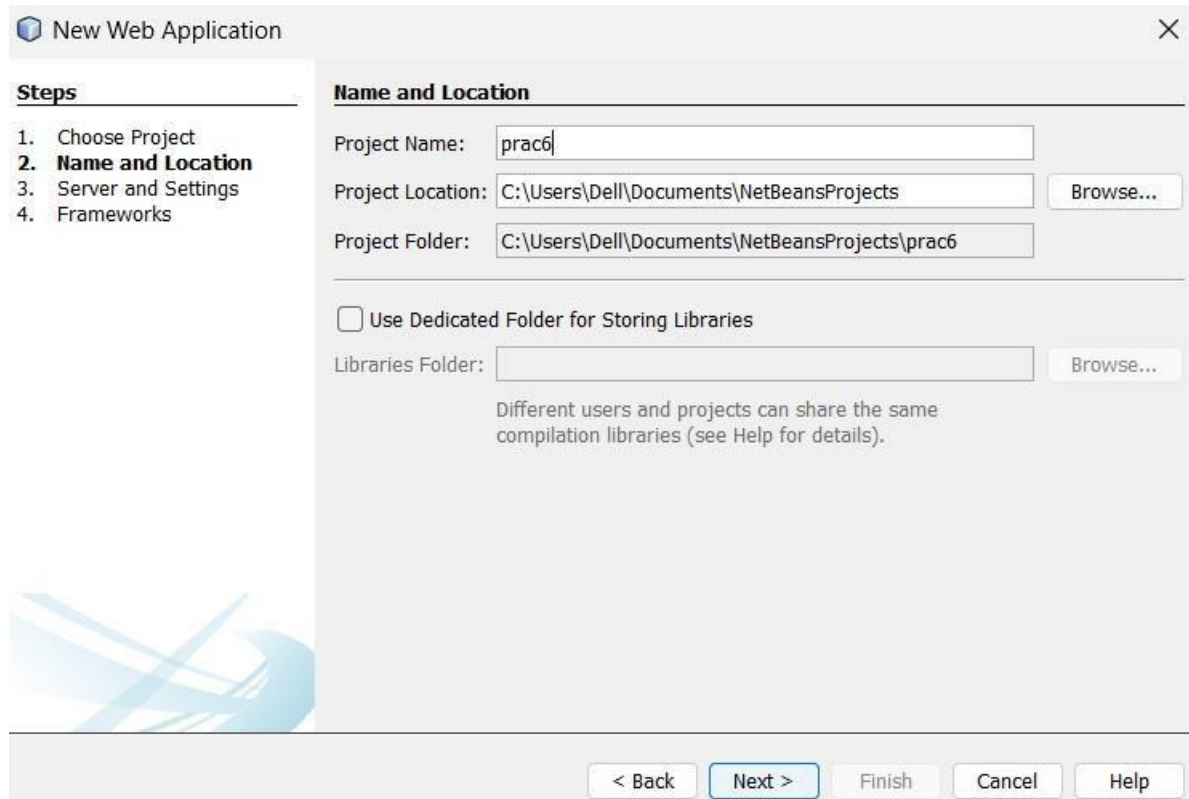


Practical 7

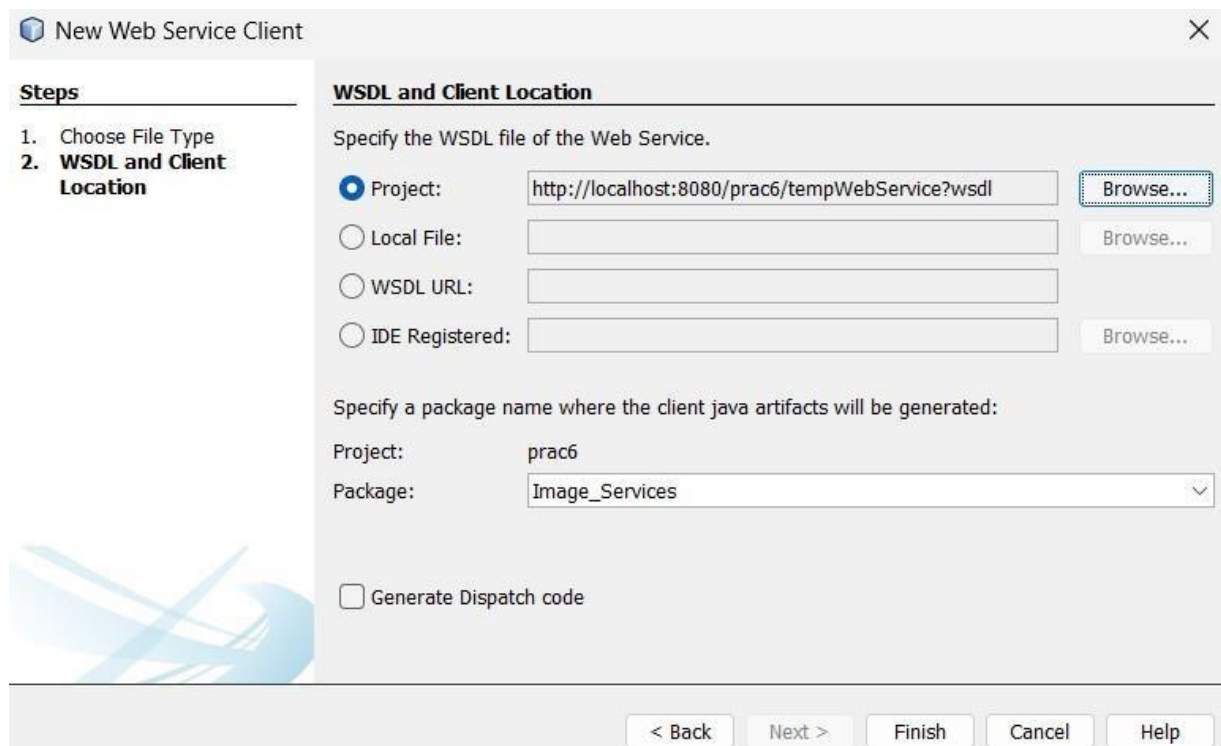
Aim: Develop application to download image/video from server or upload image/video to server using MTOM techniques

Step-1



The 'New Web Application' dialog box is shown. It has a 'Steps' sidebar on the left with four items: '1. Choose Project', '2. Name and Location' (which is selected and bolded), '3. Server and Settings', and '4. Frameworks'. The main area is titled 'Name and Location'. It contains three text fields: 'Project Name' with the value 'prac6', 'Project Location' with the value 'C:\Users\Dell\Documents\NetBeansProjects', and 'Project Folder' with the value 'C:\Users\Dell\Documents\NetBeansProjects\prac6'. There are 'Browse...' buttons next to the 'Project Location' and 'Project Folder' fields. Below these fields is a checkbox labeled 'Use Dedicated Folder for Storing Libraries' which is unchecked. Next to it is a 'Libraries Folder' text field and another 'Browse...' button. A note at the bottom of the main area states: 'Different users and projects can share the same compilation libraries (see Help for details)'. At the bottom of the dialog are five buttons: '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

Step-2



The 'New Web Service Client' dialog box is shown. It has a 'Steps' sidebar on the left with two items: '1. Choose File Type' and '2. WSDL and Client Location' (which is selected and bolded). The main area is titled 'WSDL and Client Location'. It starts with the instruction 'Specify the WSDL file of the Web Service.' followed by four radio button options: 'Project:', 'Local File:', 'WSDL URL:', and 'IDE Registered:'. The 'Project:' option is selected. The 'Project:' text field contains the value 'http://localhost:8080/prac6/tempWebService?wsdl'. There are 'Browse...' buttons next to each of the four radio button options. Below this section is another instruction: 'Specify a package name where the client java artifacts will be generated:'. This is followed by two text fields: 'Project:' with the value 'prac6' and 'Package:' with the value 'Image_Services'. At the bottom of the main area is a checkbox labeled 'Generate Dispatch code' which is unchecked. At the bottom of the dialog are five buttons: '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

Step-3

New JSP

Steps

1. Choose File Type

2. **Name and Location**

Name and Location

File Name:

Project:

Location: ▼

Folder: Browse...

Created File:

Options:

☒ JSP File (Standard Syntax) ☐ Create as a JSP Segment

☐ JSP Document (XML Syntax)

Description:

A JSP file using JSP standard syntax.

< Back

Next >

Finish

Cancel

Help

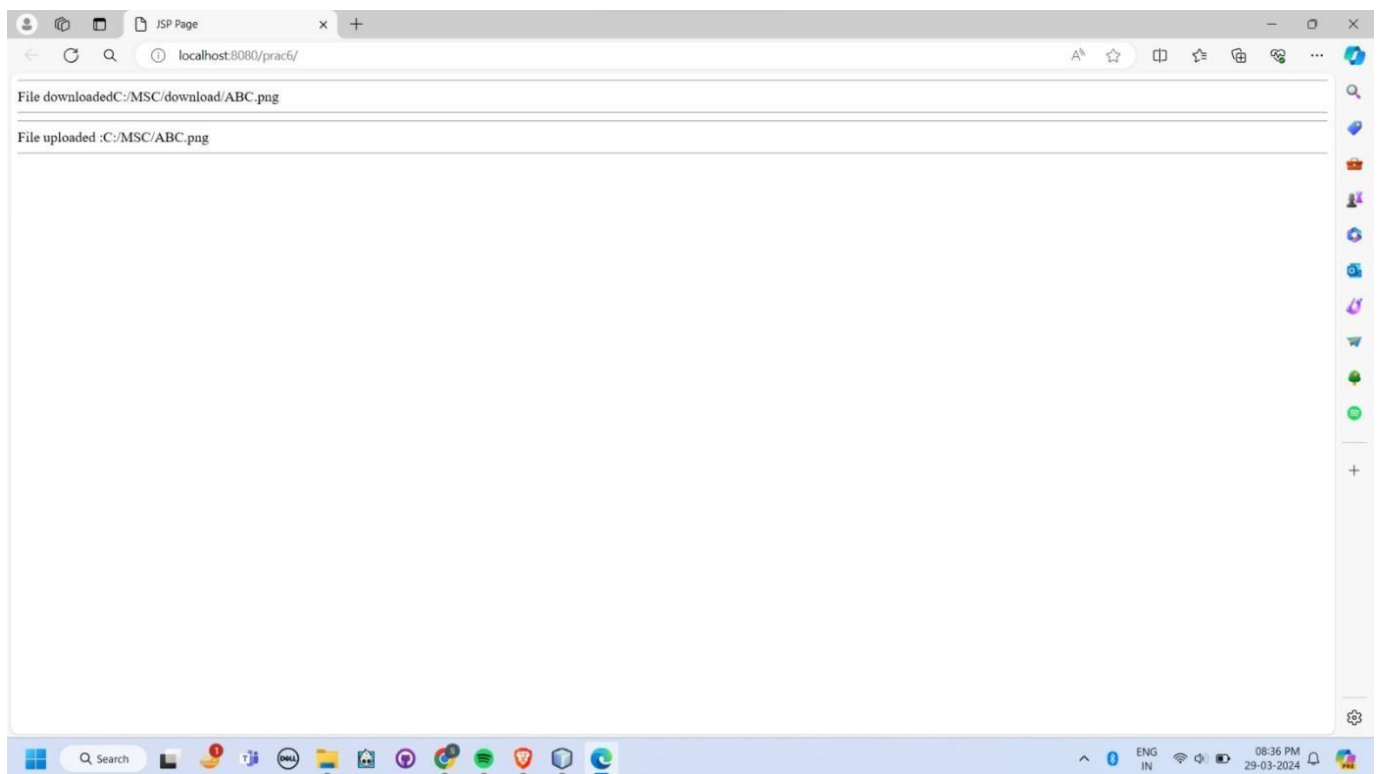
Step-4

```
index.html x tempWebService.java x
Source Design History
1 package tyces;
2
3 import java.io.*;
4 import javax.ws.rs.*;
5 import javax.ws.rs.WebService;
6 import javax.ws.rs.WebMethod;
7 import javax.ws.rs.WebParam;
8 import javax.xml.ws.soap.MTOM;
9
10 @WebService(serviceName = "tempWebService")
11 public class tempWebService {
12
13     @WebMethod(operationName = "upload")
14     @Consumes({ "text/plain" })
15     public void upload(@WebParam(name = "Filename") String Filename, @WebParam(name = "ImageBytes") byte[] ImageBytes) {
16         String filePath = "C:/NSC/upload/" + Filename;
17         try {
18             FileOutputStream fos = new FileOutputStream(filePath);
19             BufferedOutputStream bos = new BufferedOutputStream(fos);
20             bos.write(ImageBytes);
21             bos.close();
22             System.out.println("Received file : " + filePath);
23         } catch (Exception ex) {
24             System.out.println(ex);
25         }
26     }
27
28     @WebMethod(operationName = "download")
29     public byte[] download(@WebParam(name = "Filename") String Filename) {
30         String filePath = "C:/NSC/upload/" + Filename;
31         System.out.println("Sending file: " + filePath);
32         try {
33             File file = new File(filePath);
34             FileInputStream fis = new FileInputStream(file);
35             BufferedInputStream bis = new BufferedInputStream(fis);
36             byte[] fileBytes = new byte[(int)file.length()];
37             bis.read(fileBytes);
38             bis.close();
39             return fileBytes;
40         } catch (Exception ex) {
41             System.out.println(ex);
42         }
43         return null;
44     }
45 }
```

