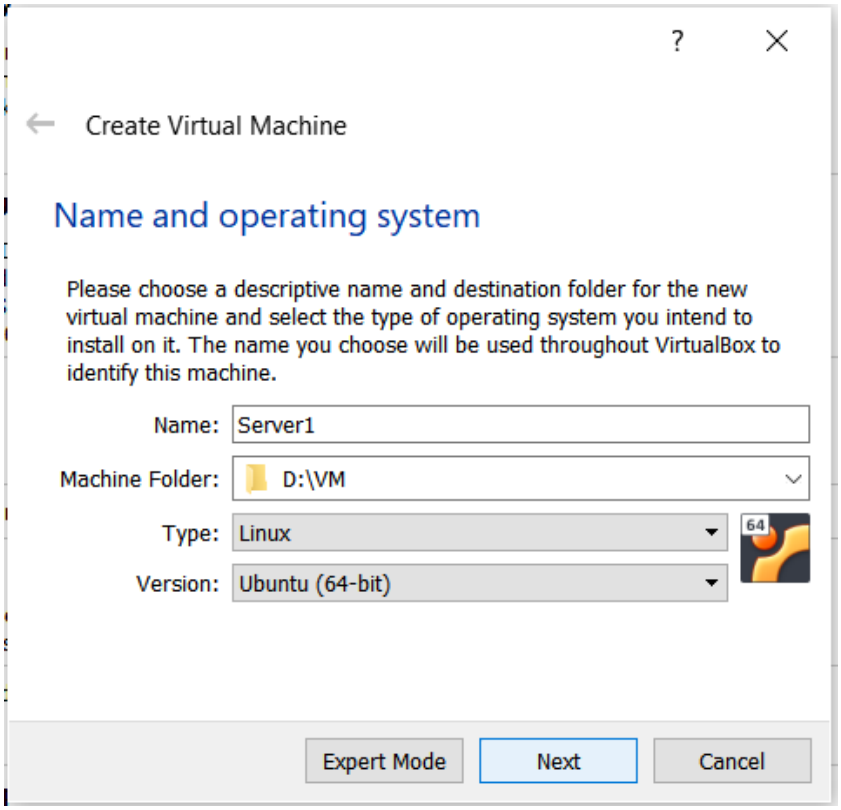
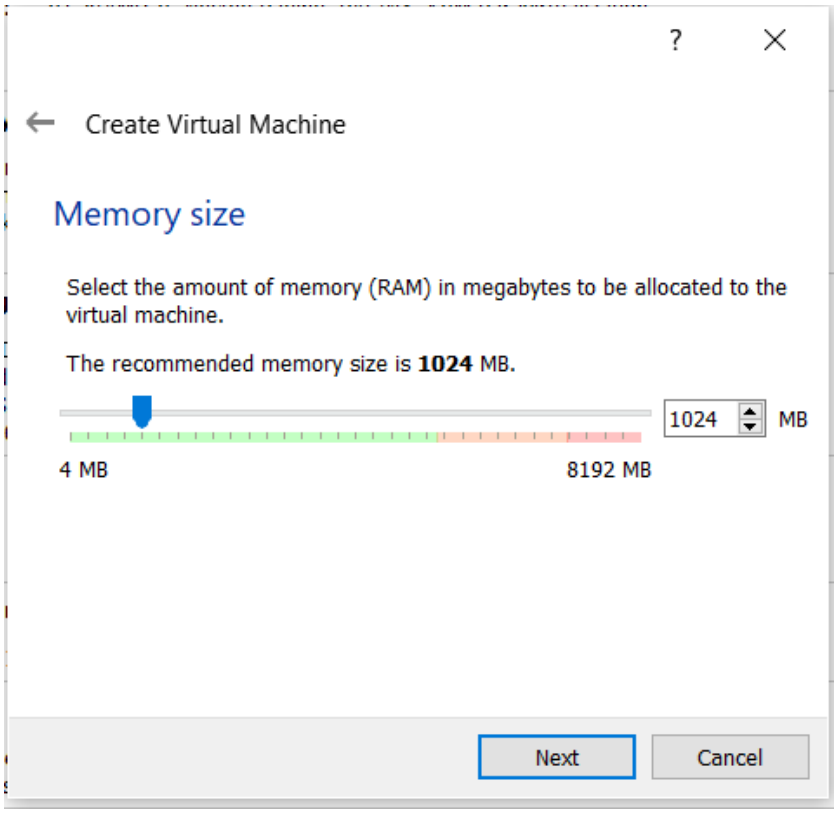
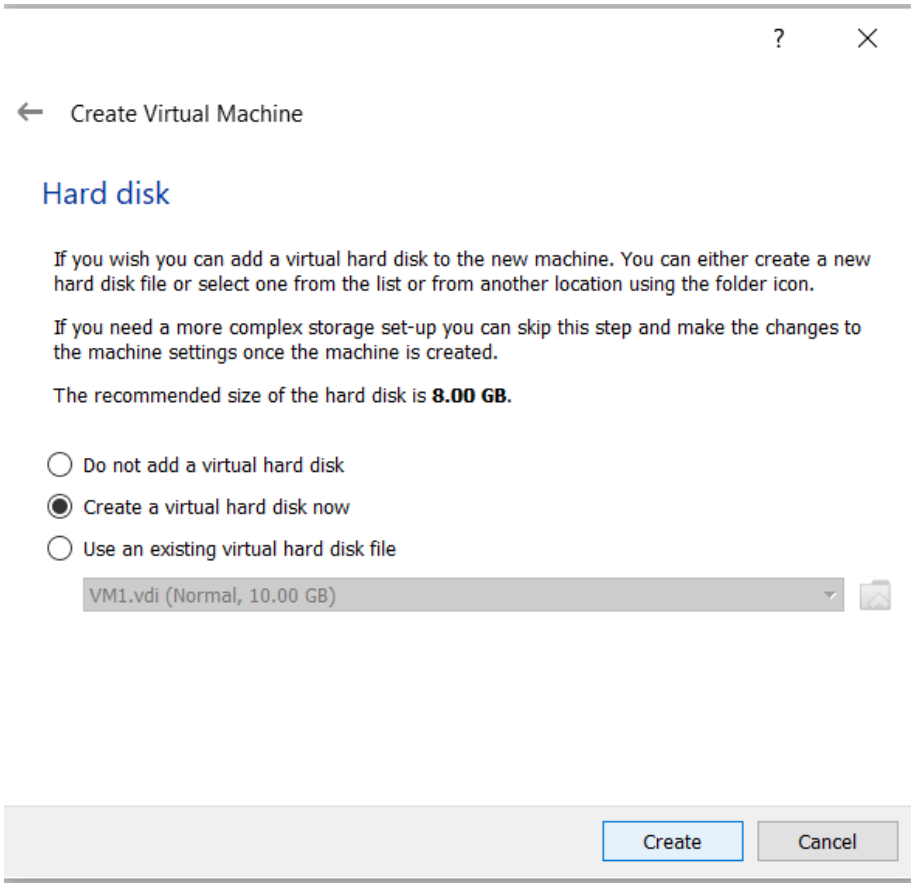
Ex.No.3 Remote Login into a VM

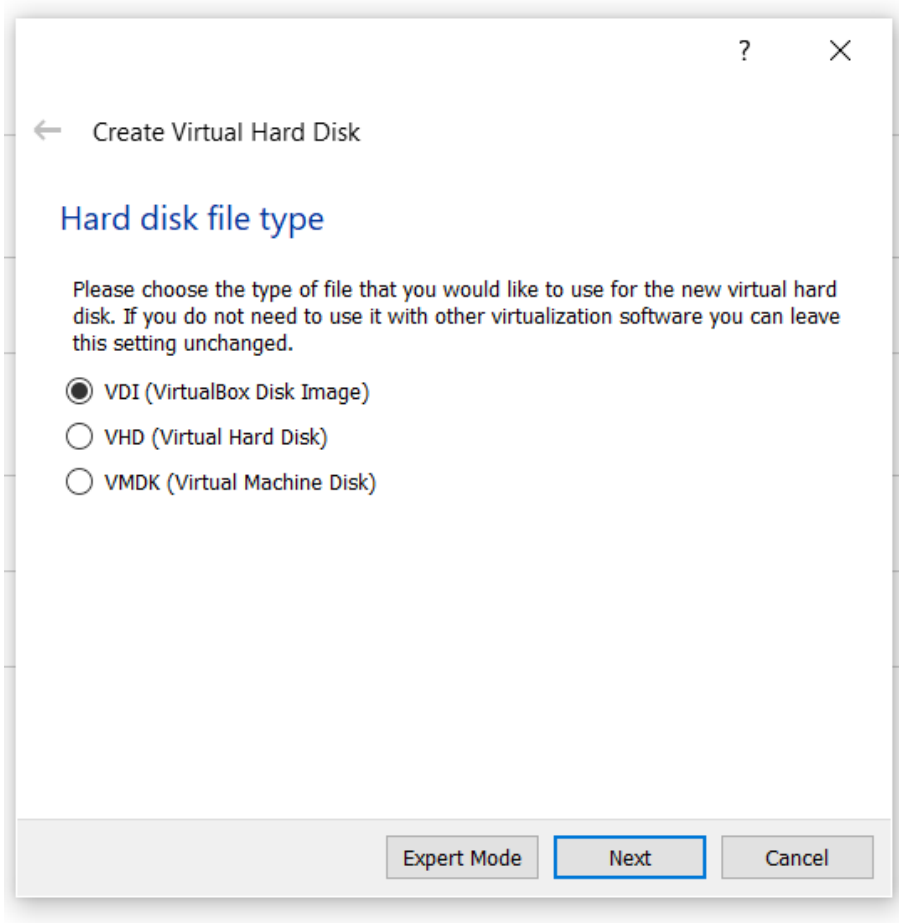
1. Create two VMs and install Ubuntu 16.04 server

