

CEGEP VANIER COLLEGE

CENTRE FOR CONTINUING EDUCATION

Cybersecurity

420- 950-VA

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Lab 1

Jan 20, 2025

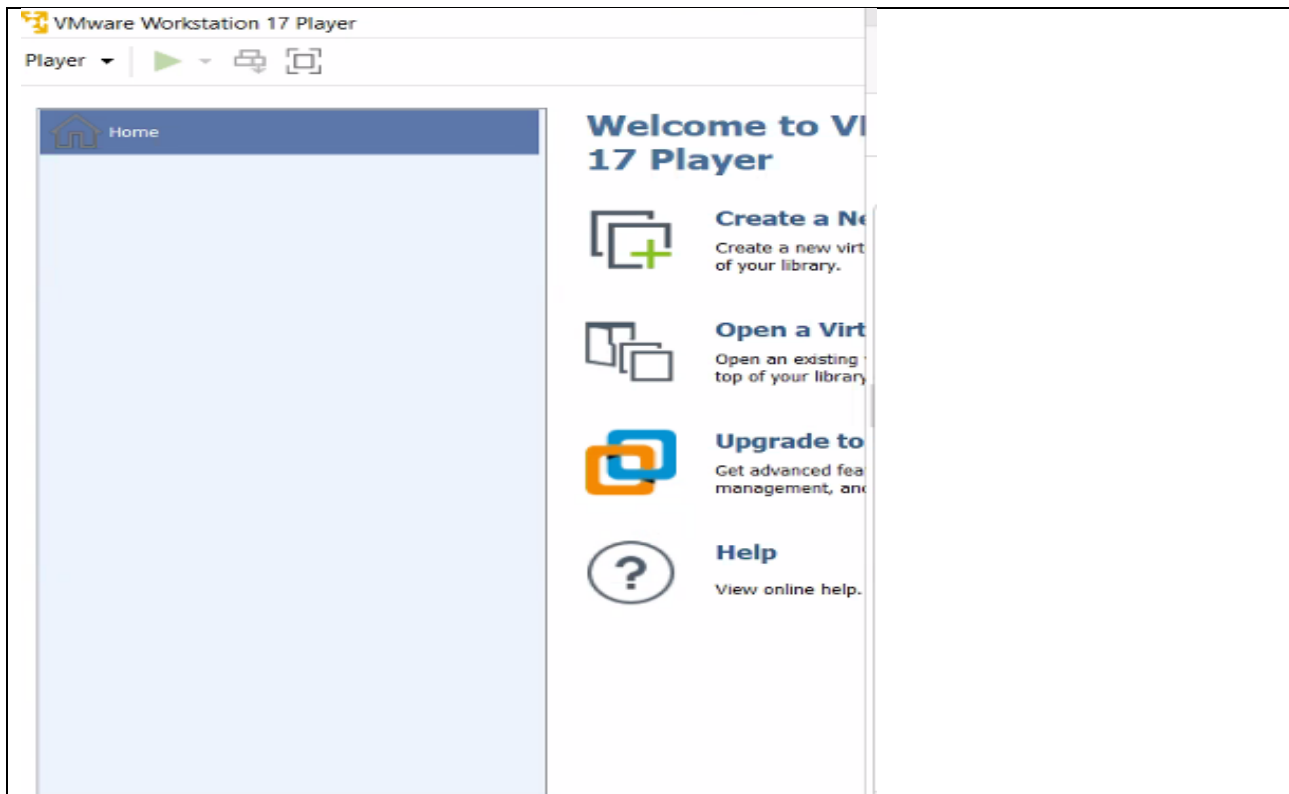
Lab 1: Introduction to Cybersecurity: Software Installation

Complete all these following sections as explained in **class**. All *steps* were presented during class time.

Create and Submit a Word file ***Lab1CybersecurityYourName.doc*** which contains answers of Book Exercises and output screenshots for every Project. Submit all projects if any.

1. Install VMWare Workstation Player:

a) **Download VMWare Player 17** as shown hereafter in Figure.



2. Install Kali Linux distribution:

a) **Download Kali-linux:** Using the following link.