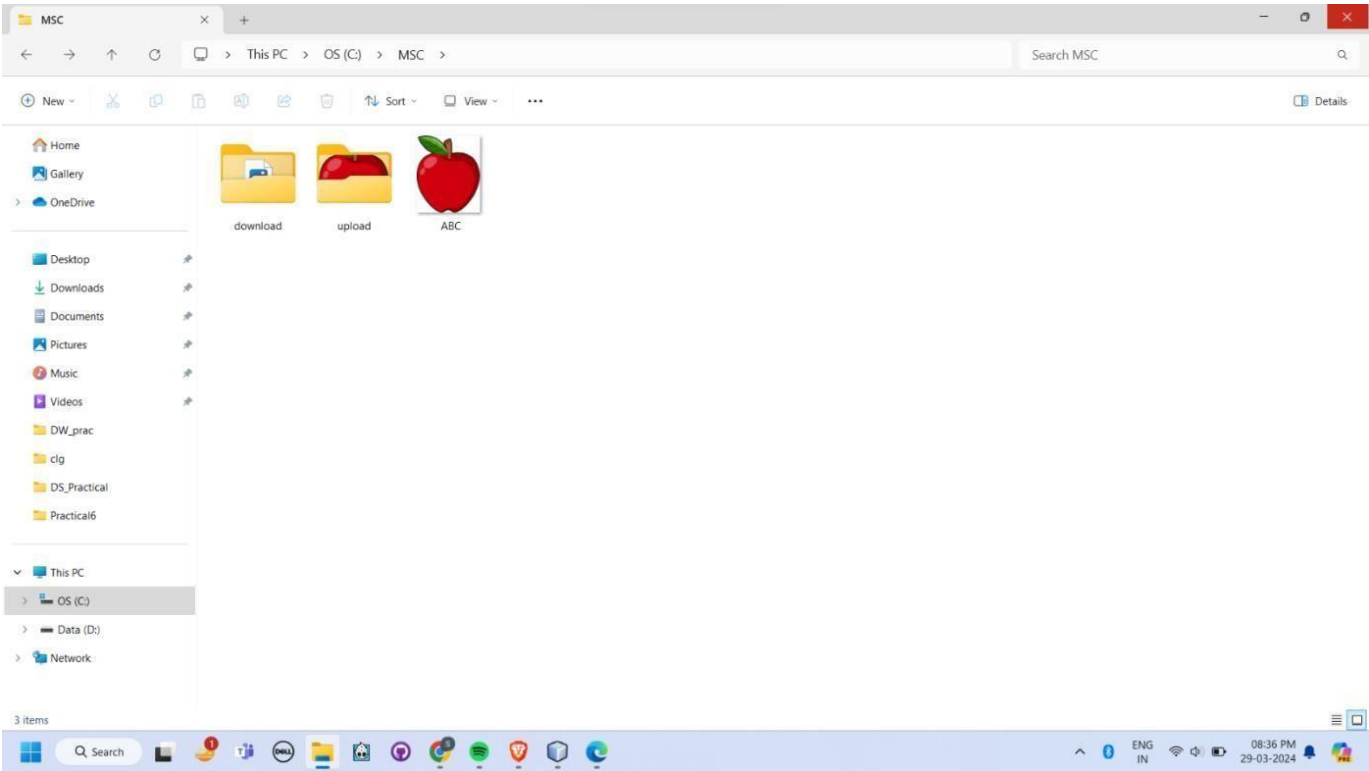
Step-5

```
10 <!DOCTYPE html>
11 <html>
12 <head>
13 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
14 <title>JSP Page</title>
15 </head>
16 <body>
17 <%
18 try {
19     Image_Services.TempWebService_Service service = new Image_Services.TempWebService_Service();
20     Image_Services.TempWebService port = service.getTempWebServicePort();
21     java.lang.String filename = "ABC.png";
22     String filePath="C:/MSC/download/"+filename;
23     byte[] fileBytes = port.download(filename);
24     FileOutputStream fos=new FileOutputStream(filePath);
25     BufferedOutputStream bos=new BufferedOutputStream(fos);
26     bos.write(fileBytes);
27     bos.close();
28     out.println("File downloaded"+filePath);
29 } catch (Exception ex) {
30 }
31 %>
32 <%
33 try {
34     Image_Services.TempWebService_Service service = new Image_Services.TempWebService_Service();
35     Image_Services.TempWebService port = service.getTempWebServicePort();
36     String filePath="C:/MSC/ABC.png";
37     File file=new File(filePath);
38     FileInputStream fis=new FileInputStream(file);
39     BufferedInputStream bis=new BufferedInputStream(fis);
40     java.lang.String filename = file.getName();
41     byte[] imageBytes=new byte[(int)file.length()];
42     bis.read(imageBytes);
43     port.upload(filename, imageBytes);
44     bis.close();
45     out.println("File uploaded :"+filePath);
46 } catch (Exception ex) {
47 }
48 %>
49 </body>
50 </html>
51
```

