Qualys Vulnerability Assessment Preparation Guide

Preparation

1

- Securus360 will provide a (Qualys) Virtual Scanner Appliance via SharePoint link to deploy within your on-prem virtual infrastructure.

- No Agents will need to be installed directly on machines—the Virtual Scanner Appliance takes care of it all, without relying on an installed Agent.

- The Virtual Scanner Appliance VM should be able to talk to the internal networks, machines, and appliances that you wish to scan, without any firewall rules blocking it.

- Only **Outbound TCP port 443** needs to be allowed for the Virtual Scanner

- External scans, whether by IP or Domain, do not rely on the Virtual Scanner Appliance. The Virtual Scanner Appliance is for internal vulnerability scans only.

Securus360 will schedule a call/meeting with you to:

- Explain the process

- Ensure the Virtual Scanner Appliance is ready and configured properly

- Activate the Virtual Scanner Appliance

- Schedule a day/time to perform the vulnerability scan

Please contact **support@securus360.com** if you have any questions.

System Requirements

2

Minimum: 4 vCPU | 8 GB RAM*** | 1 x 56GB virtual HDD

Maximum: 16 vCPUs (**recommended not to exceed 8 vCPUs**) | 16GB RAM***

*****Reserved RAM** – If the hypervisor supports it, all RAM applied to the Virtual Scanner Appliance should be configured as reserved RAM.

For instance, if you allocate 16GB of RAM to the Virtual Scanner Appliance VM, you should set all 16GB of RAM as reserved memory in the config for that VM. Failure to do so could result in excessive memory paging by the hypervisor, resulting in decreased scanner performance and responsiveness, and even potential system failure if the hypervisor becomes overloaded.

Supported Network Configurations

Single Network Scanning (One interface in use):

Interface 1: "LAN/WAN" interface - used for *both* scanning of targets and outbound connection to the Qualys Cloud Platform

Split Network Scanning (Two interfaces in use):

Interface 1: "LAN" interface - used for internal scanning of targets
Interface 2: "WAN" interface - used for outbound connection to the Cloud Platform

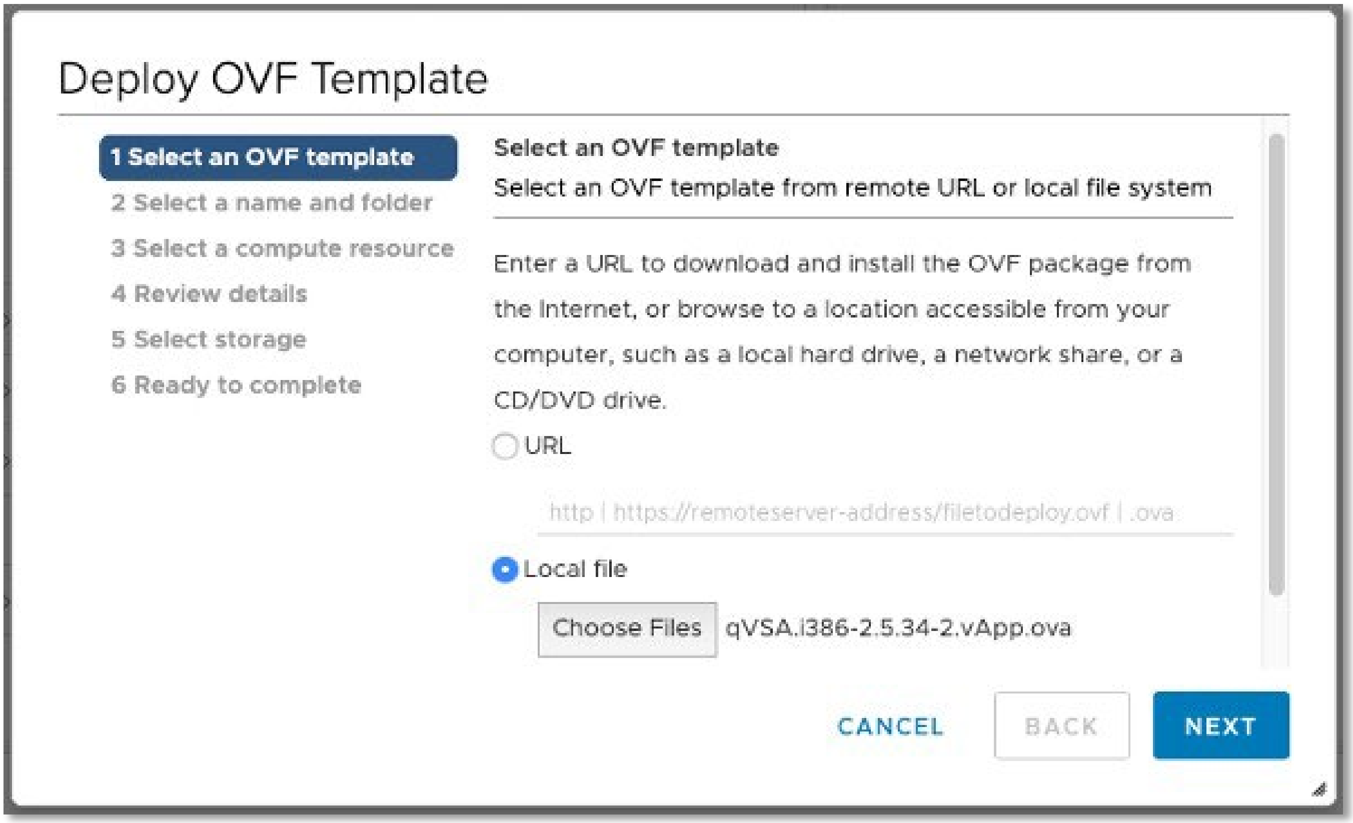
Note: LAN and WAN must be on *different* subnets.