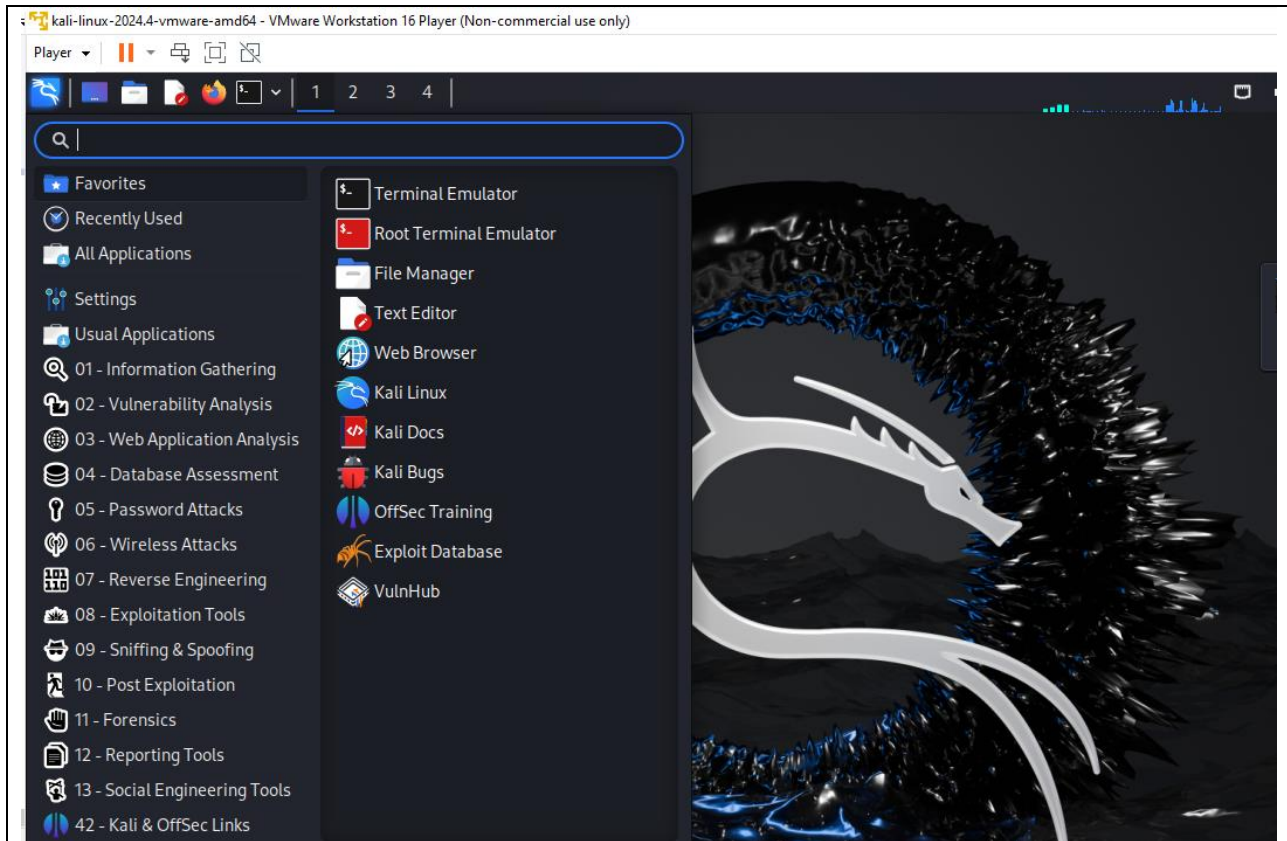
<https://www.kali.org/get-kali/#kali-virtual-machines>

b) **Unzip Kali-linux within working directory** as shown hereafter in Figure.