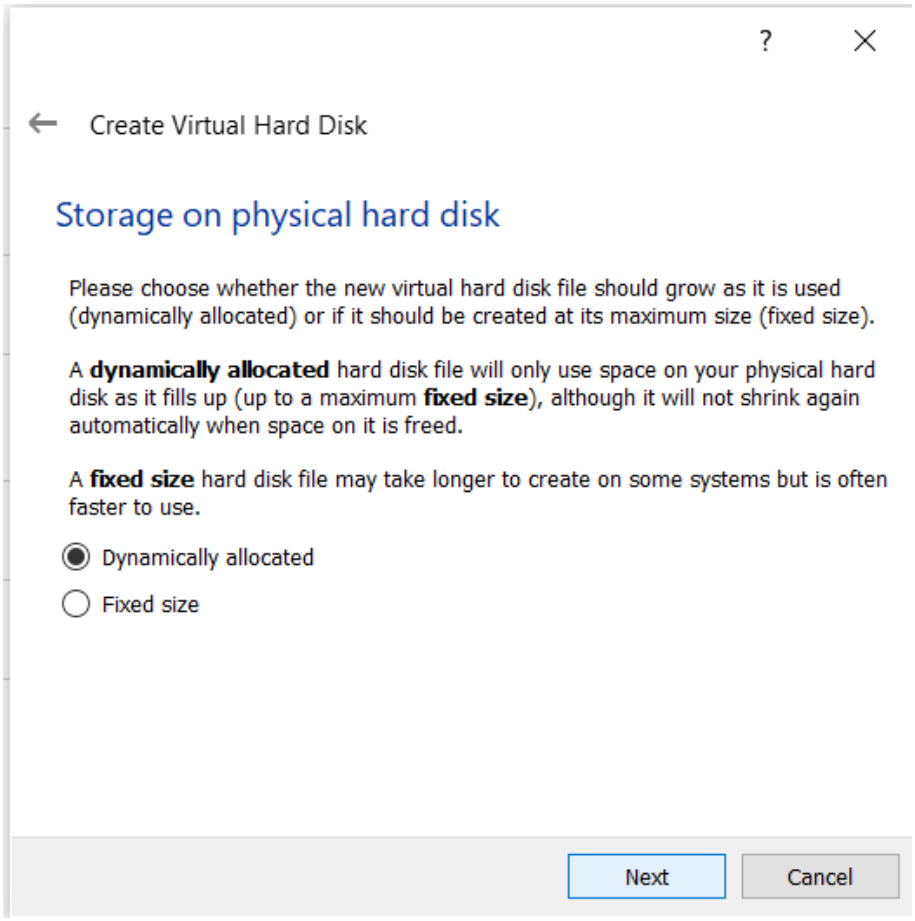
Creation of Server1:

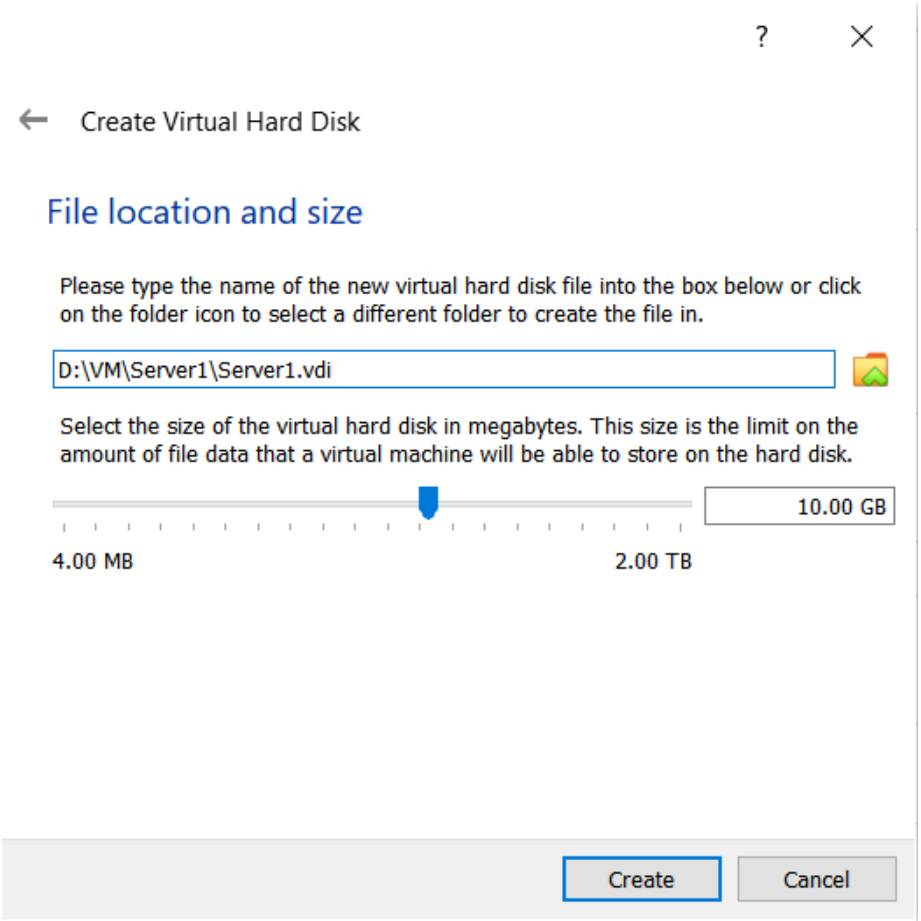




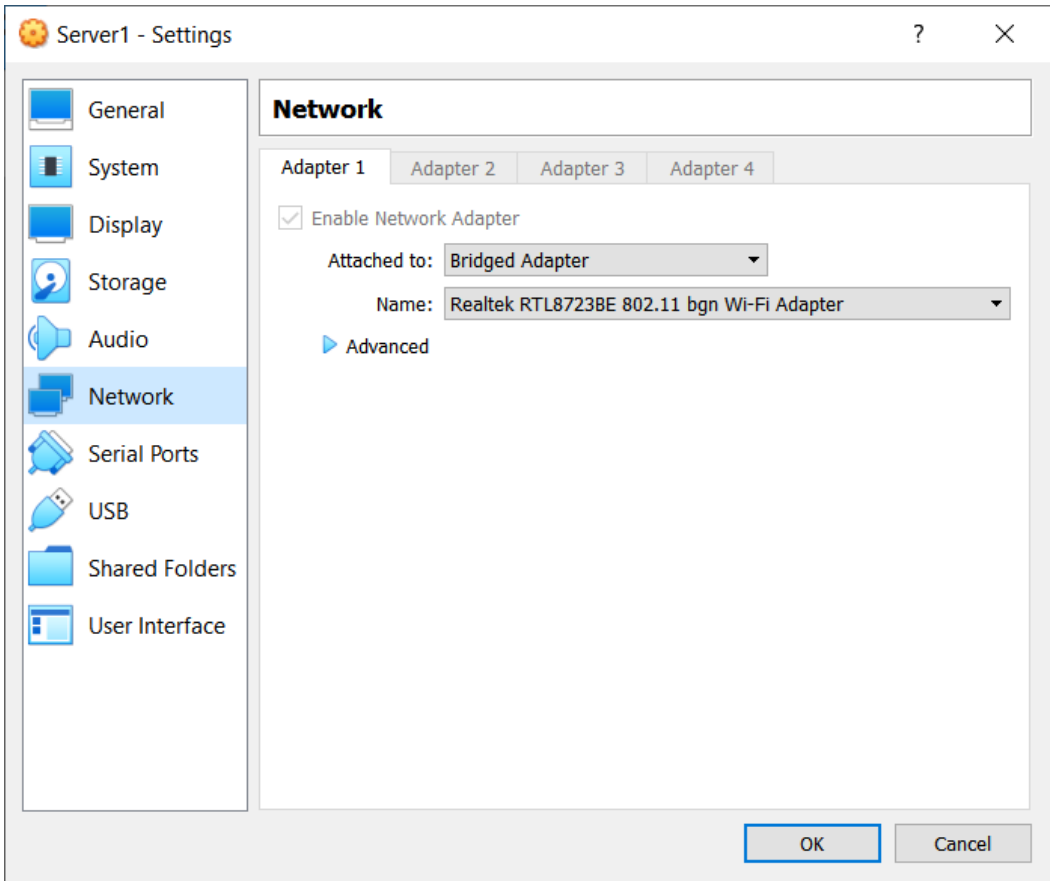

Create Virtual Machine
Hard disk
If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.
If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.
The recommended size of the hard disk is 8.00 GB.
Do not add a virtual hard disk
Create a virtual hard disk now
Use an existing virtual hard disk file
VM1.vdi (Normal, 10.00 GB)
Create
Cancel

