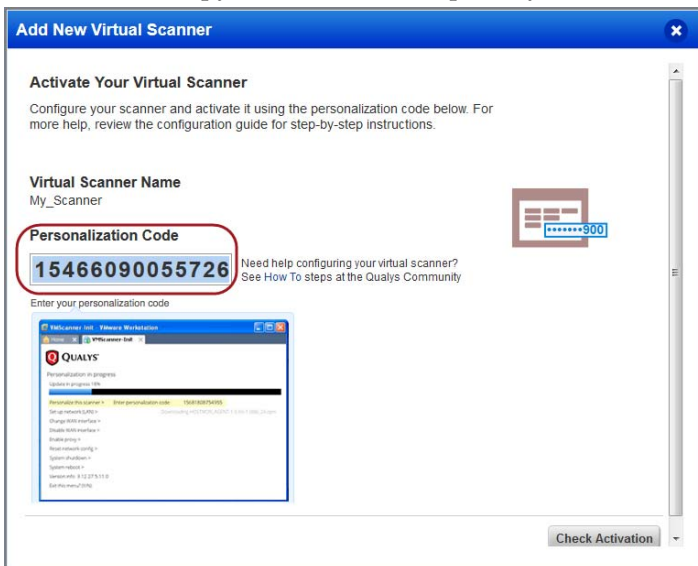
This step applies to virtualization platforms with a scanner appliance image download (i.e. VMware, Oracle VirtualBox, Citrix ZenServer, etc). Using a cloud platform? Skip to the next step.

Locate the Virtual Scanner image on your local system.



### Step 4 - Get your Personalization Code

You'll want to copy the code to a safe place (you'll need it later).



*Tip - Follow the "How to" link on the screen to get detailed step-by-step instructions for your virtualization platform.*

### Step 5 - Complete Configuration Steps for your Platform

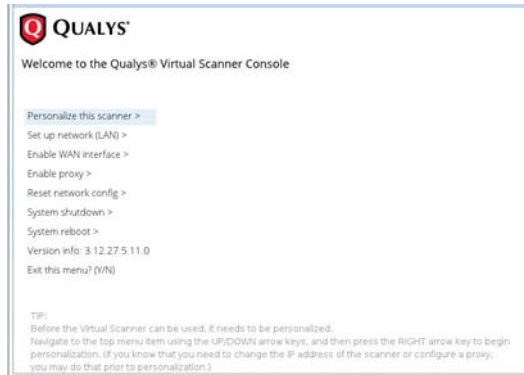
Follow the "How to" link on the screen (next to your personalization code) to get detailed, step-by-step configuration instructions for your virtualization platform. The steps for each platform will differ slightly.

## Step 6 - Personalize Your Scanner

### Local system or server

These steps apply when you have downloaded a scanner appliance image (i.e. for VMware, Oracle VirtualBox, Citrix ZenServer, etc). You'll use our Virtual Scanner Console running on your virtualization software to complete these steps.

**Good to know** We'll automatically configure your virtual scanner with DHCP. Do you want to use a static IP instead? If yes select "Set up network (LAN)" first. [Learn more](#)



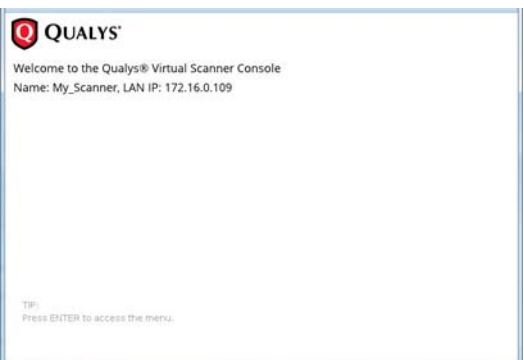
Press the Right arrow to select "Personalize this scanner" and then type in your personalization code.

*Don't have your personalization code? Go to [Qualys and get it from the Scans > Appliances list](#).*



Once you enter the code the activation process starts and you'll see the progress. This may take a few minutes to complete.

