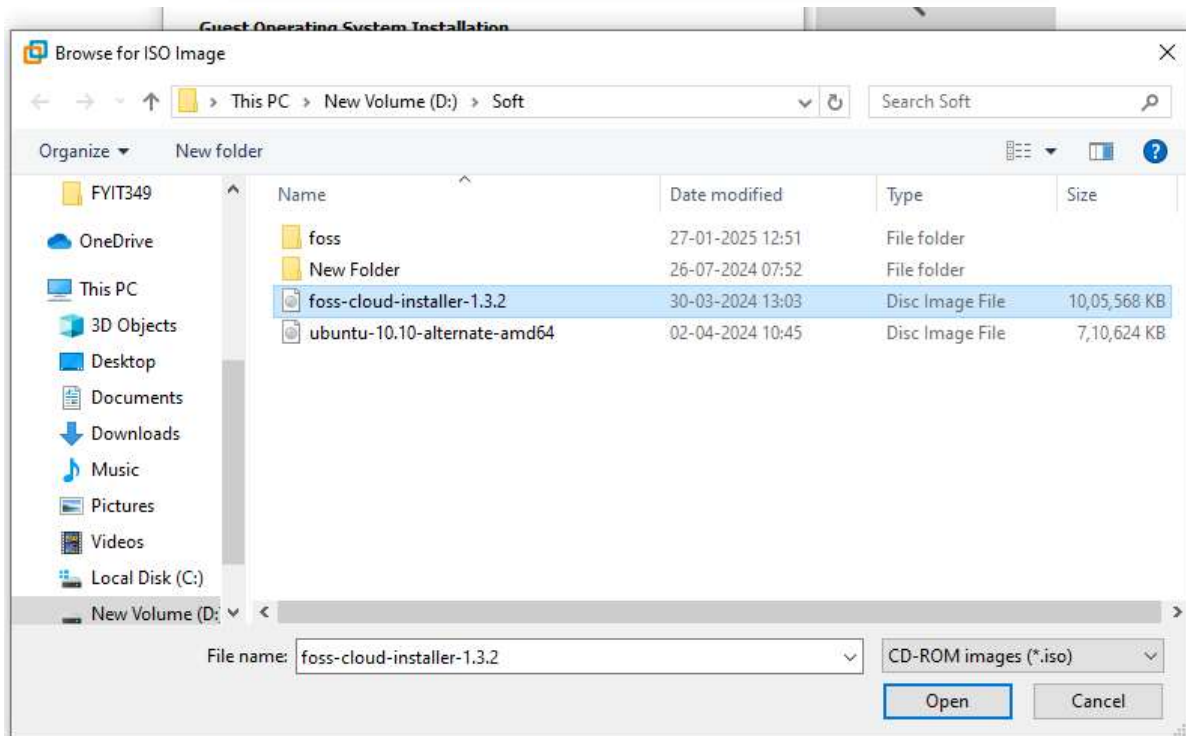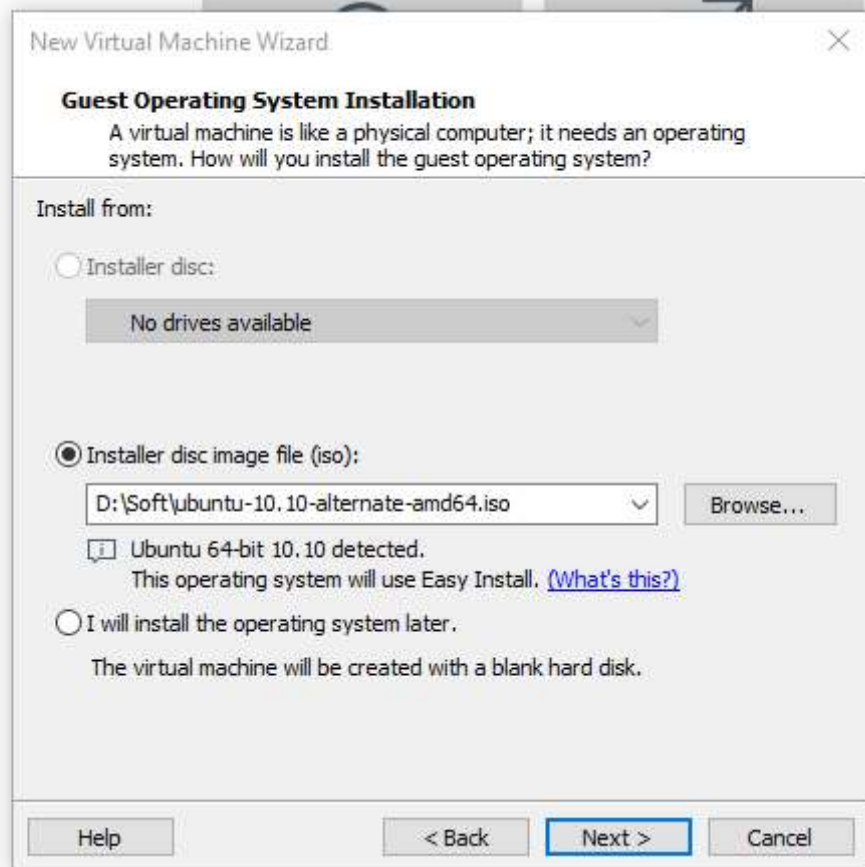