## Lab 15: Install the CSR1000v VM

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| **// Download the CSR1000v ISO and OVA File**  1. Open any browser and navigate to the website using this link: **https://software.cisco.com/download/home/284364978/type/282046477/release/3.14.1S?catid=268437899** to download the Cisco CSR 1000v router ISO file. Click on the download icon in **Cisco CSR 1000v Series Advanced Enterprise** to start downloading of iso file.    2. Then go to the website using this link: **https://drive.labhub.eu.org/0:/OVA/DEVASC\_CSR1000v/** to download the Cisco CSR 1000v router OVA file. Click on the **CSR1000v\_VirtualBox.ova** download icon to start downloading an OVA file. |

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| **// Install the CSR1000v VM in VirtualBox**  1. Open Oracle VirtualBox. Click on the **File.** Then click on the **Import Appliance…**    2. Click on the **File** icon to import the OVA file of the Cisco CRS 1000v router.    3. Select the **CSR1000v\_for\_VirtualBox** OVA file. Then click on the **Open** button.    4. Click on the **Finish** button.    5. The appliance is imported successfully. Select the **CSR1000v** VM. Click on the **Settings** icon.    6. Click on the **Storage**.    7. Replace the first CD drive **csr1000v-universalk9-install\_for\_VirtualBox.iso** with the iso file of Cisco CSR 1000v we downloaded earlier.    8. In **Attributes,** click on the **CD icon**. Then click on the **Choose a disk file…**    9. Select the **csr1000v-universalk9.03.14.01.S.155-1.S1-std** iso file. Click on the **Open** button.    10. Click on the **OK** button to save the changes.    11. Select the **CSR1000v** VM. Click on the **Settings** icon.    12. Click on the **Network**. In the **Attached to** select the **Host-only Adapter**. In the **Adapter Type,** select **Intel PRO/1000 MT Desktop (82540EM)**. Click on the **OK** button to save changes.    12. Select the **CSR1000v** VM. Click on the **Start** icon to turn on the VM.    13. Press any key on your keyboard to continue the process.    14. Select **CSR 1000v Autodetect (Serial ,VGA) Console** option and press **Enter**.    15. The installation process begins it takes time to complete the process.    16. When installation is completed, your screen should show the startup configuration of the Cisco CSR 1000v router. |

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| **// Initial Configuration in Cisco CSR 1000v Router**  1. Execute the below-provided commands to configure DHCP on the interface.   |  | | --- | | enable  configure terminal  interface gigabitethernet1  ip address dhcp  no shutdown |     2. Execute the following command: **show ip interface brief** to verify that the interface has taken an IP address via DHCP.    3. Execute the below-provided commands to enable SSH in the Cisco CSR 1000v router.   |  | | --- | | configure terminal  crypto key generate rsa  ip ssh version 2  line vty 0 4  transport input ssh  login local  username cisco password cisco123! |     4. Turn on the **Ubuntu** VM and open the **Terminal** window, and execute the following command: **ping <IP\_Address>**. To verify that the Cisco CSR 1000v router is communicating properly with the Ubuntu VM.    5. Execute the following command: **ssh cisco@<IP\_Address>** to SSH into Cisco CSR 1000v router. Use the password **cisco123!** to authenticate. Notice that you are automatically in privileged EXEC mode. Execute the **exit** command to end the SSH session. |