

Ex No: 3

Cold Migration of VM from one host to another

Date : 19/07/25

Aim:

To perform Cold Migration of a Virtual Machine (VM) from one host to another host.

Procedure:

1. Create and run a Java program inside a VM on Host A.

```
tce@tce-VirtualBox:~$ java -version
openjdk version "17.0.7" 2023-04-18
OpenJDK Runtime Environment (build 17.0.7+7-Ubuntu-0ubuntu118.04)
OpenJDK 64-Bit Server VM (build 17.0.7+7-Ubuntu-0ubuntu118.04, mixed mode, sharing)
tce@tce-VirtualBox:~$
```

```
tce@tce-VirtualBox:~$ nano anbarasan.java
tce@tce-VirtualBox:~$
```

```
GNU nano 2.9.3 anbarasan.java Modified

import java.util.Scanner;

public class anbarasan {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter the number of terms for Fibonacci series: ");
        int count = scanner.nextInt();

        int first = 0, second = 1;

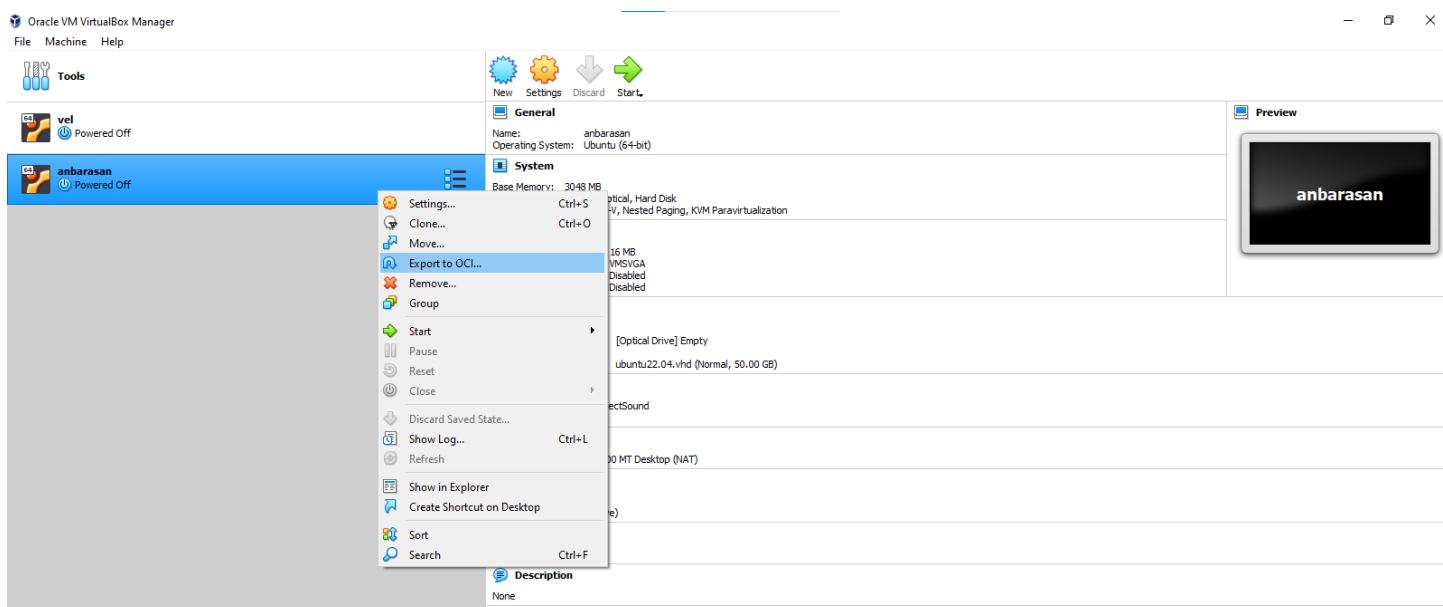
        System.out.print("Fibonacci Series up to " + count + " terms: ");

        for (int i = 1; i <= count; i++) {
            System.out.print(first + " ");

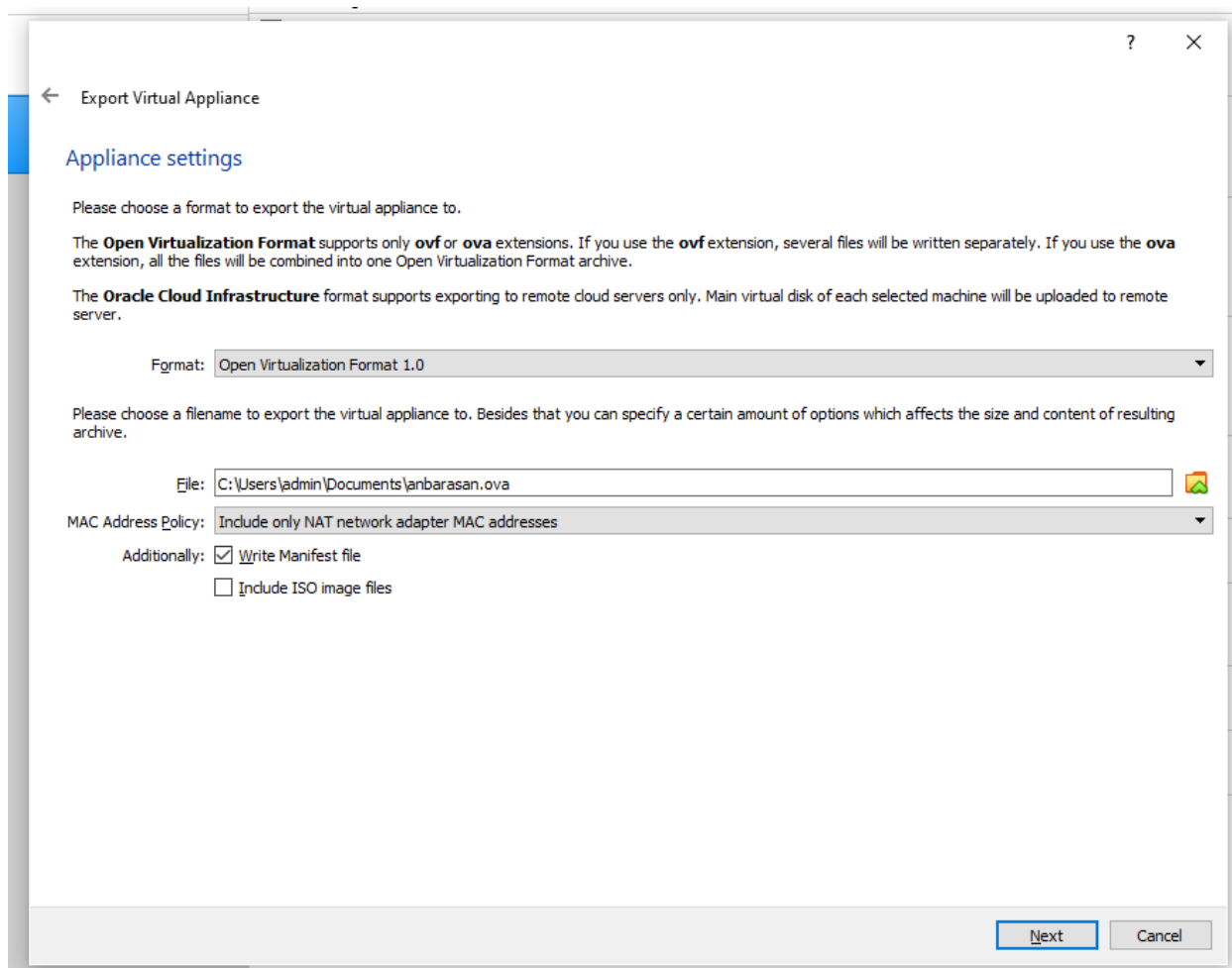
            int next = first + second;
            first = second;
            second = next;
        }
        System.out.println();
        scanner.close();
    }
}
```

```
tce@tce-VirtualBox:~$ javac anbarasan.java
tce@tce-VirtualBox:~$ java anbarasan
Enter the number of terms for Fibonacci series: 5
Fibonacci Series up to 5 terms: 0 1 1 2 3
tce@tce-VirtualBox:~$
```