Step-6



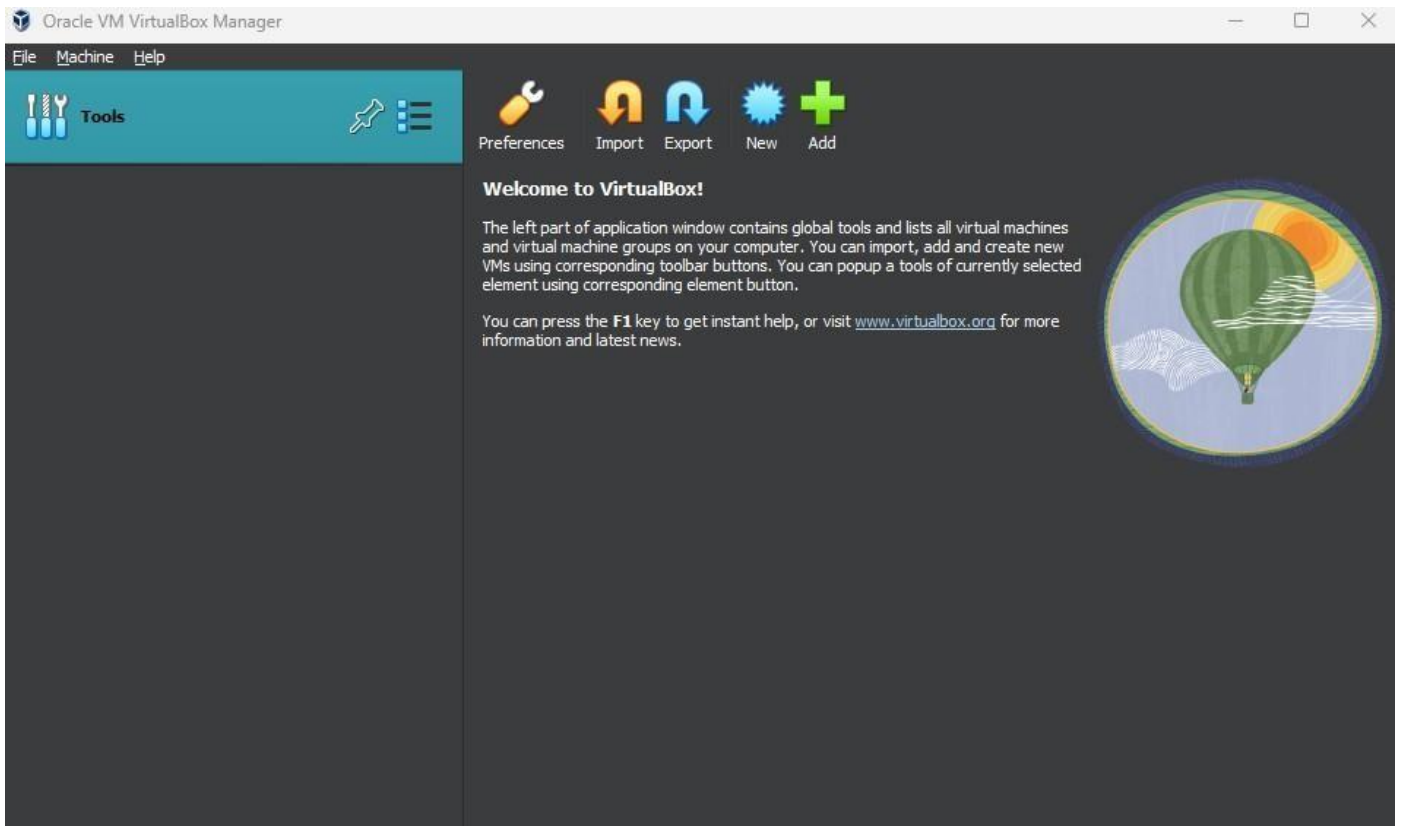
Step-7



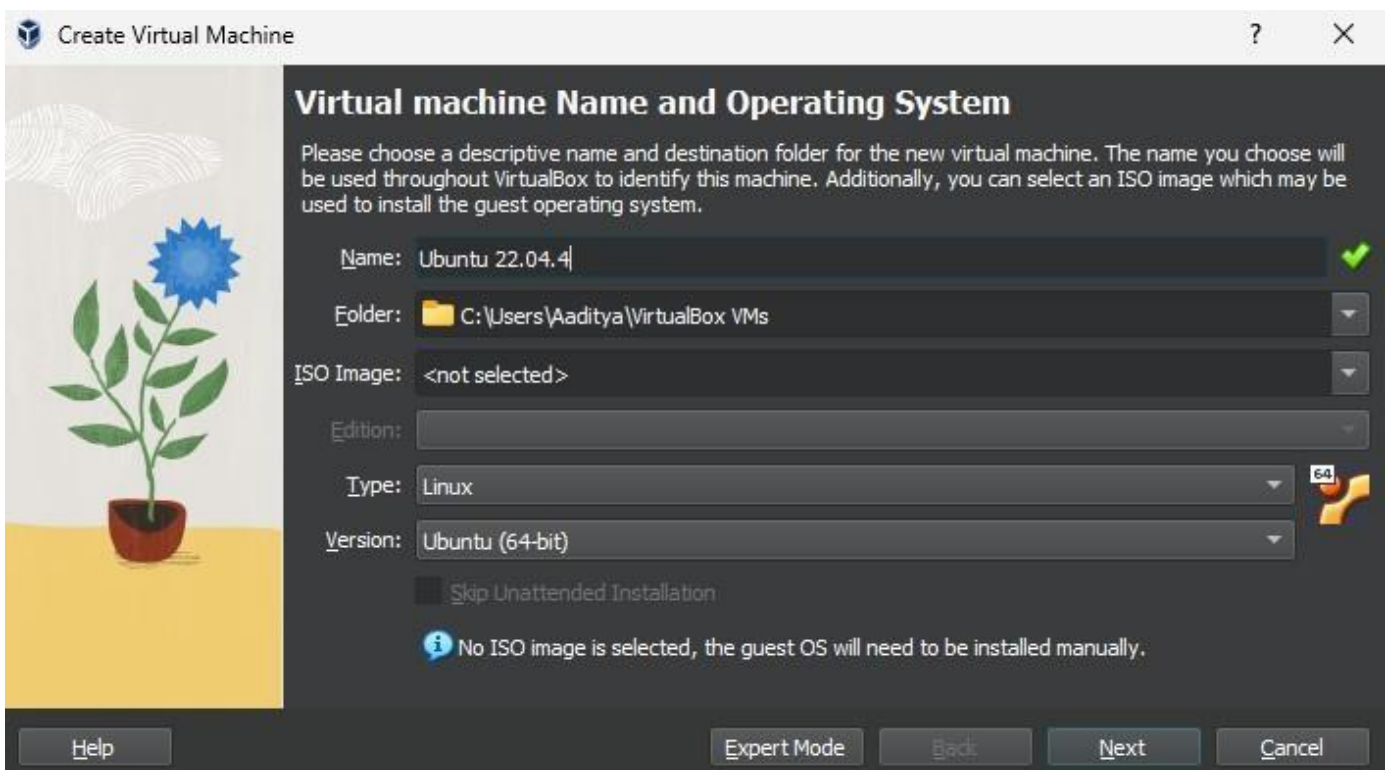
Practical: 8

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