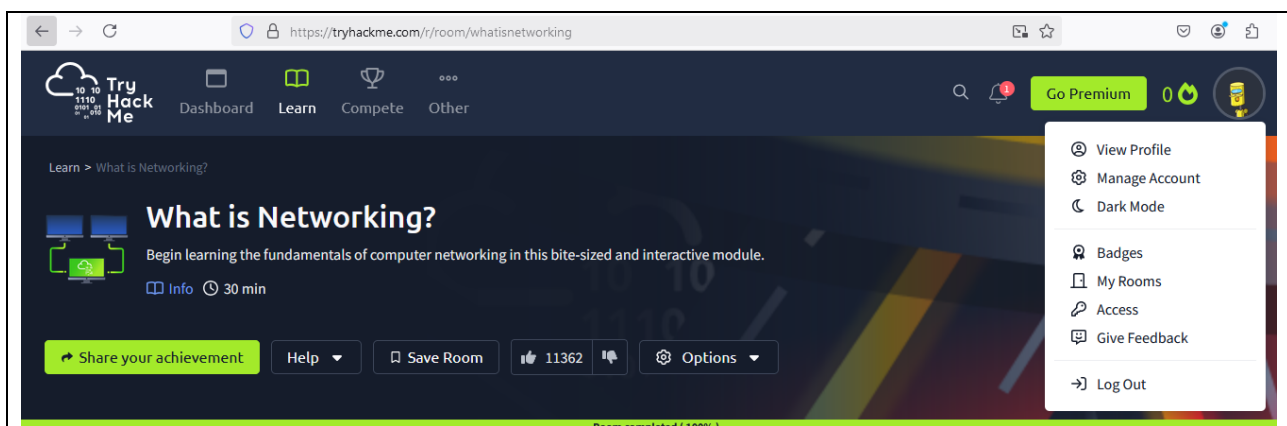
3. Add Kali Linux to VMWare:

a) **Start kali linux Virtual machine** as shown hereafter in Figure.



4. Organizing virtual labs hosted on a tryhackme.com platform

a) **Create profile account on a platform tryhackme.com** as shown hereafter in Figure.



b) **Complete Network fundamental module (what is networking?) on a platform tryhackme.com** as shown hereafter in Figure.

c) **Complete Network exploitation Basics module (Introductory Networking) on a platform tryhackme.com** as shown hereafter in Figure.

TryHackMe

Dashboard

Learn

Compete


...

← Back to all modules

Network Fundamentals

Learn the core concepts of how computers communicate with each other and types of network weaknesses.

Every security professional needs to understand the network fundamentals. This module will introduce the core concepts of computer networking, covering everything from the Internet Protocol (IP), network topologies, TCP and UDP protocols of the OSI Transport Layer. Don't worry if that sounds complicated, as this module's labs use fun beginner friendly exercises and real-world examples to help guide your learning.



What is Networking?

Begin learning the fundamentals of computer networking in this bite-sized and interactive module.

Task 1

✔

What is Networking?

Task 2

✔

What is the Internet?

Task 3

✔

Identifying Devices on a Network

Task 4


✔

Ping (ICMP)

Task 5

✔

Continue Your Learning: Intro to LAN



Introductory Networking

An introduction to networking theory and basic networking tools

📶 Easy ⌚ 20 min

Task 1

○

Introduction

Task 2

✔

The OSI Model: An Overview

Task 3

○

Encapsulation

Task 4

○

The TCP/IP Model

Task 5

○

Networking Tools

Ping

Task 6

○

Networking Tools

Traceroute

Task 7

○

Networking Tools

WHOIS

Task 8

○

Networking Tools

Dig

Task 9

○

Further Reading

d) Practice networking commands (ping, whois, dig, etc..) using installed kali-linux distribution as shown hereafter in Figure.

The image is a composite of three screenshots. The leftmost screenshot shows a web browser at 'https://tryhackme.com/c/ro' displaying a task page for 'What is Networking?'. It lists four tasks: 'Task 1: What is Networking?', 'Task 2: What is the Internet?', 'Task 3: Identifying Devices on a Network', and 'Task 4: Ping (ICMP)'. The text explains that ping is a fundamental network tool and shows a terminal snippet: 'cmnatic@CMNatic-THM-LPTOP:~\$ ping 192.168.1.1'. The right side of the image shows two Kali Linux desktop environments. The top desktop has a terminal window open with the command 'ping 127.0.0.1' and its output, showing successful ping results with 56(84) bytes of data. The bottom desktop has a terminal window open with the command 'whois netflix.com' and its output, showing domain information for NETFLIX.COM, including the registry ID, registrar (MarkMonitor Inc.), and contact details.