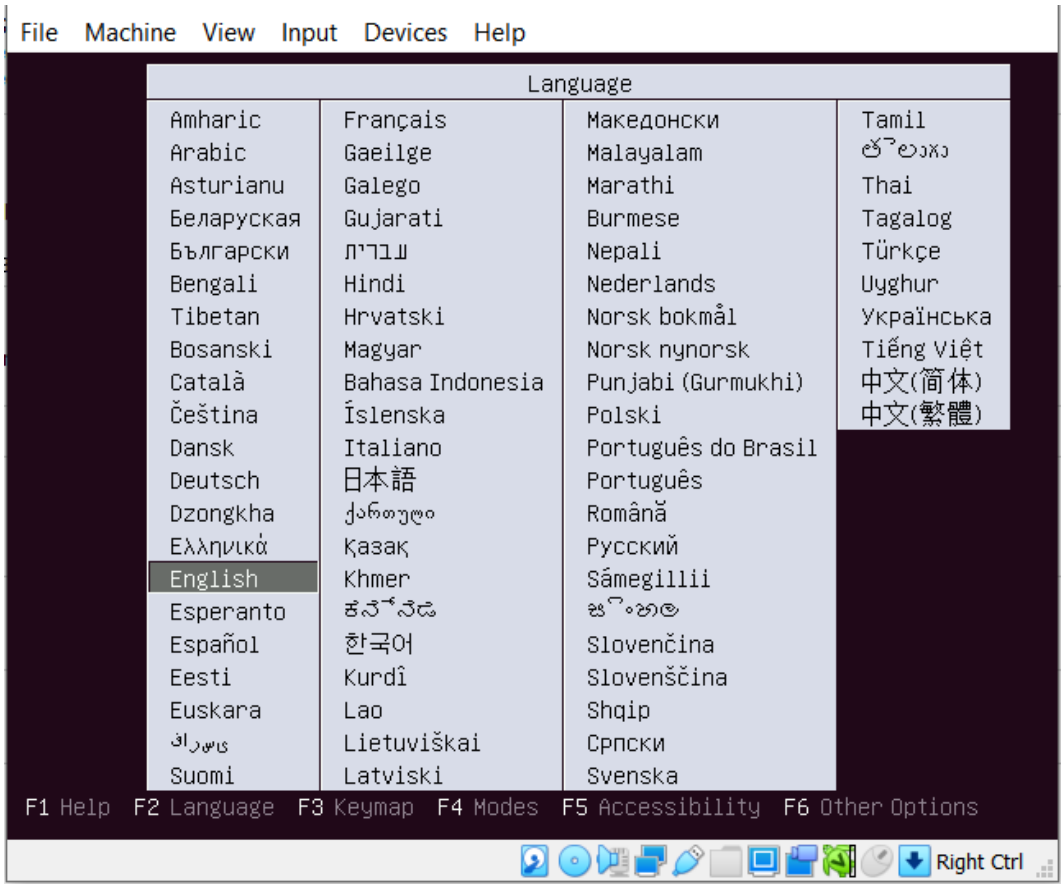

Create Virtual Hard Disk
Hard disk file type
Please choose the type of file that you would like to use for the new virtual hard disk. If you do not need to use it with other virtualization software you can leave this setting unchanged.
VDI (VirtualBox Disk Image)
VHD (Virtual Hard Disk)
VMDK (Virtual Machine Disk)
Expert Mode
Next
Cancel

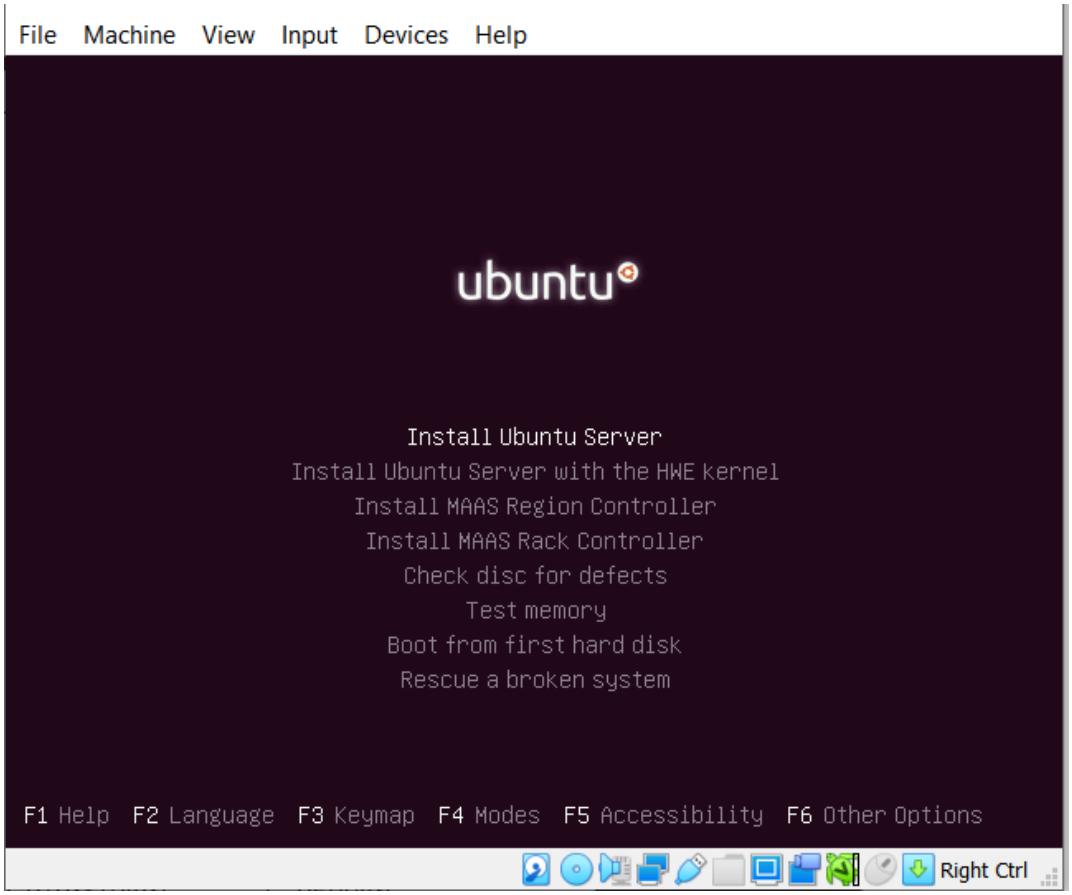

Create Virtual Hard Disk
Storage on physical hard disk
Please choose whether the new virtual hard disk file should grow as it is used (dynamically allocated) or if it should be created at its maximum size (fixed size).
A dynamically allocated hard disk file will only use space on your physical hard disk as it fills up (up to a maximum fixed size), although it will not shrink again automatically when space on it is freed.
A fixed size hard disk file may take longer to create on some systems but is often faster to use.
Dynamically allocated
Fixed size
Next
Cancel

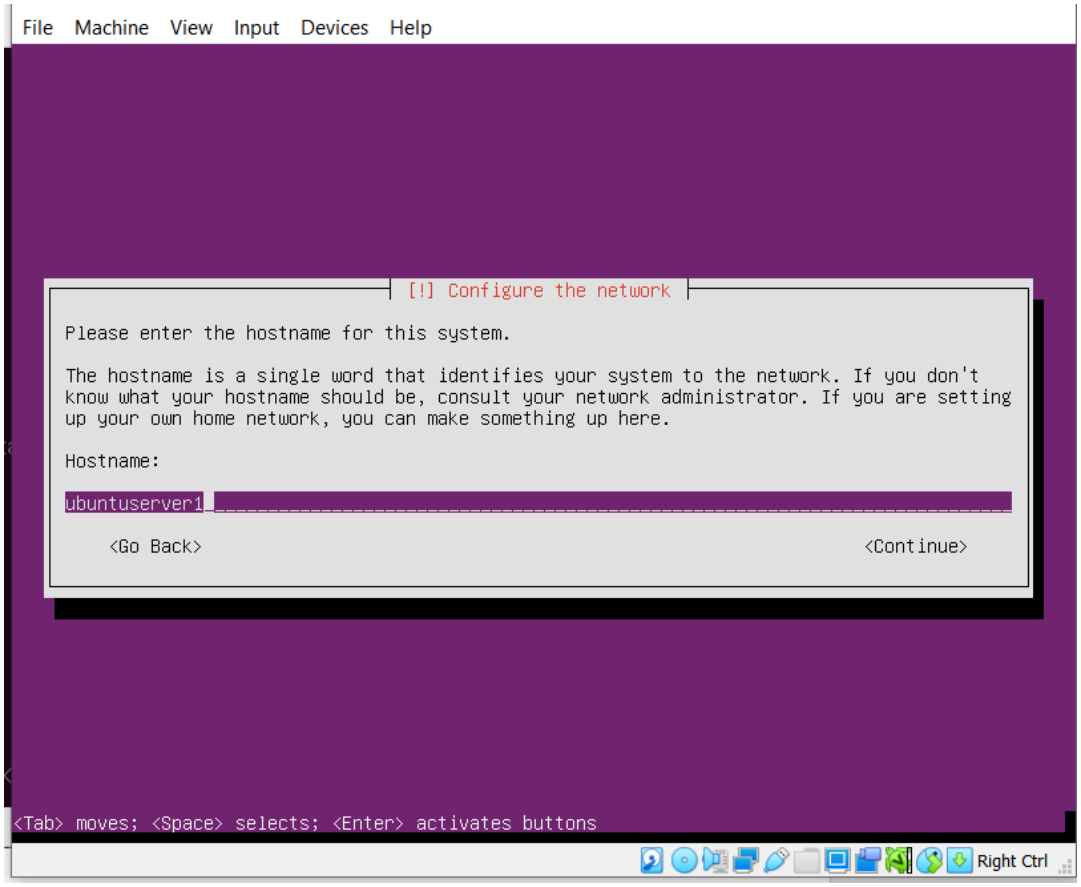

Create Virtual Hard Disk
File location and size
Please type the name of the new virtual hard disk file into the box below or click on the folder icon to select a different folder to create the file in.
D:\VM\Server1\Server1.vdi
Select the size of the virtual hard disk in megabytes. This size is the limit on the amount of file data that a virtual machine will be able to store on the hard disk.
10.00 GB
4.00 MB
2.00 TB
Create
Cancel