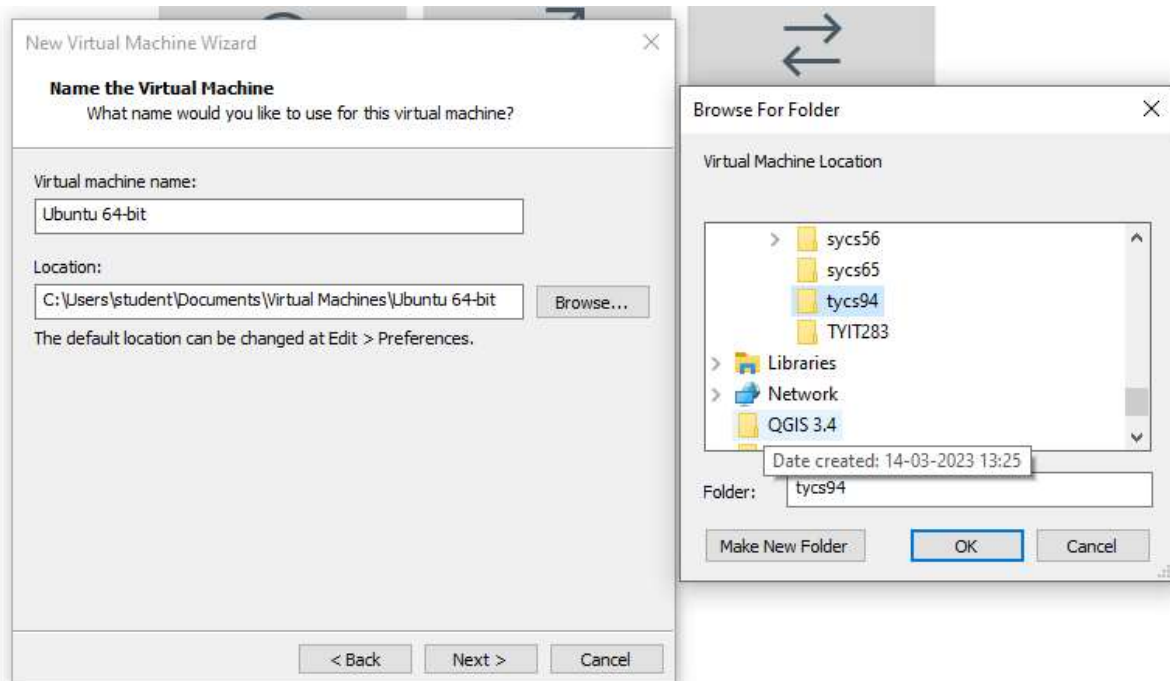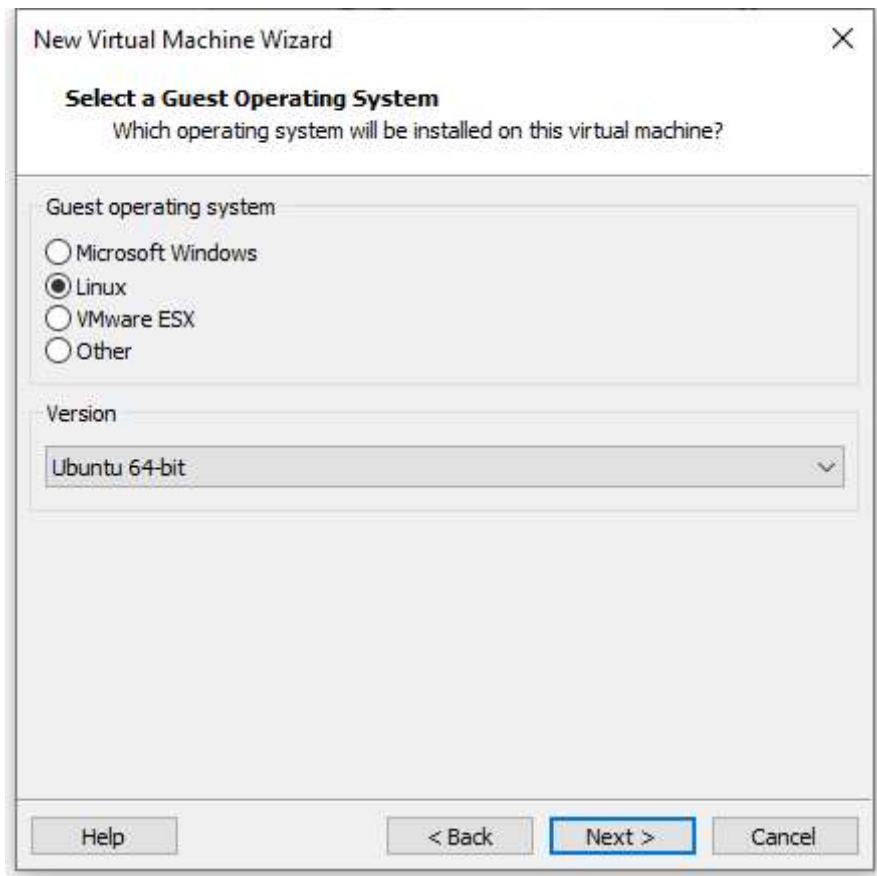# Practical No.7