*Your virtual scanner must connect to our [Cloud Security Platform](#) in order to complete the activation and download the latest software versions.*



Upon success you'll see this scanner's name and IP address. That's it! You've added your virtual scanner to your account.

Having trouble with completing the activation? [Click here](#)

## Get Started

### Add Your Virtual Scanner

Get detailed instructions and best practices from our Community.

#### From our Community

[Scanner Appliance FAQs](#)

[Configure a virtual scanner using VMware \(various products\)](#)

[Configure a virtual scanner using Microsoft Hyper-V](#)

[Configure a virtual scanner using Oracle VirtualBox](#)

[Configure a virtual scanner using VMware vSphere \(vCenter\)](#)

[Configure a virtual scanner using a laptop connected to the Internet \(MiFi\)](#)

#### Cloud Platform

This includes Amazon EC2, Microsoft Azure, Google Cloud Platform and OpenStack. You'll enter your personalization code on the cloud platform, as part of the scanner appliance instance configuration. Get detailed instructions and best practices from our Community.

#### From our Community

[Configure a virtual scanner using Amazon EC2](#)

[Choosing the Correct Scanner AMI \(Amazon Machine Image\)](#)

[Scanning in Microsoft Azure](#)

[Virtual Appliance in Google Compute Cloud \(GCE\)](#)

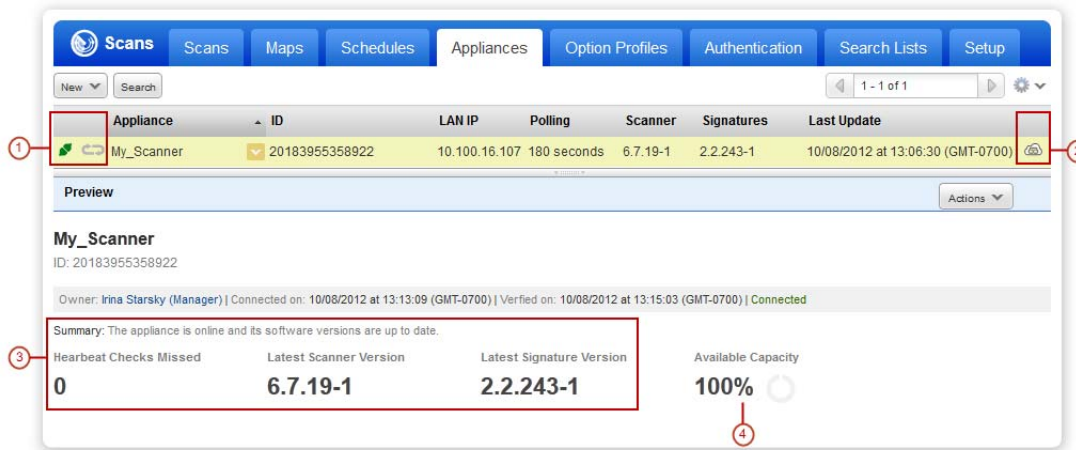
[Scanning in OpenStack](#)



## We recommend one more thing

Check your virtual scanner status. Go to Scans > Appliances, and select your scanner and you'll see the preview pane.

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



**1** - tells you your virtual scanner is ready. Now you can start internal scans! (Next to this, you'll see the busy icon is greyed out until you launch a scan using this scanner).

You might want to also check out:

**2** - This shows you it's a virtual appliance.

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

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



## Configuration settings

You might need to customize your configuration, so that your scanner can phone home to our Cloud Security Platform - this is required for successful activation.

### Tell me about network settings

There are multiple network settings that you can choose for your virtual scanner, like static IP address, proxy server, and VLAN tag (for 802.1q trunked port). Just enter the network settings using the Virtual Scanner Console (used for all platforms except Amazon EC2).

Having trouble personalizing your scanner? You might need to configure network settings first.

