

Ethical Hacking Environment Setup



SoftUni Team
Technical Trainers



SoftUni



Software University

<https://softuni.bg>

Have a Questions?

sli.do

#Cyber_Security

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Prerequisites

System Requirements

- CPU => **Core i5**
- RAM => **16GB**
- GPU => **n/a**
- SSD => **256 GB**



Software Requirements

- VMware Workstation Player:
<https://www.vmware.com/products/workstation-player/workstation-player-evaluation.html>
- Oracle VM VirtualBox: <https://www.virtualbox.org/>

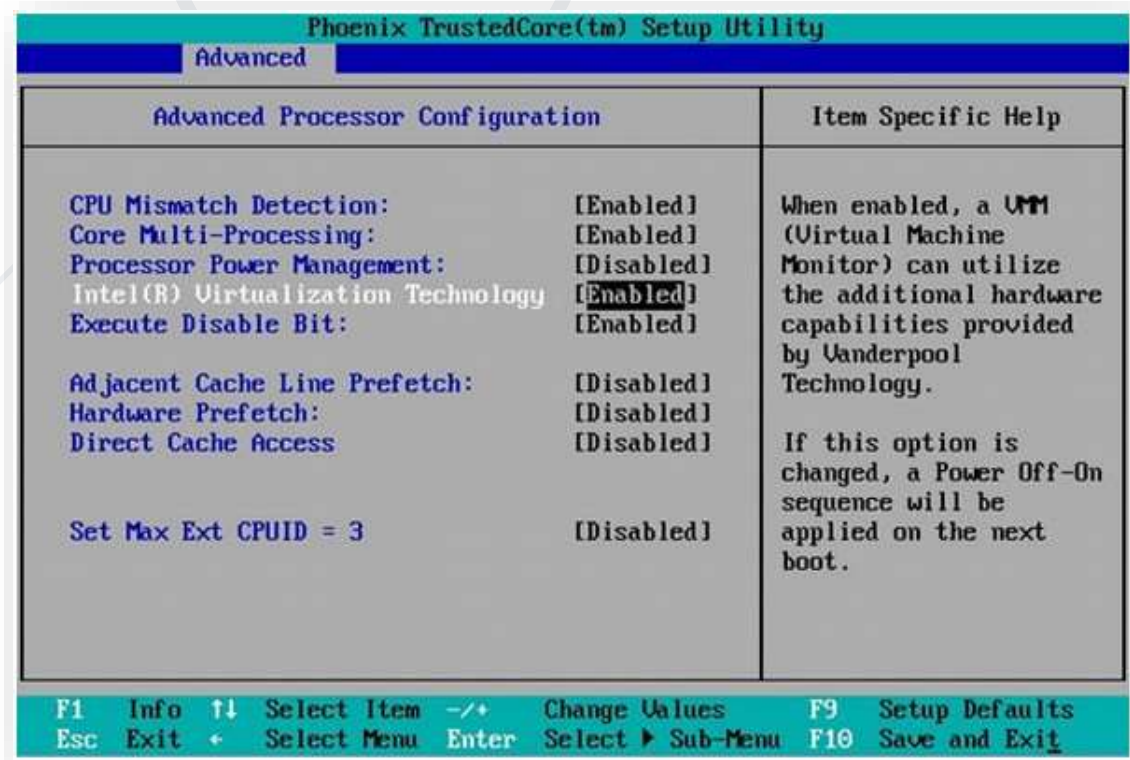




Steps

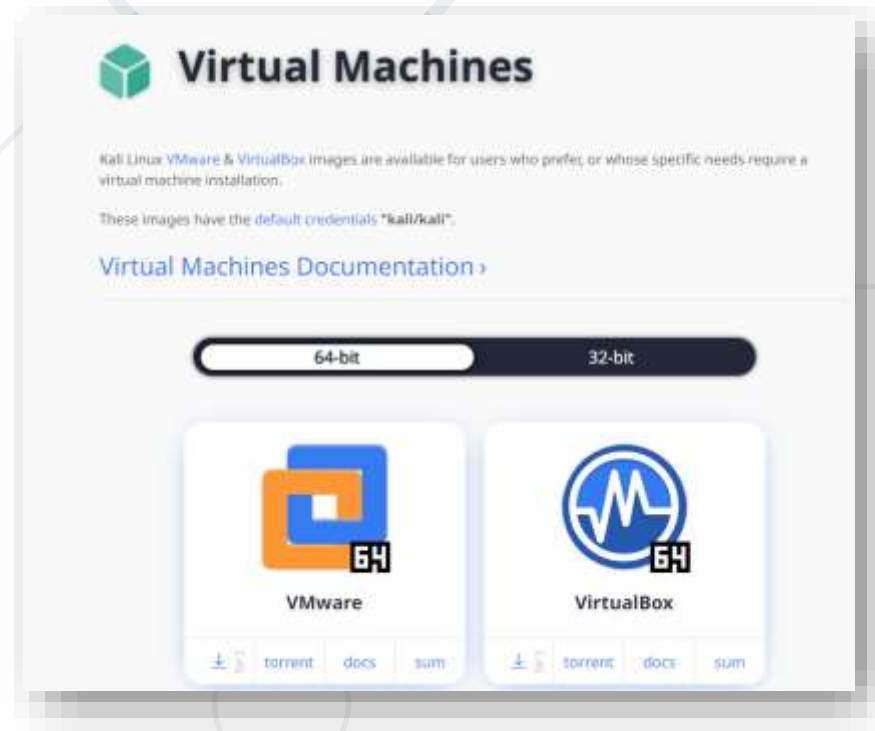
Enable Virtualization in Your BIOS

- This step differs from PC vendors, but generally what you need is to access the BIOS and enable the option that allows virtualization



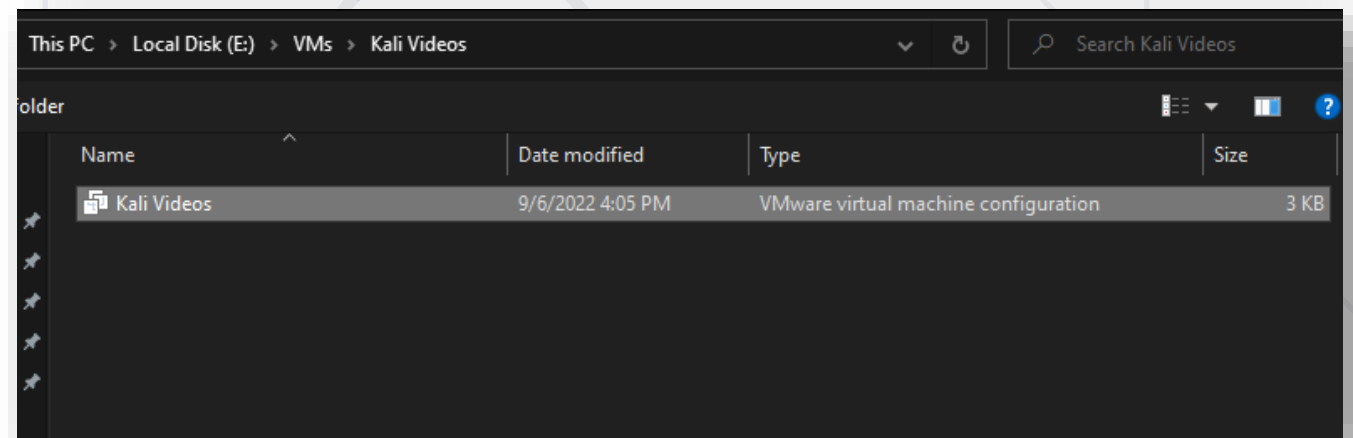
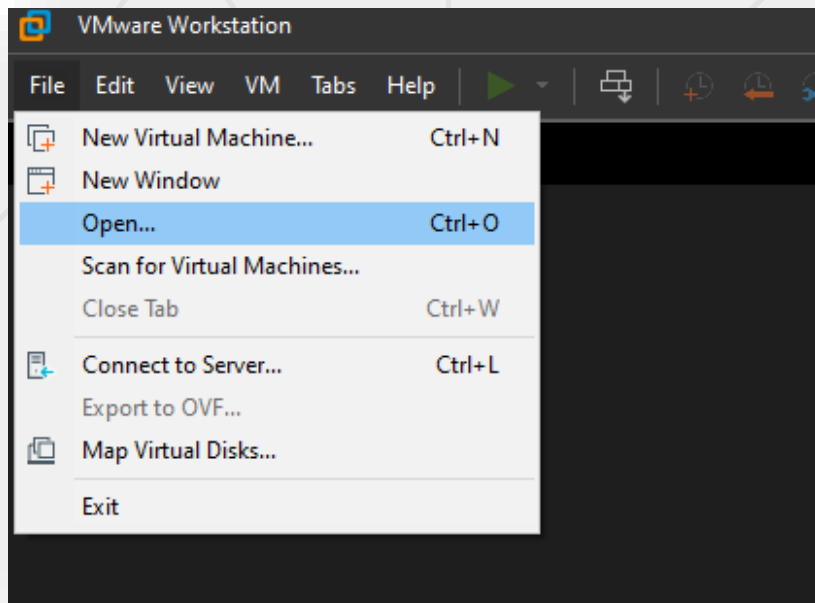
Download Kali-Linux VM

