

# **Create Azure Red Hat Virtual Machine with SSH Key** **(Portal)** **(LAB-300-01A-11)**

## **Part A: Create SSH Key**

1. Install Putty in your local Desktop/ Laptop (Windows 10)
2. Browse "[www.putty.org](http://www.putty.org)"
3. Click on "**You can download PuTTY here**" under "**Download PuTTY**"
4. Download "**MSI Installer**" (32-bit or 64-bit as per your local desktop/ laptop OS version) "**Under Package files**".
5. Install "**MSI Installer**"
6. In the local Desktop/ Laptop (Windows 10), right click on "**Start**" & "**Run**"
7. In the open, write "**puttygen.exe**" generator
8. In the "**Parameters**" section, choose "**RSA**" & "**No. of bits in generated key**" should be "**2048**"
9. In the "**Action**" section, press "**Generate**"
10. Move your mouse randomly in the small screen in order to generate the key pairs.
11. Click "**Save private key**" to save your private key. If it prompts you any warning messages, select "**Yes**"
12. Give File name & Save
13. In the "**Key**" section, copy "**Public key**" in notepad & save. Public key should be started with "**ssh-rsa .....**"

## **Part B: Create Azure Red Hat Virtual Machine**

1. Log in to Azure with your administrative credentials.
2. Click the **virtual machines** link in the left-hand navigation bar.
3. Click the **add** button to start the creation process.

4. You will be required to fill in specific information regarding your virtual machine, including:

- a. **Subscription:** Select default subscription group
- b. **Resource Group:** Provide resource group name
- c. **Name:** Provide virtual machine name
- d. **Region:** Select region
- e. **Image:**
  - i. Dropdown the Images Menu & Select "**Enterprise Red Hat Linux 7.x**" or latest version
  - ii. If dropdown menu not shows Red Hat Image
    - Select "**Browse all image ....**"
    - Select "**Compute**"
    - Search "**Enterprise Red Hat Linux 7.x**"
    - Select "**Enterprise Red Hat Linux 7.x**"
- f. **Size:**
  - I. Select "**Search**"
  - II. Select "**Appropriate size for the virtual machine**"
- g. **Administrator Account:**
  - i. Authentication type "**SSH public key**"
  - ii. Provide "**Username**"
  - iii. Provide SSH Public key in "**SSH public key**"
- h. **Inbound Port Rules:**
  - i. Select "**Allow selected ports**"
  - ii. Select
    - **Port 22**

5. Click the "**Next: Disks**" button to continue.

6. Click the "**Next: Networking**" button to continue.

7. Click the "**Next: Management**" button to continue.

8. Click on the "**Next: Guest**" config to continue.

9. Click the "**Next: Tags**" button to continue.

10. Click the "**Next: Review + create**" button to continue.

11. Click the "**Create**" button.

## **Part C: Connecting to Azure Red Hat VM Using PuTTY**

### **From Windows 10**

1. From the Azure Portal, go to the left menu, select Virtual Machines.
2. Select the Azure Red Hat virtual machine from the list.
3. On the right side of the page copy "**Public IP Address**"
4. In the local Desktop/ Laptop (Windows 10), right click on "**Start**" & "**Run**"
5. In the open, write "**putty.gen**", it will open the PuTTY window
6. In the **Category** pane, expand **Connection**, expand **SSH**, and then choose **Auth**. Complete the following:
  - a. Choose "**browse**"
  - b. Select the "**.ppk**" file that you generated for your key pair, in the Part A, Step 11 & 12
  - c. In the Category pane, select "**Session**"
  - d. Under Host Name, provide "**Public IP Address**" of Azure Red Hat VM. Port should be "**22**"
  - e. Choose "**Open**" to start the PuTTY session.
  - f. If PuTTY displays a security alert dialog box that asks whether you trust the host you are connecting to, choose Yes. A window opens and you are connected to your instance
  - g. Provide Azure Red Hat VM "**username**" to login, which you have provided in Part B, Step 4.g