**Activity 2.2.1.3 Install KALi Linux in a Virtual Machine on your windows 10 computer.v.2**

# **Introduction.**

**This is a guide** on how to Get, download and install KALi Linux as a Virtual Machine using VMware workstation player 15 or 16.

**Before** you start this KALi Linux install you must have VMware Workstation player running on your computer.

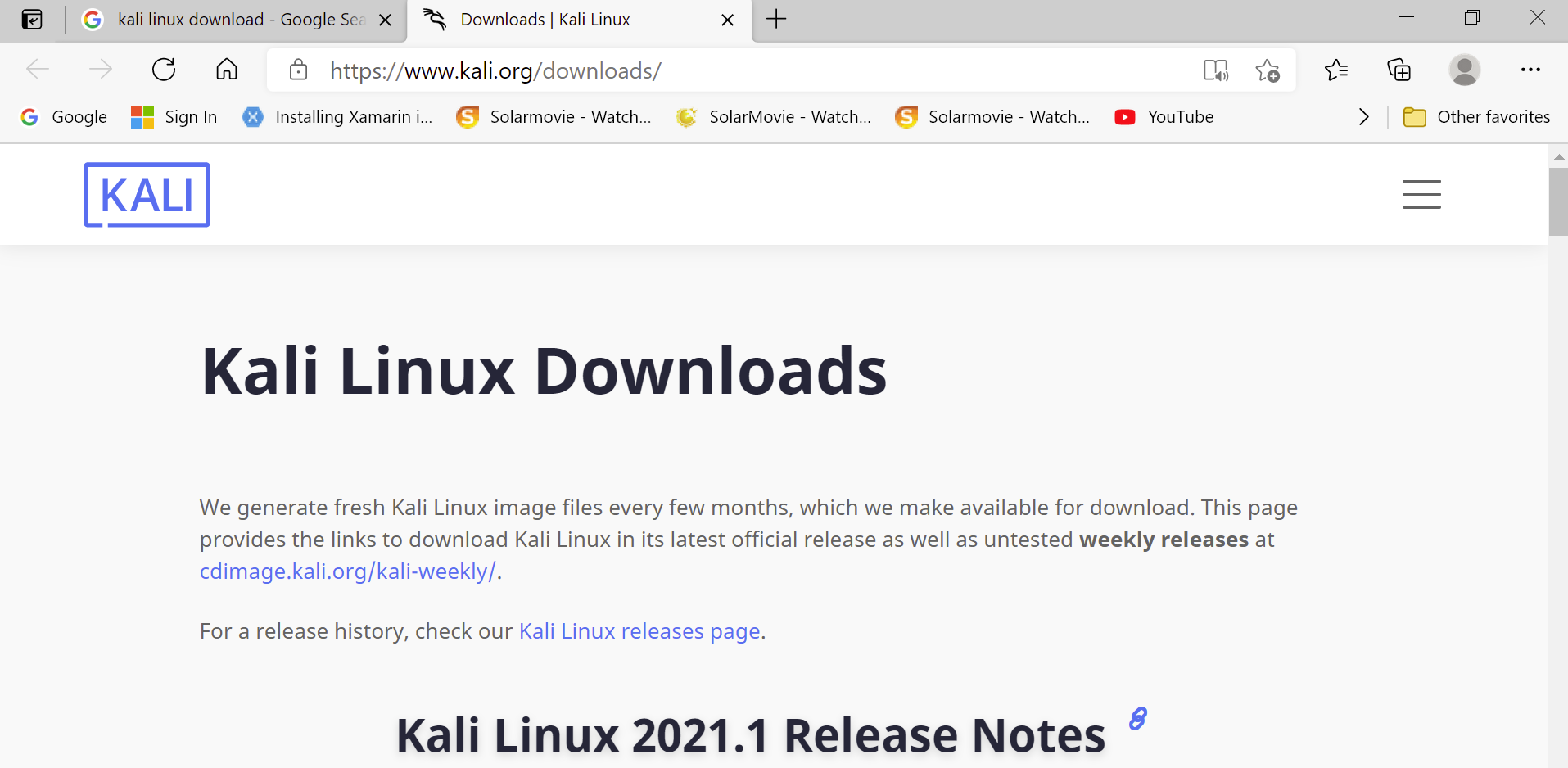
So **what we are going to show you** is the following; Get and Download KALi Linux from <https://www.kali.org/downloads> on your computer, Create a KAL Linux Virtual Box using VMware workstation 15 or 16 Player, Do a Full installer installation of kal linux in VMware workstation player, How to login and shutdown your KALi Linux cli virtual machine using VMWare.

Note: in VMware workstation player name your virtual box **KALI Linux Test Demo**

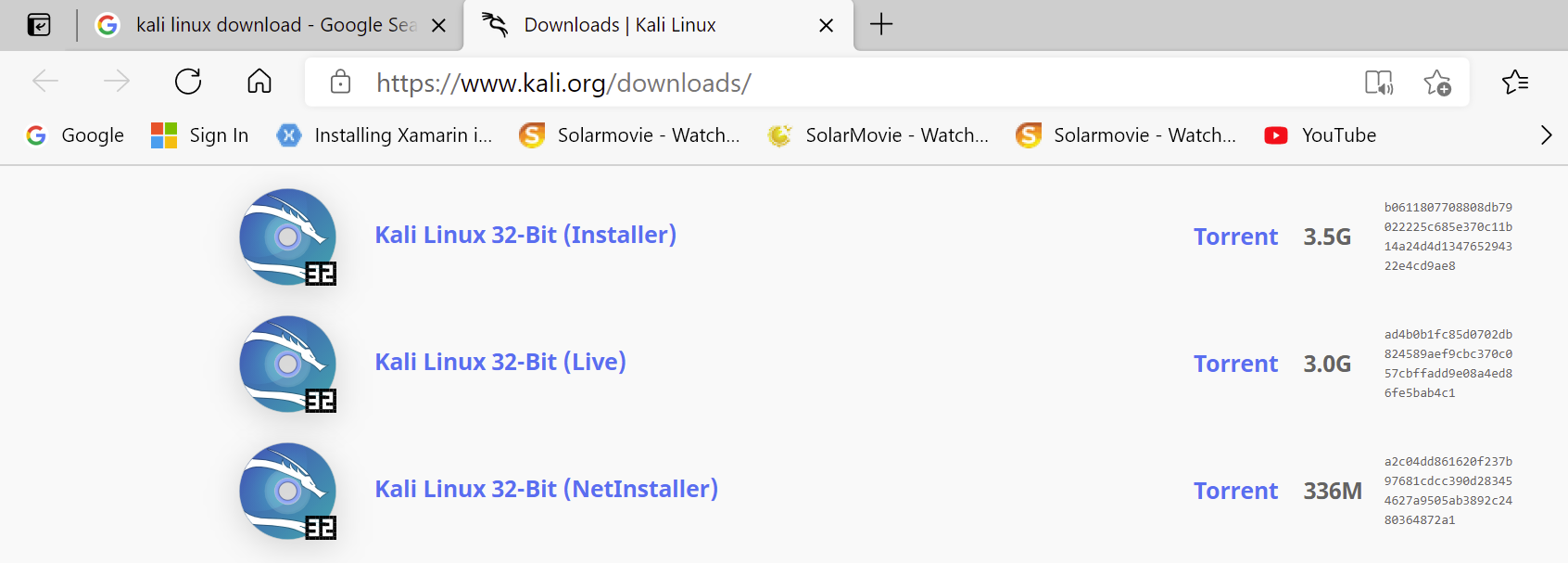
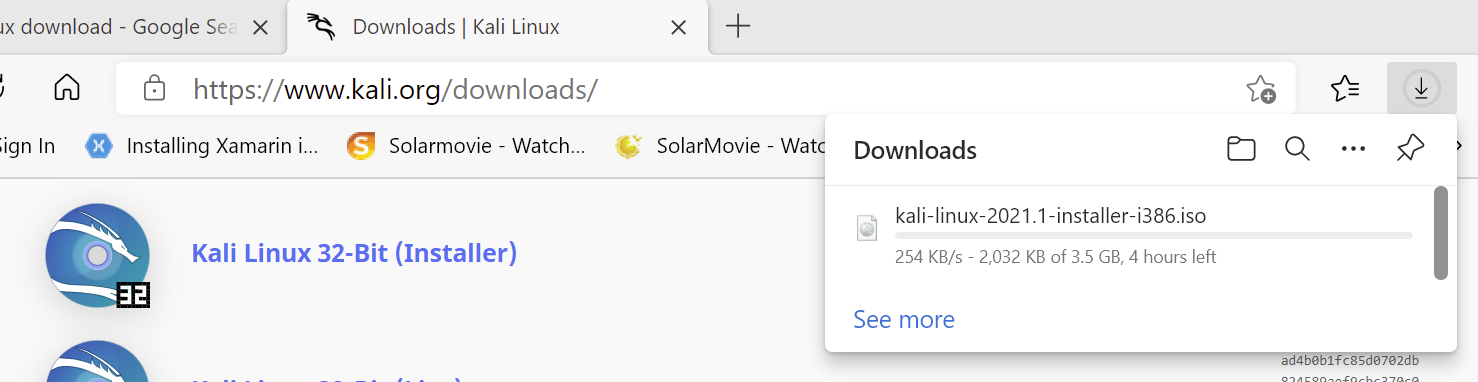
## **Get and Download KALi Linux from kali.org**

**Step 1.** Start your web browser and go to;

<https://www.kali.org/downloads>



**Step 2.** Look for a section called KAL Linux 32-Bit (Installer) and click on link to start download.



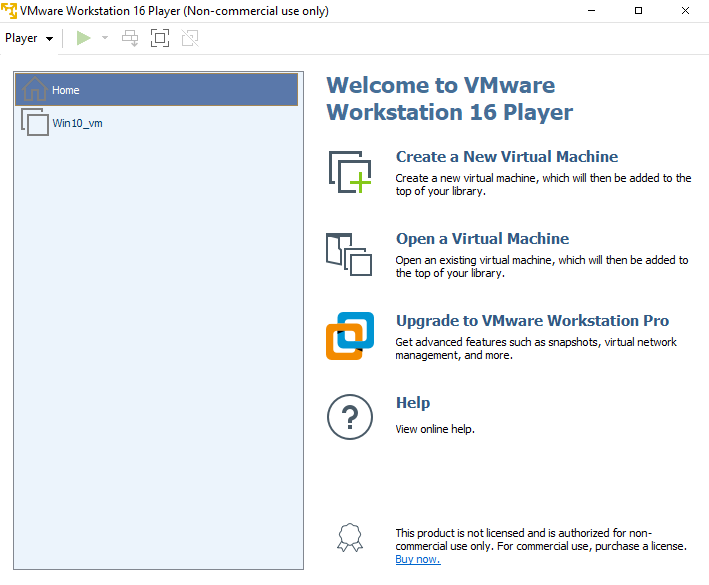
**Save File should be in your Downloads folder, Once finished click open Folder to finds iso file.**