Aim:- Implement FOSS-Cloud Functionality VSI (Virtual Server Infrastructure) Infrastructure as a Service (IaaS), Storage.

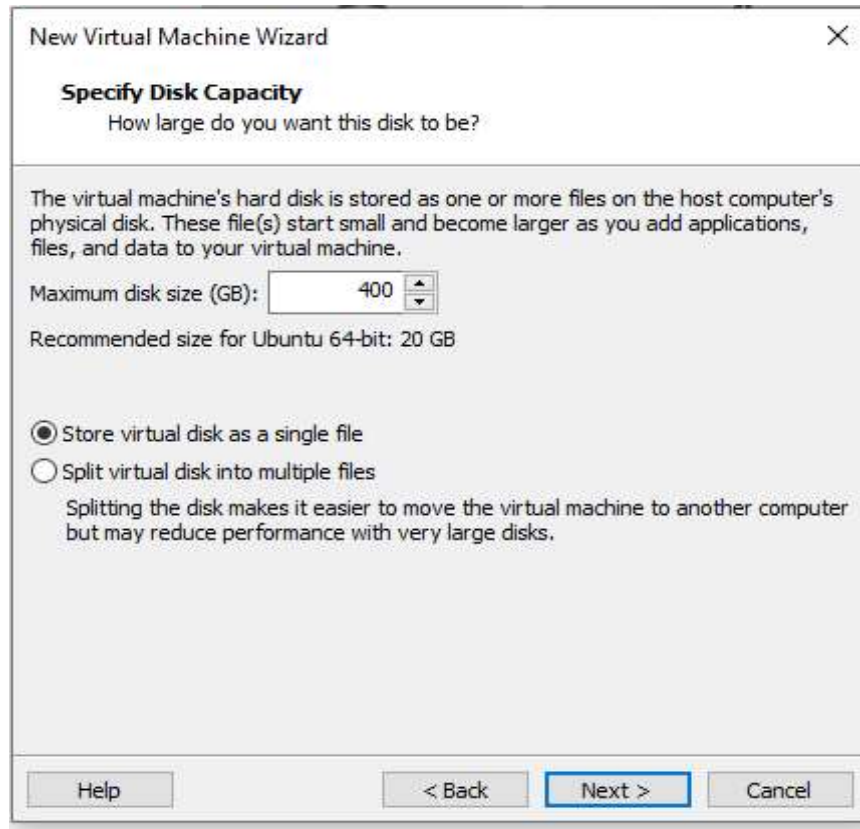Open VMware and follow the below steps:-

Click on file > New virtual Machine

New Virtual Machine Wizard                                                        ✕

**Guest Operating System Installation**
A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?

Install from:

⚪ Installer disc:

No drives available

🔘 Installer disc image file (iso):

D:\Soft\ubuntu-10.10-alternate-amd64.iso        ∨        Browse...

ⓘ Ubuntu 64-bit 10.10 detected.
This operating system will use Easy Install. (What's this?)

⚪ I will install the operating system later.

The virtual machine will be created with a blank hard disk.