The screenshot shows the Qualys Virtual Scanner Console interface. At the top, it says "Welcome to the Qualys® Virtual Scanner Console" and "Name: My\_Scanner, LAN IP: 172.16.0.109". Below this is a menu of options. The "Set up network (LAN)" option is highlighted in yellow. Underneath it, "Enable static IP config on LAN" is highlighted in blue. The "LAN IP address" field is currently set to "172.016.000.109". Other options include "Enable WAN interface", "Renew DHCP on LAN", "LAN netmask" (255.255.255.000), "Enable proxy", "Enable VLAN on LAN", "LAN gateway" (172.016.000.003), "Reset network config", "LAN DNS1" (010.000.100.010), "System shutdown", "LAN DNS2" (010.000.100.011), "System reboot", "LAN WINS1" (000.000.000.000), "Version info: 3.12.27.5.11.0", "LAN WINS2" (000.000.000.000), "Exit this menu? (Y/N)", "Domain name", and "Configure static IP address on LAN? (Y/N)". At the bottom, there is a "TIP" section with instructions on how to navigate the menu using arrow keys and how to confirm or cancel the static IP configuration.

Set up network (LAN) >	Enable static IP config on LAN >	LAN IP address	172.016.000.109
Enable WAN interface >	Renew DHCP on LAN >	LAN netmask	255.255.255.000
Enable proxy >	Enable VLAN on LAN >	LAN gateway	172.016.000.003
Reset network config >		LAN DNS1	010.000.100.010
System shutdown >		LAN DNS2	010.000.100.011
System reboot >		LAN WINS1	000.000.000.000
Version info: 3.12.27.5.11.0		LAN WINS2	000.000.000.000
Exit this menu? (Y/N)		Domain name	
		Configure static IP address on LAN? (Y/N)	

TIP:  
This menu allows you to configure a static IP address, which the Qualys Scanner will subsequently use.  
Press UP/DOWN arrow keys to select input fields. Press LEFT/RIGHT arrow keys to scroll within a field.  
Note: You cannot type into the "Netmask" field. Instead, change the value using the LEFT and RIGHT arrow keys.  
When you are done, select the last menu item and type the "Y" or ENTER key to configure the static IP address.

### How to use a static IP address

You can choose to configure your appliance with a static IP address instead of DHCP.

- using the Virtual Scanner Console go to the main menu
- select "Set up network (LAN)"
- press the Right arrow to highlight "Enable static IP config on LAN"
- press the Right arrow
- enter settings

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 fields. When you are done, select the last item, for example "Configure static IP address on LAN?" and type Y to confirm (or type N to cancel).

Want to configure a static IP using Amazon EC2? [Click here](#)

## Tell me about these network settings

You'll notice these menu options in the Virtual Scanner Console.

**Enable proxy** - Select this option to enter a proxy server configuration, with or without authentication (Basic or NTLM). The proxy server must allow transparent SSL tunneling.

**Enable VLAN on LAN**- Select this option if you have connected the LAN interface to a 802.1q trunked port and need your virtual scanner to use VLAN tags on the LAN default network. You'll enter the VLAN tag number (1-4094) you want to use.

**Enable WAN interface** - By default the LAN interface services all network traffic. By selecting this option, all software updates and health checks are routed through the WAN interface and scanning traffic is routed through the LAN interface.

Want to configure network settings using Amazon EC2? [Click here](#)

## Configure VLANs and static routes

Configuring VLANs and static routes is supported for all virtual scanner distributions, except Amazon EC2/VPC. In Qualys, just go to the appliances list (Scans > Appliances) and edit the appliance settings.

Up to 4094 VLANs and static routes can be added to each virtual scanner appliance, as long as you are using the latest distribution. You'll have the latest virtual scanner if you've deployed it using scanner image qVSA-2.0.13-1 or later. (If you have an older version, you can add up to 99 VLANs and static routes.)

Don't see these settings? 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.