WINDOWS FUNDAMENTALS 1: AN INTRODUCTION TO SYSTEM AND COMMAND-LINE BASICS

EXP.NO: 1(a)

AIM:

To understand and explore the fundamentals of the Windows operating system, including key components such as the file system, command prompt (CMD), task manager, and registry, to build a strong foundation for cybersecurity and system administration. in TryHackMe platform.

ALGORITHM:

1. Access the lab in TryHackMe platform using the link below
   https://tryhackme.com/r/room/windowsfundamentals1xbx

2. Click Start a Machine and AttackBox to run the instance of Kali Windows distribution.

3. Solve the task questions start with Windows OS edition and Desktop GUI.

4. Understand the importants of NTFS file system and feature.

5. Learn about Windows folder and environmental variable for windows directory .

6. Learn Local User and Group Management.

7. Learn User Account Control and practice in Virtual Machine.

8. Do Control Panel setting – Network & Internet setting.

9. Learn Task Manager – applications and process running and performance of CPU & RAM.

OUTPUT:
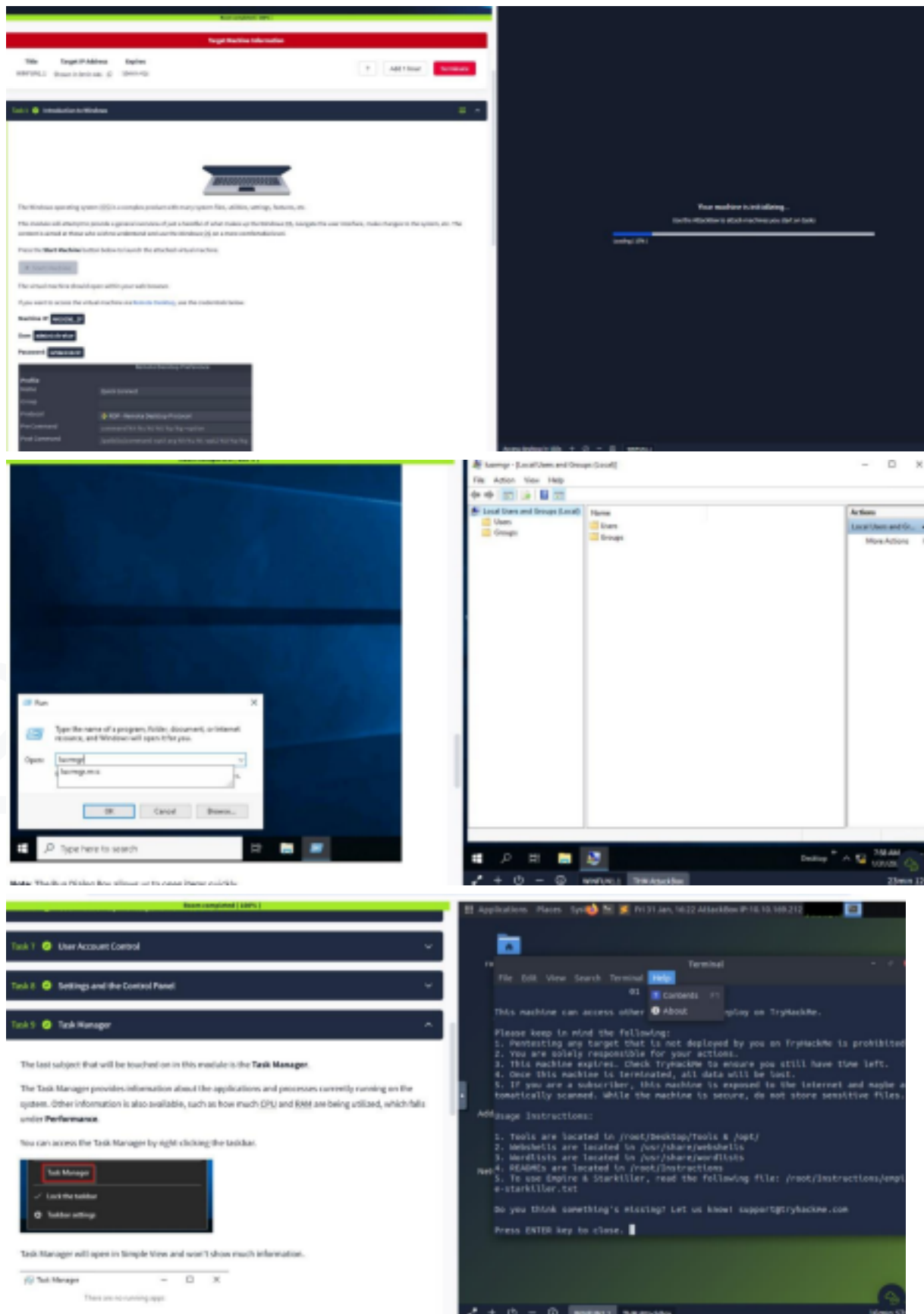
1. Understanding the Windows Environment

➢ Overview of Windows OS versions and architecture.
➢ File system structure (C:, Program Files, Users).

2. Command-Line Basics (CMD & PowerShell)

➢ Navigating directories (cd, dir).
➢ Checking system information (echo %USERNAME%).

3. System Management

➢ Using **Task Manager** to monitor and manage running processes.
➢ Using tasklist and taskkill to interact with processes via CMD.

4. Windows Registry Introduction

➢ Exploring the **Registry Editor (regedit)**.
➢ Understanding registry hives like HKEY_LOCAL_MACHINE and

HKEY_CURRENT_USER. 5. **Basic Networking in Windows**

➢ Using commands like ipconfig, ping, and netstat to analyze network configurations.

6. User and Permissions Management

➢ Viewing current users (whoami, net user).
➢ Understanding access control and security policies.

Answer the questions below

What encryption can you enable on Pro that you can't enable in Home?

BitLocker	✔ Correct Answer

Which selection will hide/disable the Search box?

Hidden	✔ Correct Answer

Which selection will hide/disable the Task View button?

Show Task View button	✔ Correct Answer

Besides Clock and Network, what other icon is visible in the Notification Area?

Action Center	✔ Correct Answer	💡 Hint

What is the meaning of NTFS?

New Technology File System	✔ Correct Answer

What is the system variable for the Windows folder?

%windir%	✔ Correct Answer

What is the name of the other user account?

| tryhackmebilly | ✔ Correct Answer |

What groups is this user a member of?

| Remote Desktop Users,Users | ✔ Correct Answer |

What built-in account is for guest access to the computer?

| Guest | ✔ Correct Answer |

What is the account description?

| window$Fun1! | ✔ Correct Answer |

What does UAC mean?

| User Account Control | ✔ Correct Answer |

In the Control Panel, change the view to **Small icons**. What is the last setting in the Control Panel view?

| Windows Defender Firewall | ✔ Correct Answer |

What is the keyboard shortcut to open Task Manager?

| Ctrl+Shift+Esc | ✔ Correct Answer |

RESULT:

This experiment provides a **practical introduction** to Windows system fundamentals, enabling to navigate, manage, and analyze system components efficiently.