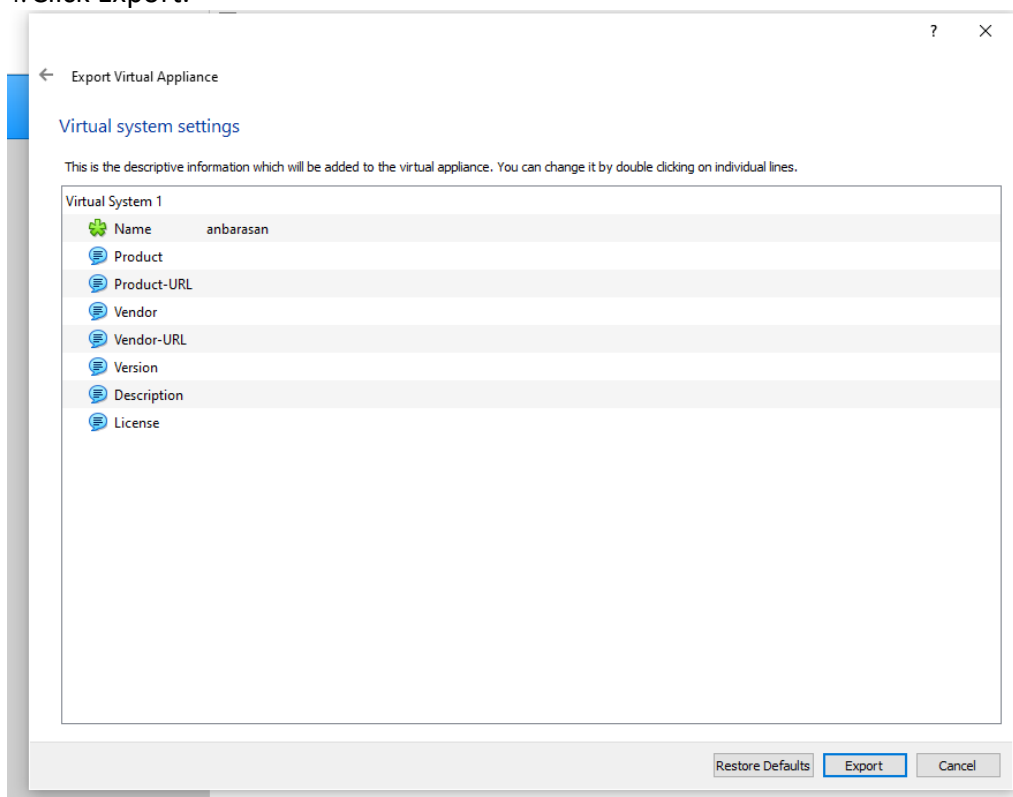
2. Shut down the virtual machine. Right click the VM and select the *Export to OVI* option to export the VM as an .ova file.



