

# RESEARCH & PROJECT SUBMISSIONS



**Program: CESS**

**Course Code:**

**CSE 451**

**Course Name:**

**Computer and Network Security**

**Examination Committee**

**Dr. Ayman Bahaa**

**Student Name:**

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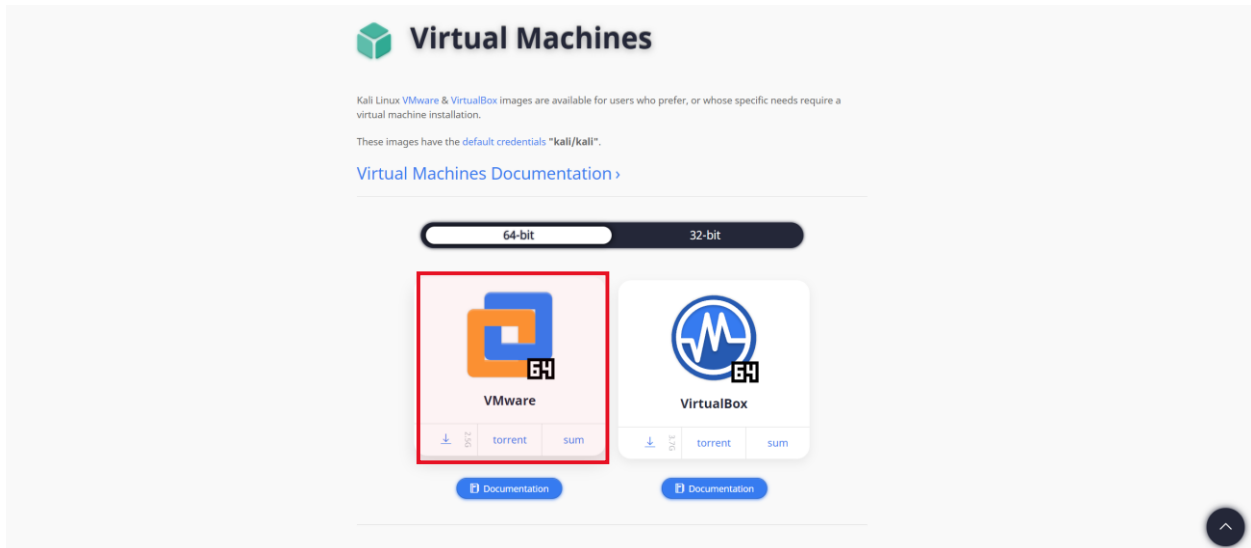
**Student Name:**