- Navigate to: <https://www.kali.org/get-kali/#kali-virtual-machines>
- Download VM depending on your virtualization software



Open the Virtual Machine

- After it was downloaded, open your virtualization software and navigate to **file>open**
- Navigate to the downloaded vm directory and open the .vmx file



Edit VM Hardware, Based on Your System

- Boost CPU, RAM and HDD if needed

Kali Videos

▶ Power on this virtual machine

🔧 Edit virtual machine settings

▼ Devices

Memory	8 GB
Processors	4
Hard Disk (SCSI)	40 GB
CD/DVD (IDE)	Using file D:\VMs\...
Network Adapter	NAT
USB Controller	Present
Sound Card	Auto detect
Printer	Present
Display	Auto detect

▼ Description

Type here to enter a description of this virtual machine.

Virtual Machine Settings

Hardware Options

Device	Summary
Memory	8 GB
Processors	4
Hard Disk (SCSI)	40 GB
CD/DVD (IDE)	Using file D:\VMs\...
Network Adapter	NAT
USB Controller	Present
Sound Card	Auto detect
Printer	Present
Display	Auto detect

Memory

Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.

Memory for this virtual machine: 8192 MB

128 GB
64 GB
32 GB
16 GB
8 GB
4 GB
2 GB
1 GB
512 MB
256 MB
128 MB
64 MB
32 MB
16 MB
8 MB
4 MB

Maximum recommended memory (Memory swapping may occur beyond this size.) 27.7 GB

Recommended memory 2 GB

Guest OS recommended minimum 1 GB

Add Remove

OK Cancel Help

Virtual Machine Settings

Hardware Options

Device	Summary
Memory	8 GB
Processors	4
Hard Disk (SCSI)	40 GB
CD/DVD (IDE)	Using file D:\VMs\...
Network Adapter	NAT
USB Controller	Present
Sound Card	Auto detect
Printer	Present
Display	Auto detect

Processors

Number of processors: 2

Number of pins per processor: 2

Total processor cores: 4

Virtualization engine

☐ Virtualize Intel VT-x/AMD-V/RVI

☐ Virtualize CPU performance counters

☐ Virtualize IOMMU (IO memory management unit)