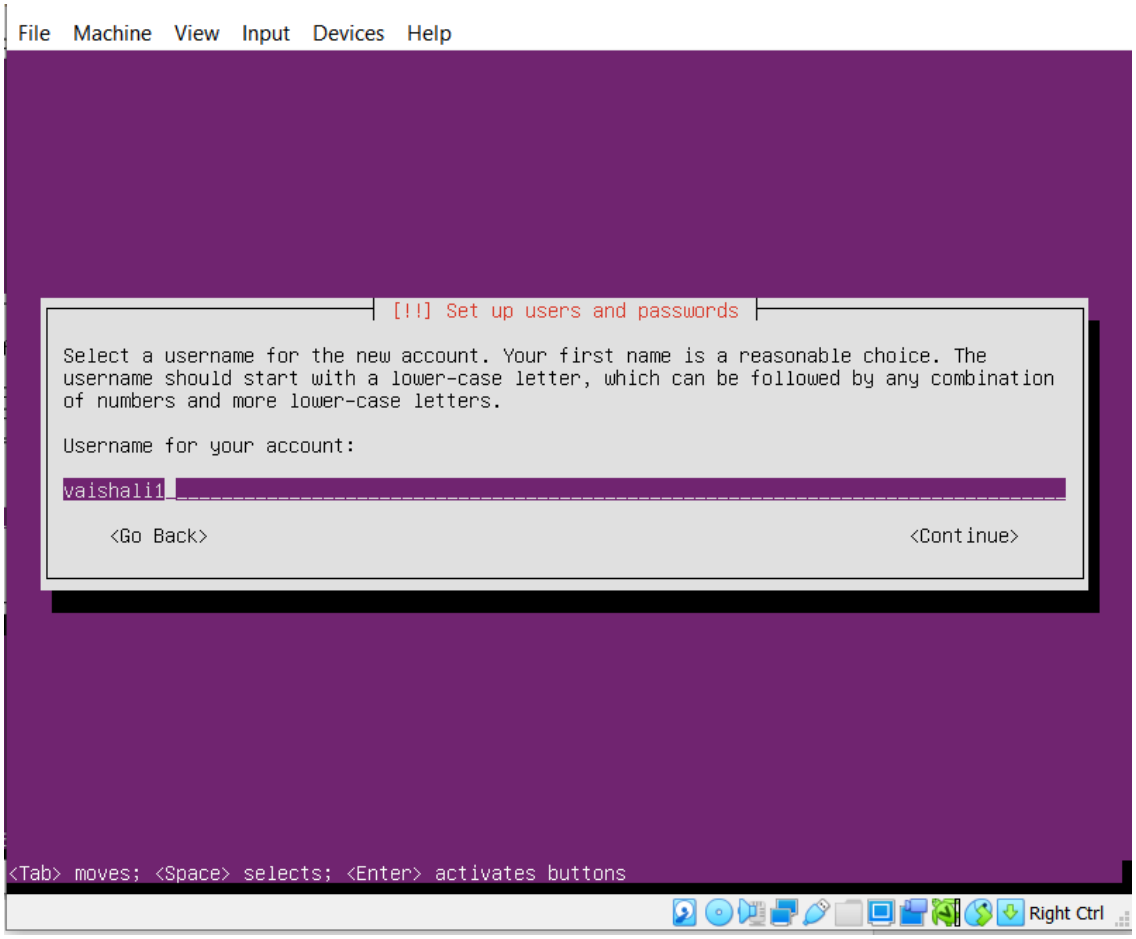
Change the network settings to Bridged adapter

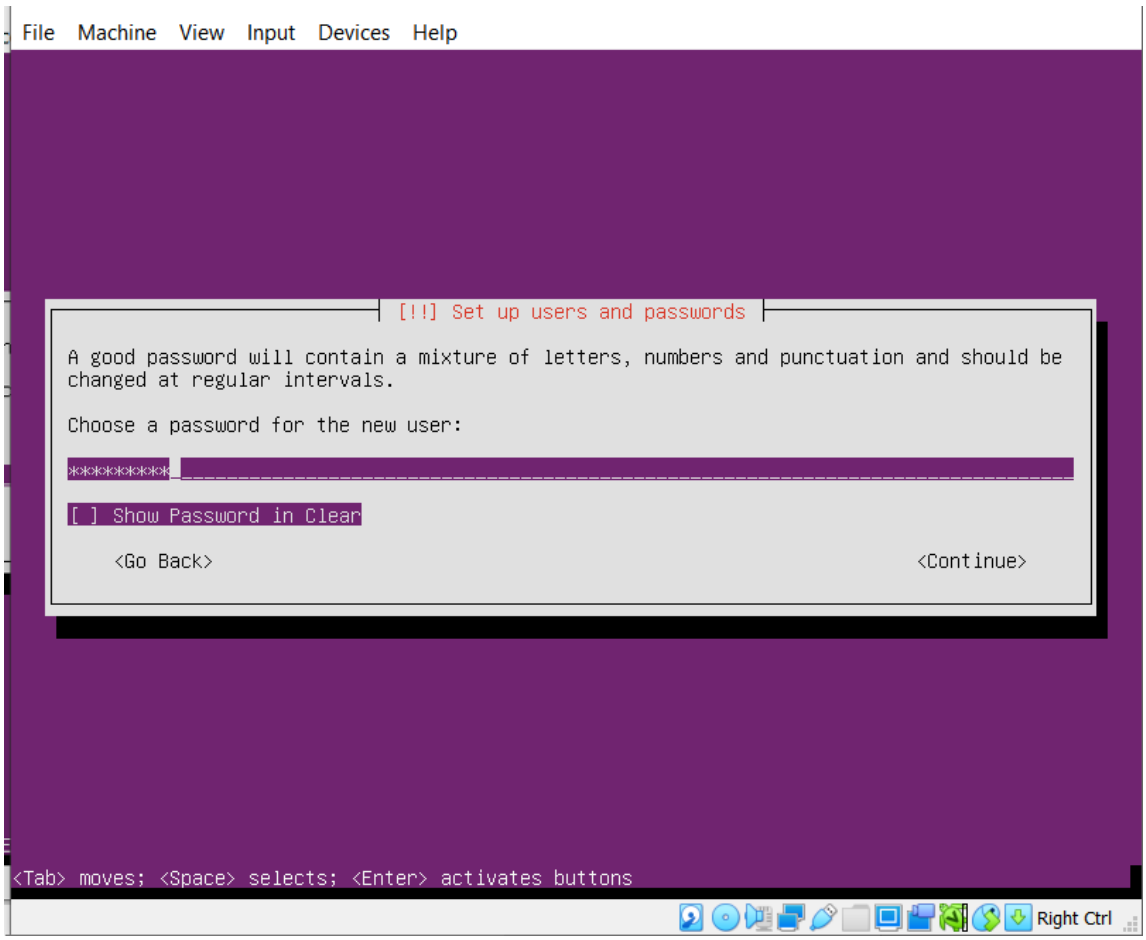




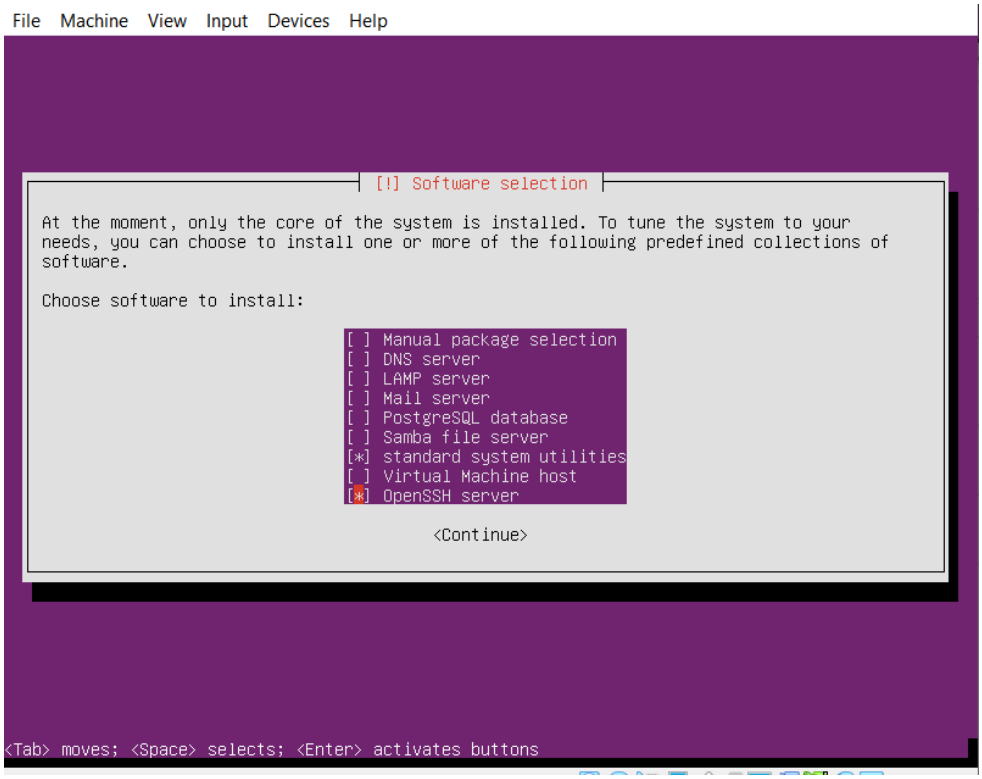

File Machine View Input Devices Help
ubuntu
Install Ubuntu Server
Install Ubuntu Server with the HWE kernel
Install MAAS Region Controller
Install MAAS Rack Controller
Check disc for defects
Test memory
Boot from first hard disk
Rescue a broken system
F1 Help F2 Language F3 Keymap F4 Modes F5 Accessibility F6 Other Options
Right Ctrl


File Machine View Input Devices Help
[!] Configure the network
Please enter the hostname for this system.
The hostname is a single word that identifies your system to the network. If you don't know what your hostname should be, consult your network administrator. If you are setting up your own home network, you can make something up here.
Hostname:
ubuntuserver1
<Go Back>
<Continue>
<Tab> moves; <Space> selects; <Enter> activates buttons
Right Ctrl


File Machine View Input Devices Help
[!!] Set up users and passwords
Select a username for the new account. Your first name is a reasonable choice. The username should start with a lower-case letter, which can be followed by any combination of numbers and more lower-case letters.
Username for your account:
vaishali1
<Go Back>
<Continue>
<Tab> moves; <Space> selects; <Enter> activates buttons
Right Ctrl