**18P7231**

**Ain Shams University  
Faculty of Engineering  
Fall Semester – 2022**

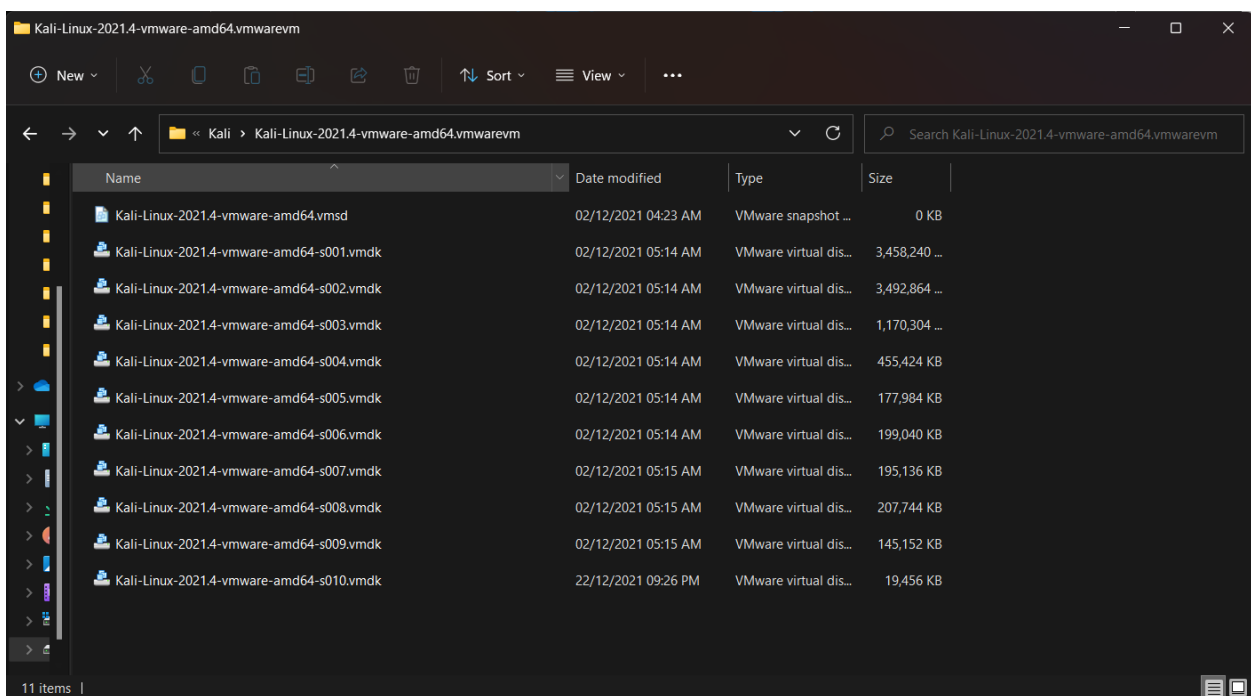
## Step 1: Downloading Kali Linux

I didn't have access to the OVF file mentioned in the lab, so I downloaded it from <https://www.kali.org/get-kali/#kali-virtual-machines>



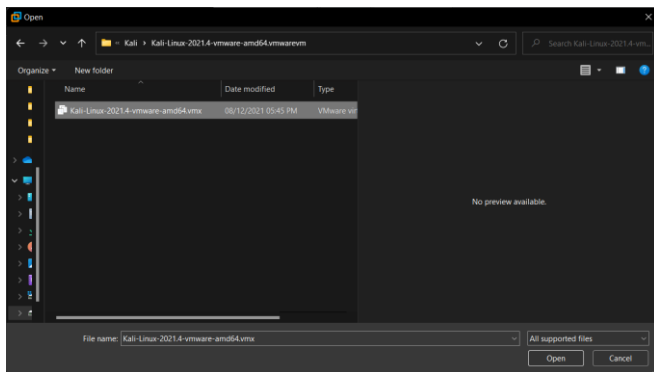
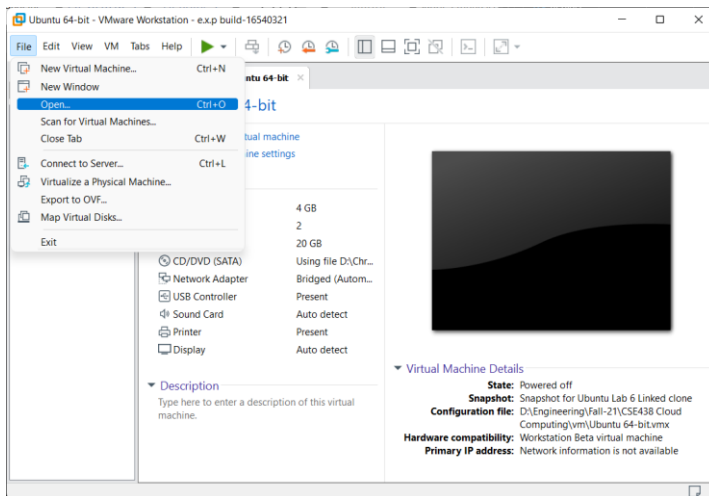
The distribution came packed in 7Z format. When unpacked, the VM was ready for use and we only need to add the .vmx file to our VMware.

Unpacked file:

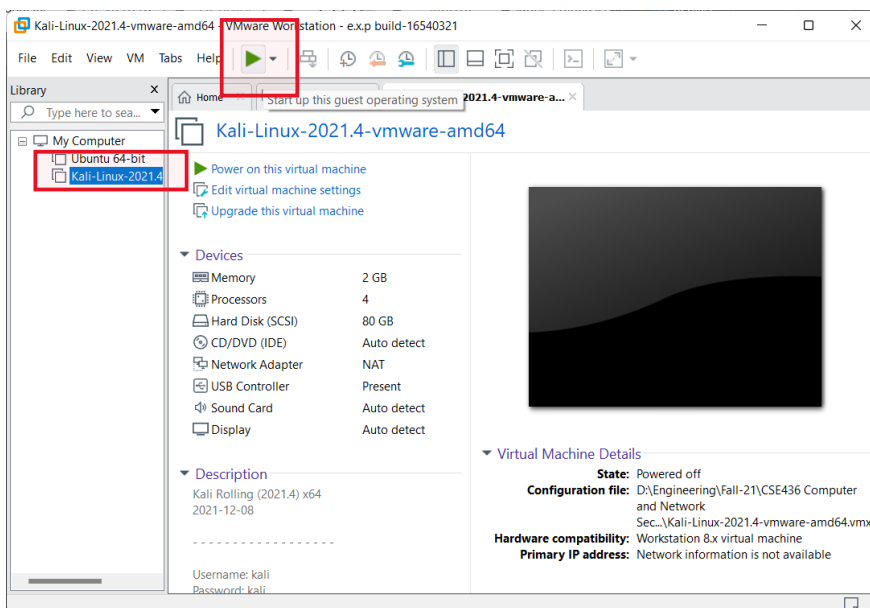


## Step 2: Adding Kali to VMware

Head to File > Open, and follow instructions

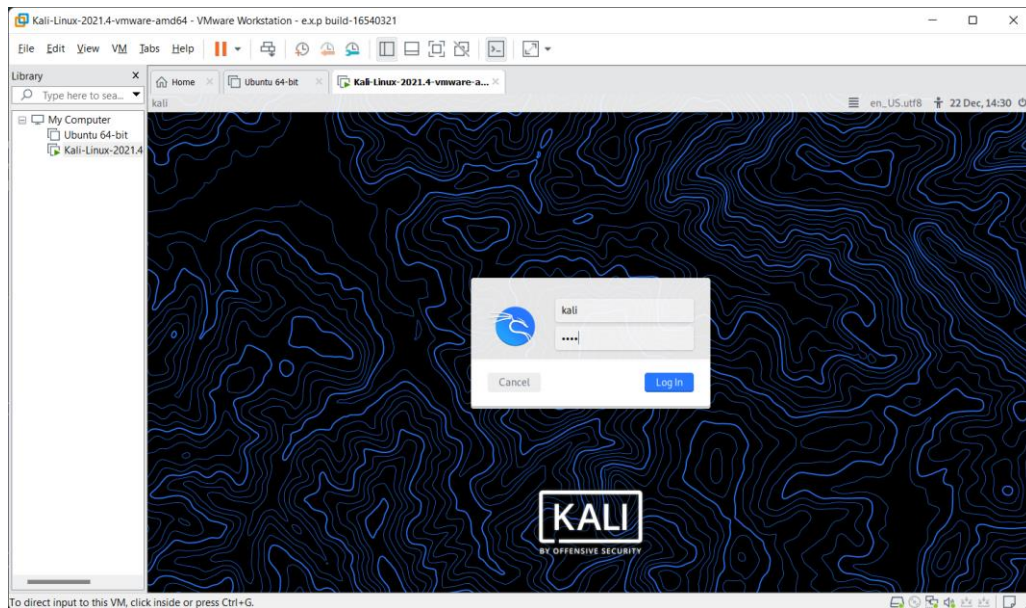


Kali is now added and ready to run:

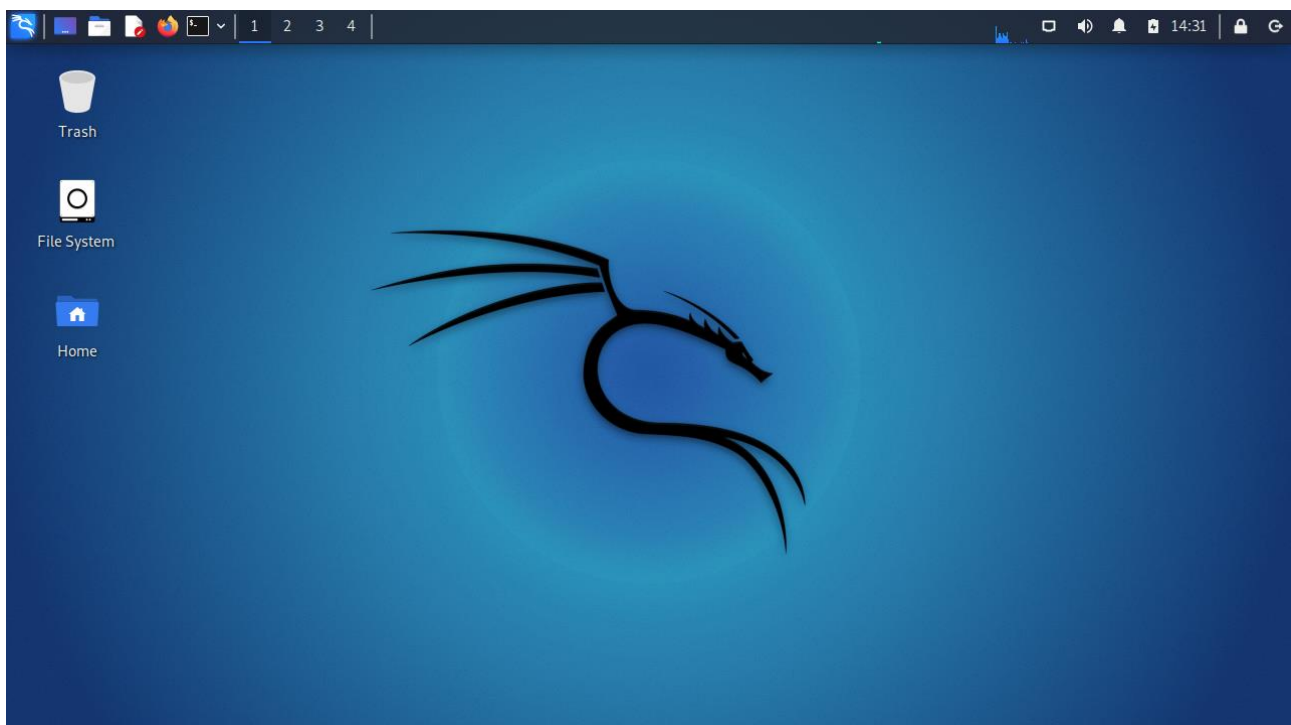


## Step 3: Configuring Kali

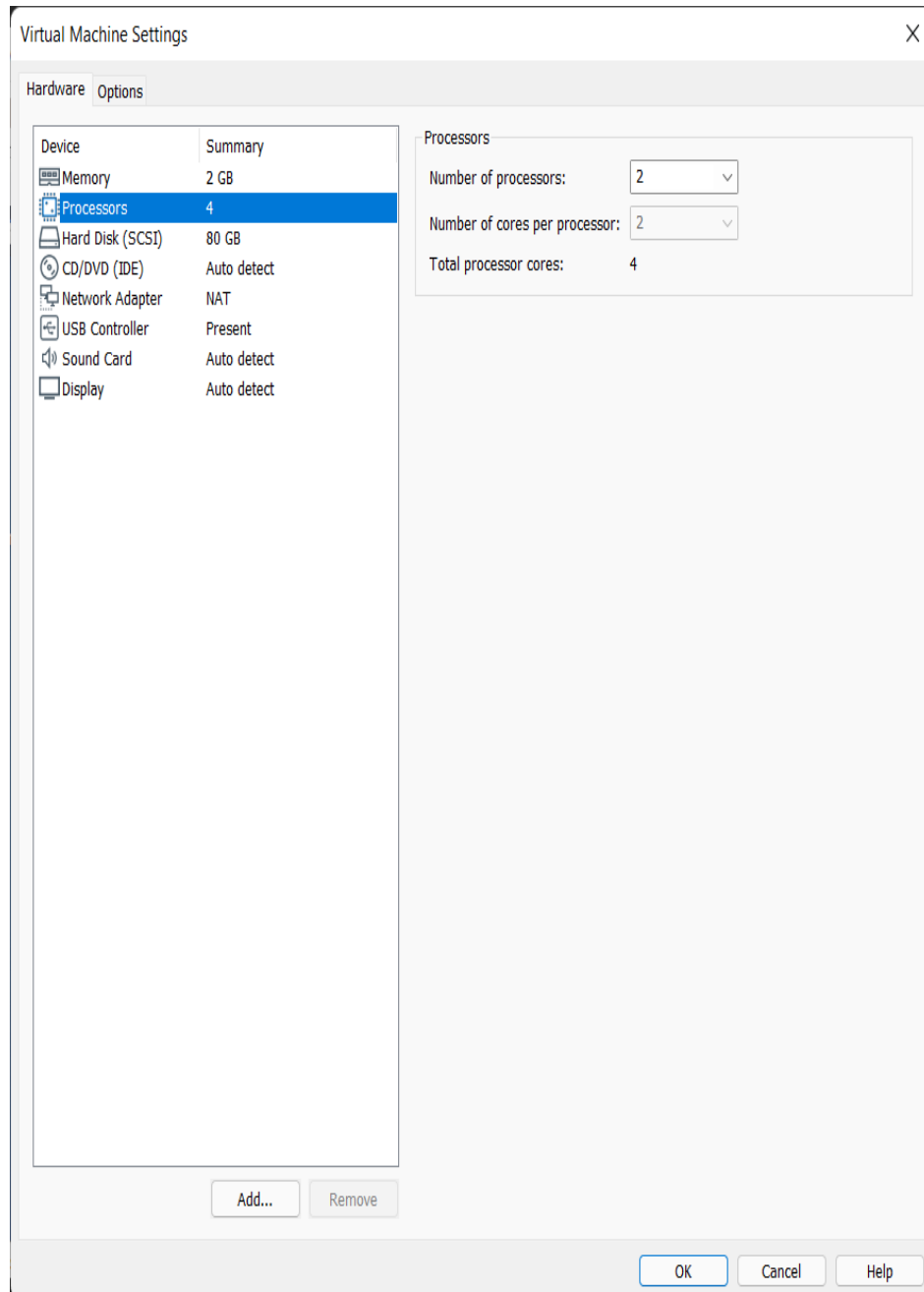
After running the VM, we get to the login page. Login: Kali. Password: kali.