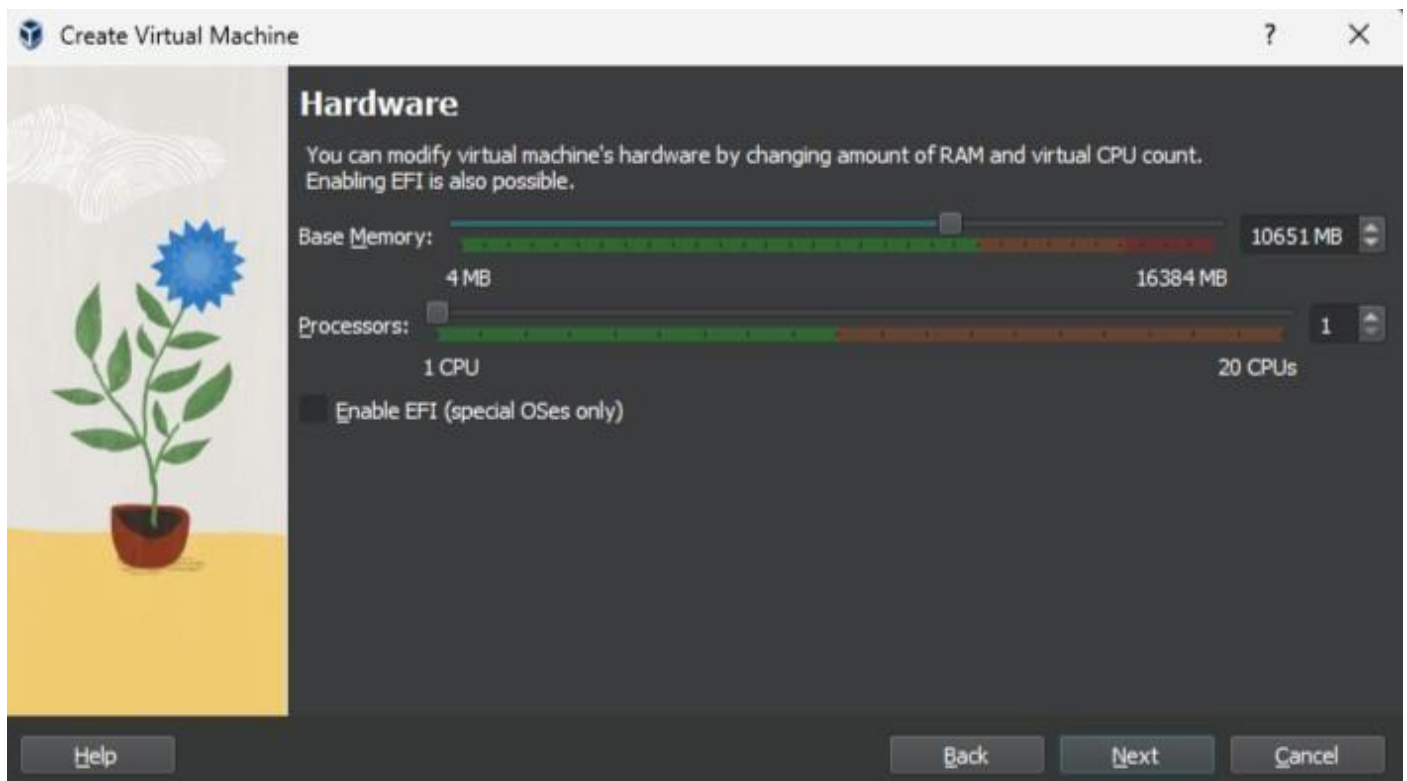
Step-1



Step-2



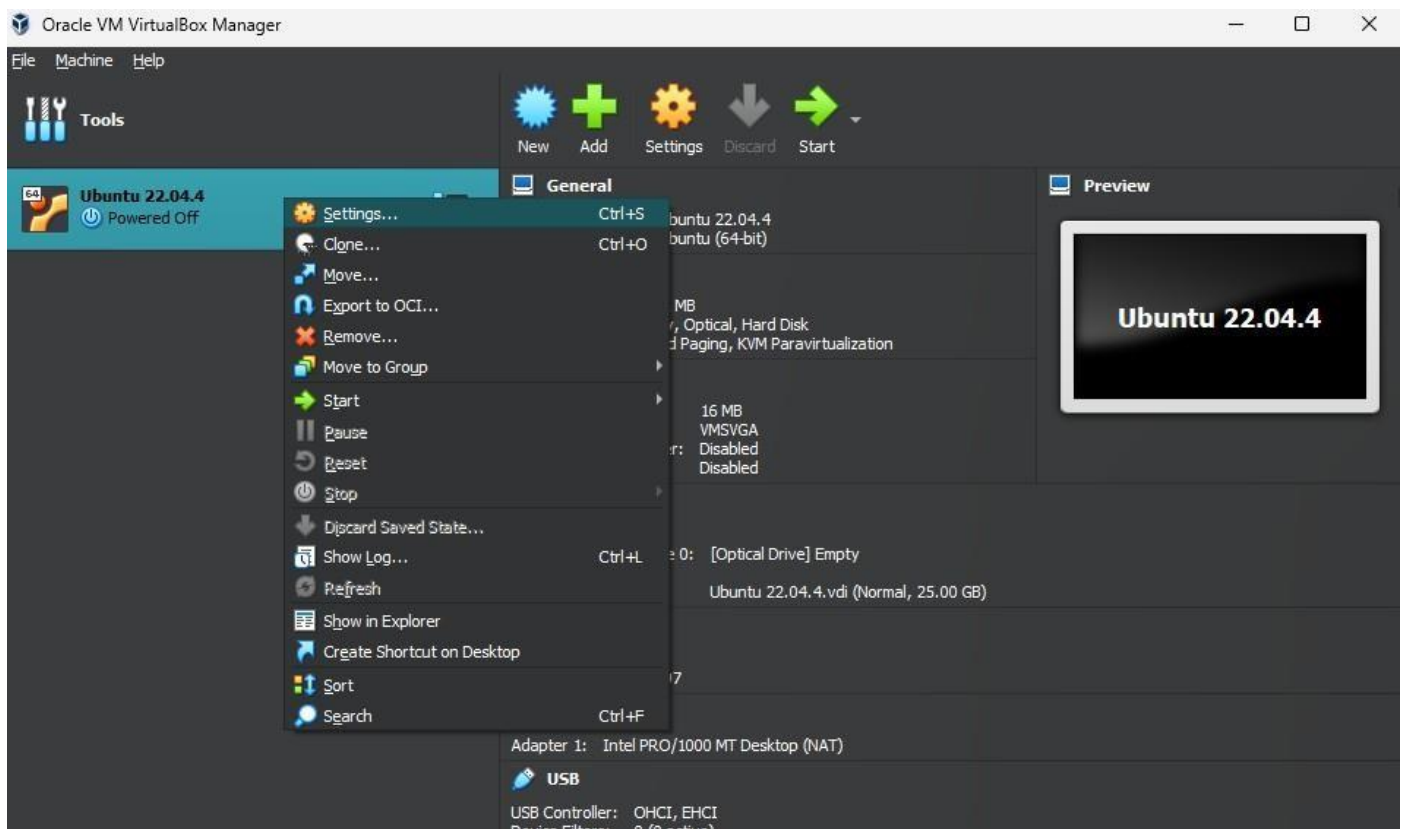
Step-3



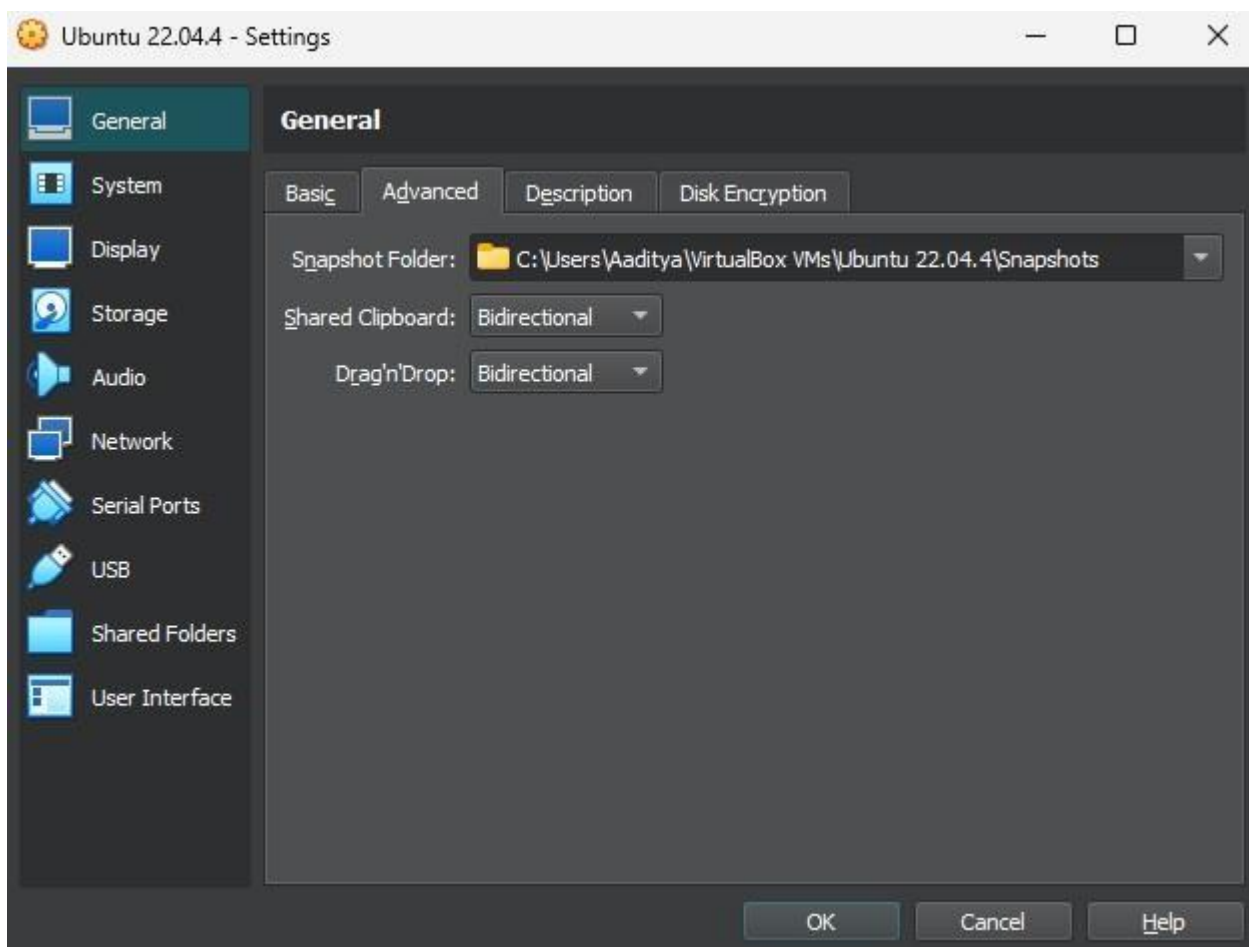
Step-4



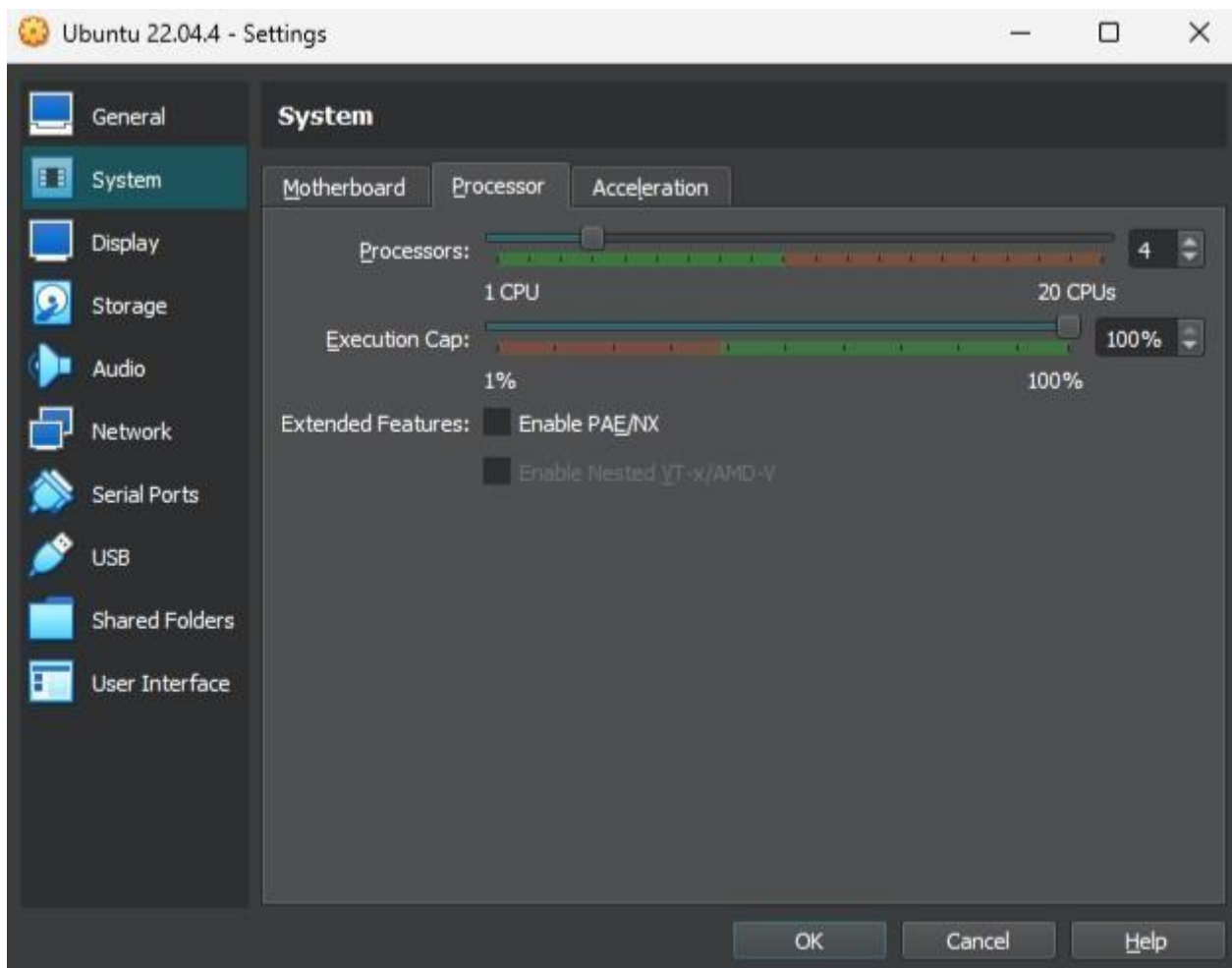
Step-5