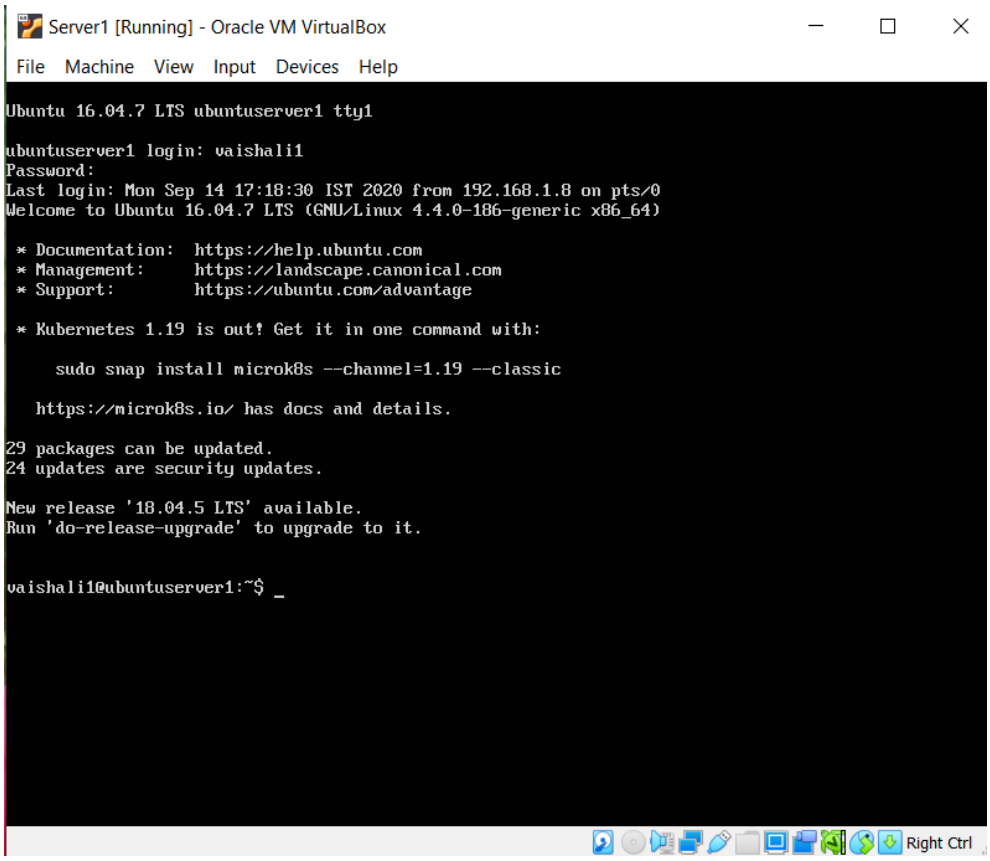

File Machine View Input Devices Help
[!!] Set up users and passwords
A good password will contain a mixture of letters, numbers and punctuation and should be changed at regular intervals.
Choose a password for the new user:
****
[ ] Show Password in Clear
<Go Back>
<Continue>
<Tab> moves; <Space> selects; <Enter> activates buttons
Right Ctrl

Installation of Open SSH



VM1

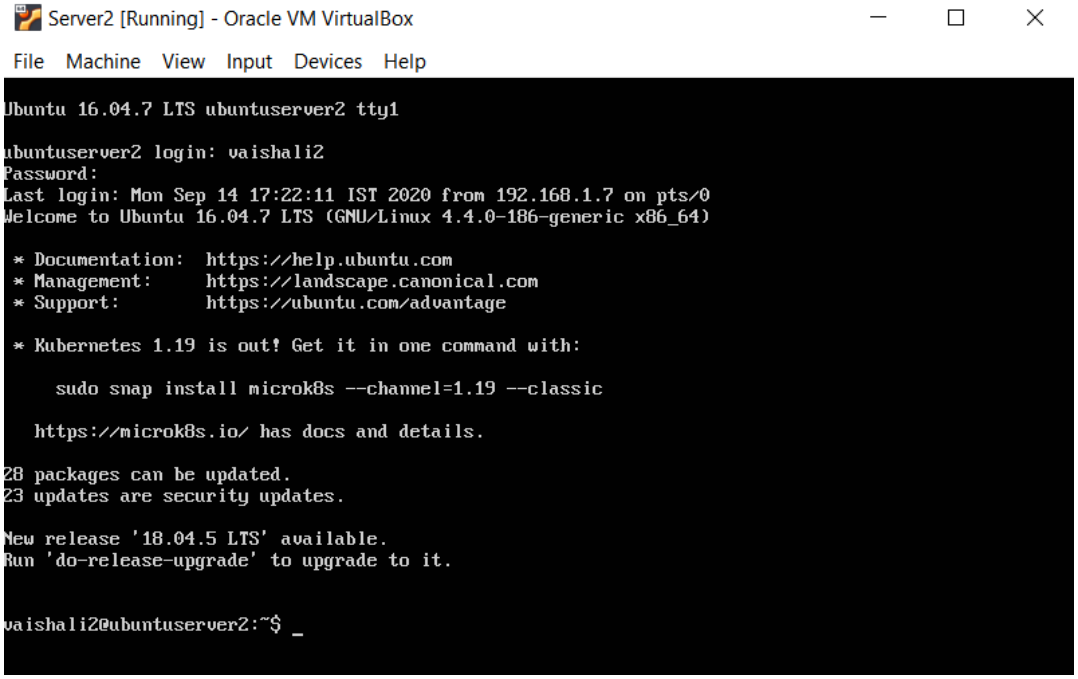
Hostname: ubuntuserver1
Username:vaishali1



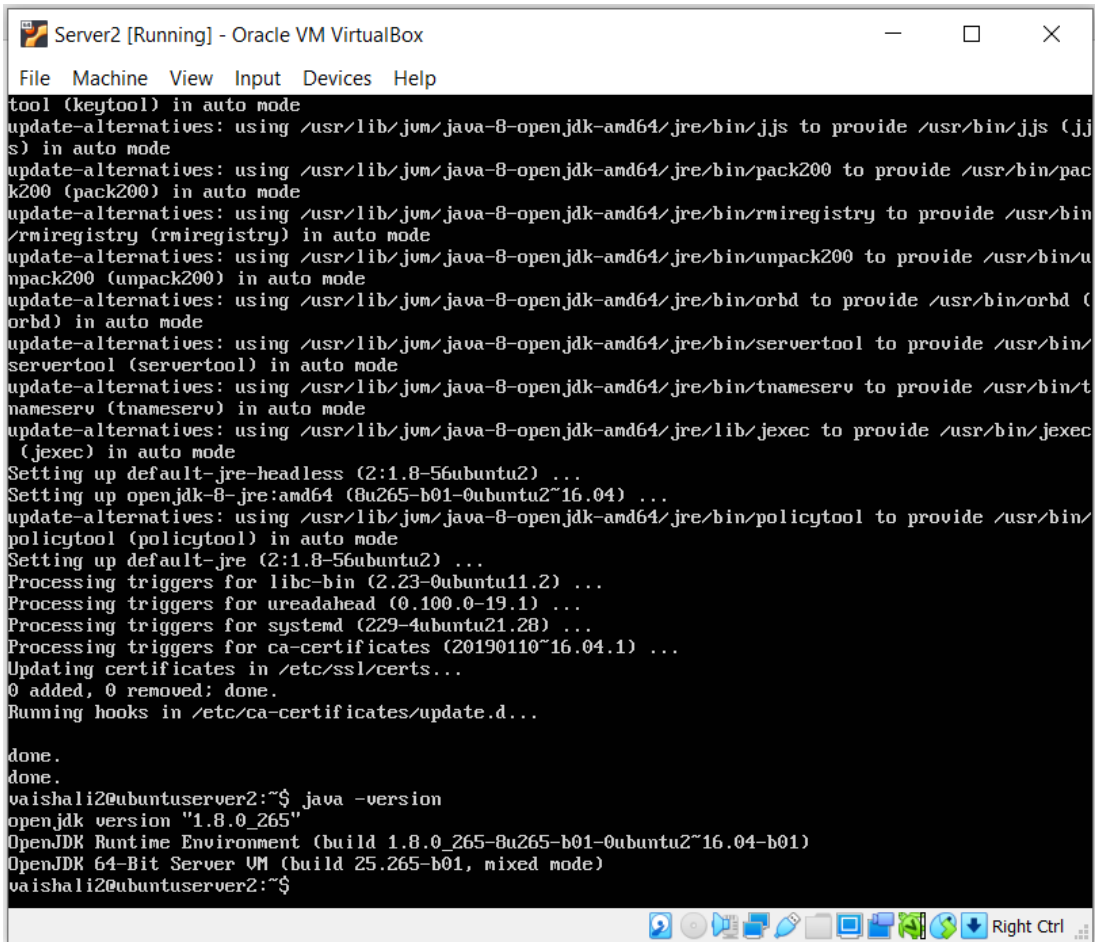
Similarly another VM is created and Ubuntu 16.04 server is installed.