## **Create a KAL Linux Virtual Box using VMware workstation 15 or 16 Player.**

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| **Step 1.** Click on the VMware Workstation icon on the Desktop or start menu. | Or press the windows + R key on the keyboard to bring up the run command and type vmplayer.exe, then press the enter key on the keyboard to run the command. |
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Note: VM Player hardware configurations Hdd 40 Gig, Processor 2, 4 gig ram

**Step 2.** With VMplayer application already started on you host computer as show below, Begin by clicking Create new Virtual Machine. Note Name: **KALI Linux Test Demo**



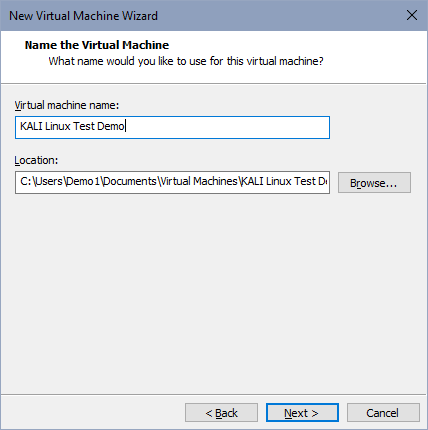
**Step 3**. **Choose** the Option **Installer disk image file (iso)** then **click** the **browse** button to locate the KAL Linux 32-Bit (Installer) iso file. Which should be in your downloads folder or where you saved the kali-linux-2021.1-installer-i386.iso file.

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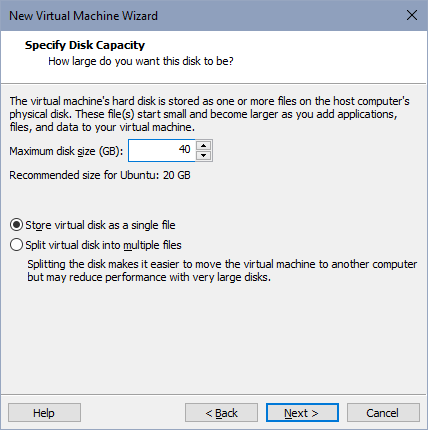
**Step 4.** Once you have located kali-linux-2021.1-installer-i386.iso file **click** the **open** button, then select if option appears of Guest operating system as **Linux** and the Version choose **Ubuntu** and then **click** the **Next button**.

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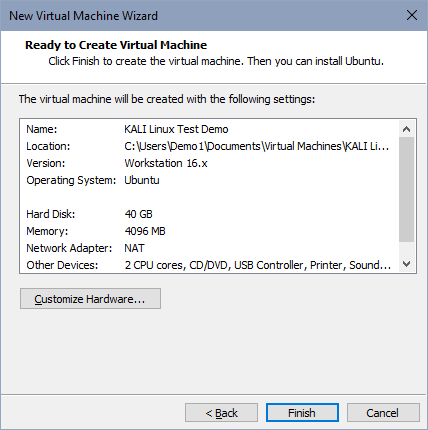
**Step 5.** **Enter** a virtual machine name, call it **KALI Linux Test Demo** and set the location of where to store the virtual machine or you can leave it in the default location which is c:\Users\<User Name>\Documents\Virtual Machines\<Virtual Machine Name>, then **click** the **next** button.



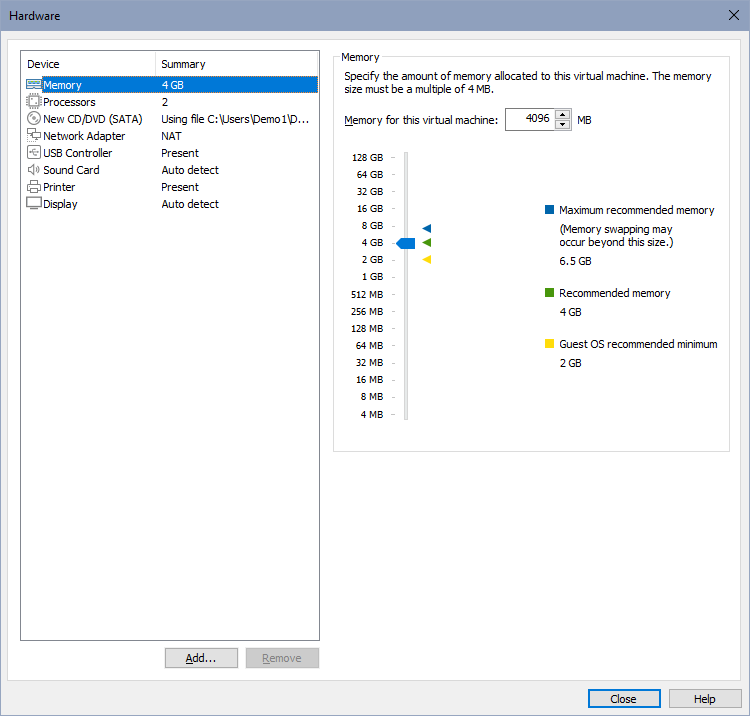
**Step 6.** In the **maximum disk size GB** text box set to **40 GB** or more or a minimum of 64GB. In this case l will set it to 40 GB. In the files list option l would choose **Store virtual disk as a single file.** Then click the Next Button.



**Step 7.1** Click the Customize Hardware button to view and alter the virtual machines hardware settings.

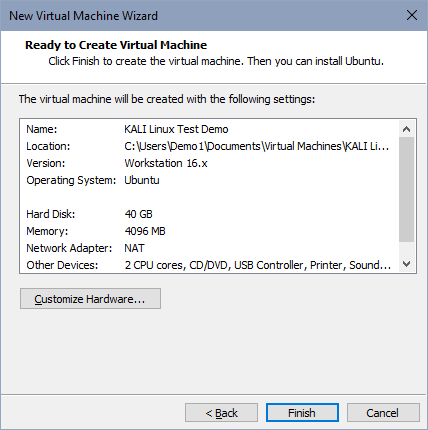


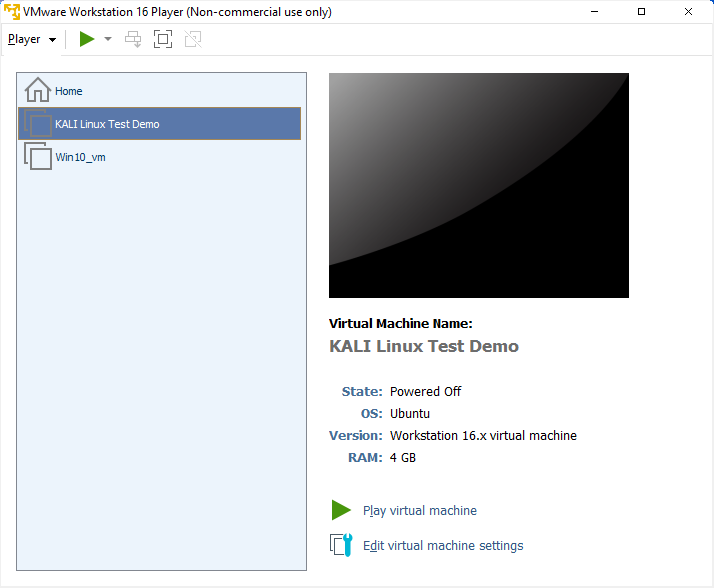
As a general Rule: Whatever you current host hardware settings are set the virtual machine setting to half. If 4 gig of ram then use 2 gig or ram, if CPU cores is 4 then use 2 cores.



But in this case l am Using Memory of 4GB or 4096 MB and Processor of 2 cores.

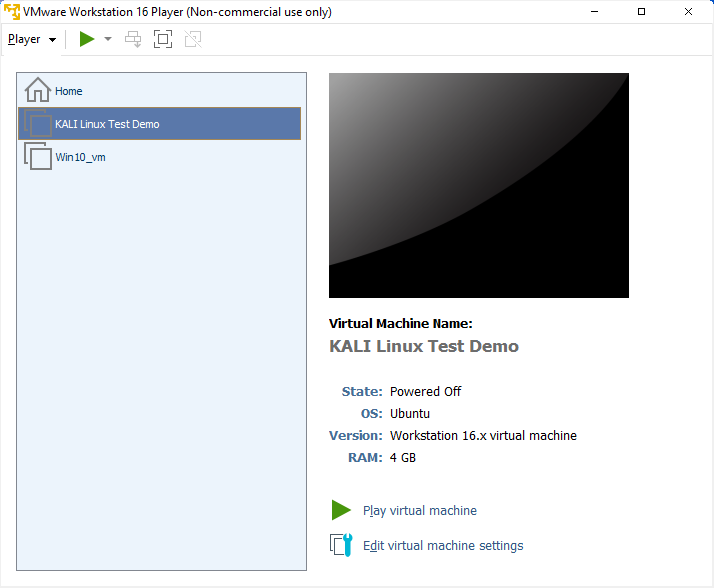
**Step 7.2** Click the **close** button once you have reviewed the hardware settings, then **click** the **finish** button to complete the hardware configuration of your virtual machine.