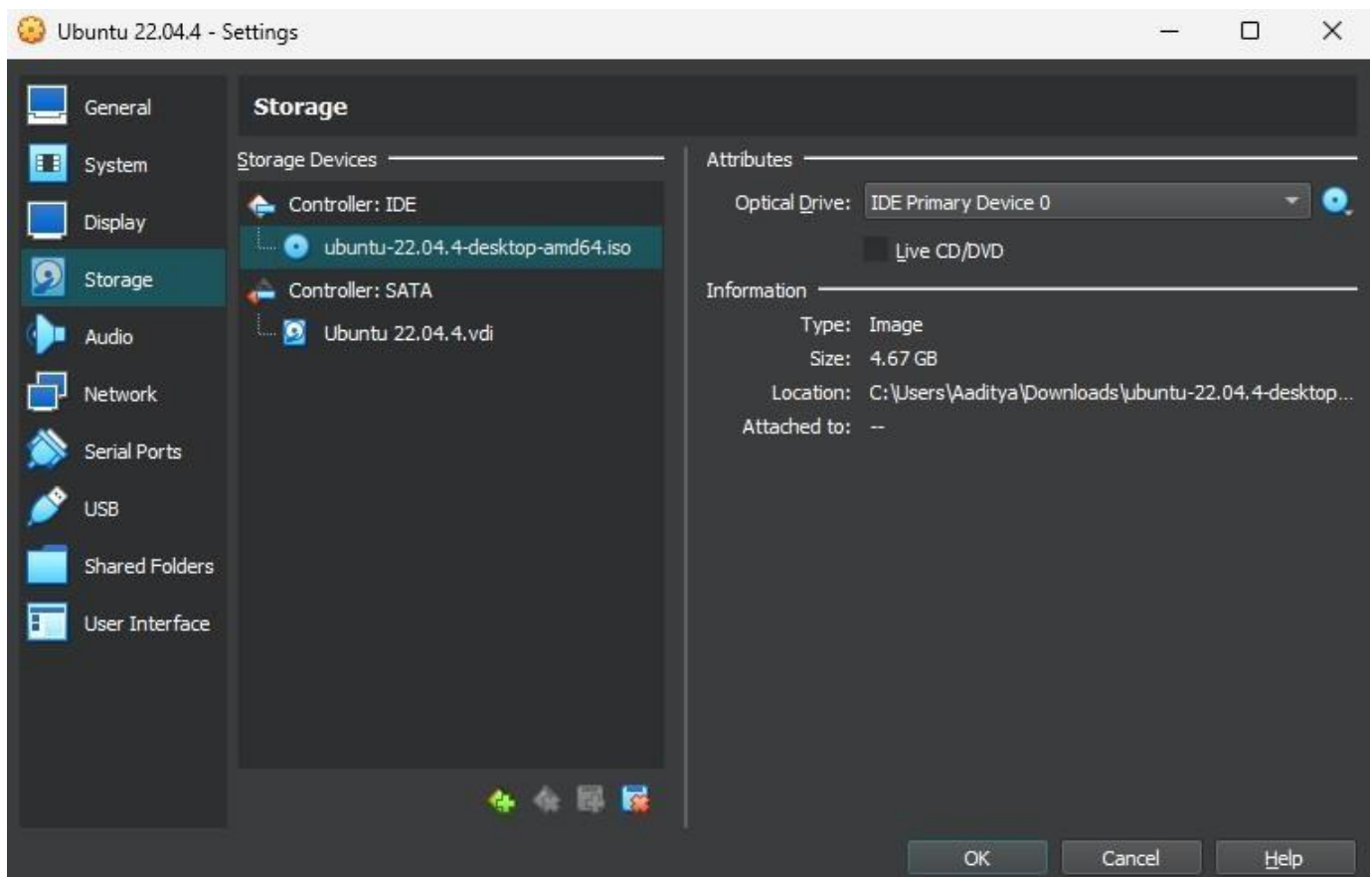
Step-6



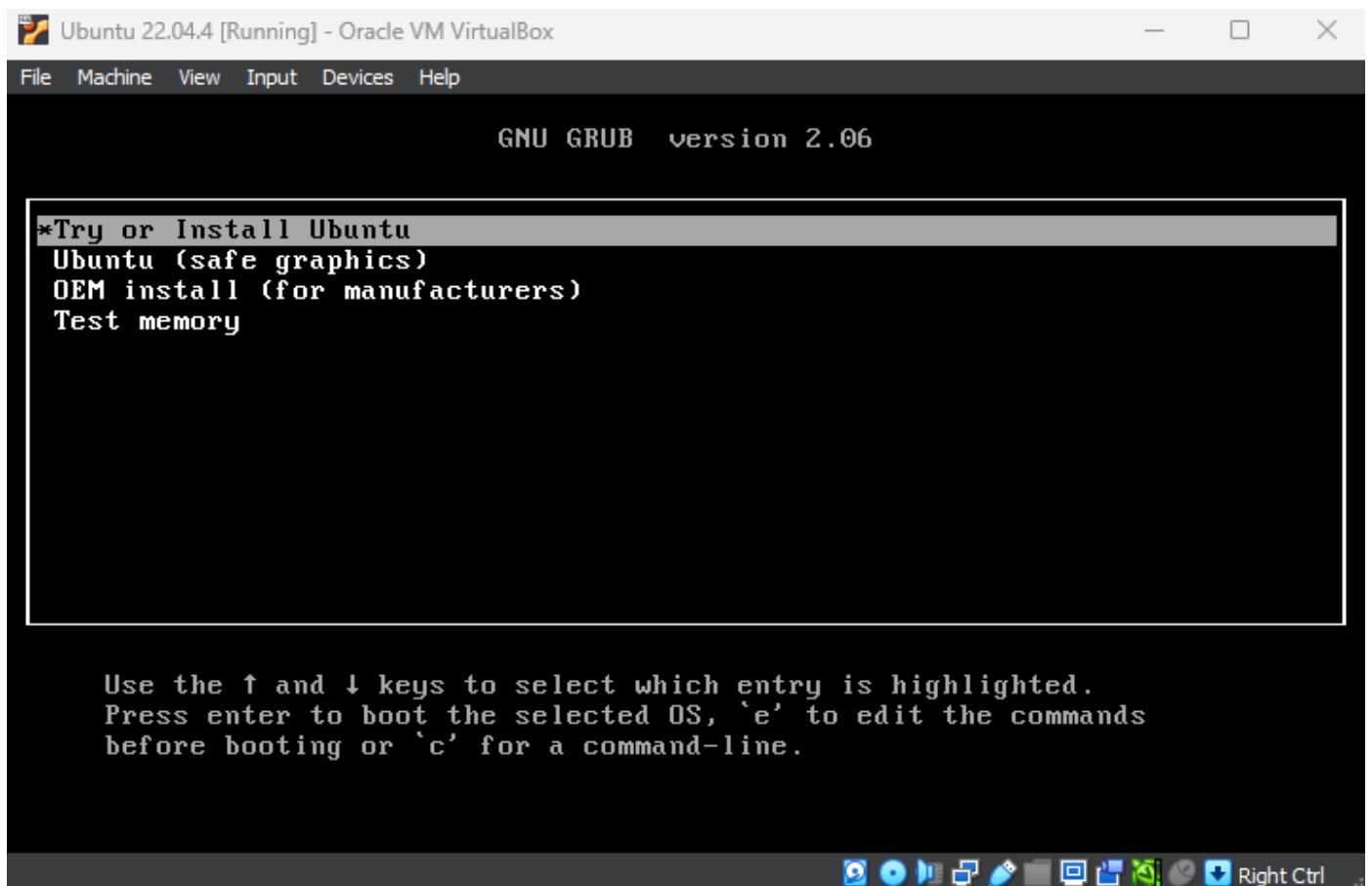
Step-7



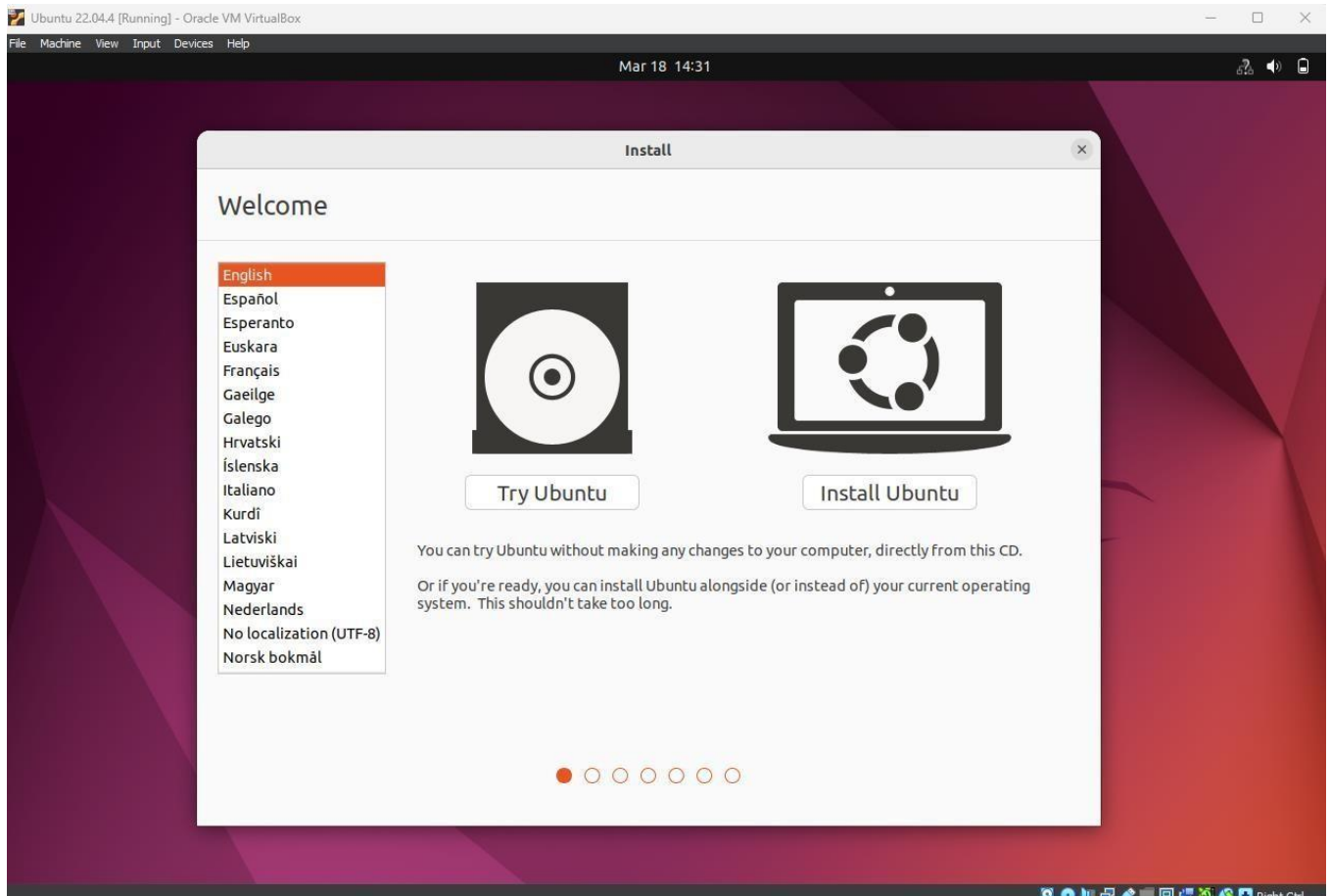
Step-8



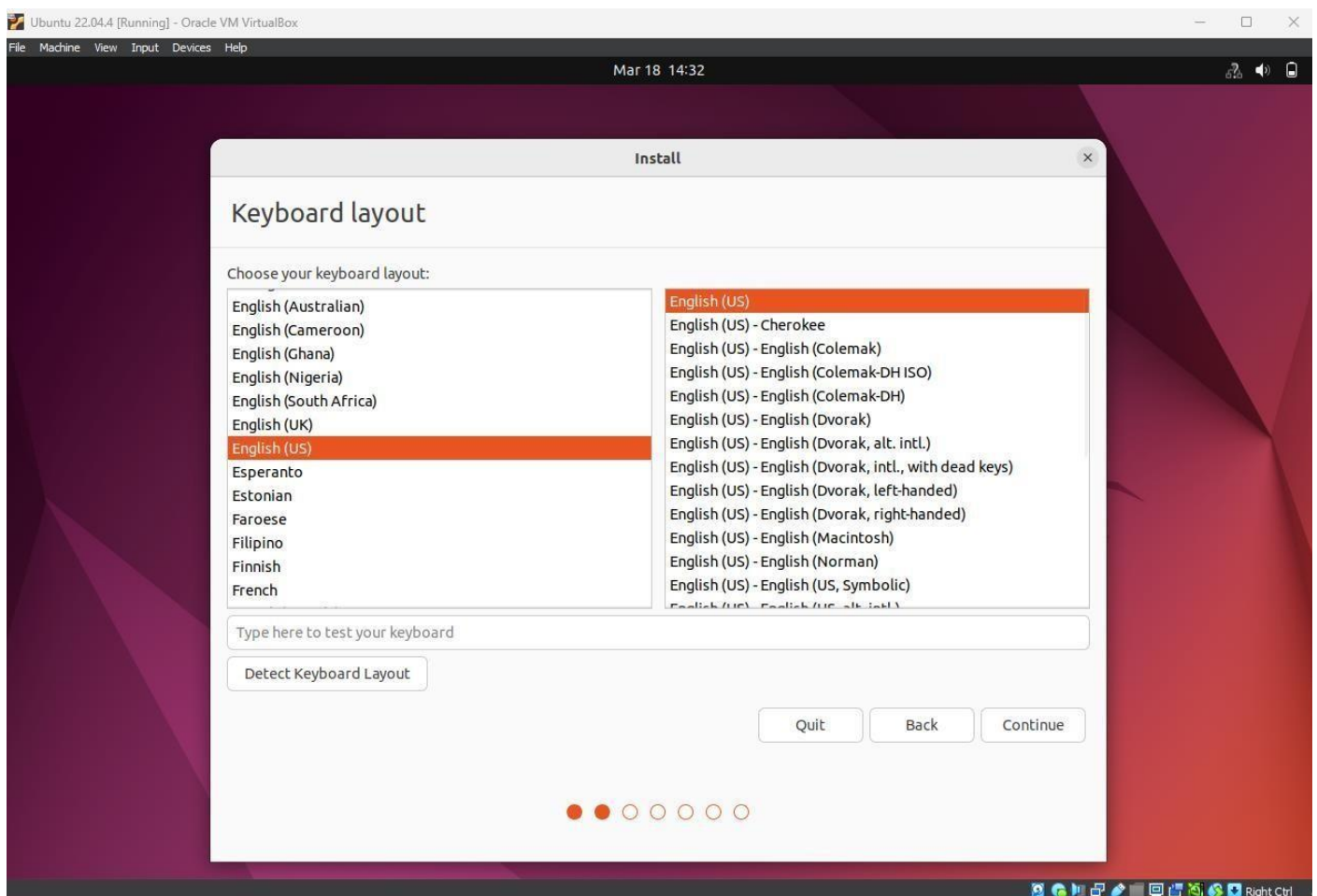
