Import *CSR1000v Router*

Objectives

Import the VirtualBox VM with Cisco IOS-XE

Required Resources

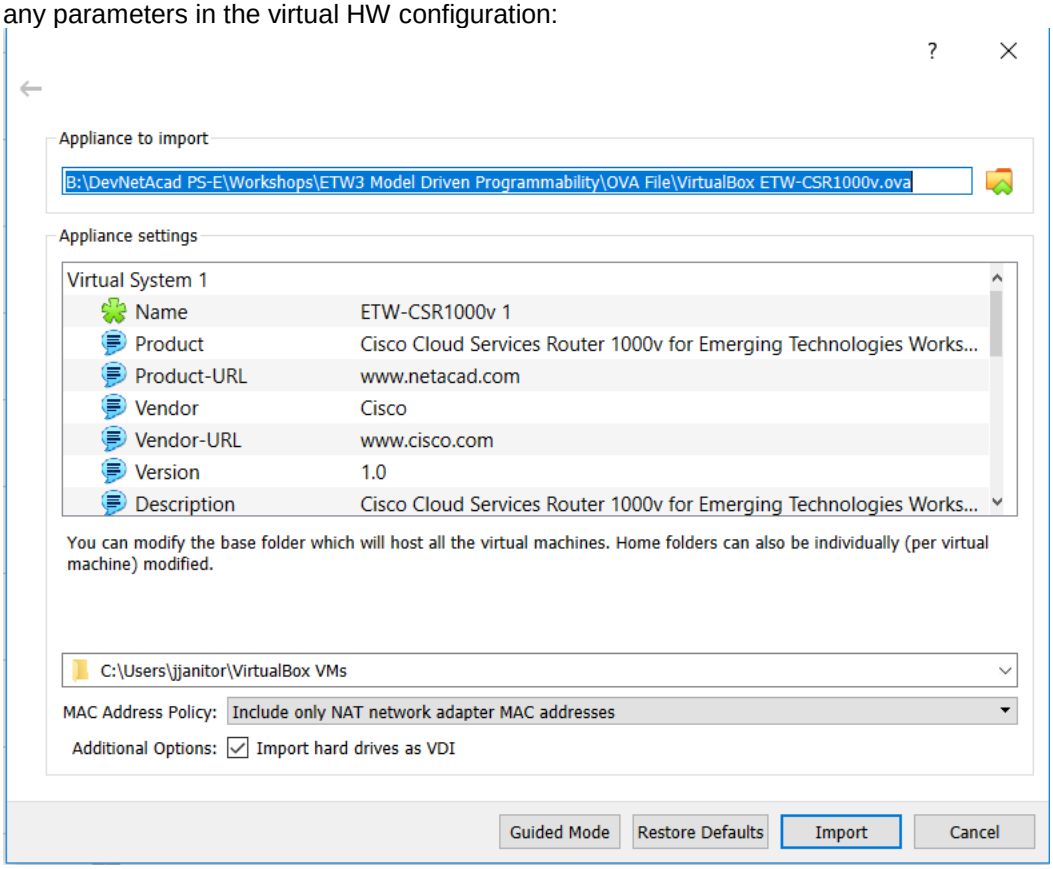
- Host computer with at least 4 GB of RAM and 15 GB of free disk space
- Oracle VirtualBox

Import the VirtualBox VM with Cisco IOS-XE

In this Cisco IOS-XE is running in a virtual machine directly on your x86 computer and requires at least 4GB of RAM.