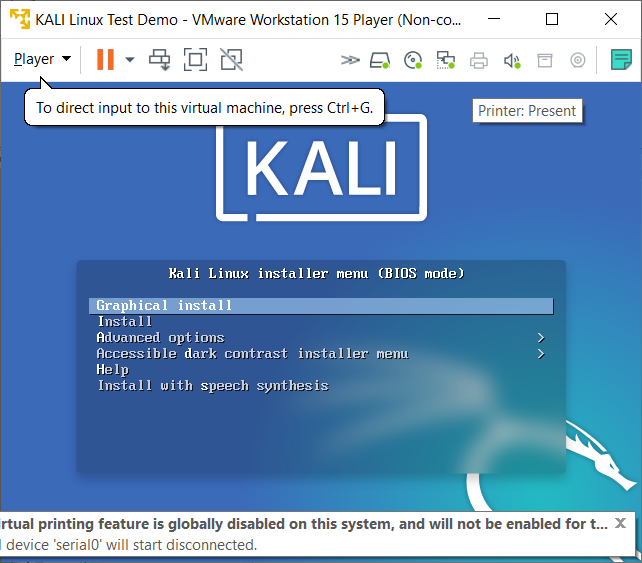


## **Do a Full installer installation of kal linux in VMware workstation player.**

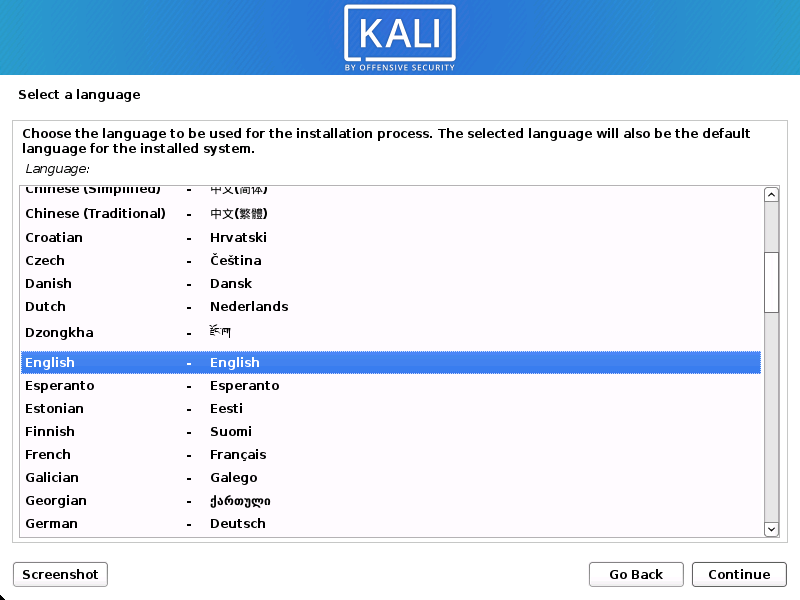
**Step 1.** Upon Completing the setup of the virtual Machine for the **KALI Linux Test Demo**, **Click** the **Play virtual Machine** to start the Kali Linux Installer i386 test to start the KALI Linux Install.



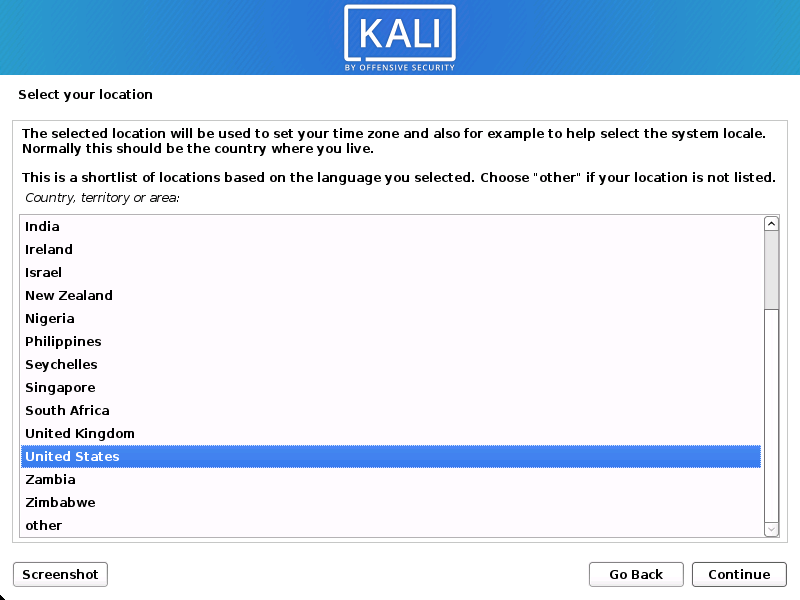
**Step 1.** When you press the Play virtual Machine, the KALi Linux Installer menu will appear **choose** the **Graphical Installer**, then **press** the **Enter** on the **Keyboard**.



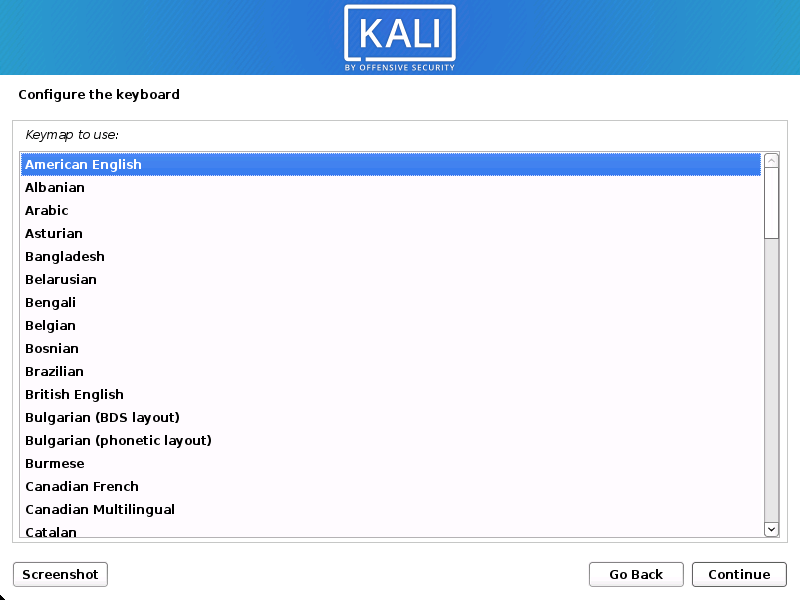
**Step 2.** **Select** the language, choose **English** and then **click** the **Continue** button to continue.



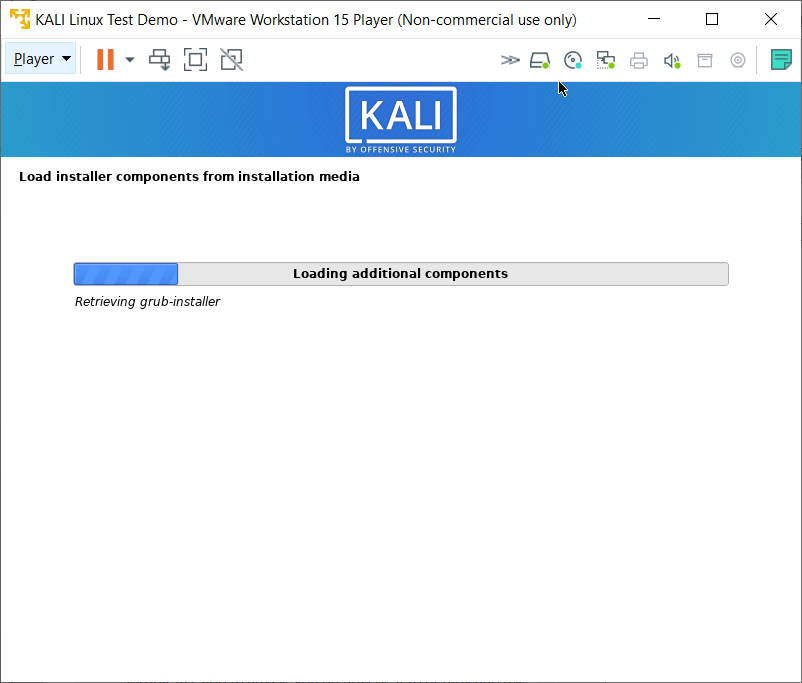
**Step 3. Select** your location, choose **United States** and then **click** the **Continue** button to continue.

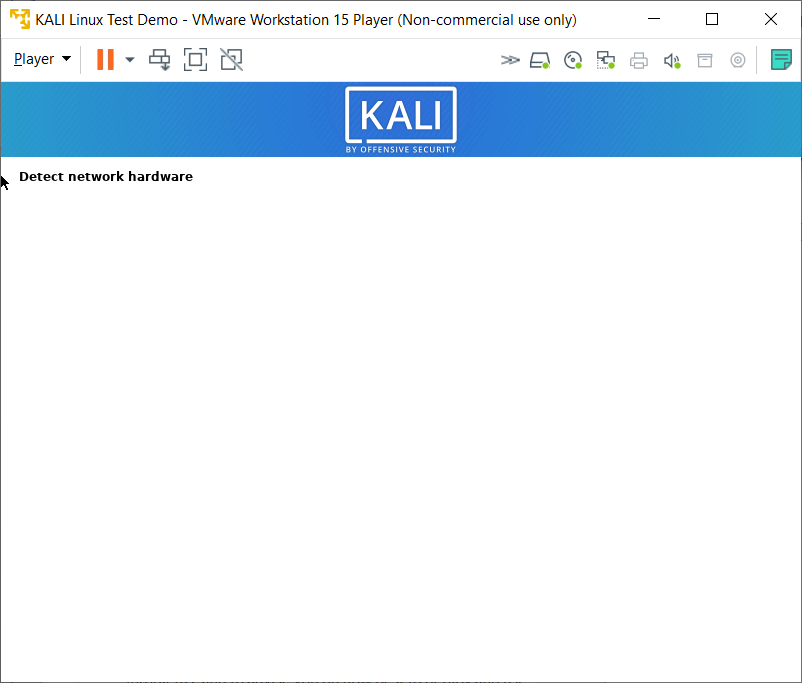


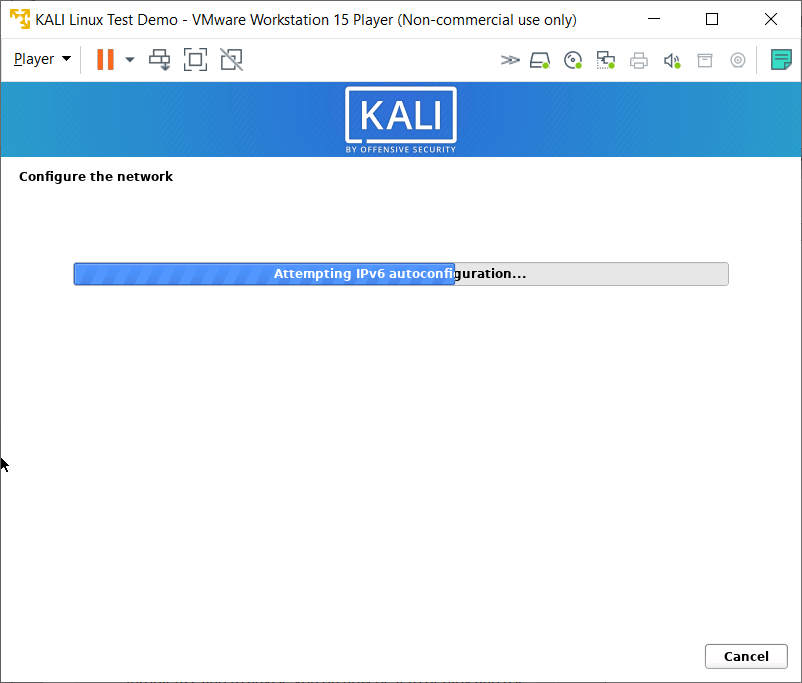
**Step 3.1 Select** your keyboard layout, choose **American English** and then **click** the **Continue** button to continue.