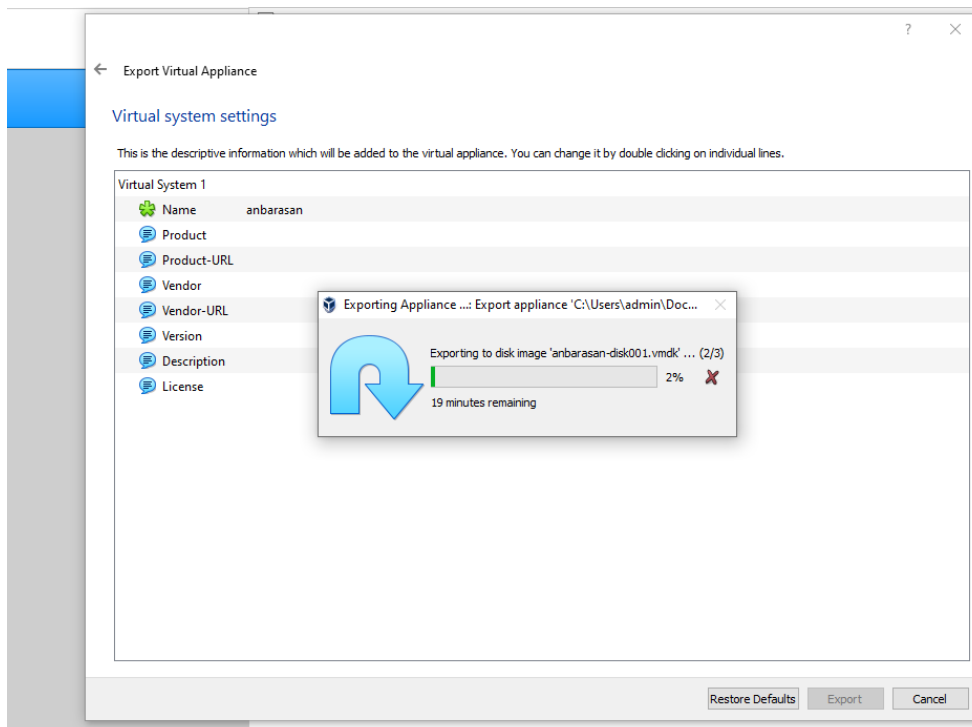
3. Select the required format, file location, MAC address policy and additional feature and click Next.

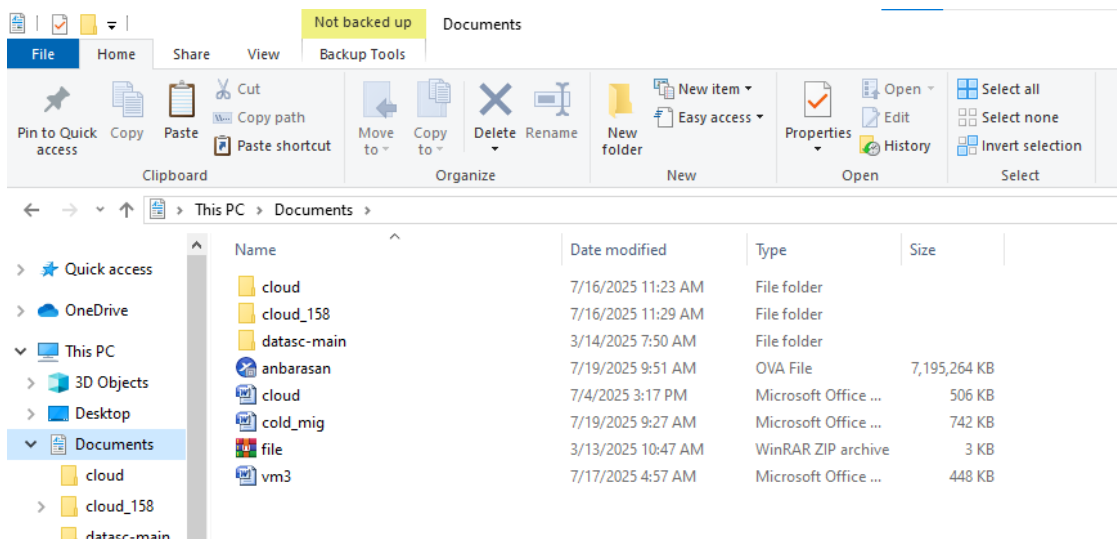


4. Click Export.

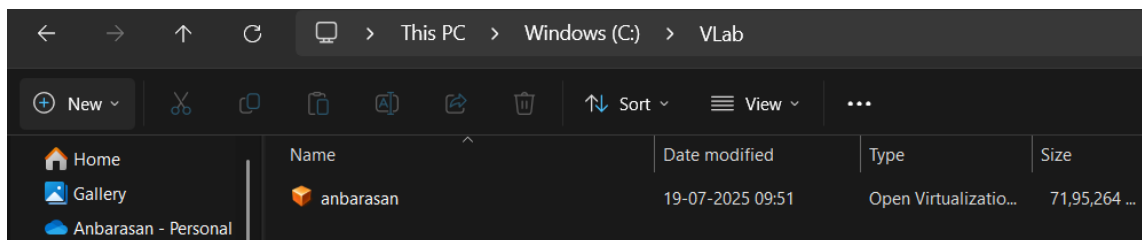


5. The exporting process will be started and on completion of the process, you can see your .ova file on the desired location.