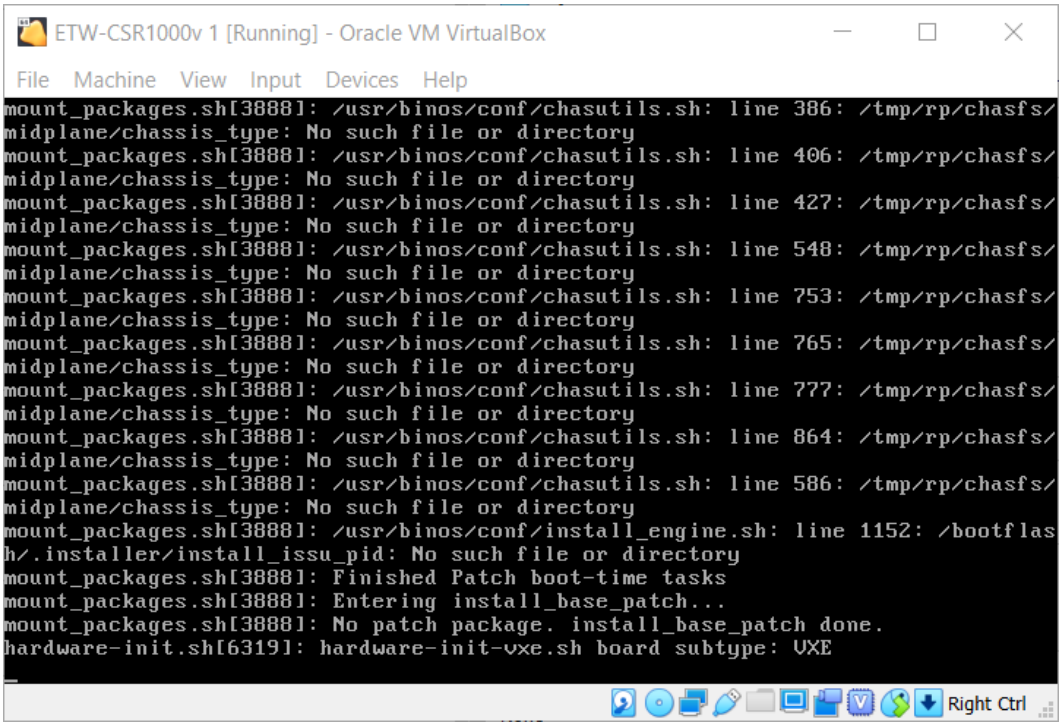
Step 1: Download the VM OVA file

1. Download the csr1000v-universalk9.16.09.04.iso and the *VirtualBox ETW-CSR1000v.ova* Virtual Machine template.
2. Import the OVA file into your VirtualBox environment. While importing the OVA file, do not change any parameters in the virtual HW configuration:



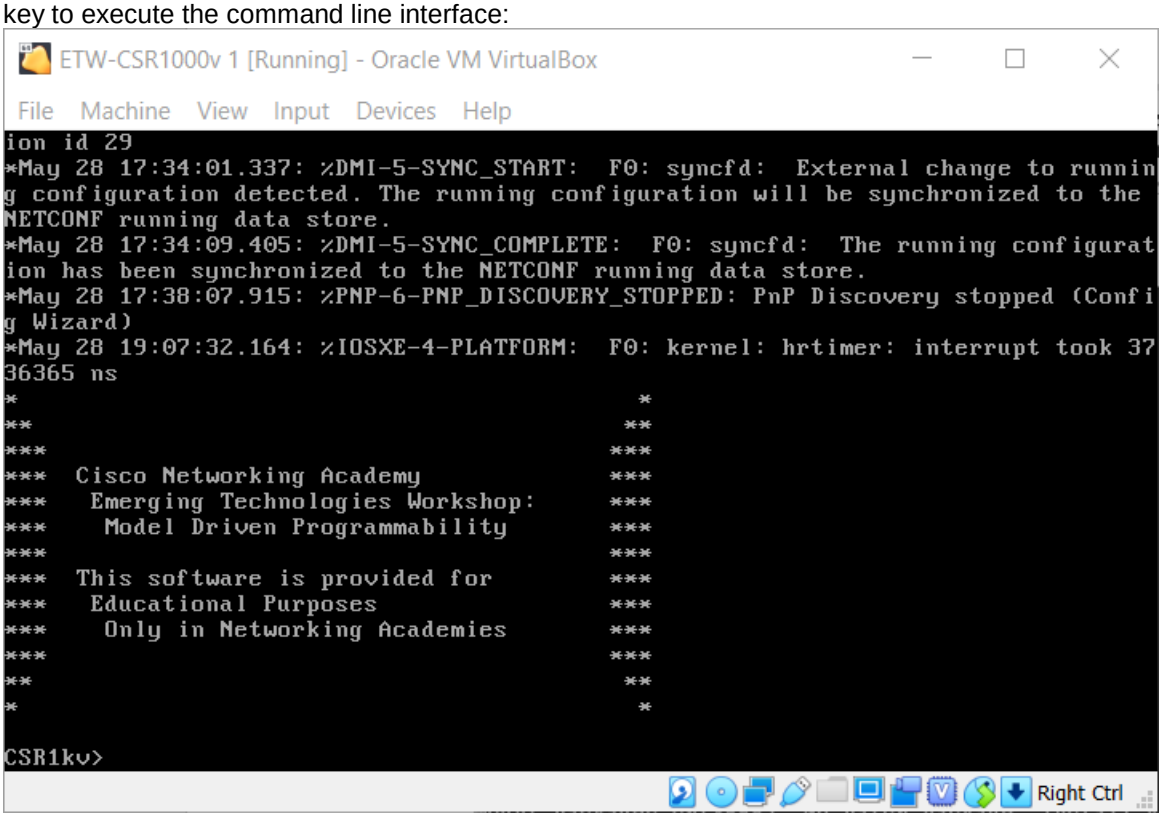
3. In the directory of the Virtual Machine (e.g. c:\Users\USER\VirtualBox VMs\ETW-CSR1000v) replace the "`csr1000v-universalk9-install.iso`" ISO file, with the CSR1000v ISO file downloaded from the previous instruction (e.g. `csr1000v-universalk9.XX.XX.XX.iso`).
Note: only instructors with a valid Academy Maintenance contract can download files from software.cisco.com.

