



UNIVERSITY OF
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Installation Guide for BGP and NTP Virtual Machines

Document Version: **05-06-2020**



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“CyberTraining CIP: Cyberinfrastructure Expertise on High-throughput
Networks for Big Science Data Transfers”

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Overview

This document provides guidance on performing the installation and configuration of the virtual machines corresponding to Network Tools and Protocols (NTP) and Border Gateway Protocol (BGP) on Oracle Virtual Box 6.0.

Hardware requirements

Table 1 specifies the hardware requirements to achieve the performance depicted in the labs.

Table 1. Hardware requirements.

	NTP	BGP
CPU	3 cores	2 cores
Memory	8 GB	8 GB
Hard Disk	15 GB	30 GB

You can reduce the hardware requirements in order to run the VM on your own computer. However, the performance might be compromised.

1 Installation

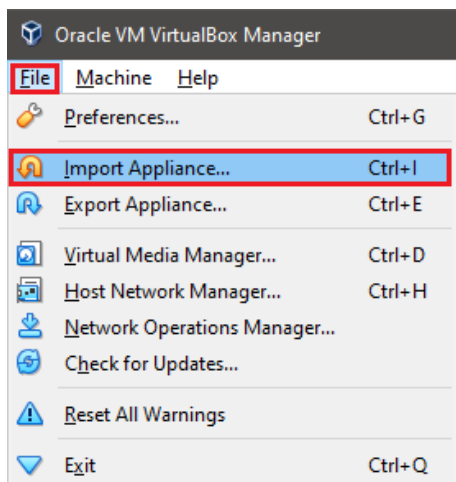
The following steps show how to install NTP VM on Oracle Virtual Box 6.0.

Step 1. Download and install Oracle Virtual Box 6.0.

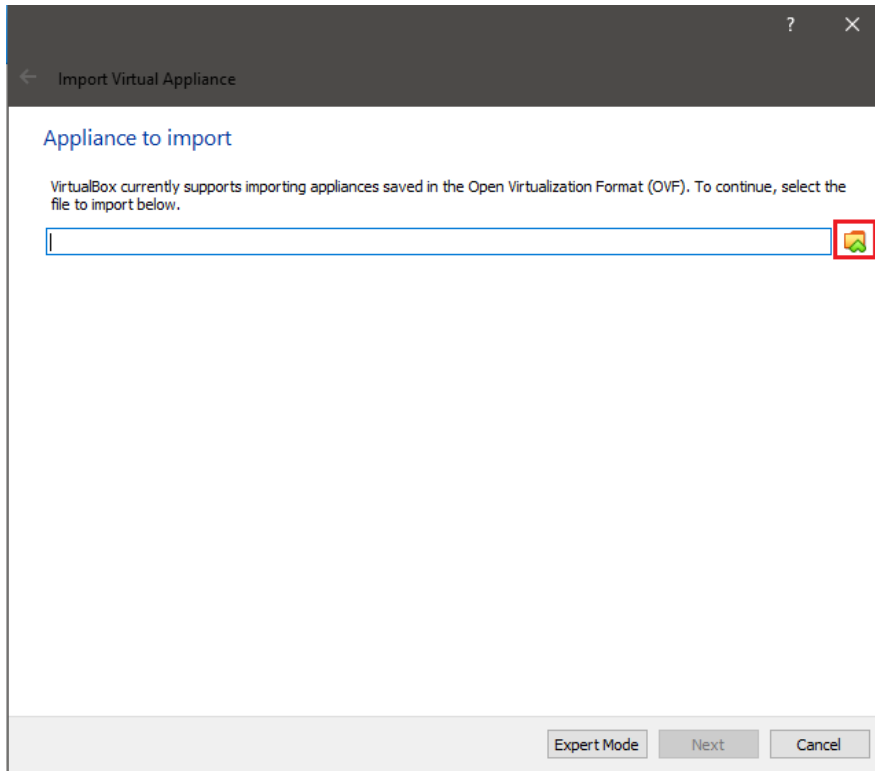
Step 2. Download the .ova file to be installed. In this example, NTP VM is installed.

Step 3. Open Oracle Virtual Box 6.0.

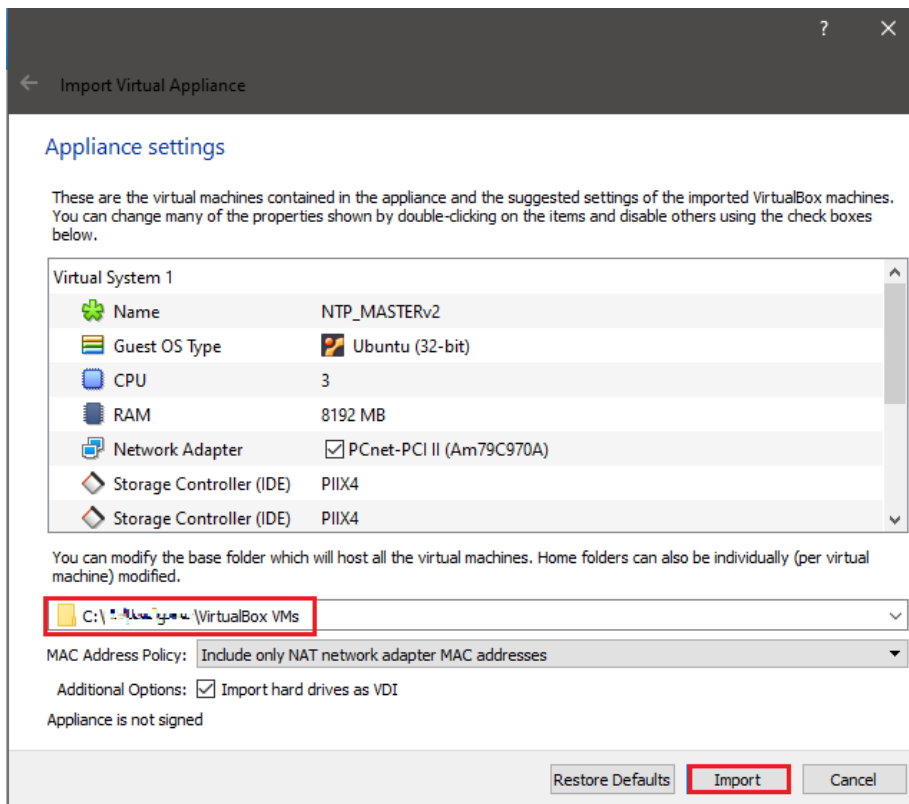
Step 4. Click on *File -> Import Appliance*



Step 5. Browse to the folder that contains the .ova file.



Step 6. Select the destination folder and click on *Import*. Wait until it finishes. This process takes about 5 minutes.



Step 7. Start the virtual machine by clicking on *Start*.



This concludes the installation guide.

References

1. Techjunkie, "How to use OVA files with VirtualBox". [Online]. Available: <https://www.techjunkie.com/ova-virtualbox/>.