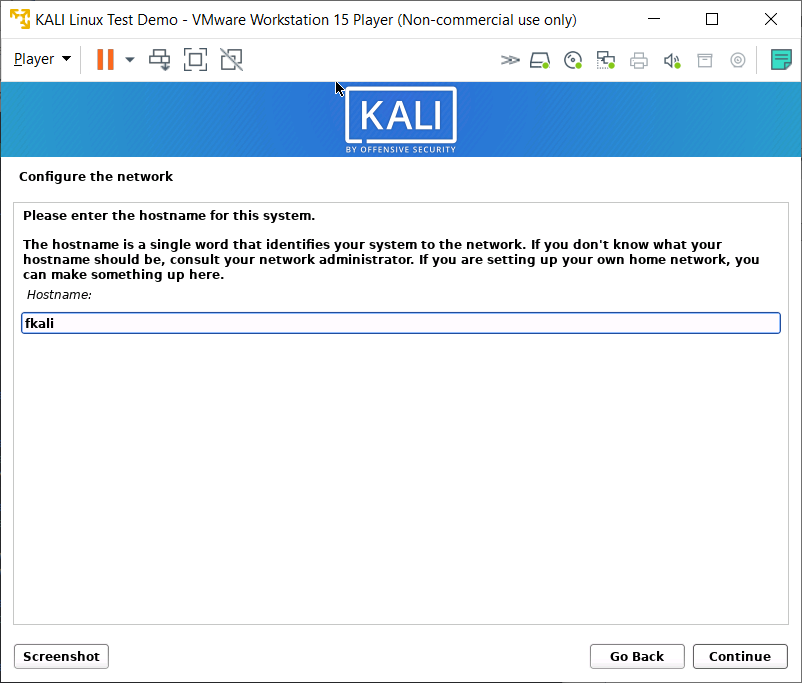


**Step 3.2** The next step will **auto detect** your **hardware** settings and attempt to install the correct installers for your hardware configuration or in windows terms install drivers. Such as hard disk, network device etc. Please **Wait**…

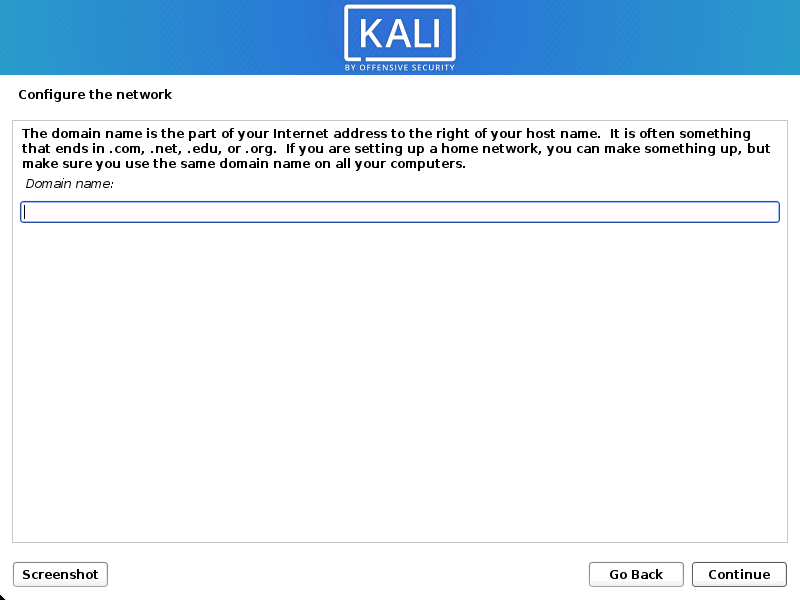




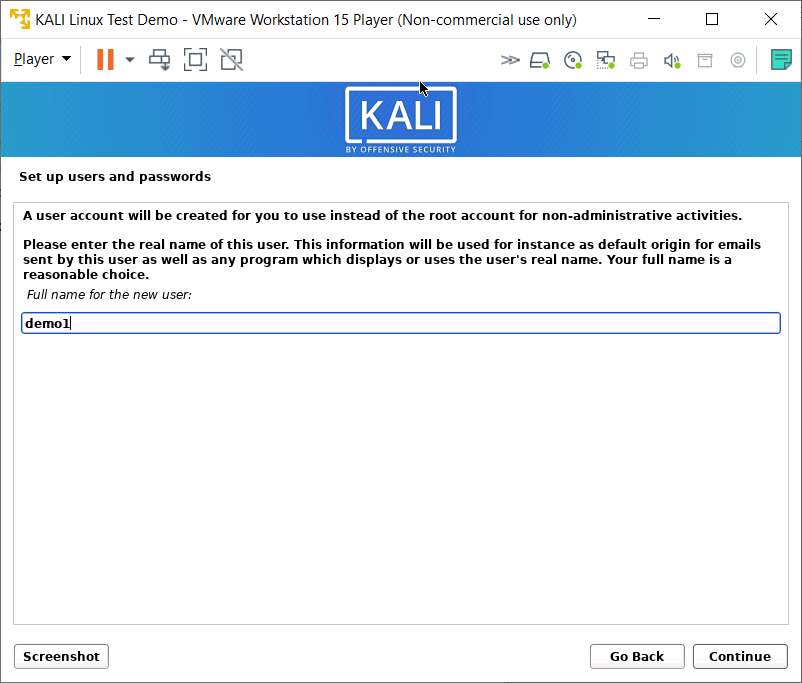


**Step 4.** Enter Host name as **fkali** and **click** the **Continue** button to continue.

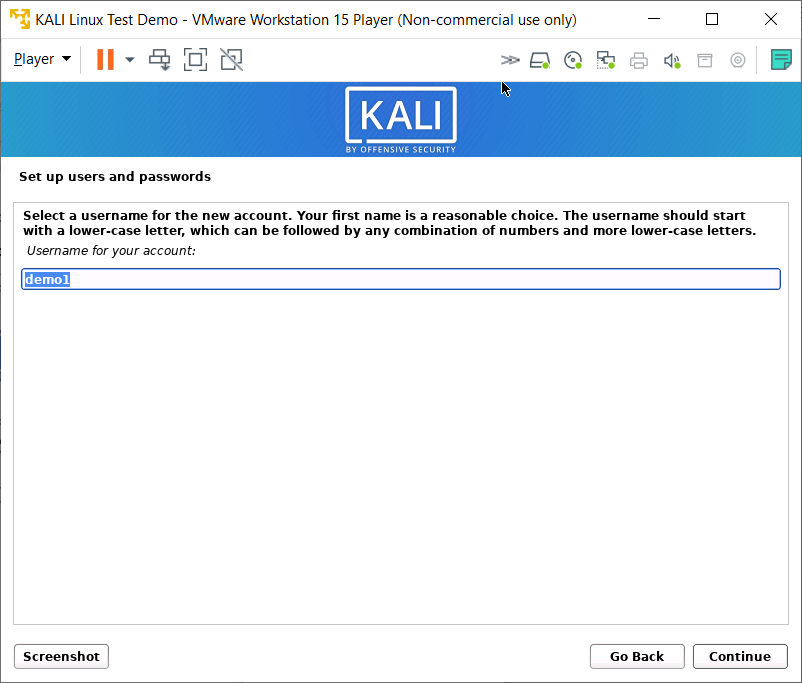
**Step 5.** Leave the domain name blank for now and simply **click** the **Continue** button to continue.



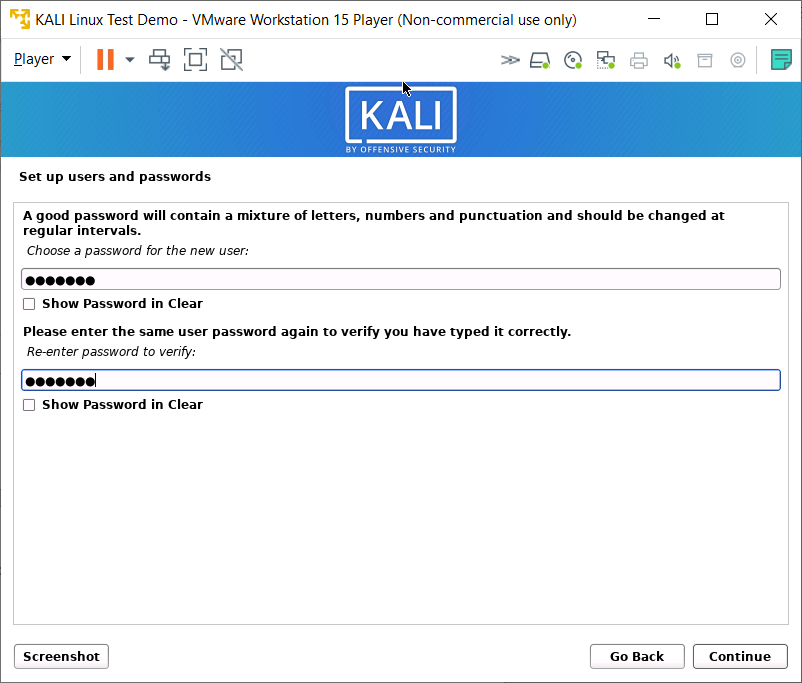
**Step 6. Enter** a Full name, call it **demo1** and **click** the **Continue** button to continue.