VM2

Hostname: ubuntuserver2
Username:vaishali2

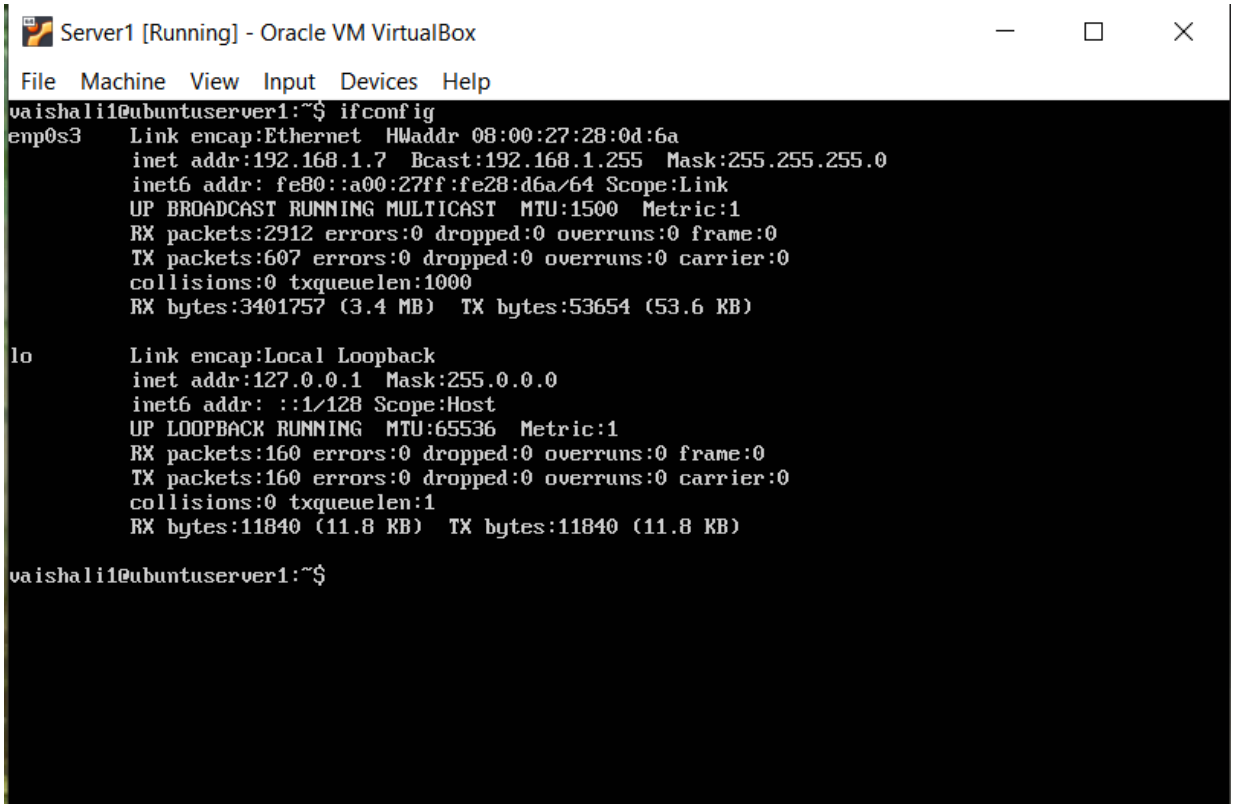


JDK installation in VM2



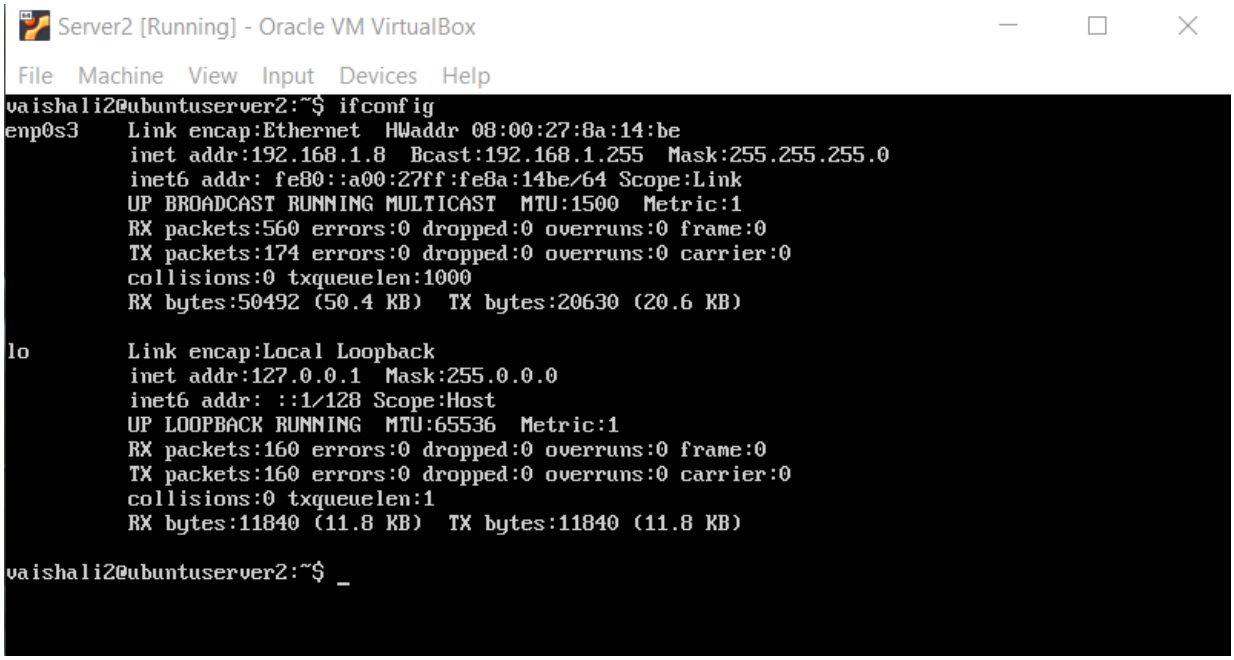
ifconfig in VM1

IP address of VM1 is 192.168.1.7



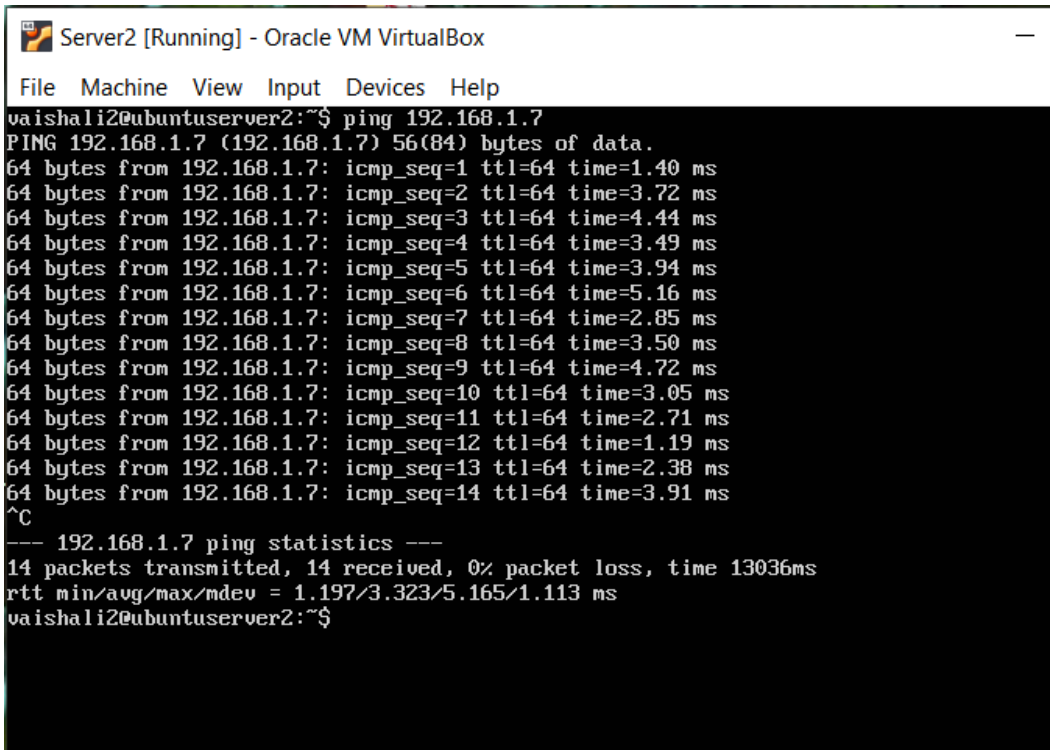
ifconfig in VM2

IP address of VM1 is 192.168.1.8