Help                                        < Back        Next >        Cancel

---

Guest Operating System Installation

Browse for ISO Image                                                        ✕

←  →  ↑  | > This PC > New Volume (D:) > Soft        ∨  ↺        Search Soft        ⌕

Organize ▾        New folder                                        ⬚▾  ▯  ❓

| Name | Date modified | Type | Size |
|---|---|---|---|
| 📁 foss | 27-01-2025 12:51 | File folder | |
| 📁 New Folder | 26-07-2024 07:52 | File folder | |
| 💿 foss-cloud-installer-1.3.2 | 30-03-2024 13:03 | Disc Image File | 10,05,568 KB |
| 💿 ubuntu-10.10-alternate-amd64 | 02-04-2024 10:45 | Disc Image File | 7,10,624 KB |

FYIT349
☁ OneDrive
💻 This PC
   3D Objects
   Desktop
   Documents
   Downloads
   Music
   Pictures
   Videos
   Local Disk (C:)
   New Volume (D:

File name:  foss-cloud-installer-1.3.2        ∨        CD-ROM images (*.iso)        ∨

Open        Cancel

New Virtual Machine Wizard                                                      ✕

**Select a Guest Operating System**
Which operating system will be installed on this virtual machine?

Guest operating system
○ Microsoft Windows
◉ Linux
○ VMware ESX
○ Other

Version

| Ubuntu 64-bit | ∨ |

| Help | | < Back | Next > | Cancel |

---

New Virtual Machine Wizard                              ✕

**Name the Virtual Machine**
What name would you like to use for this virtual machine?

Virtual machine name:

| Ubuntu 64-bit |

Location:

| C:\Users\student\Documents\Virtual Machines\Ubuntu 64-bit | | Browse... |

The default location can be changed at Edit > Preferences.

| < Back | Next > | Cancel |

---

Browse For Folder                                      ✕

Virtual Machine Location

> 📁 sycs56
  📁 sycs65
  📁 tycs94
  📁 TYIT283
> 📂 Libraries
> 🖥 Network
  📁 QGIS 3.4