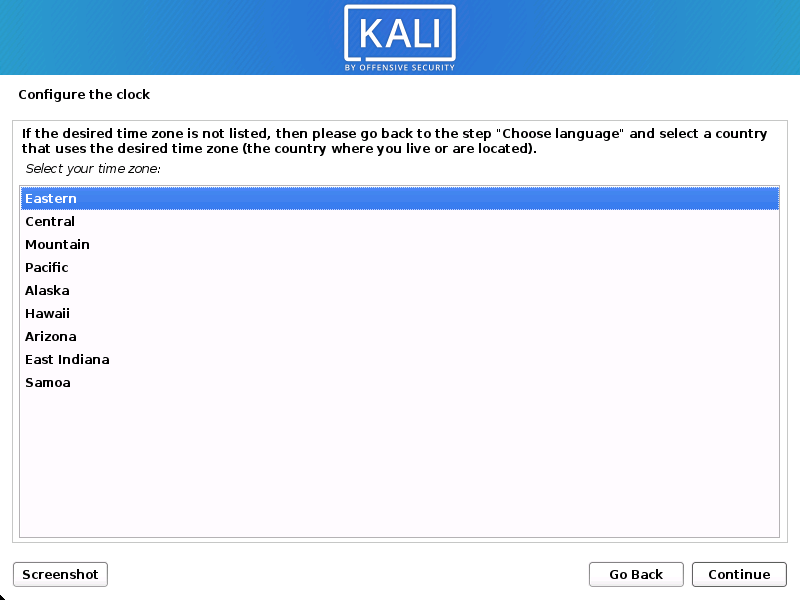
**Step 7.** **Enter** a user name, call it **demo1** and **click** the **Continue** button to continue.



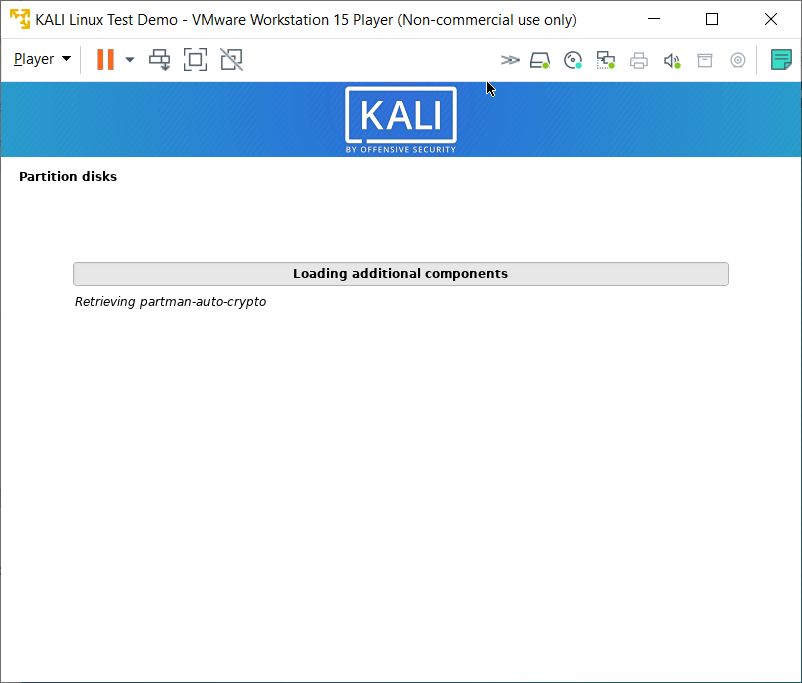
**Step 8. Enter** a Password and type it in twice in the 2 text fields and **click** the **Continue** button to continue. E.g. Password: Pa55word.

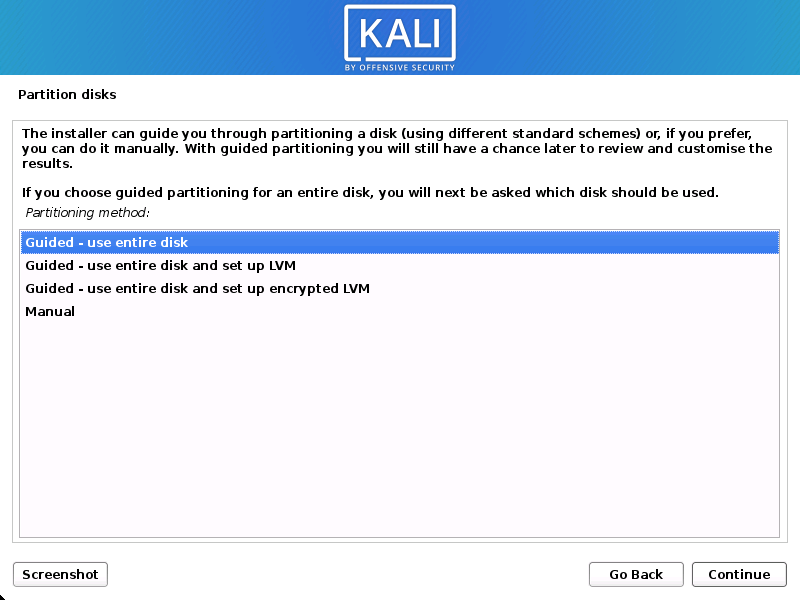


**Step 9.** Set the time zone and **click** the **Continue** button to continue.

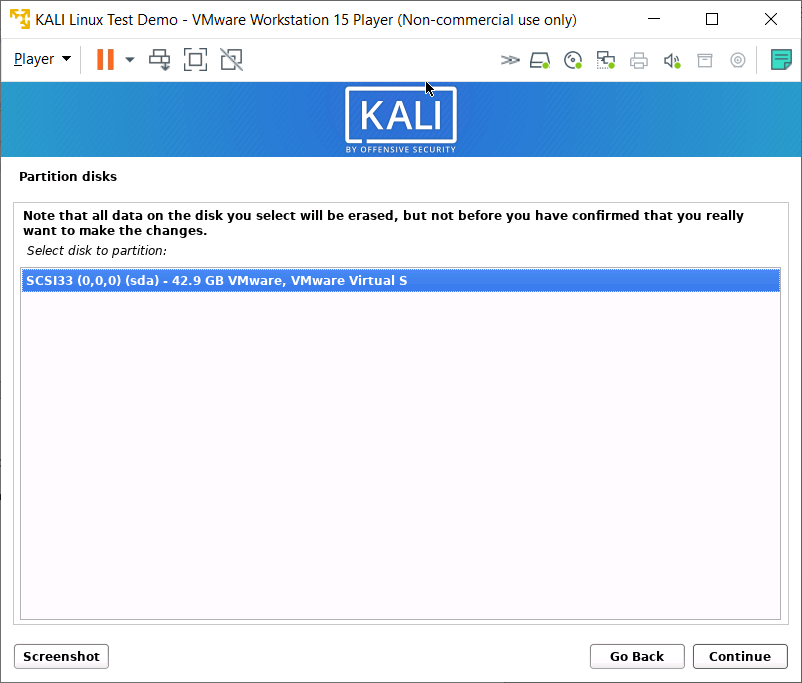


**Step 10**. Kali will try and detect your hardware, **Select** “***Guided – use entire disk***” and **click** the **Continue** button to continue.

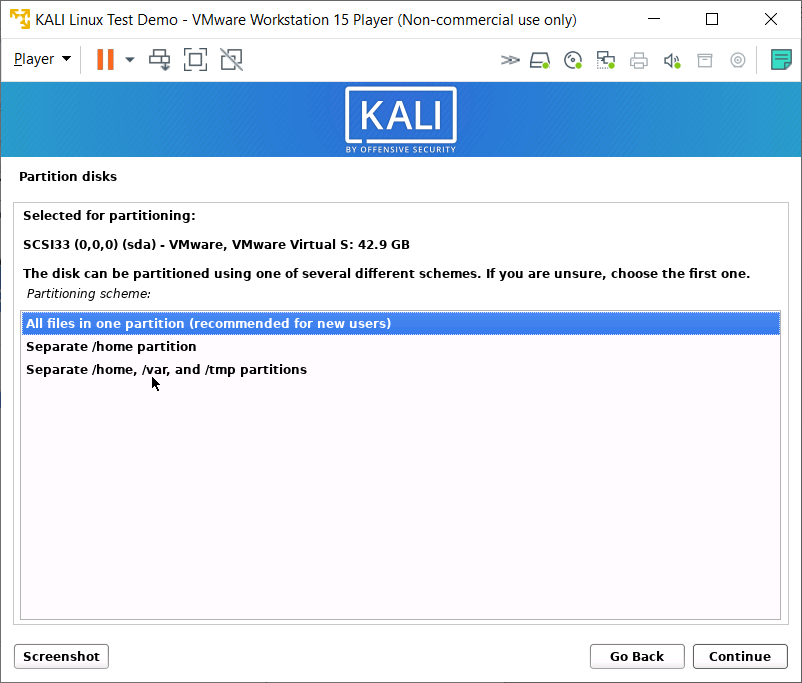




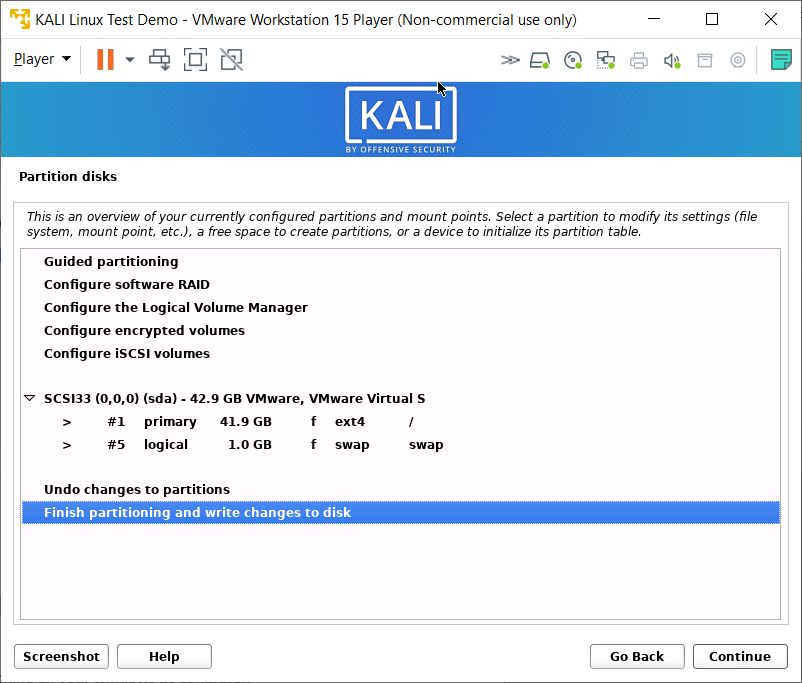
**Step 11.** Kali linux will present you with what disk you want to create the partition on e.g. disk sda (0,0,0) partition 0. **Choose** the **default partition** that is displayed on the screen e.g. SCSI3 (0,0,0) (sda) – 42.9GB Vmware, VMware Virtual S, **click** the **Continue** button to continue.