Add Remove

OK Cancel Help

Start the Virtual Machine

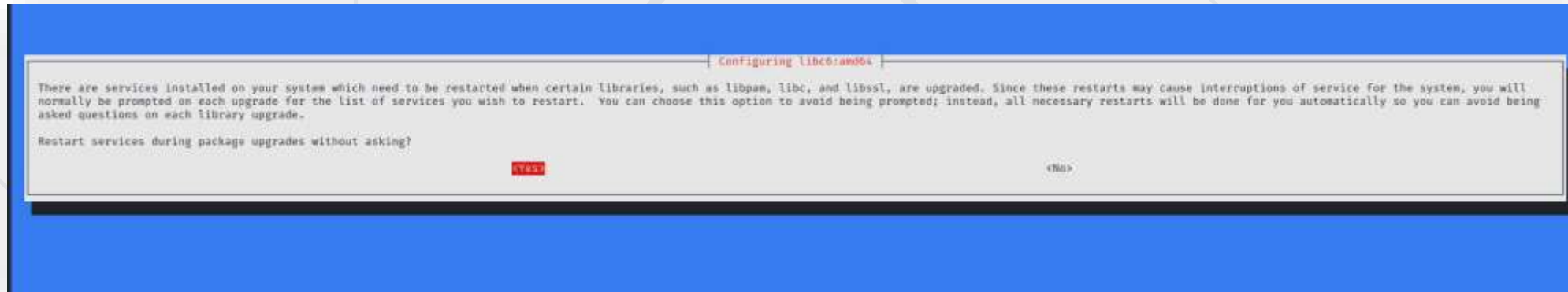
- After it boots, the default login is kali:kali



- 
- A screenshot of the Windows taskbar. The taskbar is dark blue. On the left is the Start button with the Windows logo. To its right are several pinned application icons: a folder, a document with a red 'X', the Google Chrome icon, and the Terminal Emulator icon. The Terminal Emulator icon is a dark blue square with a white terminal window symbol (a square with a dollar sign and an underscore) and the text 'Terminal Emulator' and 'Use the command line' below it.

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- If you see this:



- Chose "Yes" by clicking Tab

- Open terminal and:
 - `cd /opt/` (or any other directory of your choice)
 - run "`sudo git clone https://github.com/danielmiessler/SecLists`"

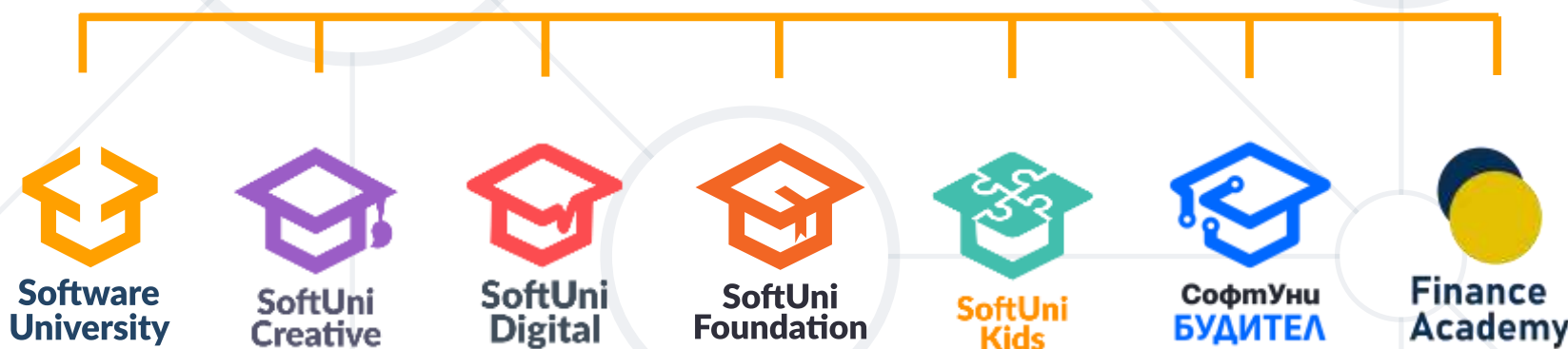
```
(kali㉿kali)-[~]  
$ cd /opt  
  
(kali㉿kali)-[/opt]  
$ sudo git clone https://github.com/danielmiessler/SecLists.git
```

Unpack rockyou

- Open terminal and:
 - Navigate to `/usr/share/wordlists`
 - run `"sudo gzip -d rockyou.txt.gz"`

```
(kali@kali)-[/opt]  
$ cd /usr/share/wordlists  
  
(kali@kali)-[/usr/share/wordlists]  
$ sudo gzip -d rockyou.txt.gz
```


Questions?



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