Date created: 14-03-2023 13:25

Folder:  | tycs94 |

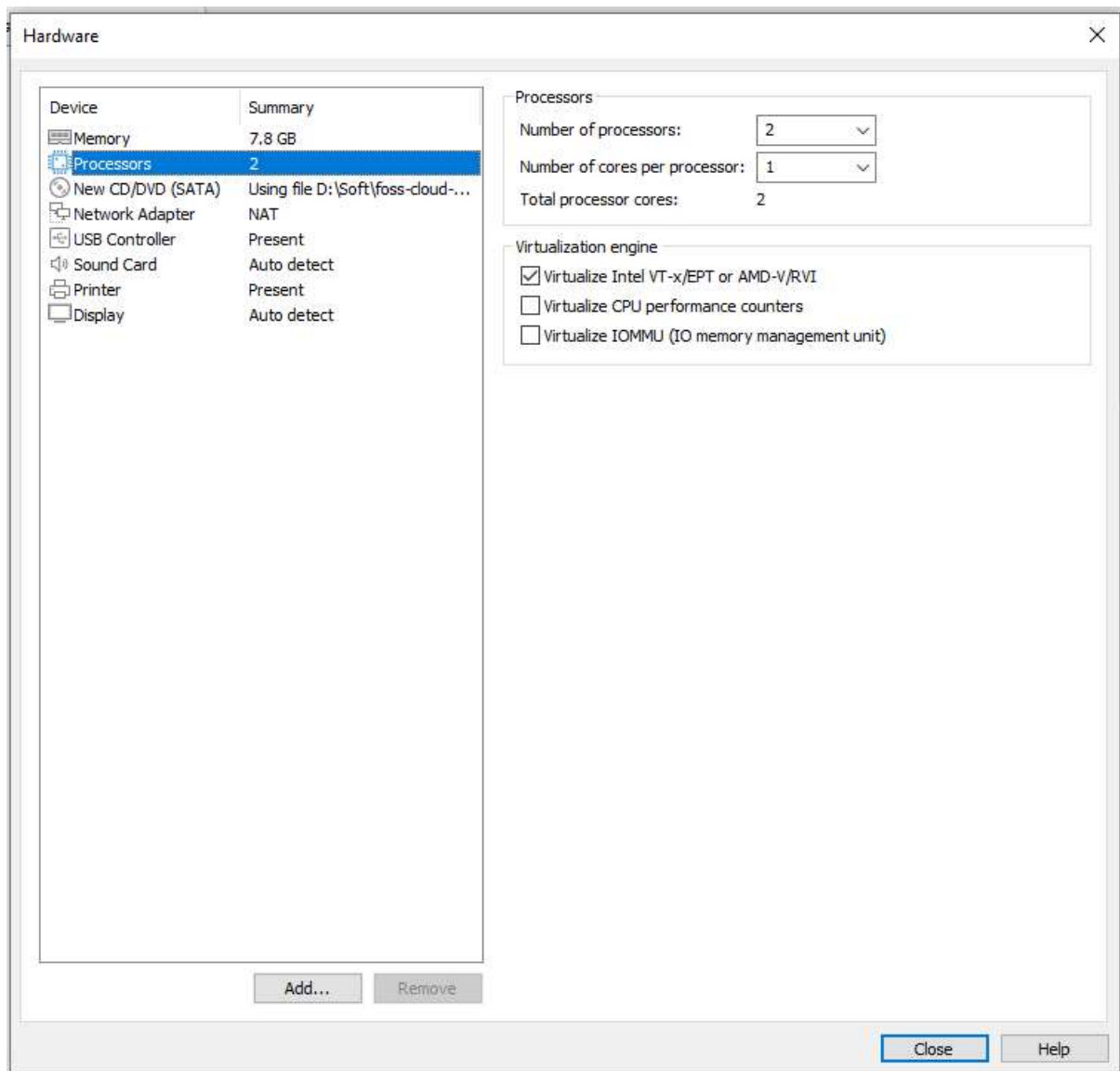| Make New Folder | OK | Cancel |