Step-9



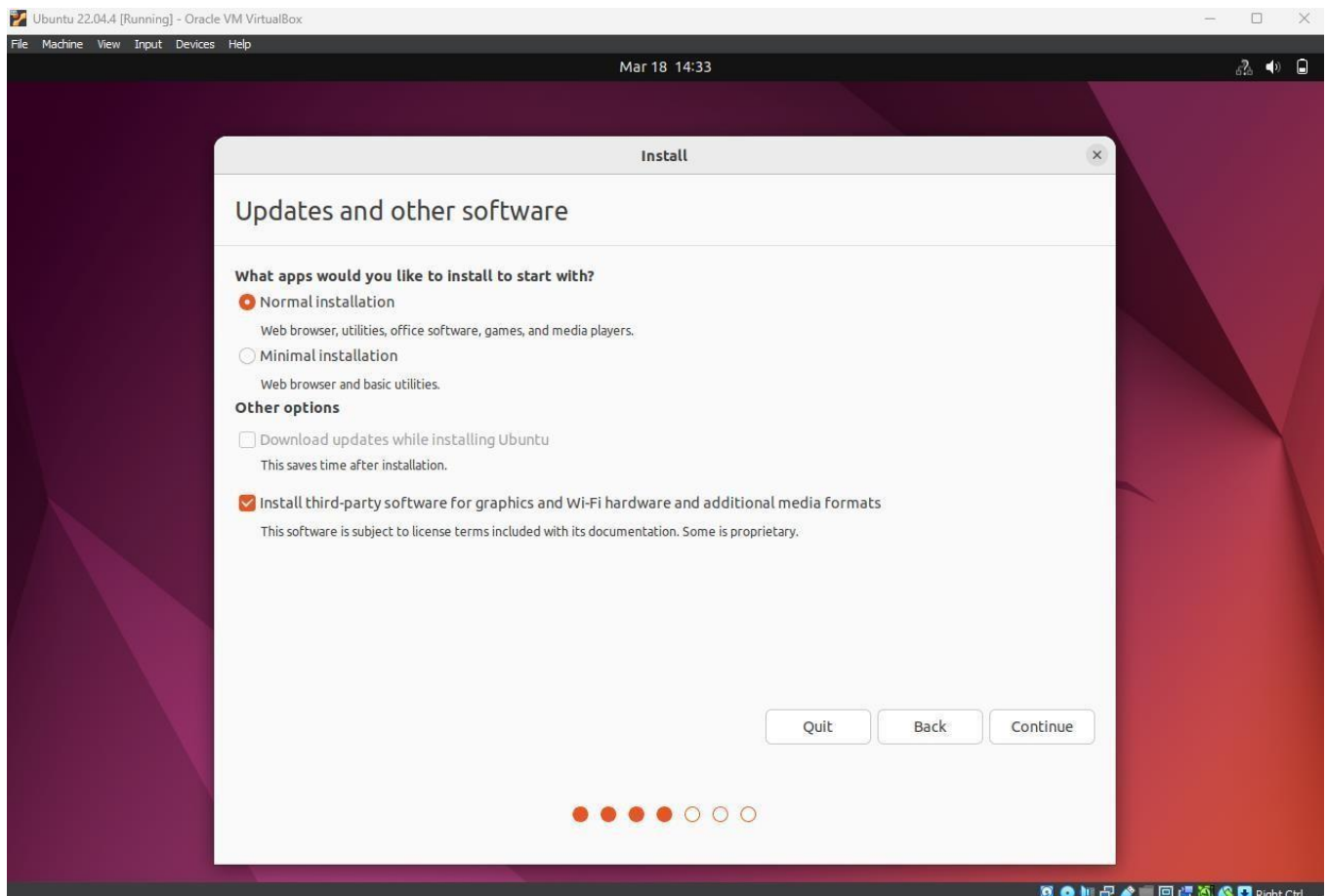
Step-10



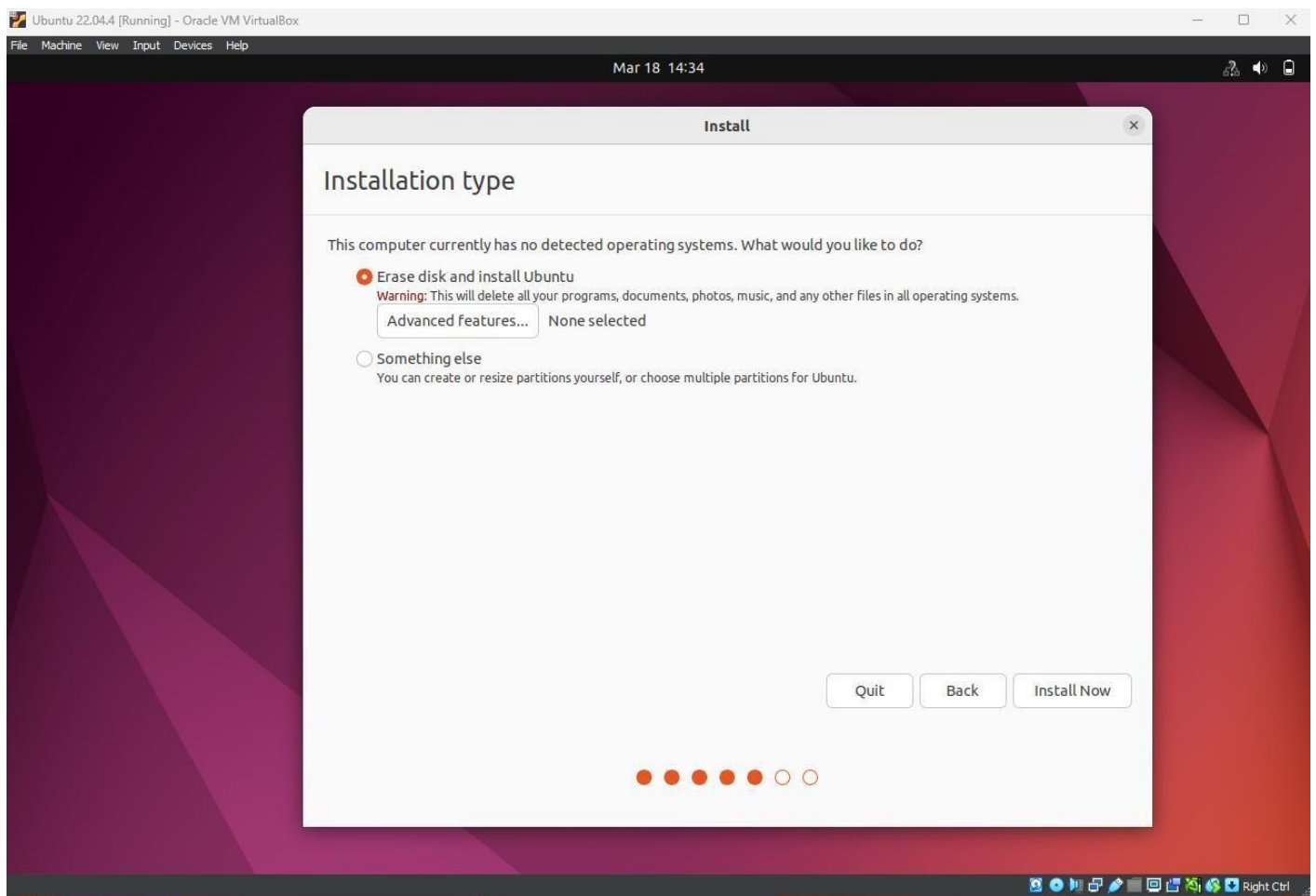
Step-11



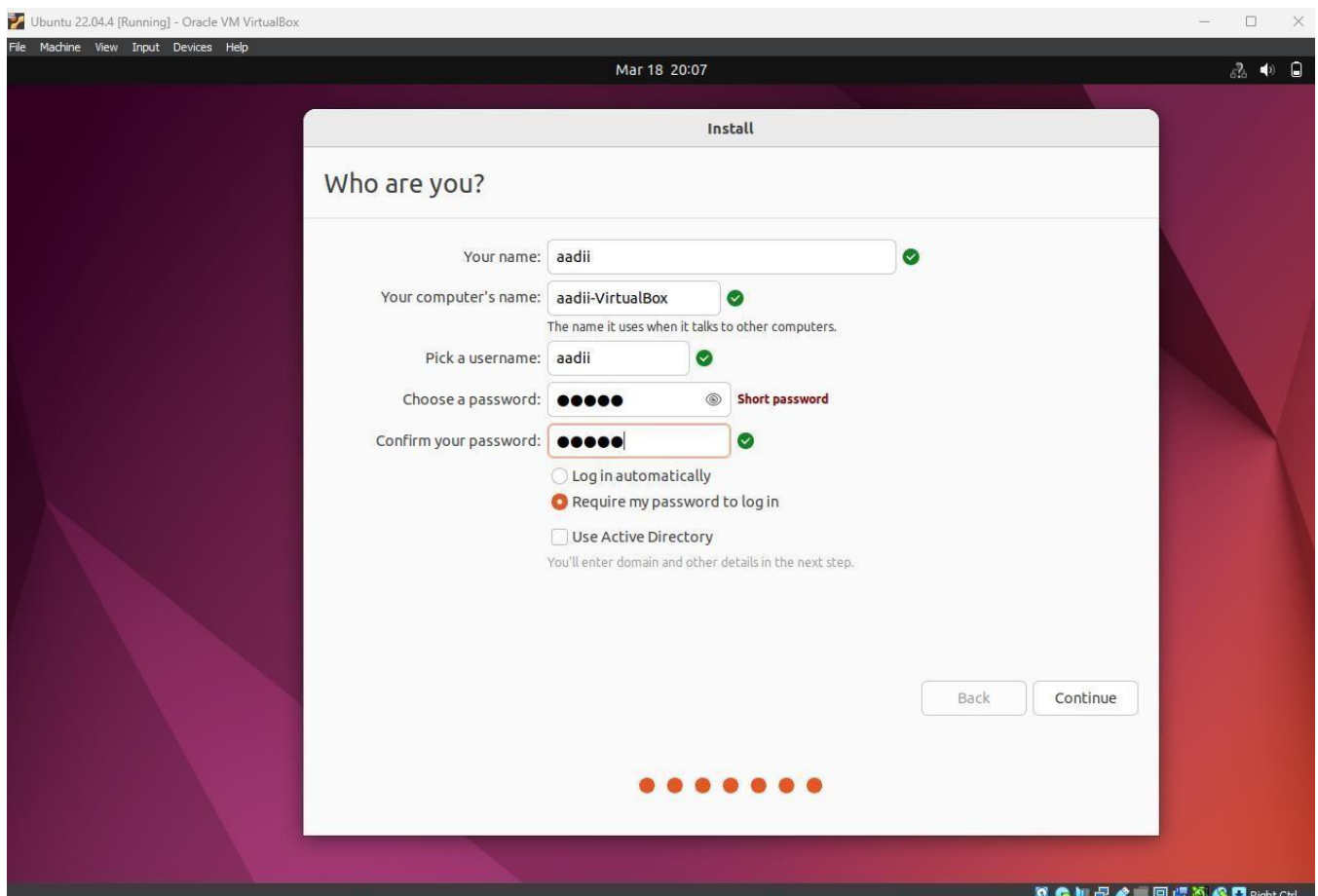
Step-12



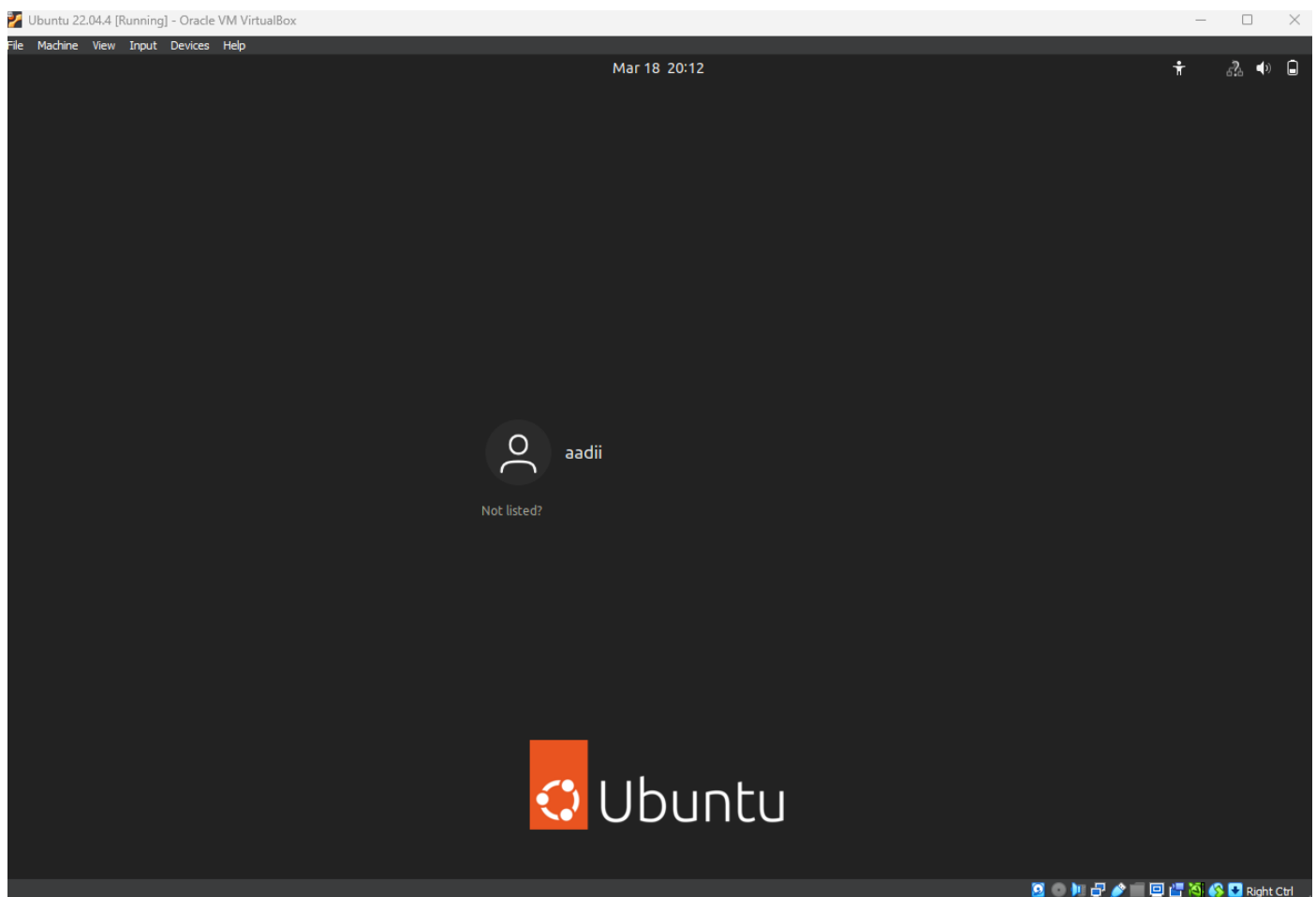