We are in!



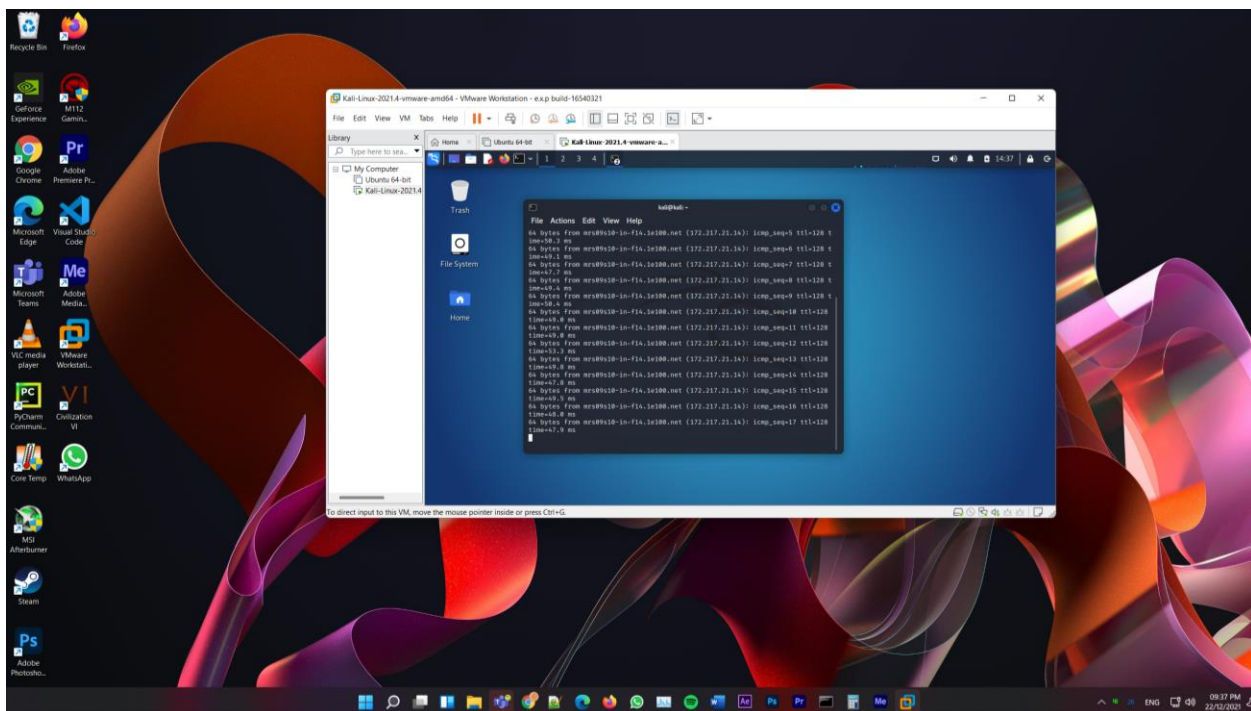
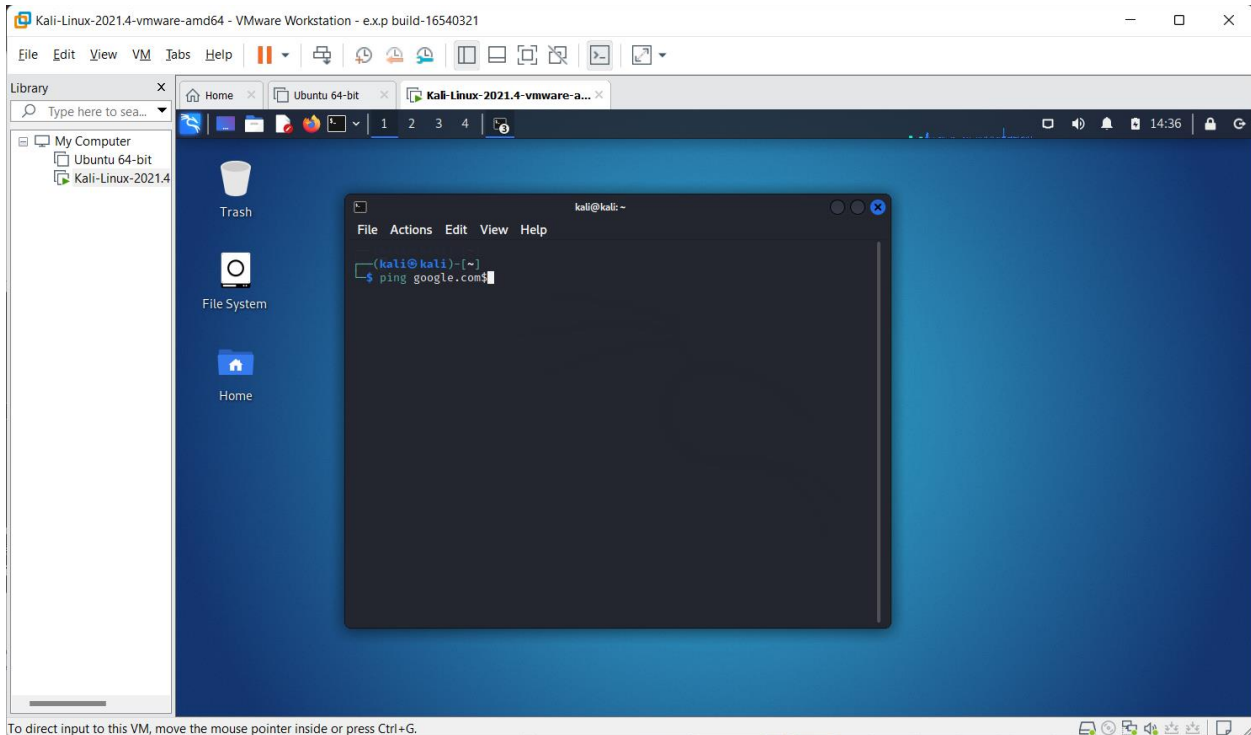
By default, the VM is assigned with 4 processors, 80GB (dynamic storage) and 2 GB of RAM. I find that suitable for my usage and my hardware resources so I'm not going to change them, but in the future I might (from right clicking on VM > Settings)