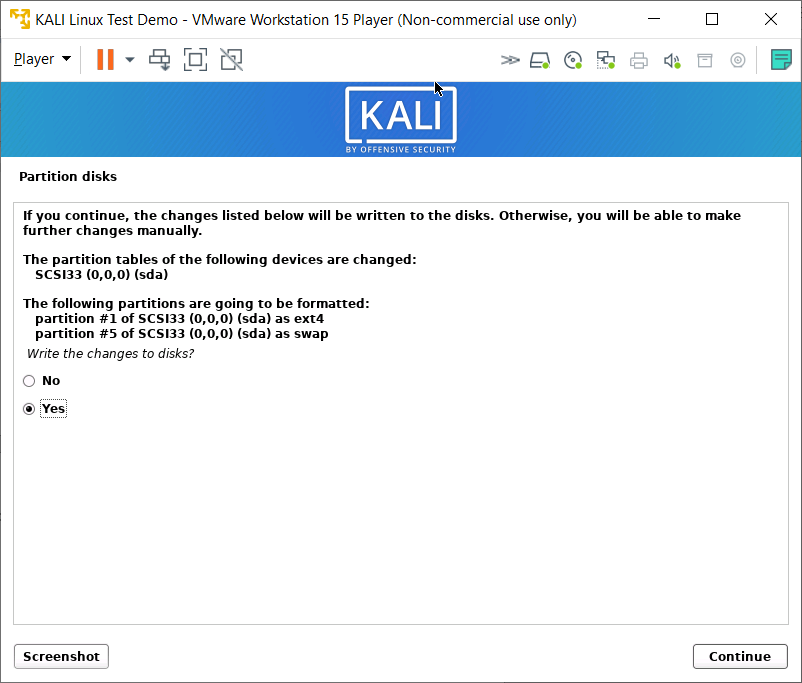
**Step 12.** Kali will ask you if you want to create separation partitions for its primary install, swap file which is tmp and var for user files. **Choose,** **all files in one partition (recommended for new users)** then **click** the **Continue** button to continue.

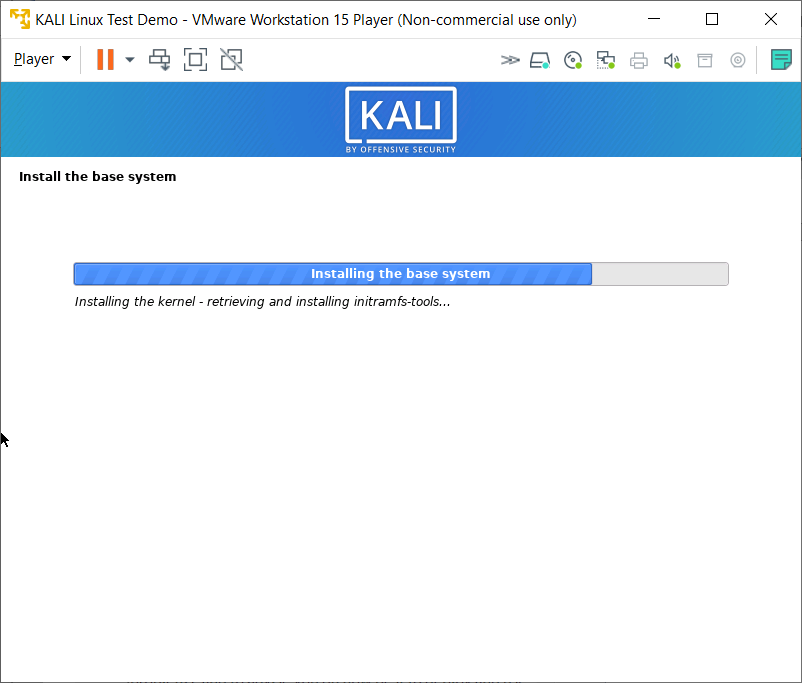


**Step 13.** After selecting choosing recommended default setting kal will create the appropriate partions and present the hard disk settings for you to confirm **select** “***Finish partitioning and write changes to disk***” then **click** the **Continue** button to continue.



**Step 14.** Kali Linux will prompt you to confirm partition creation, **select** the option **Yes** to confirm and **click** the **Continue** button to continue.

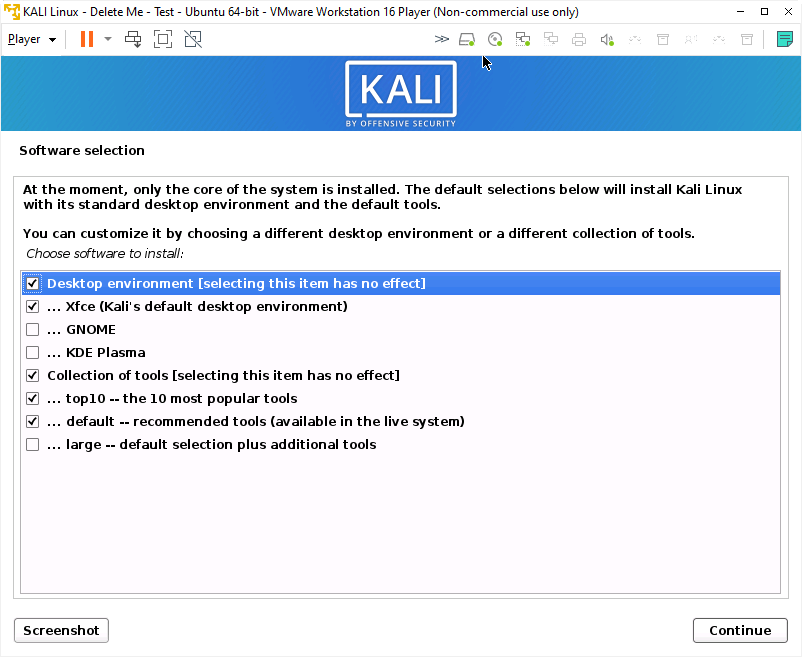


**Step 15** KALi Linux will start copy and installing to operating system files onto the allocated disk selected. Please **Wait** for the **process to finish**.

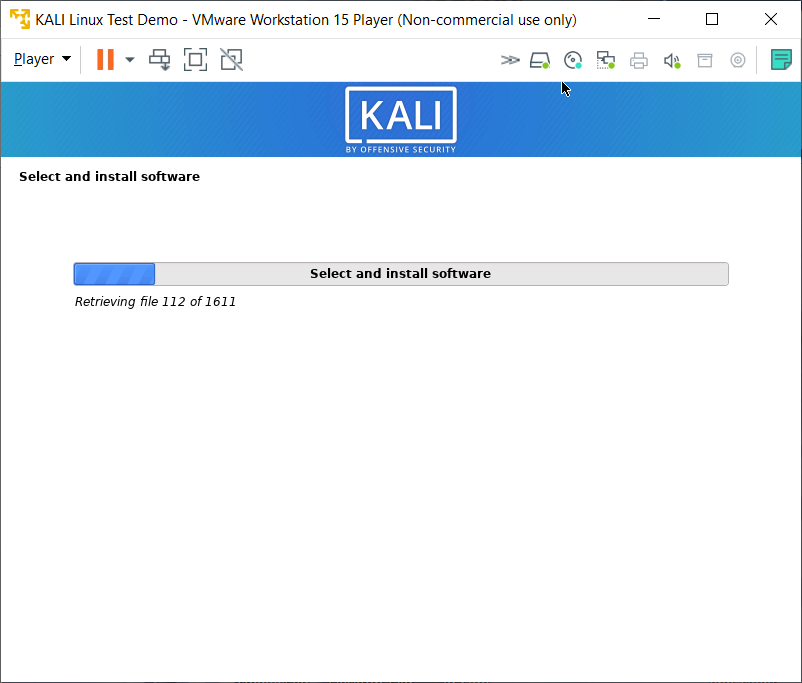
**Step 16**.1 T**ick** the following Operating system **desktop GUI settings**;

🗹 Desktop environment [Selecting this item has no effect]

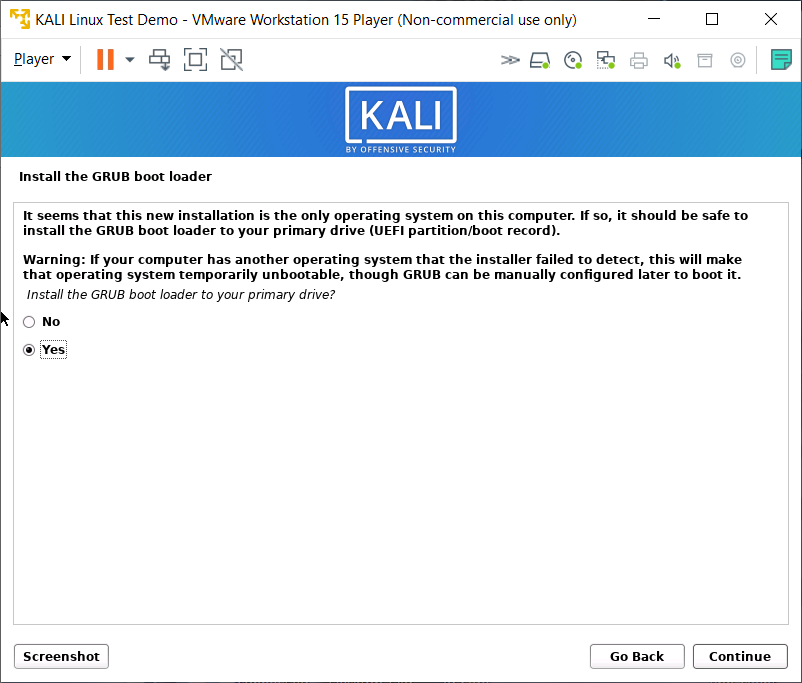
🗹 … Xfc (Kali’s default desktop environment)