Deploy the Virtual Scanner Appliance

1. Launch VMware vSphere client and log into vCenter.

2. Click on your selected Data Center > Right-Click > Deploy OVF Template.

3. Click on Local File and choose the downloaded Virtual Scanner ova.



Deploy OVF Template

Select an OVF template

Select an OVF template from remote URL or local file system

Enter a URL to download and install the OVF package from the Internet, or browse to a location accessible from your computer, such as a local hard drive, a network share, or a CD/DVD drive.

○ URL

http | https://remoteserver-address/filetodeploy.ovf | .ova

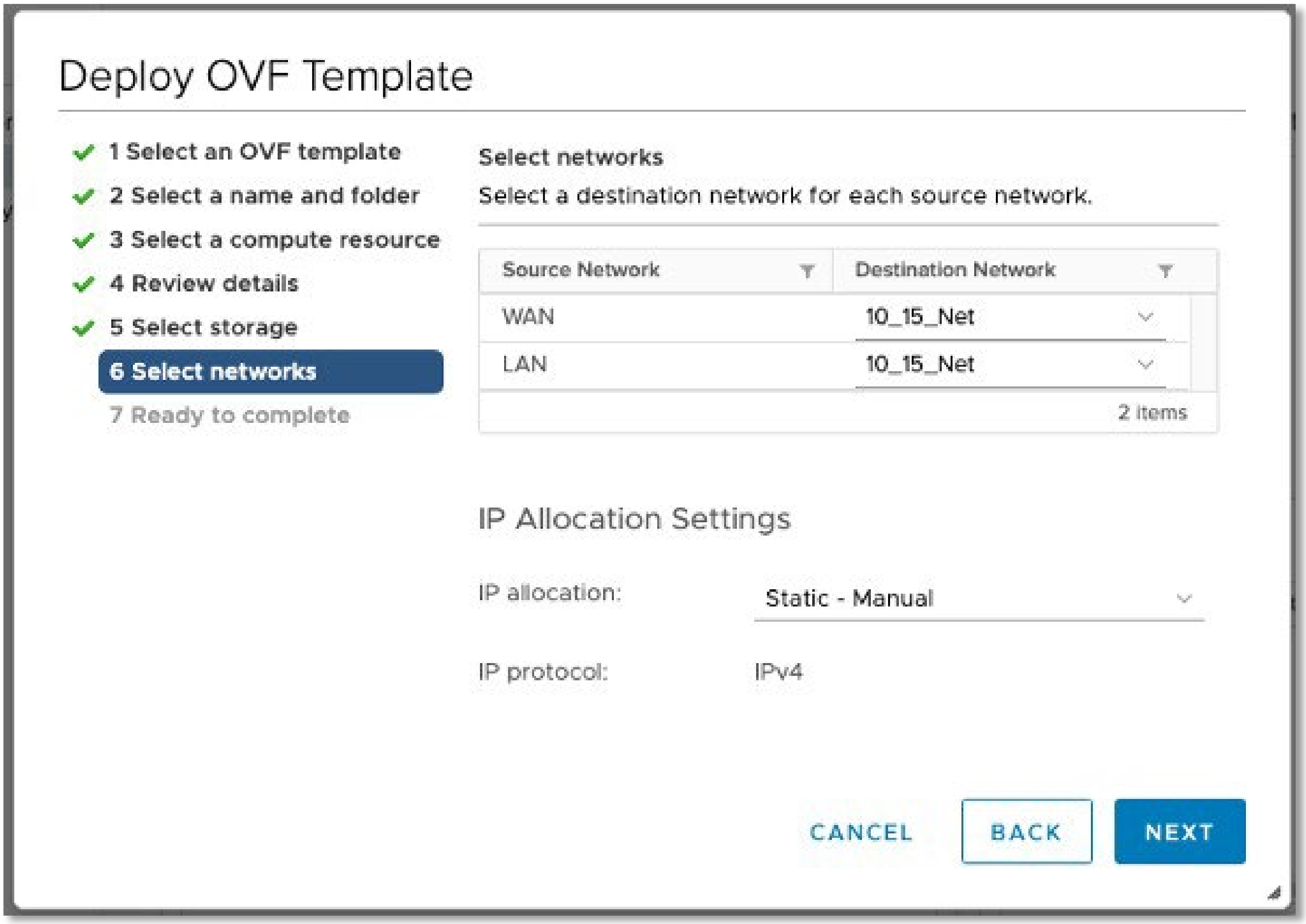
● Local file

Choose Files qVSA.i386-2.5.34-2.vApp.ova

4. Continue with the wizard template to select compute resource and data storage.
   (Max: 16GB RAM / 16 CPU cores)

5. For **Single** Network Scanning, select the desired Destination Network for LAN. WAN will *not* be used. Ensure the Destination Network is configured to allow HTTPS (443) outbound access to the internet.

6. For **Split** Network Scanning, select different Destination Networks for WAN and LAN. Ensure the Destination Network for WAN is configured to allow HTTPS (443) outbound access to the internet.