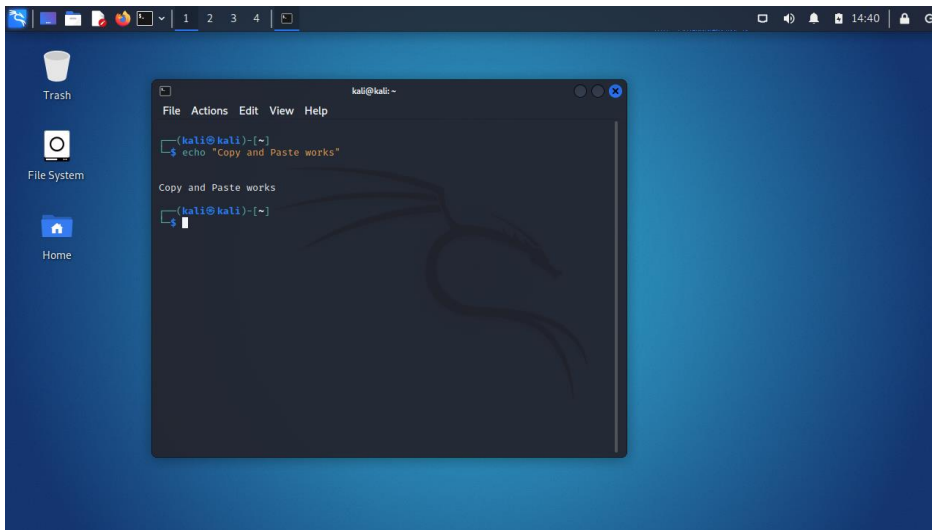


## Step 4: Testing Kali Networking

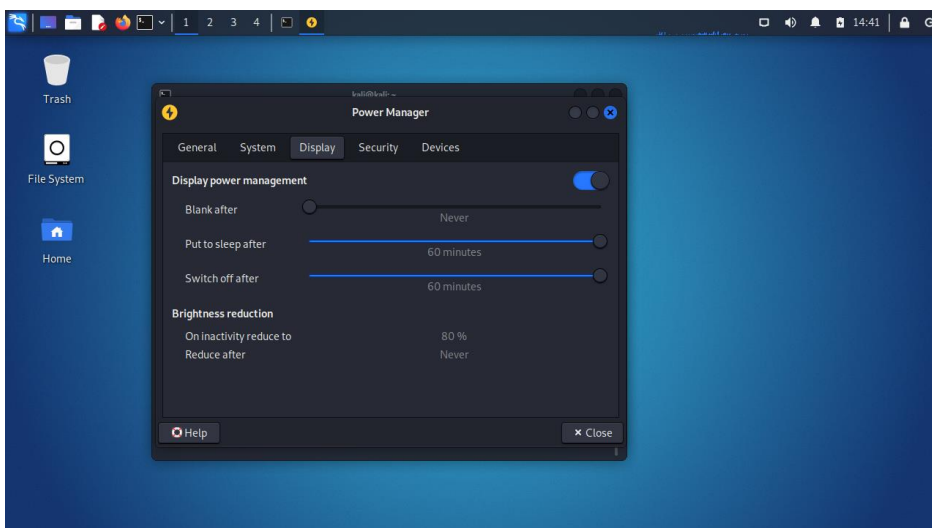
I run the command “ping google.com” in the terminal and here are the results:



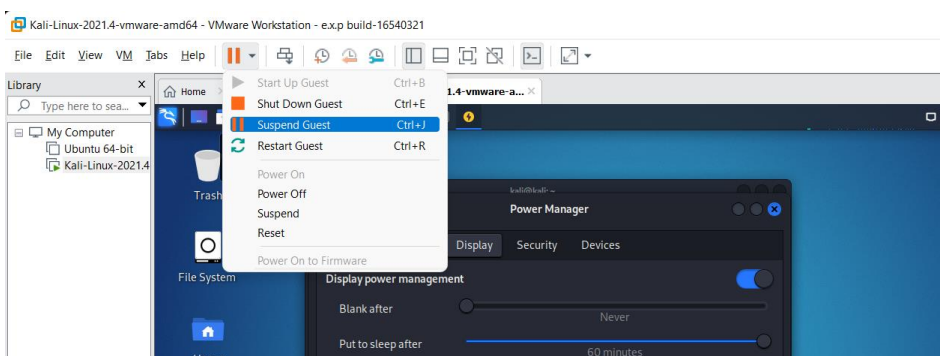
## Step 5: Testing Echo



## Step 5: Power Management



## Step 5: Suspending the machine





**a) Discuss the key features of KALI Linux distribution**

The following are the features of Kali Linux:

- ◆ Over 600 penetration testing tools pre-installed
- ◆ Developed in a secure environment
- ◆ Free (as in beer) and always will be
- ◆ Wide-ranging wireless device support
- ◆ Custom Kernel, patched for injection
- ◆ GPG signed packages and repositories
- ◆ A Trustable operating system
- ◆ Forensic Mode
- ◆ Kali Linux Full Disk Encryption
- ◆ Kali Linux Metapackages
- ◆ Kali Linux accessibility features
- ◆ ARMEL and ARMHF supports
- ◆ Multi-language support
- ◆ Full customization of Kali ISO
- ◆ Live USB Boot
- ◆ Kali NetHunter

**b) Put screen-shots of all the steps made in the experiments  
Already shown in the steps.**