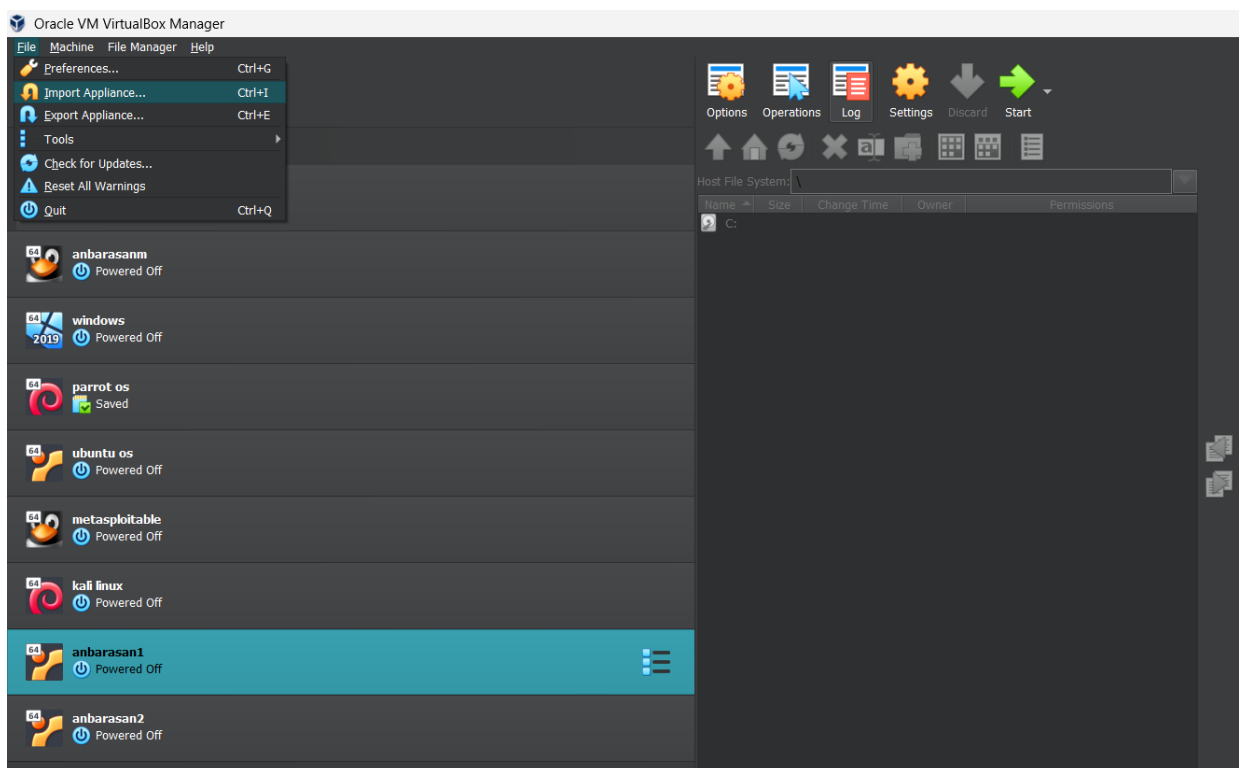




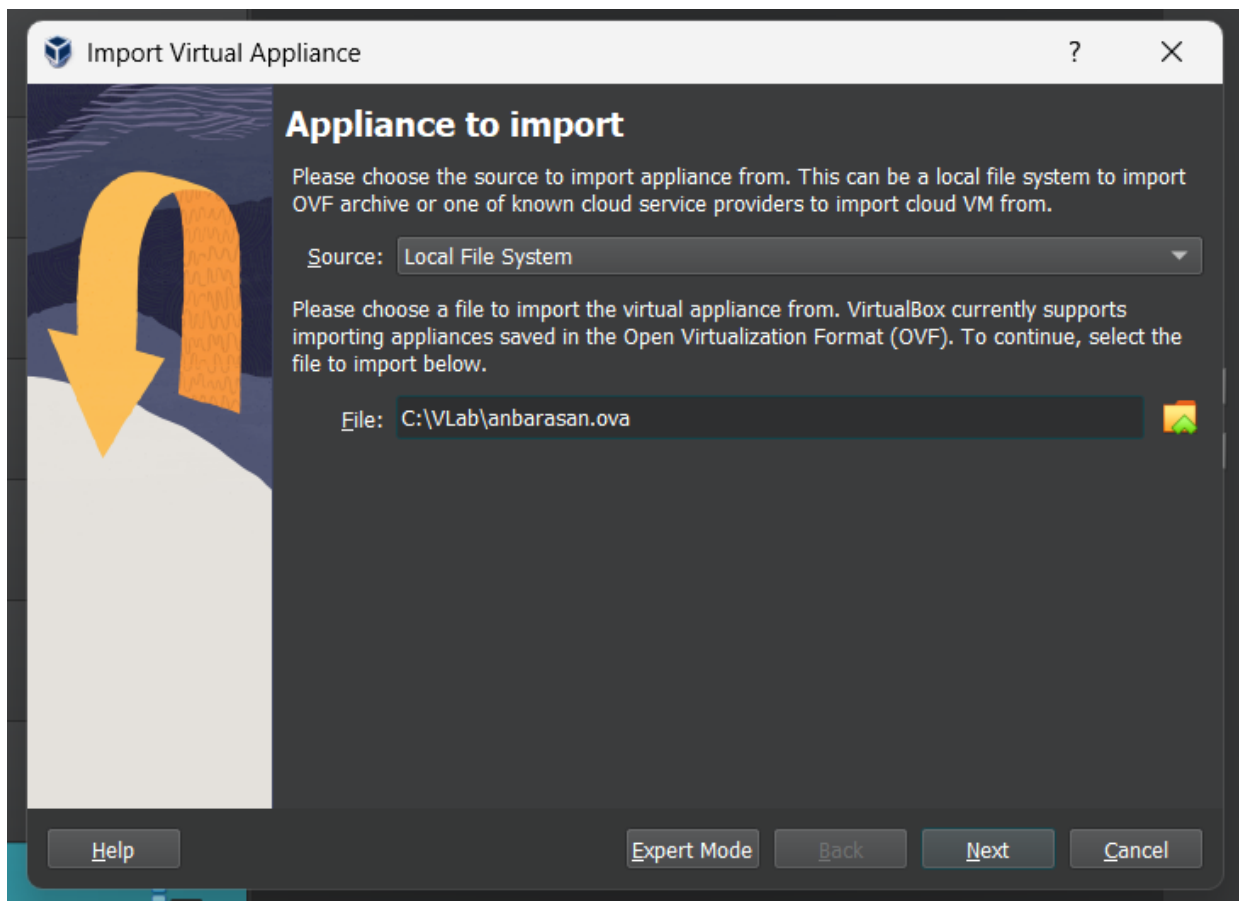
6. Copy the .ova file to a USB drive and transfer the file from the USB to Host B.



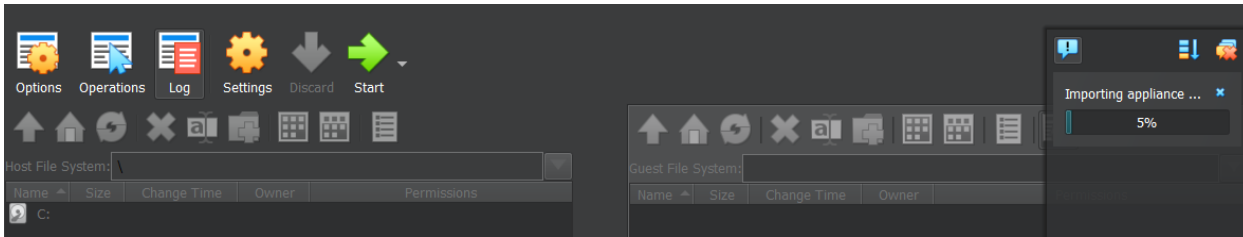
7. Open Oracle VM VirtualBox on Host B and use the *Import Appliance* option(On clicking *File* menu) to import the .ova file into Host B.