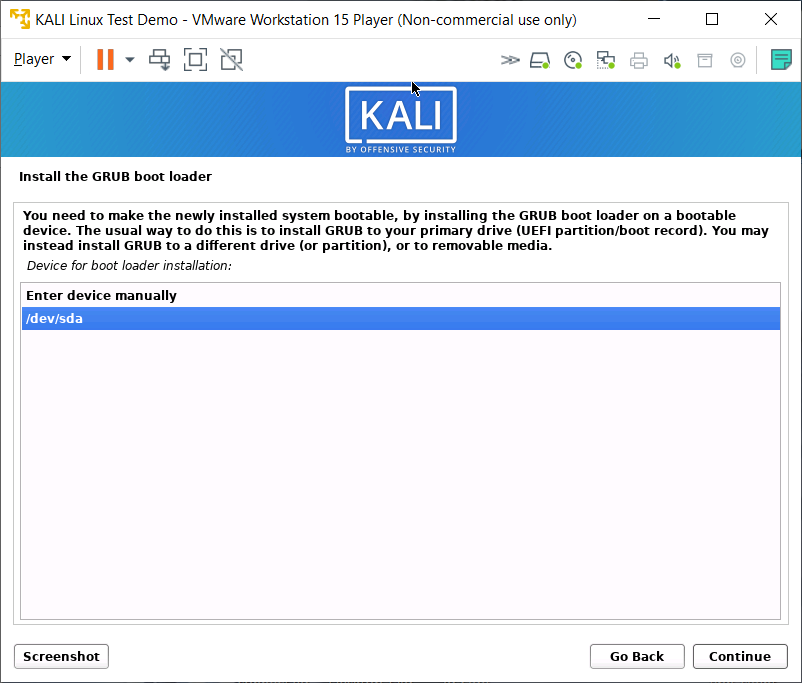
**Step 16.2** **Click** the **Continue** button to continue with the installation of KALi Linux in a Virtual machine.



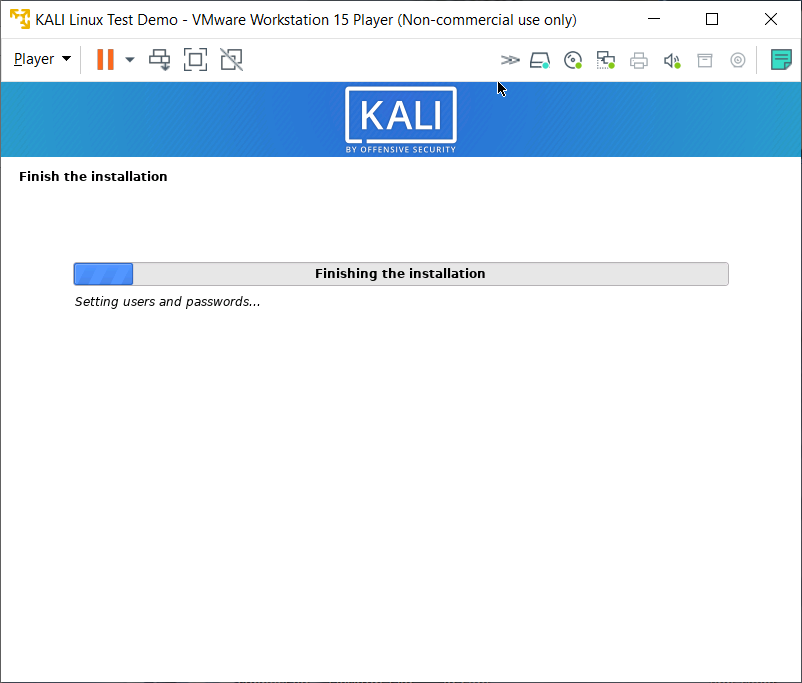
**Step 17.** What kali does is write or mark the primary hard disk that this disk contains the operating system and where to load the operating system. This is called the boot loader. So **Select** **Yes** that you want to put the boot loader on this disk partition. **Click** the **Continue** button to continue.



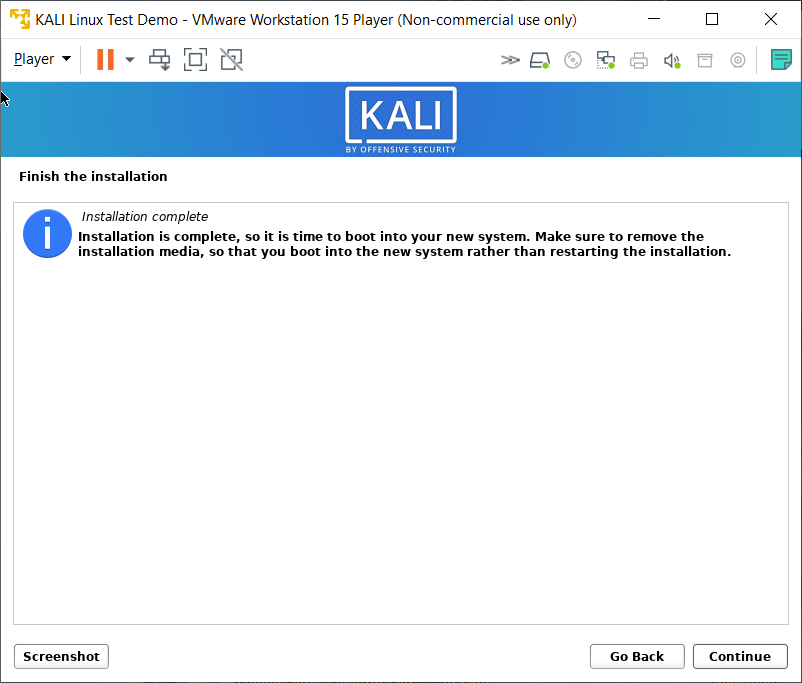
**Step 18.** Tells kali where to store the boot loader, select /dev/sda, the device scsi device, then **Click** the **Continue** button to continue.



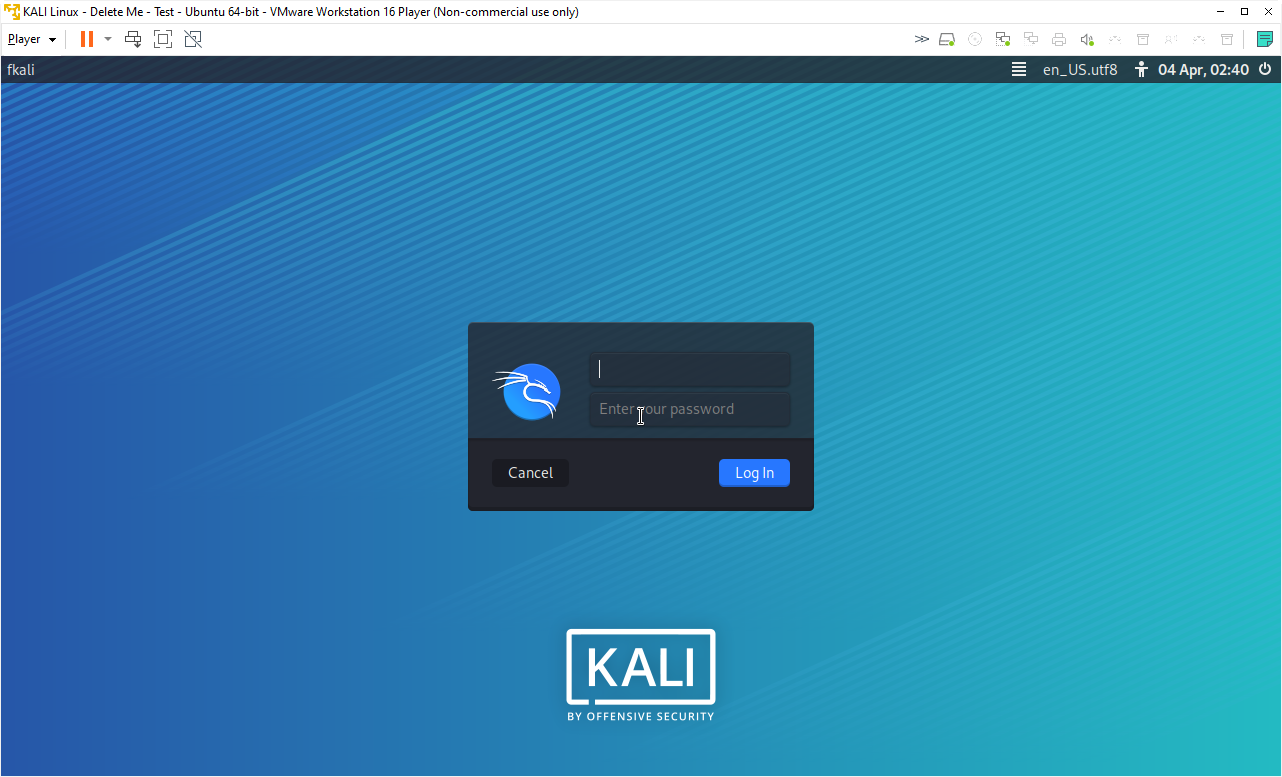
**Step 19 Wait** for the installation to **continue processing**.



**Step 20** **Click** the **Continue** to finish the Installation.



Once the Installation is finished you will be prompted with the startup screen for KALi Linux.