4. Start the Virtual Machine and let it boot for the first time. During the first boot, the CSR1000v ISO file is used to install and setup the Virtual Machine with the Cisco IOS-XE software. The installation takes about 5-7 minutes to complete – please be patient and ignore the warning or error messages that might appear on the screen during the installation process.

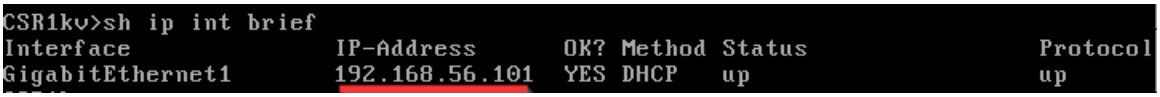


5. Once the installation has been completed, the Virtual Machine will restart and release the ISO file – you can then delete the "`csr1000v-universalk9-install.iso`" file to free up disk space.

6. The initial boot of the Virtual Machine with Cisco IOS-XE takes about 2-3 minutes. Press the Enter key to execute the command line interface:

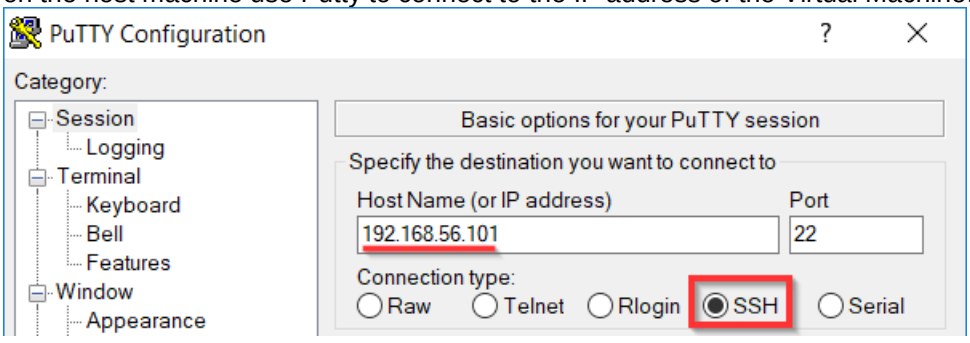


7. The Virtual Machine networking is configured to use the Host-Only network of your host machine. Using the command line interface, enter the "`sh ip int brief`" command to identify the router's current IP address:



Please take a note of the router's IP address, for it will be used in the next lab activities.

8. To connect from the host machine to the SSH service of Cisco IOS-XE router in the Virtual Machine, on the host machine use Putty to connect to the IP address of the Virtual Machine:



9. The Virtual Machine comes with an initial configuration that enables network programmability lab activities. For example, the NETCONF and RESTCONF API interfaces are pre-configured by default. The default pre-configured privilege 15 level username is `cisco` with the password `cisco123!`