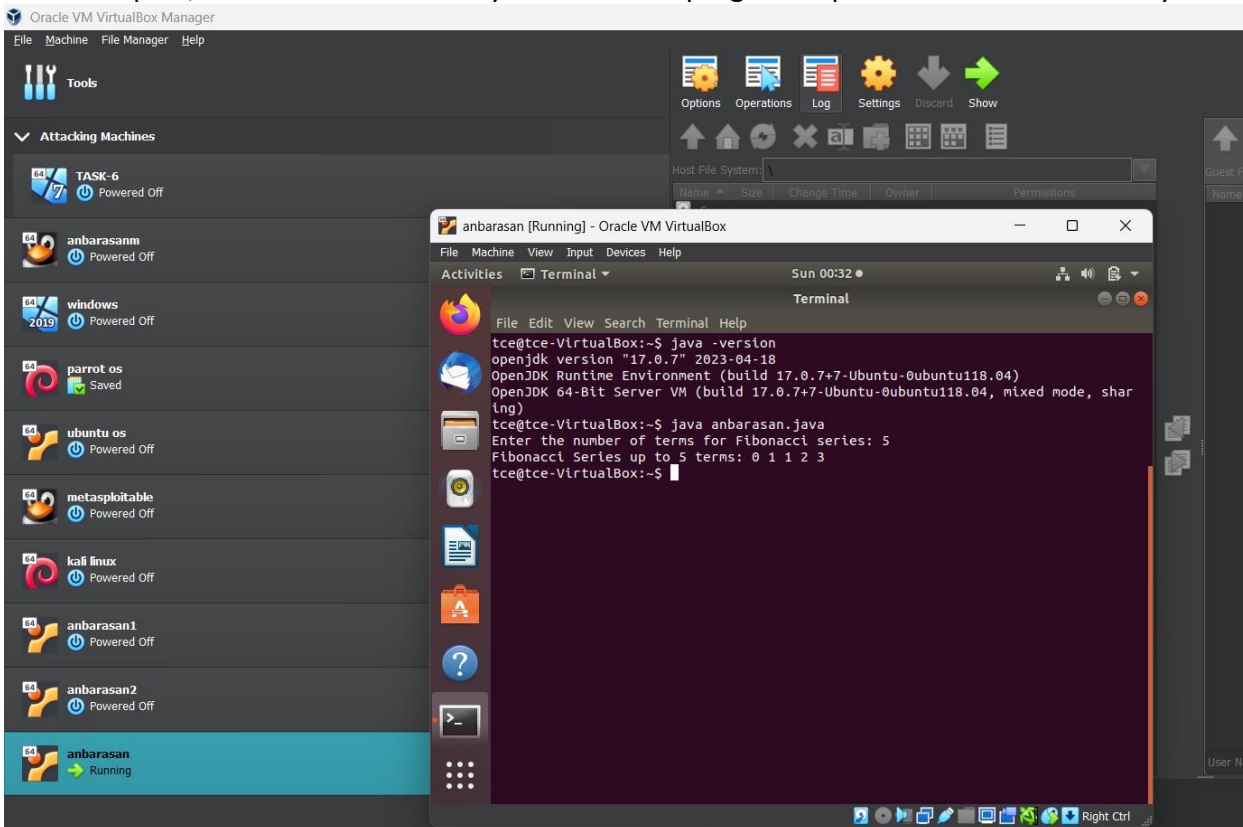
8. Select the location of .ova file and click Next. Then click Finish.



The importing process starts.



9. After import, start the VM and verify that the Java program is present and runs correctly.



Result:

Thus, the virtual machine was successfully migrated from one host to another using cold migration.