Deploy OVF Template

✓ 1 Select an OVF template
✓ 2 Select a name and folder
✓ 3 Select a compute resource
✓ 4 Review details
✓ 5 Select storage
6 Select networks
7 Ready to complete

Select networks
Select a destination network for each source network.

Source Network	Destination Network
WAN	10_15_Net
LAN	10_15_Net

2 items

IP Allocation Settings

IP allocation: Static - Manual

IP protocol: IPv4

Powering on the Virtual Scanner Appliance

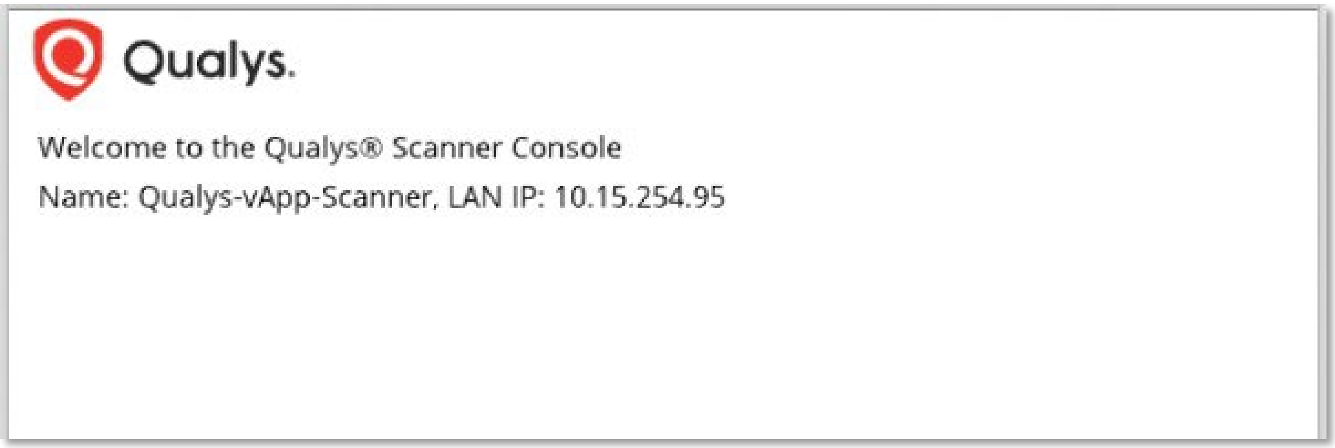
Once you power on the Virtual Scanner Appliance, the Qualys service completes the activation process. It may take a few minutes for this activation to complete. The virtual scanner attempts to make a connection to the Qualys platform using its current configuration (network and proxy settings).

We recommend the following steps to check the appliance status within VMware vCenter:

Step 1: Login to vCenter and launch the Virtual Scanner Appliance remote console

You will see system messages within the console during the startup and activation process. You will see the friendly name and IP address after the appliance successfully connected to the Qualys Cloud Platform. This also means the virtual scanner is ready to be used for scanning.