Step-13



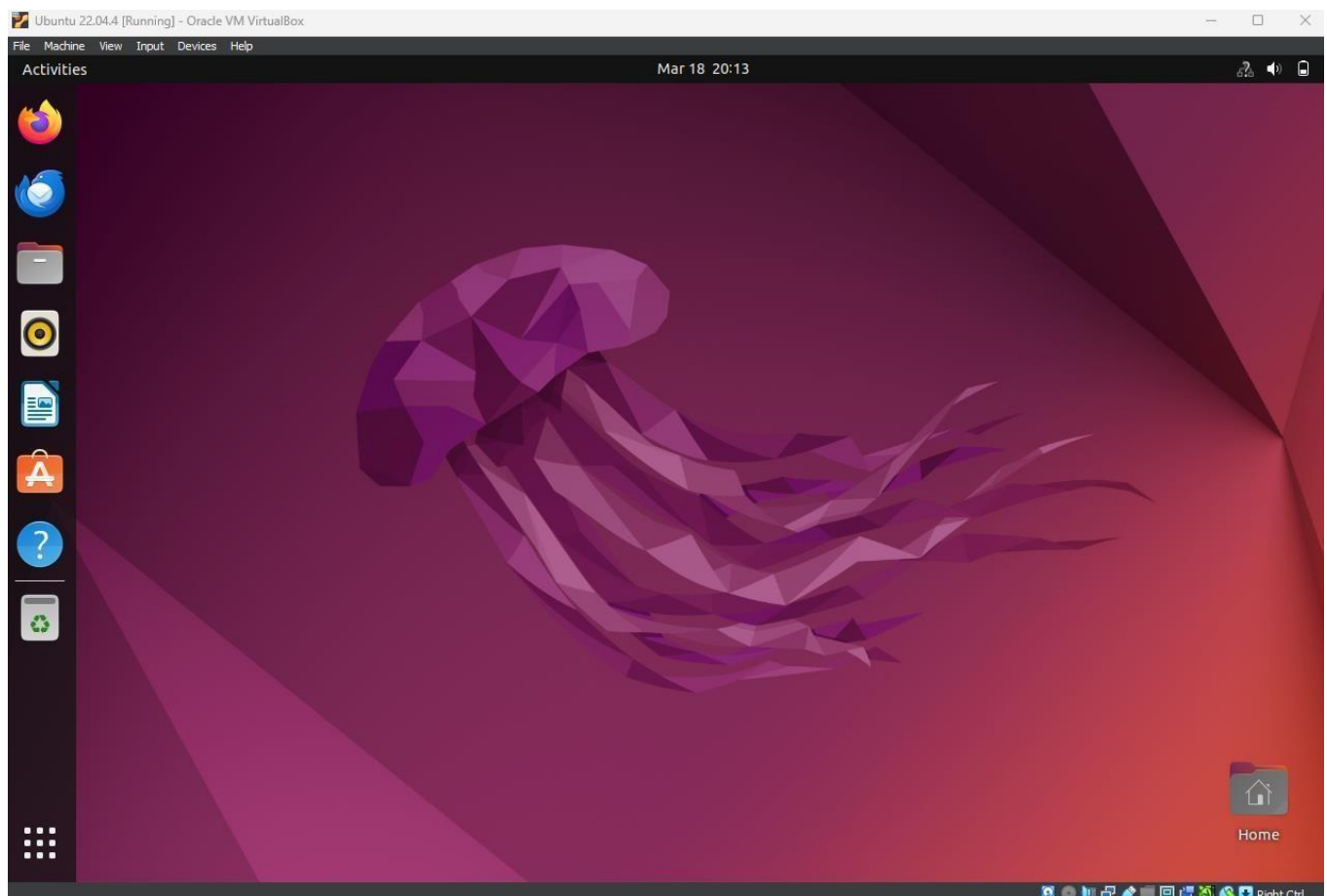
Step-14



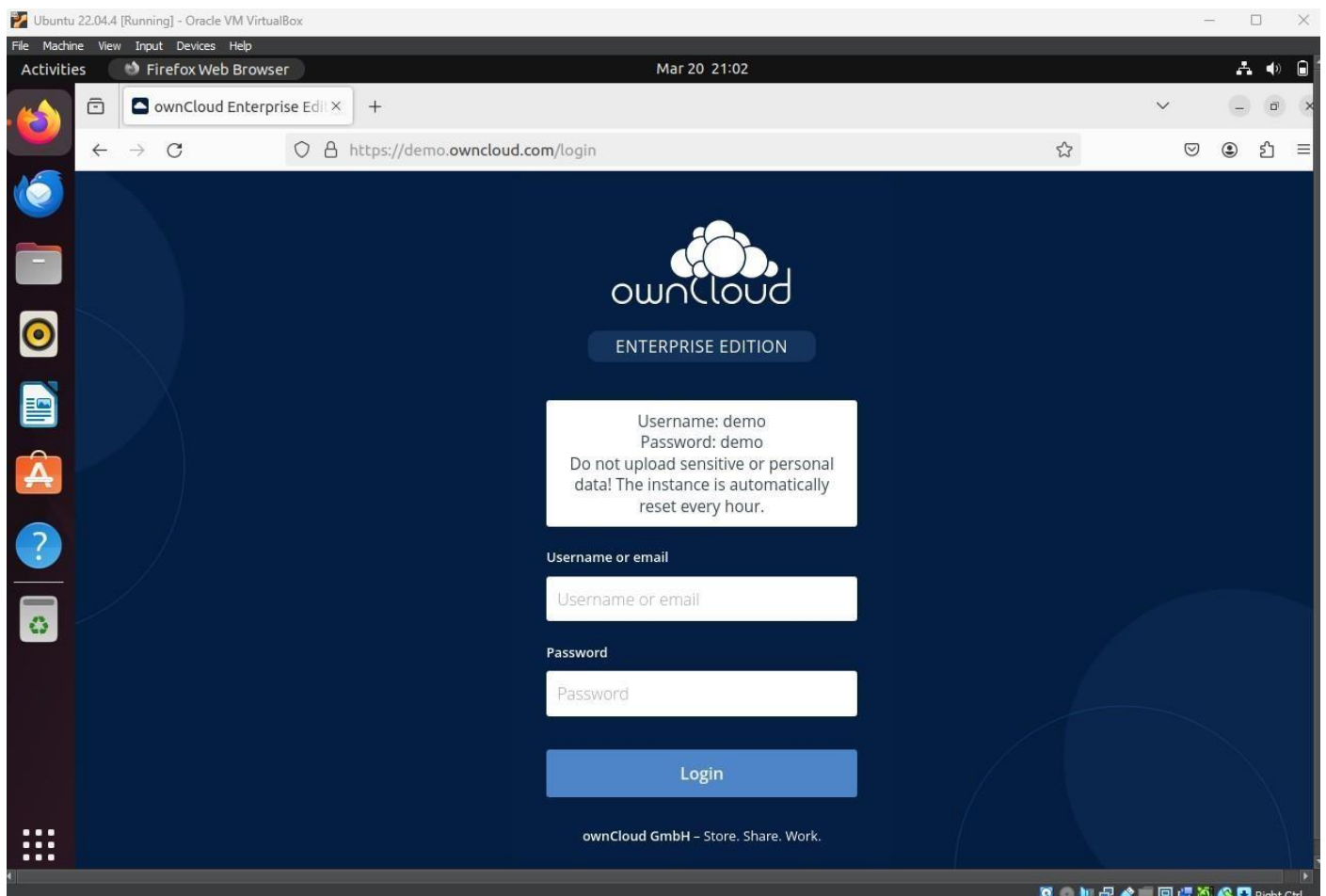
Step-15



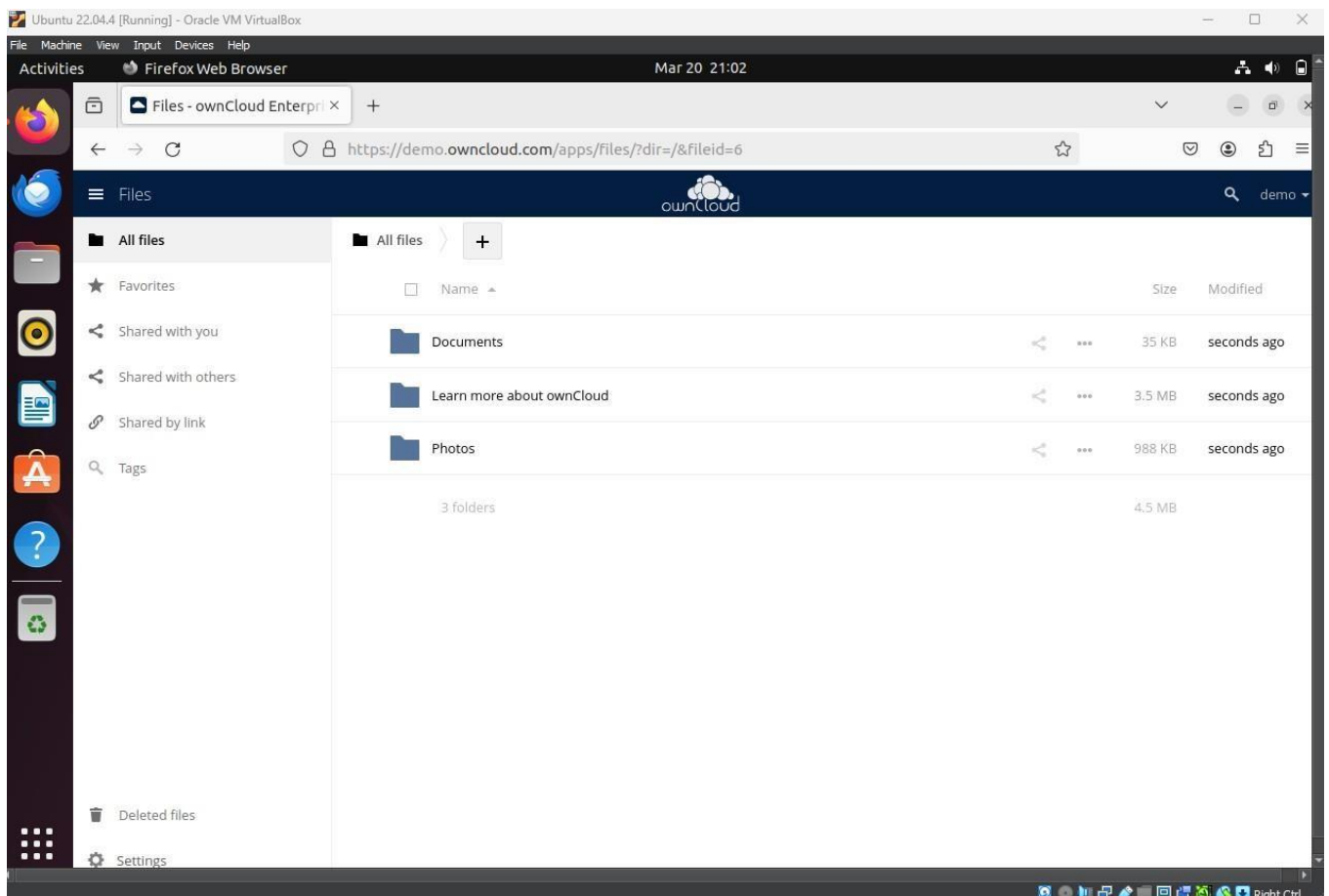
Step-16



