

QBR-S CREATING A SANDBOXED ENVIRONMENT

SCOPE

This article discusses how to create a sandboxed environment to test VM functionality.

VIRTUALBOX SANDBOX

If you are looking to test virtual machines in a sandboxed environment, there are steps you'll need to take to allow for this functionality to occur if you'd like the machines to have internet access.

You can start VMs up in a sandbox without internet access by selecting the option to be firewalled on a private subnet with no internet access. This will use an internal virtualbox network that the VMs can talk to each other but do not have WAN connectivity.

Start Latest VM

Start VM as of

Adjust Resource Allotment

Configure Networking

Configure network adapters to be

HARDWARE NEEDED

In order to create an isolated environment, you'll need a separate network segment to allow for communication of the virtual machines to be created on an isolated subnet in order to gain internet access. The network circuit should be configured to act as a demilitarized zone (DMZ) and then be connected directly to the internet to gain WAN access.

You will need to create the default gateway on the router that is connected to the internet and have that assigned via the router interface.

You will also need a secondary cable to connect a secondary NIC of the device to this switch to act as the gateway.

STARTING THE VMs

First, you'll need to set the secondary NIC up on the device to act as a VirtualBox adapter. You'll want to set this as a secondary device with a second subnet.

IP Settings - Port 1 - eth0

IP Address:	<input type="text" value="10.0.68.122"/>
Netmask:	<input type="text" value="255.255.252.0"/>
Gateway:	<input type="text" value="10.0.68.1"/>
IP Mode:	<input type="radio"/> DHCP <input checked="" type="radio"/> Static

IP Settings - Port 2 - eth1

IP Address:	<input type="text" value="192.168.155.10"/>	✓ IP Available
Netmask:	<input type="text" value="255.255.255.0"/>	
Gateway:	<input type="text" value=""/>	
IP Mode:	<input type="radio"/> DHCP <input checked="" type="radio"/> Static <input type="radio"/> VirtualBox	
Port State:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	

Create the VM from the Local Virtualization tab as normal. Set it up to be bridged to a secondary ethernet device that will act as the gateway for the environment.

Start Latest VM

Start VM as of

[Adjust Resource Allotment](#)

[Configure Networking](#)

Configure network adapters to be <input type="text" value="Bridged to eth1"/>	<input type="button" value="Apply"/>
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Once the VMs are spun up, go in and configure their IP addresses to be on a separate subnet. Verify their connectivity between themselves and then check their connectivity to the internet.