Give maximum disk size as 400



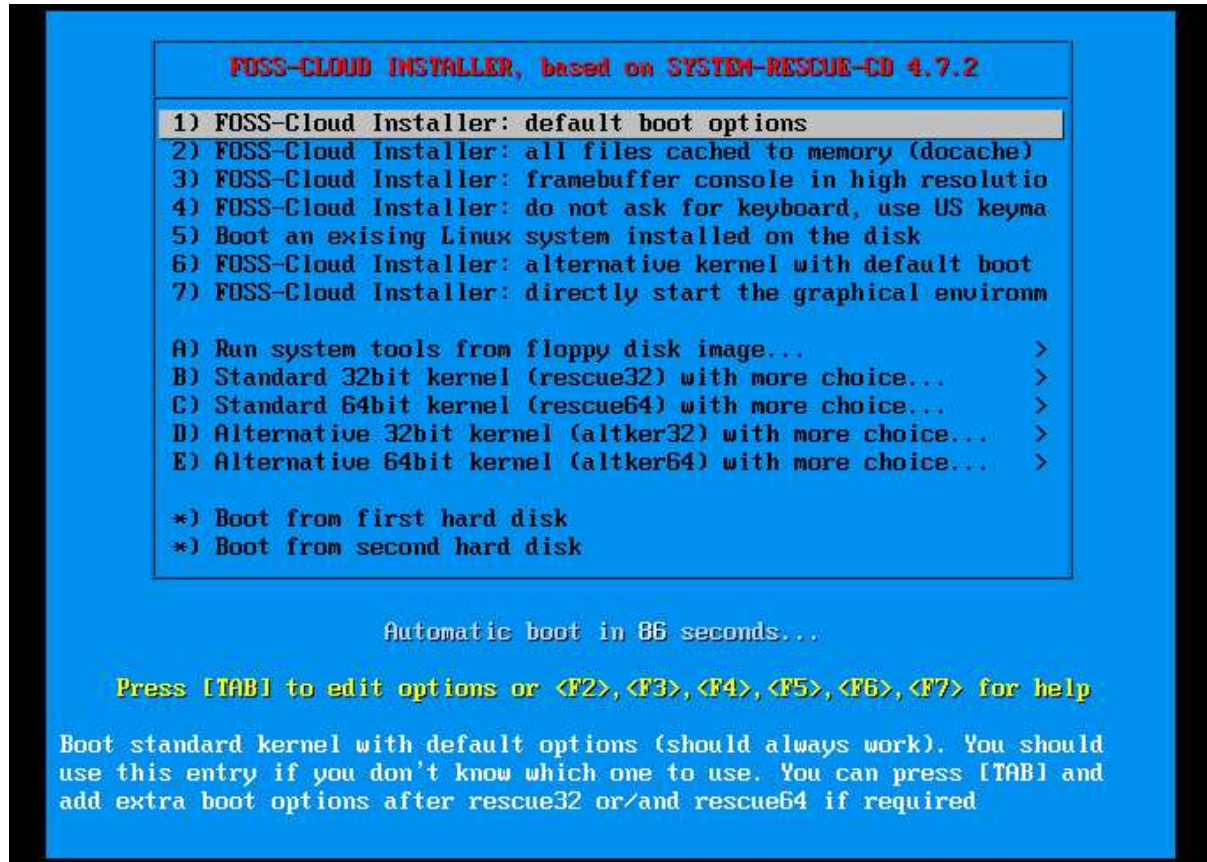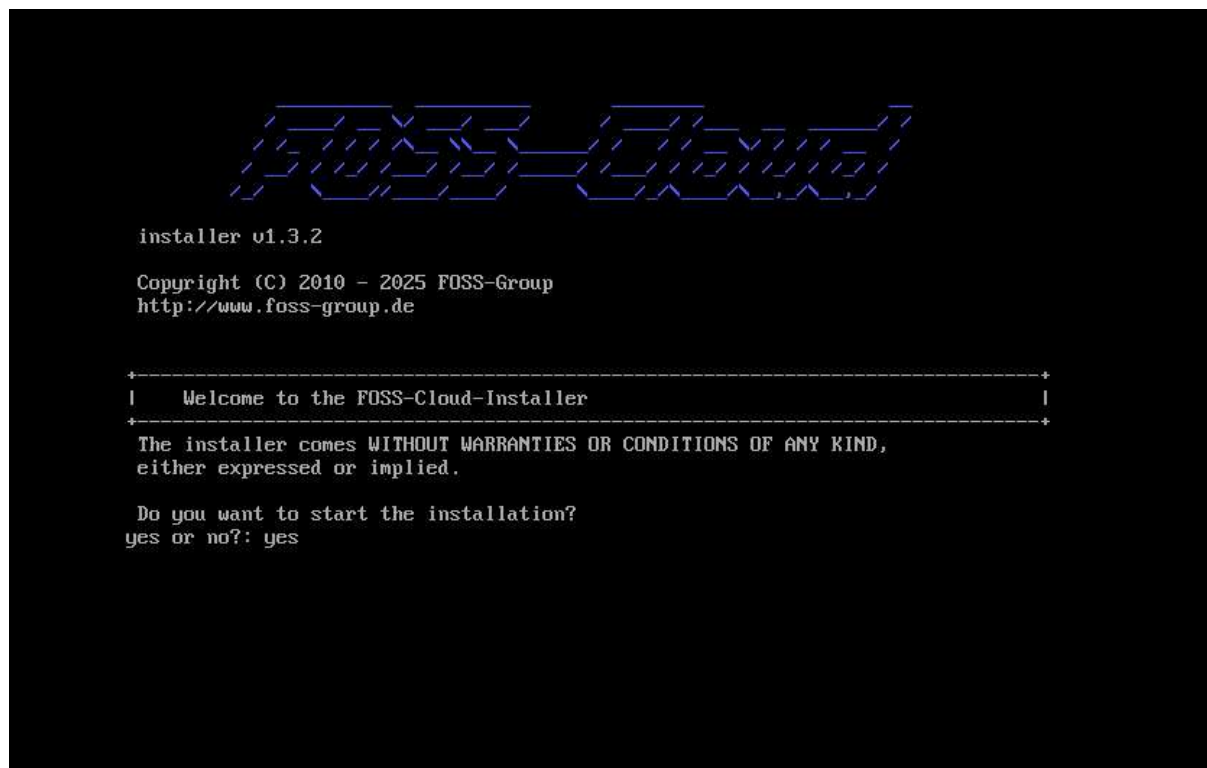Click on customize hardware