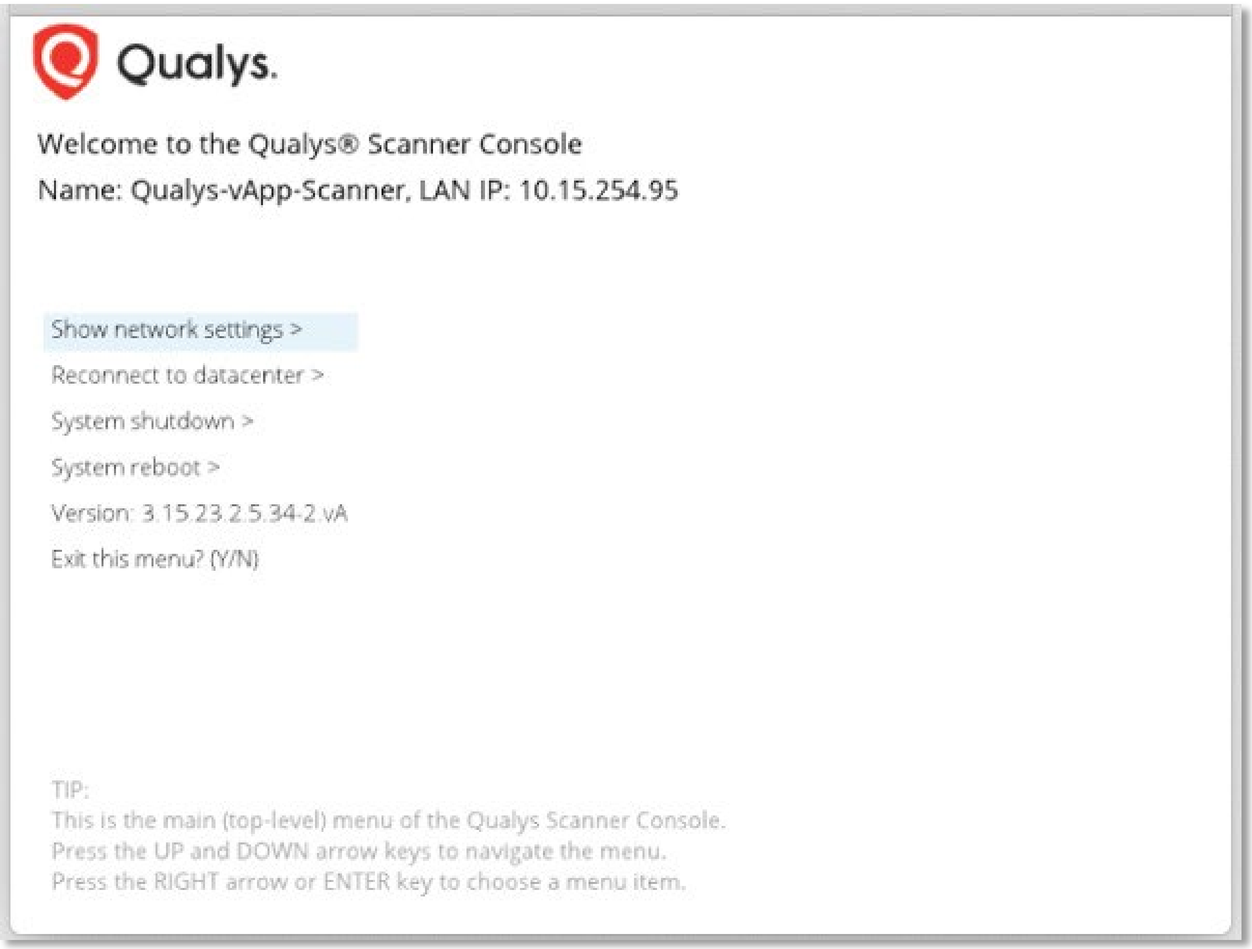
If a network error appears here, troubleshooting will be necessary at this time.



```
Welcome to the Qualys® Scanner Console
Name: Qualys-vApp-Scanner, LAN IP: 10.15.254.95
```

Step 2: Check the network settings

Press Enter to access the main menu. (Tip: Use the Up and Down arrows to navigate the menu.) Press the Right arrow to display the network settings configured for the virtual scanner. Press the Left arrow to return to the main menu.



Qualys.

Welcome to the Qualys® Scanner Console
Name: Qualys-vApp-Scanner, LAN IP: 10.15.254.95

Show network settings >
Reconnect to datacenter >
System shutdown >
System reboot >
Version: 3.15.23.2.5.34-2.vA
Exit this menu? (Y/N)

TIP:
This is the main (top-level) menu of the Qualys Scanner Console.
Press the UP and DOWN arrow keys to navigate the menu.
Press the RIGHT arrow or ENTER key to choose a menu item.

Step 3: Confirmation

Securus360 will confirm that the scanner is communicating appropriately. Note that this process can sometimes take several minutes.