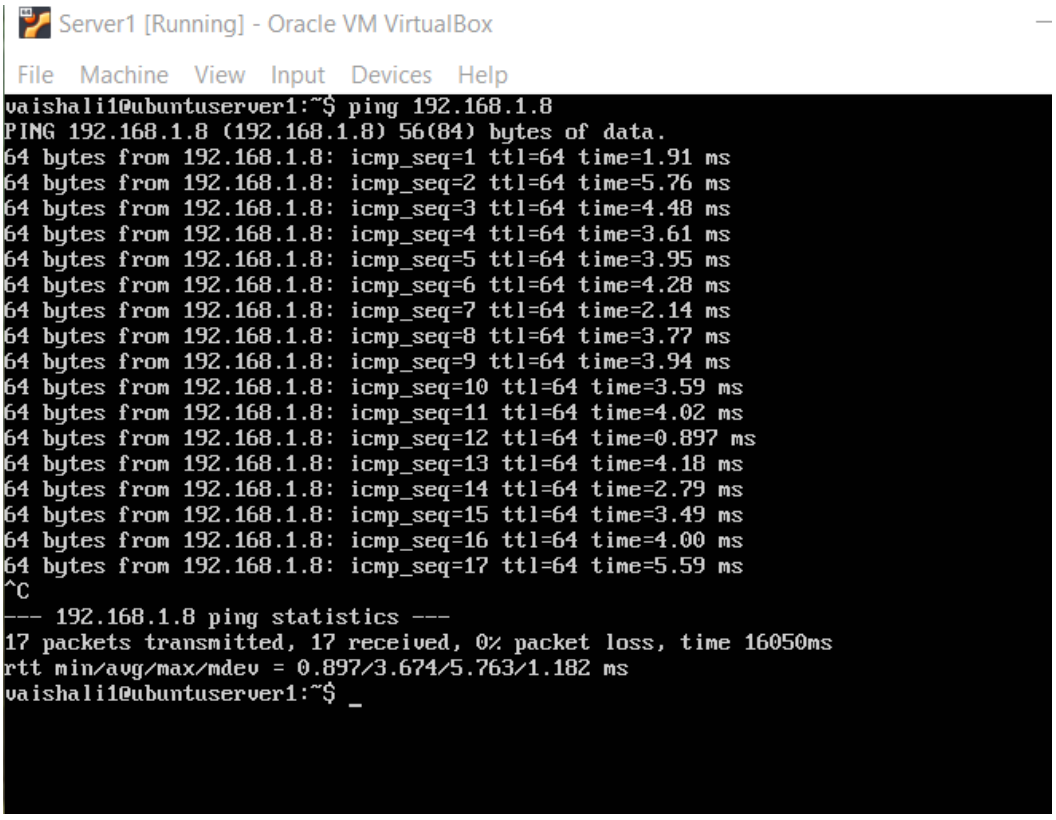


2. Remote login with password

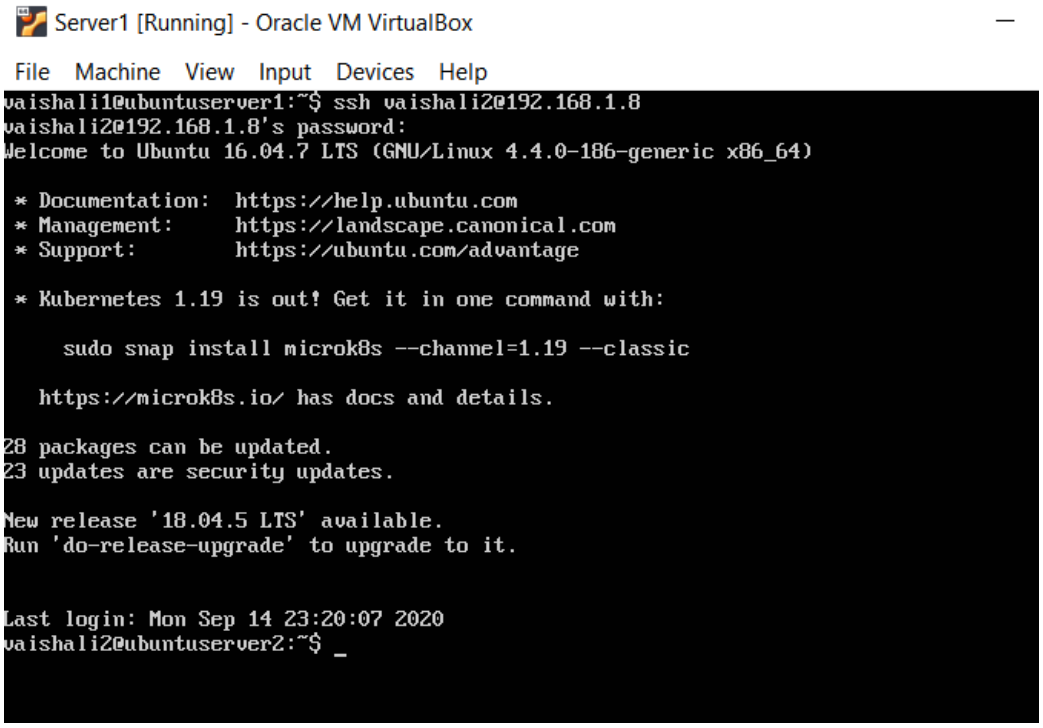
- Ping VM1 from VM2



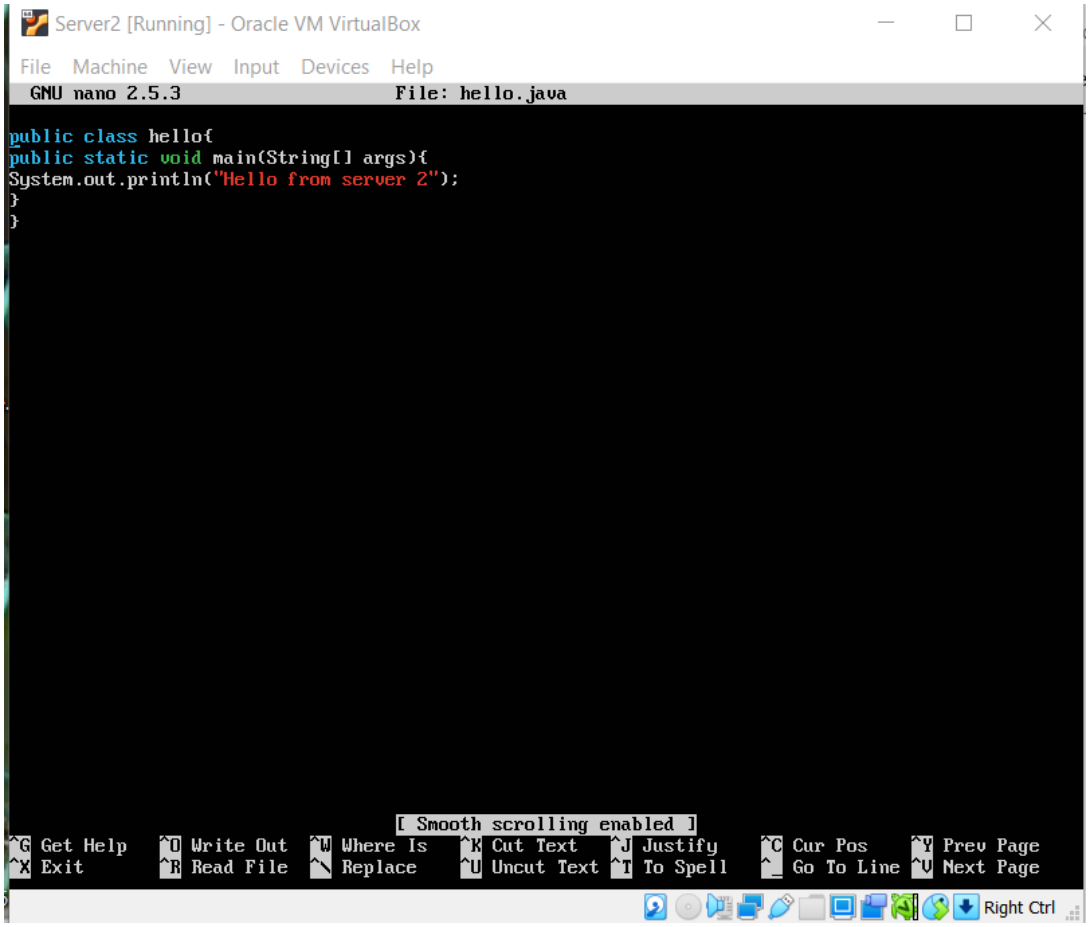
- Ping VM2 from VM1



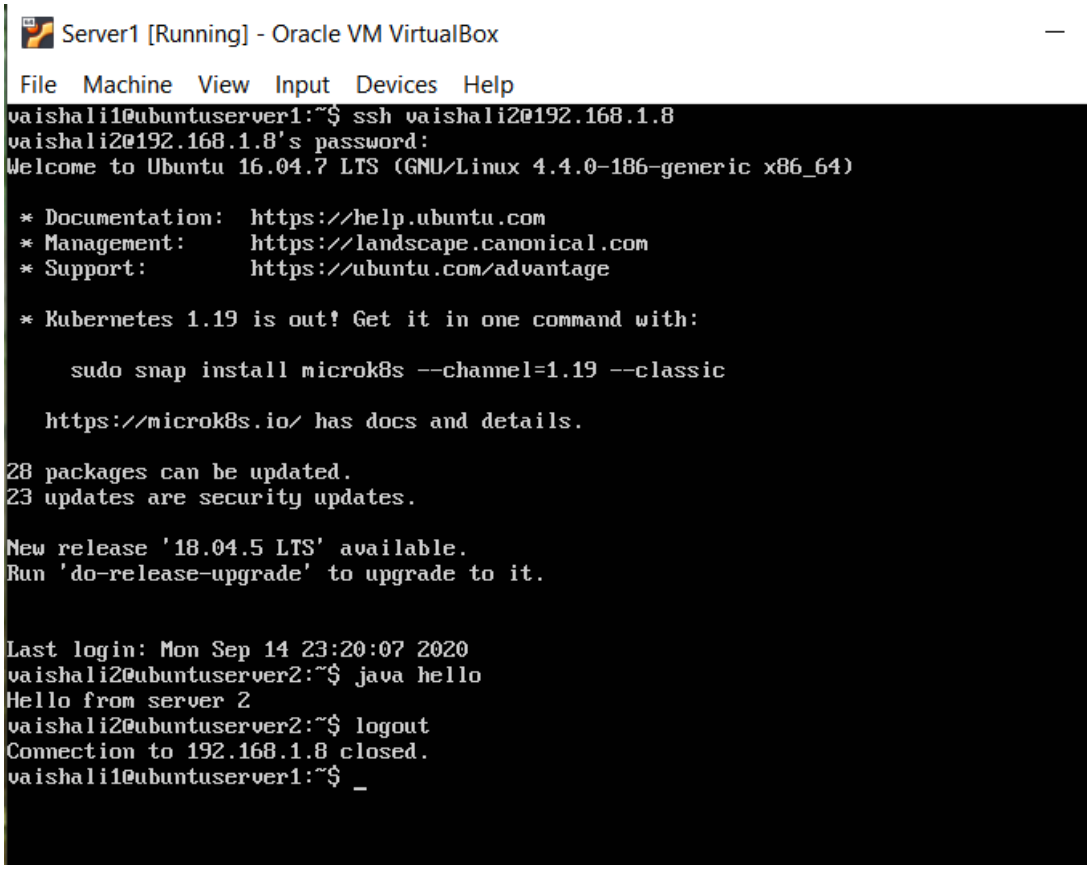
- **Remote login to VM2 from VM1 using SSH (with password)**