Give memory 8GB
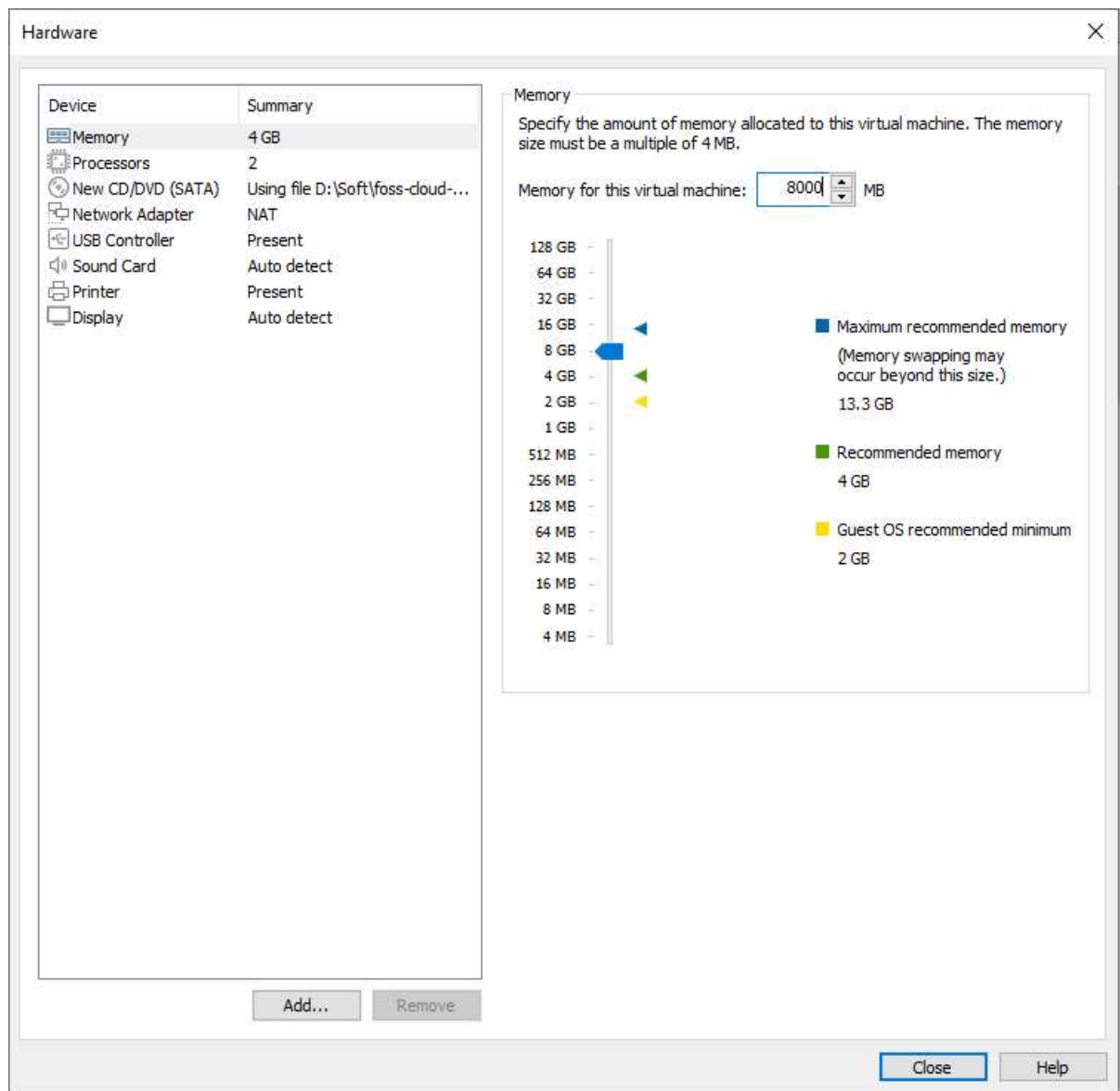
Click on Processors and tick the first option

Now, Click on the power On this virtual machine



click on enter

Choose the demo system , type 1

```
+------------------------------------------------------------------------+
|    Node Type Selection                                                 |
+------------------------------------------------------------------------+
The Installer supports four different types of servers:

 -  The Demo-System which lets you quickly install and test the
    FOSS-Cloud on a single machine without any further network
    requirements.

 -  The Single-Server which runs the whole FOSS-Cloud on
    a single physical server, without any high availability.

 -  The VM-Node which hosts the virtual machines in a multi node setup
    (requires at least four physical servers).

 -  The Storage-Node which serves the images of the virtual machines
    in a multi node setup (requires at least four physical servers).

Please enter the number of the server type you would like to install
1) Demo-System
2) Single-Server
3) VM-Node (multi node setup)
4) Storage-Node (multi node setup)
Node type: 1_
```

Choose a Block-device: sda

```
+------------------------------------------------------------------------+
|    Installation Device Selection                                       |
+------------------------------------------------------------------------+
A dedicated SCSI, SATA or PATA disk is required for the installation
The disk has to be at least 130 GB in size

Found sda (400 GB). Size is OK

Below you will find a list of all detected and supported disks
sda (400 GB)

Please enter the device name on which you would like to install
Device: sda_
```

Confirm that you want to continue: yes

```
+------------------------------------------------------------------------+
|    Installation Device Partitioning                                    |
+------------------------------------------------------------------------+
 Below is the existing partition layout of your selected device

Error: /dev/sda: unrecognised disk label
Model: VMware, VMware Virtual S (scsi)
Disk /dev/sda: 429GB
Sector size (logical/physical): 512B/512B
Partition Table: unknown
Disk Flags:

 All existing partitions have to be deleted in order to continue
 THIS MEANS THAT ALL DATA ON THIS DISK WILL BE LOST
 Do you want to continue?
yes or no?: yes
```