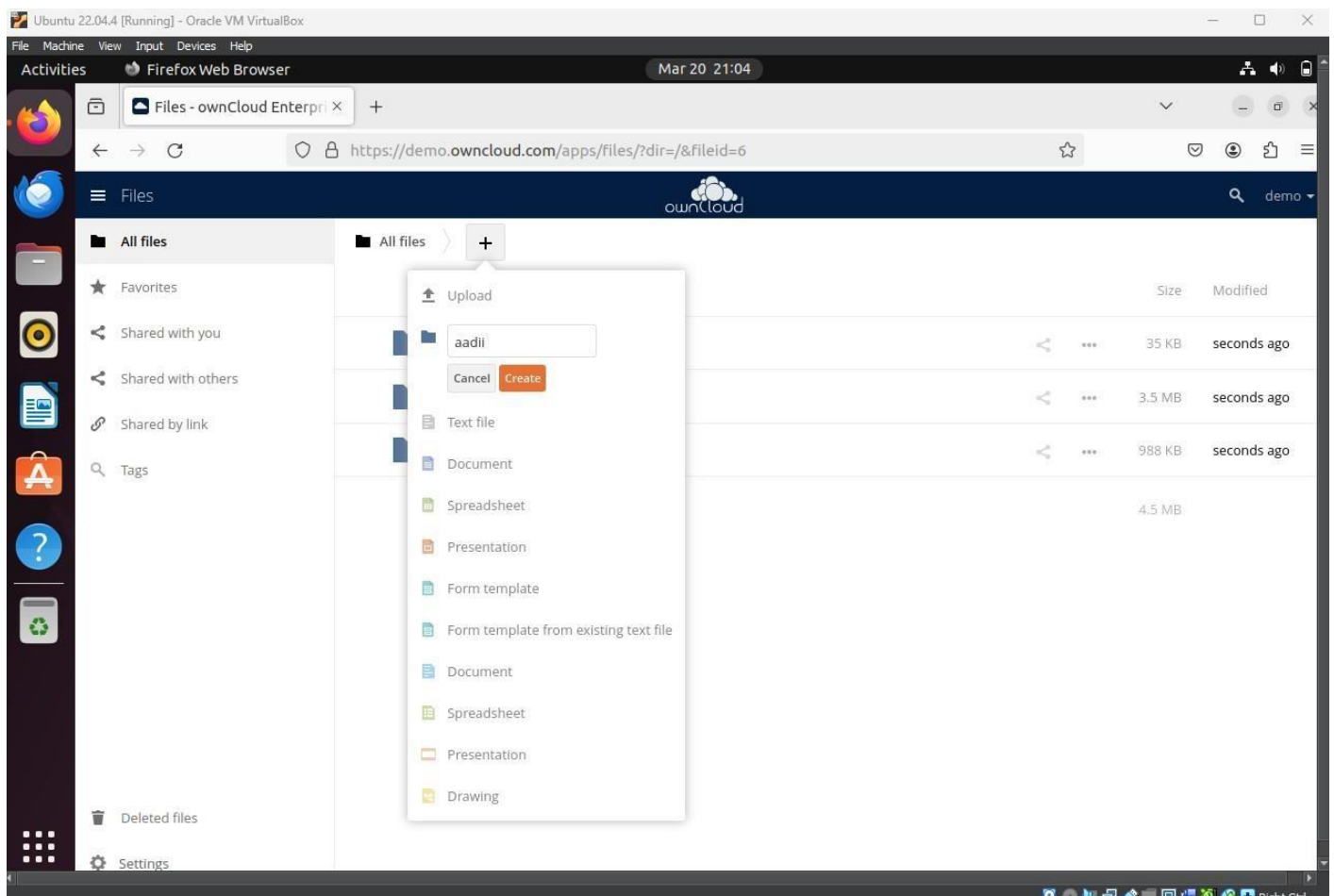
Step-17



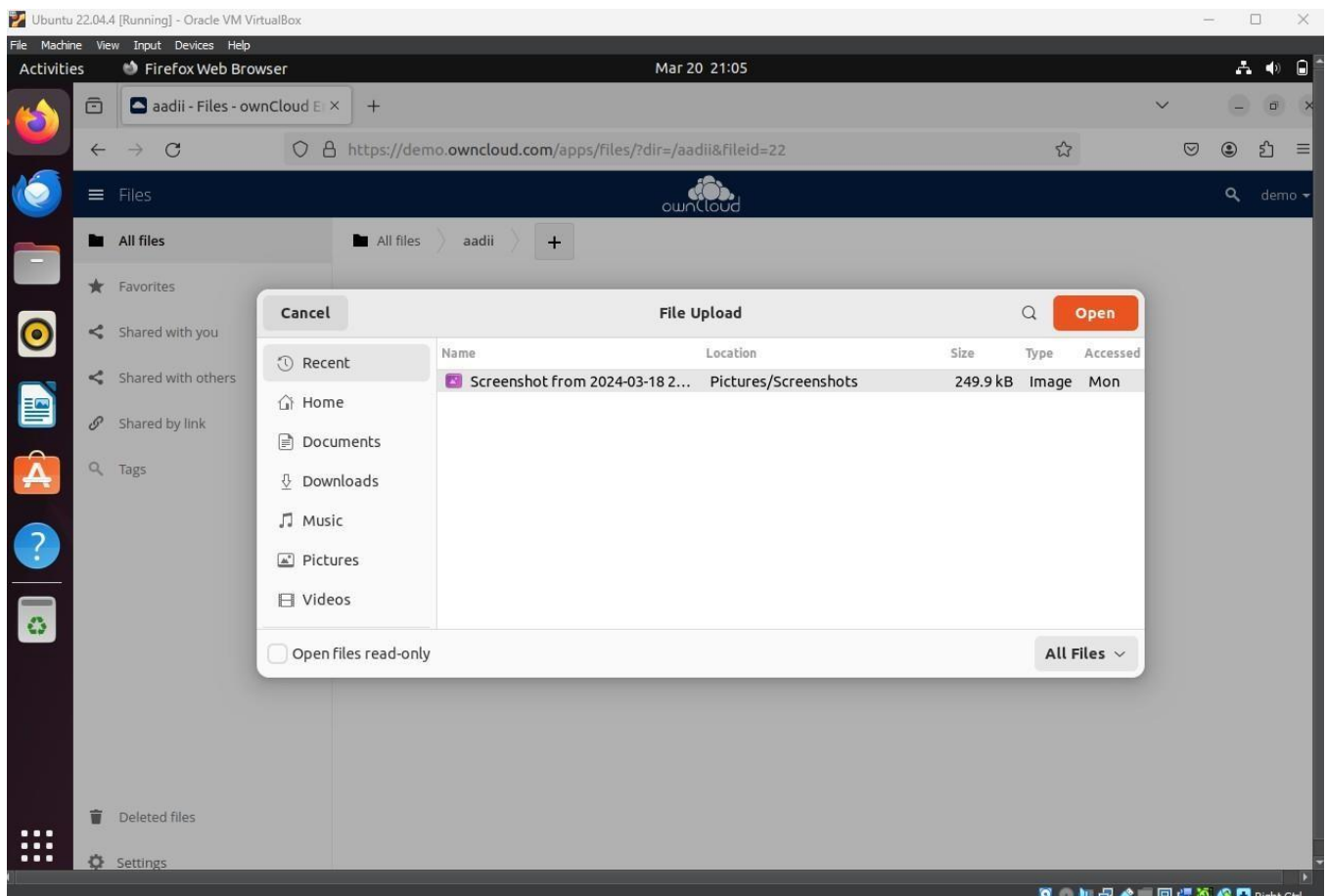
Step-18



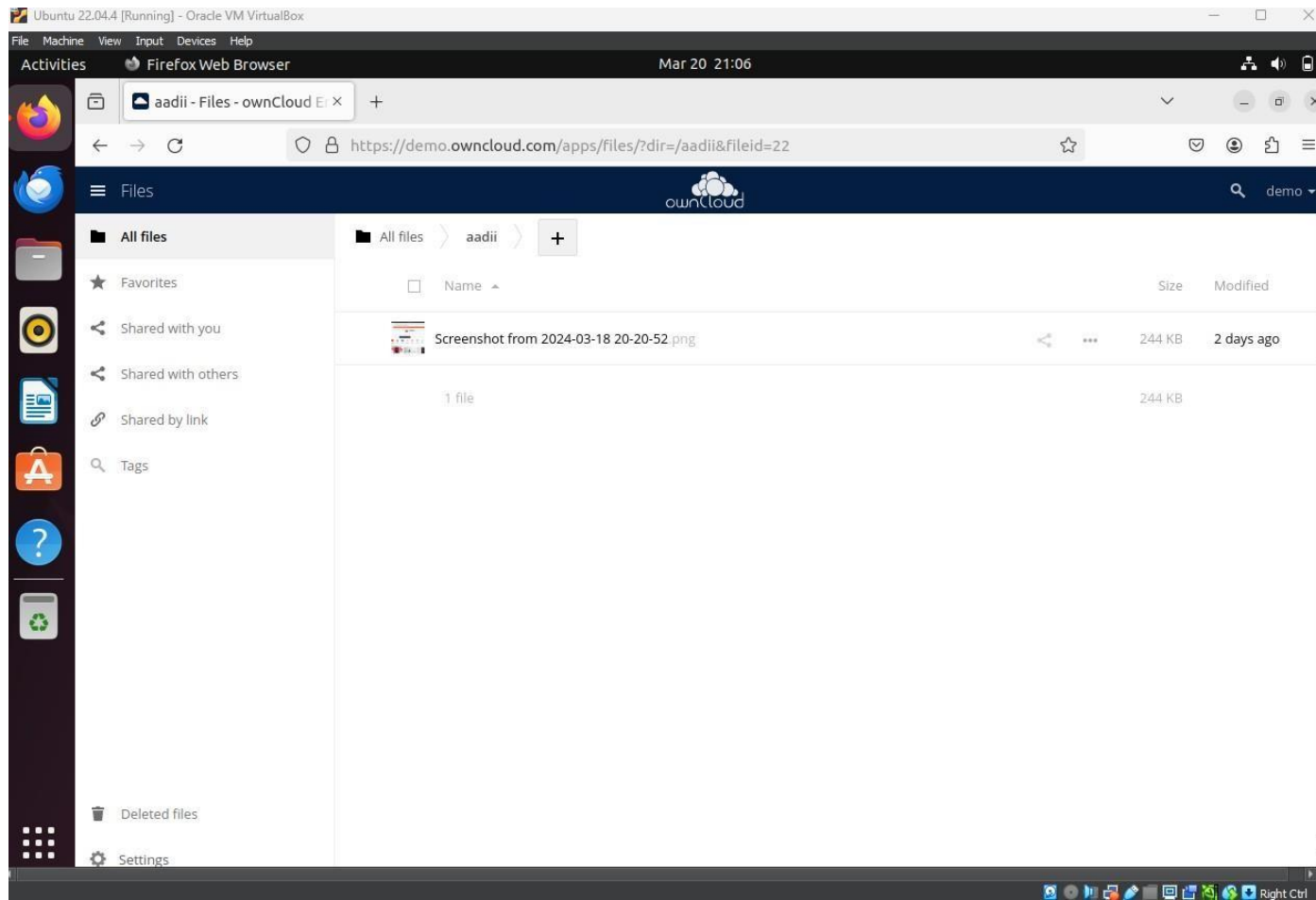
Step-19



Step-20



Step-19



Step-22

Step-19