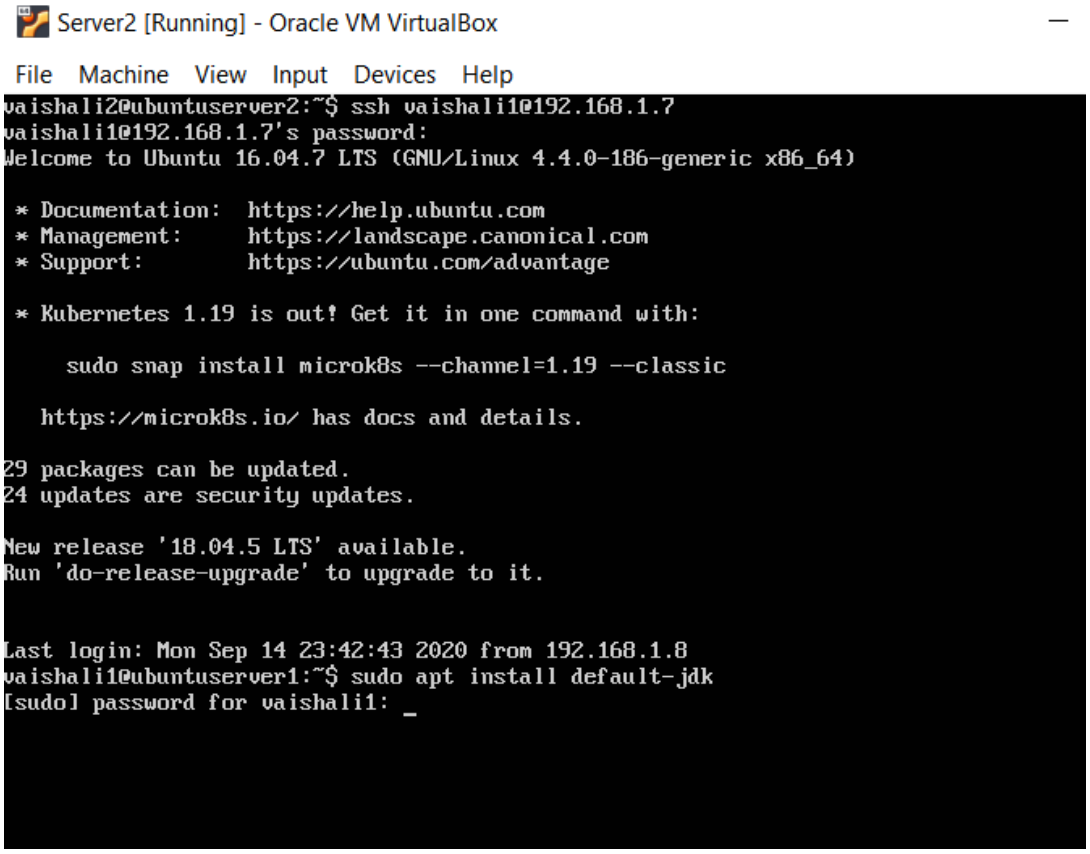
- **hello.java in VM2**

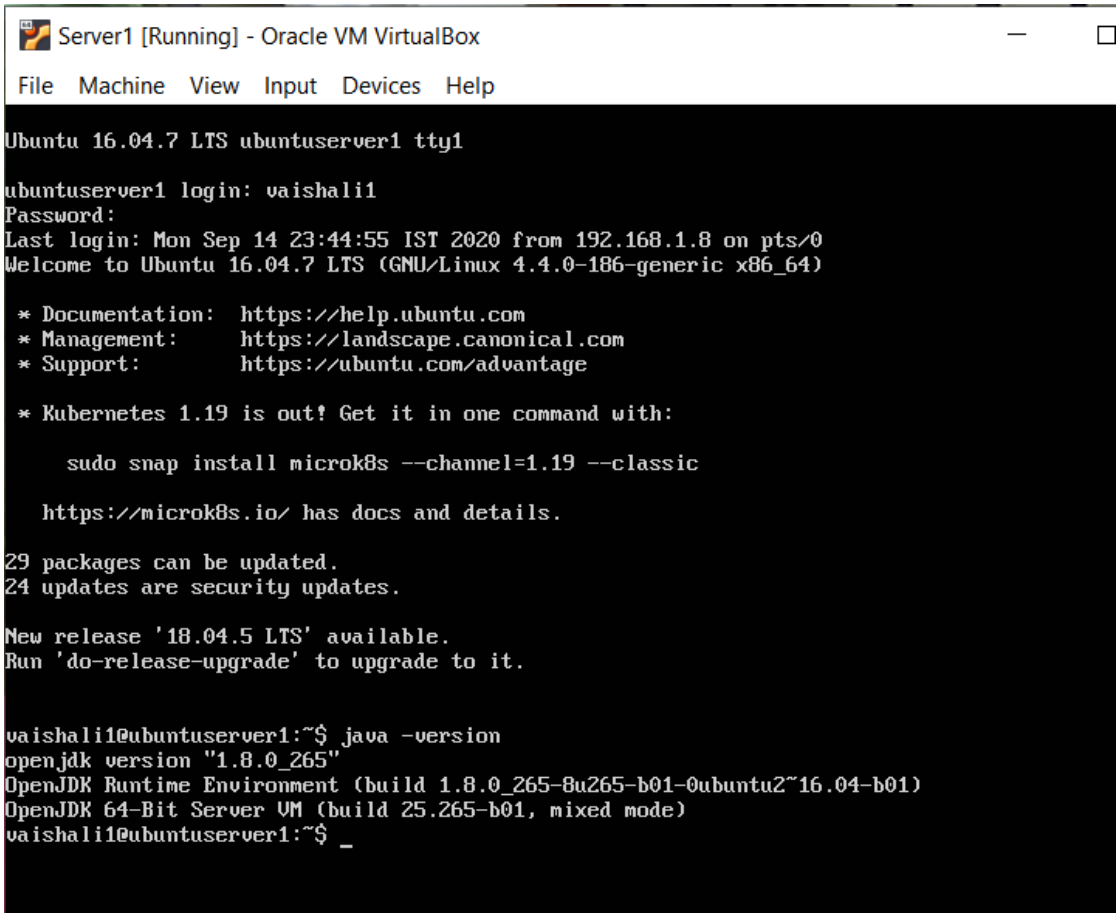


- **Execution of hello.java in VM2 from VM1**



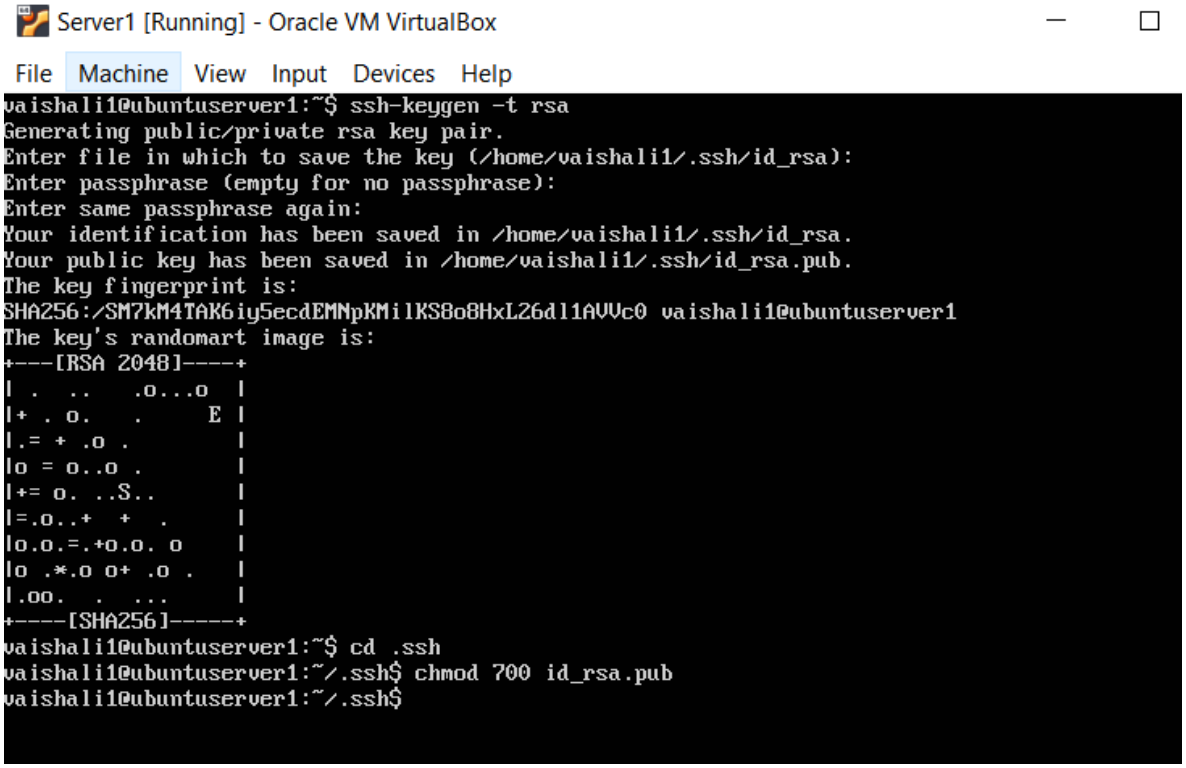
- **Installation of java in VM1 from VM2**



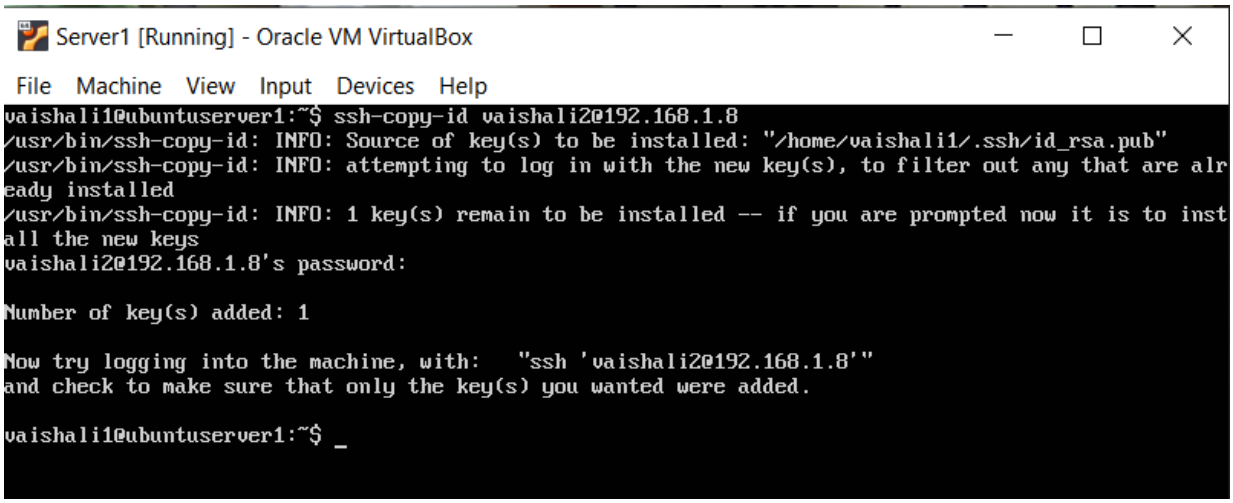


3. Remote login without password

- Create ssh-keypair using the command $ ssh-keygen –t rsa and change permission for id_rsa.pub as 700.



- Copy authorized_keys / id_rsa.pub into VM2 using the command
  $ ssh-copy-id <UsernameVM2>@<IP_Address_VM2>



- Remote login into VM2 from VM1 $ ssh <usernameVM2>@<IP_Address_VM2>