Choose the network interface: the available one

```
+-------------------------------------------------------------------+
|     Network Device Selection                                       |
+-------------------------------------------------------------------+

  Please enter the device which you would like to use

  Available ethernet devices: eno16777736
 Device #0: eno16777736_
```

Choose if you want to use automatic network configuration: Yes

```
+-------------------------------------------------------------------+
|     Network Configuration                                          |
+-------------------------------------------------------------------+
 Do you want to use automatic network configuration (via DHCP)?
yes or no?: yes
```
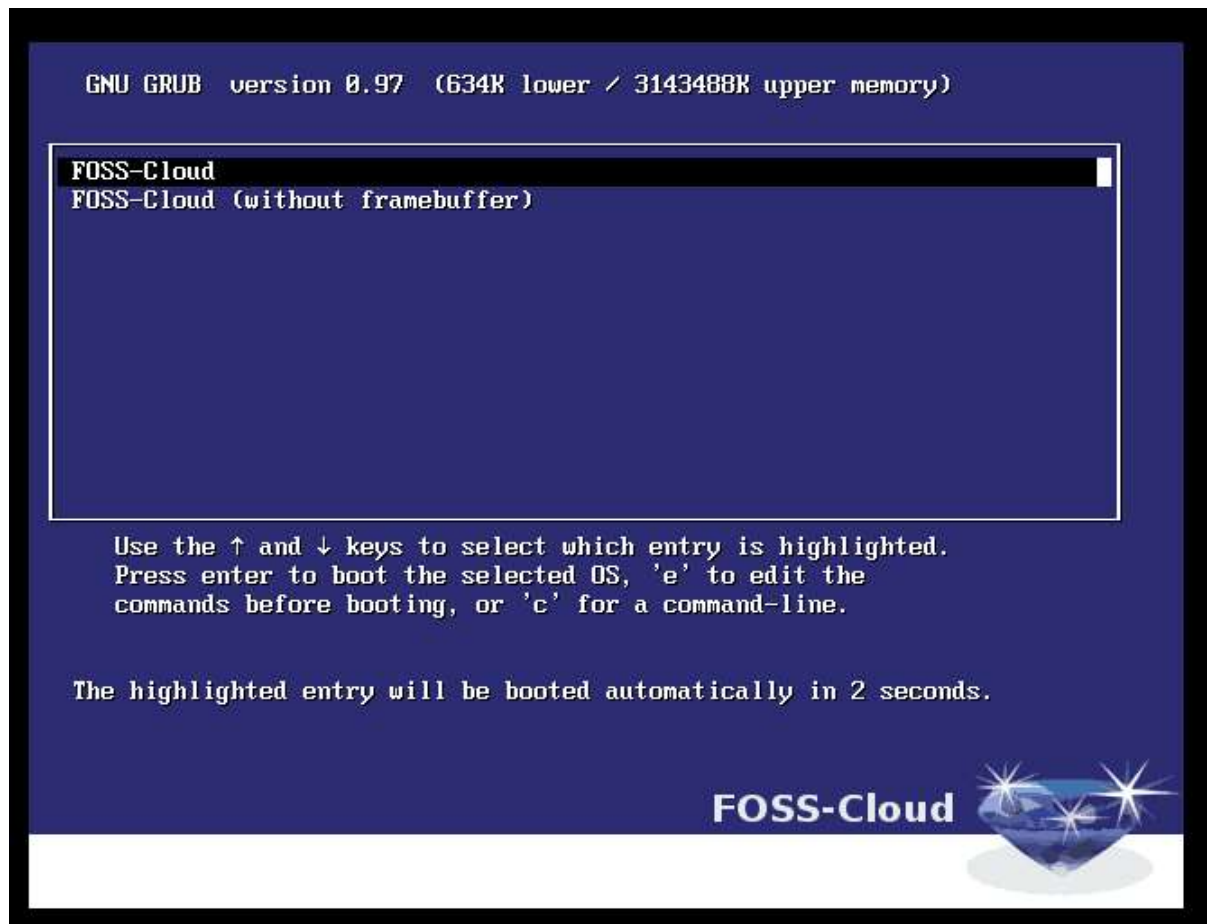
Reboot your system: yes

```
+-------------------------------------------------------------------+
|     Installation Complete                                          |
+-------------------------------------------------------------------+
 Congratulation! You have finished the installation of FOSS-Cloud
 Now all you need to do is reboot the system and remove the CD-ROM

 Do you want to reboot your system?
yes or no?: yes
```

Login as root