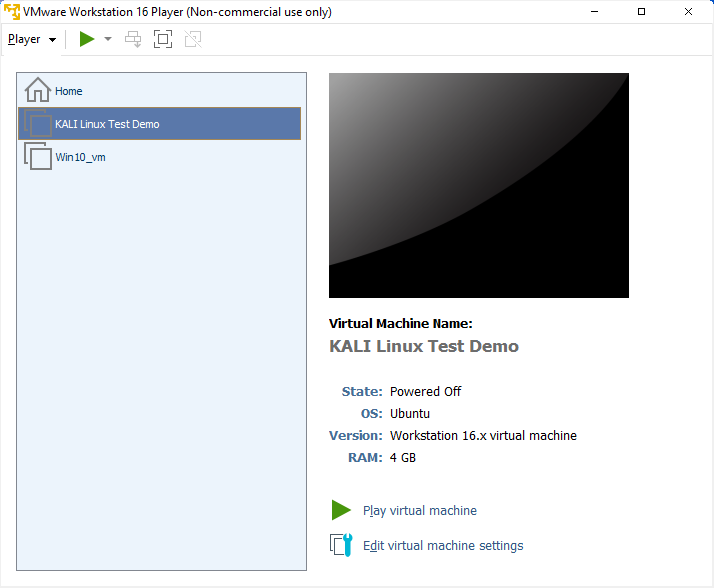
For more information on how to start up, login and shutdown see section 2 Using your Kali Linux virtual machine using VMWare work station player 15 or 16 within this document.

# **Using your Kali Linux Virtual machine using VMware work station player 15 or 16.**

## **How to start KALi Linux virtual machine using VMware work station player 15 / 16.**

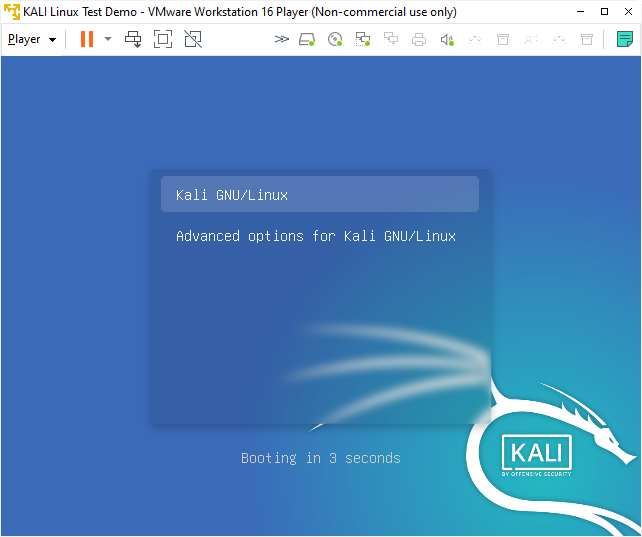
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| **Step 1.** Click on the VMware Workstation icon on the Desktop or start menu. | Or press the windows + R key on the keyboard to bring up the run command and type vmplayer.exe, then press the enter key on the keyboard to run the command. |
|  |  |

**Step 2.** With VMware Workstation player application already started **click** on **KALI Linux Test Demo** then to begin **click** the **Green** Play Virtual Machine button.

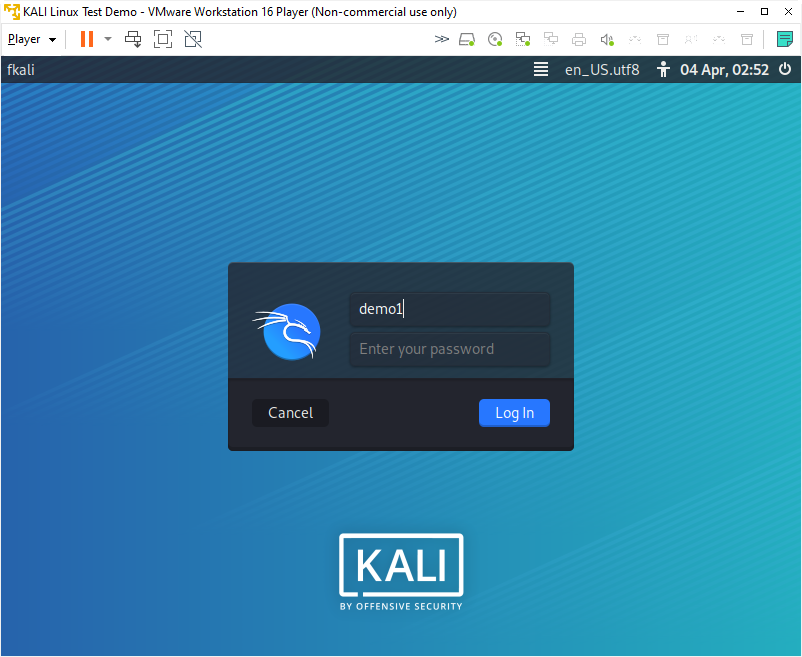


## **How to login into KALi Linux virtual machine using VMware work station player 15 or 16.**

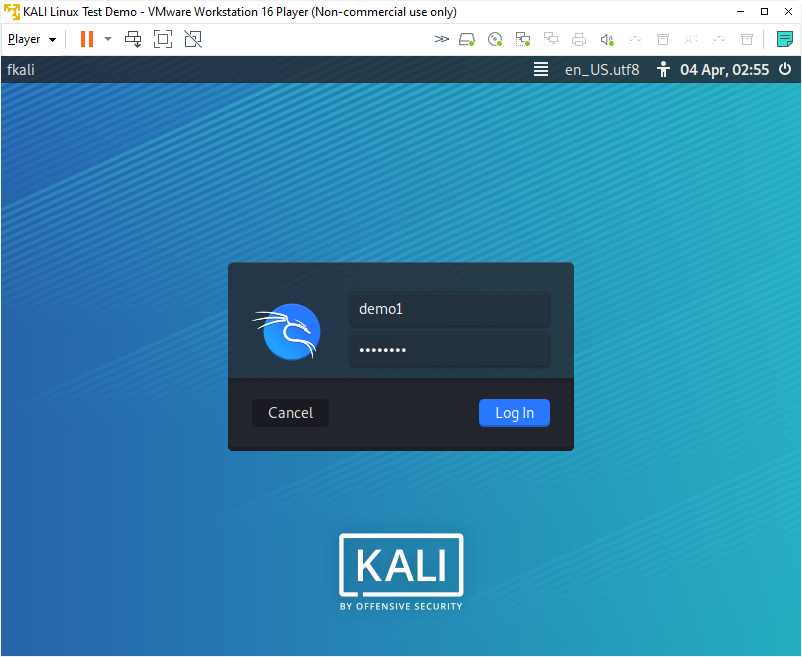
**Step 1.** Upon Start up of the KALi Linux virtual machine you will be presented with a start up screen of how you would like to boot into KALI. **Choose KALi GNU / Linux.**



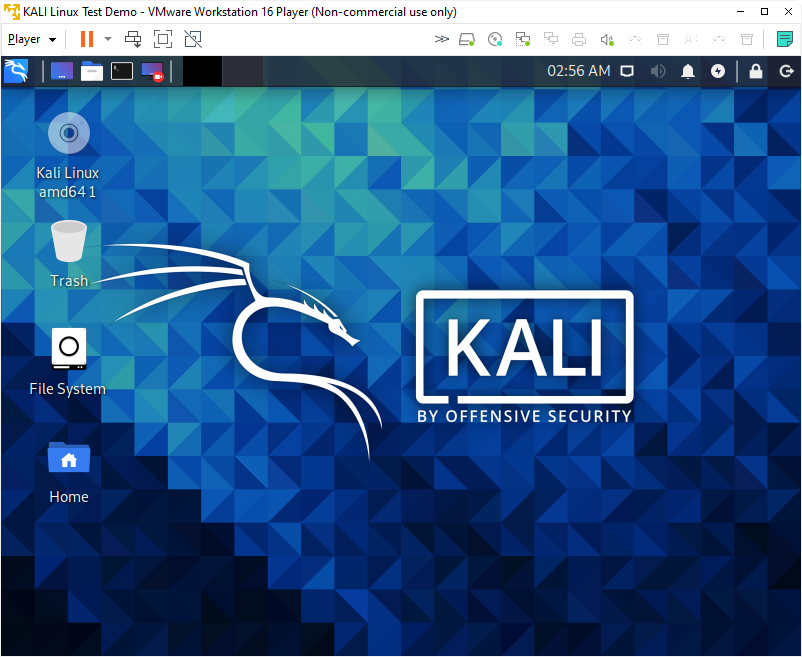
**Step 2.** Once you are passed the boot up screen, you will be prompted to **enter** your **user name** and password that you had set up when you installed KALi Linux E.g. **demo1** Enter your user name then **press** the **enter key** on the **keyboard**.



**Step 3.** **Enter** your **password** for your **user name**. e.g. **Pa55word**



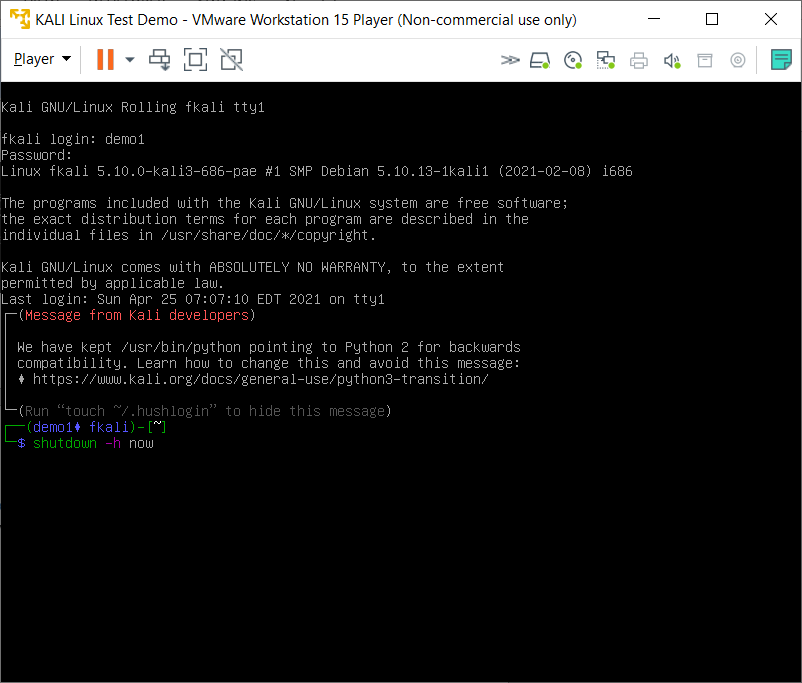
**Step 4.** Now you should be logged into KALi Linux.



## **How to shutdown your KALi Linux virtual machine using VMware.**

To shut down KALi Linux server via the (CLI) or timinal window type the following;

shutdown –h now



Or in the Top Right hand conner click power icon and then click shutdown.

