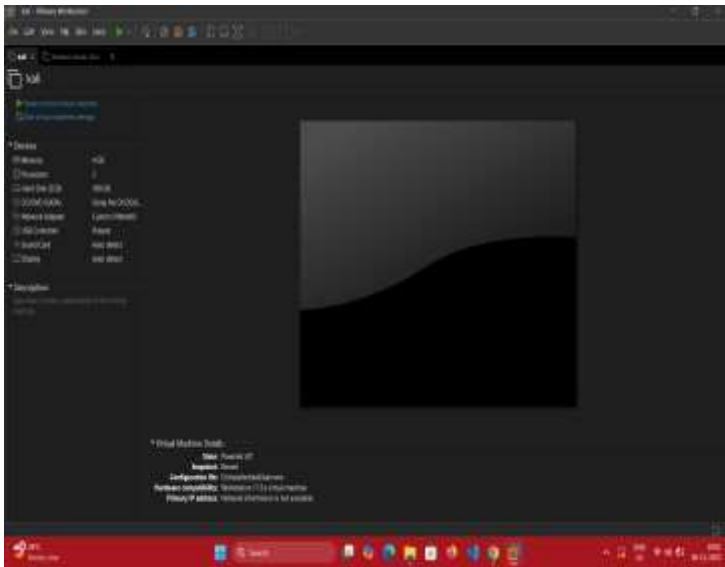# LearnBay

Secure Lab Lite

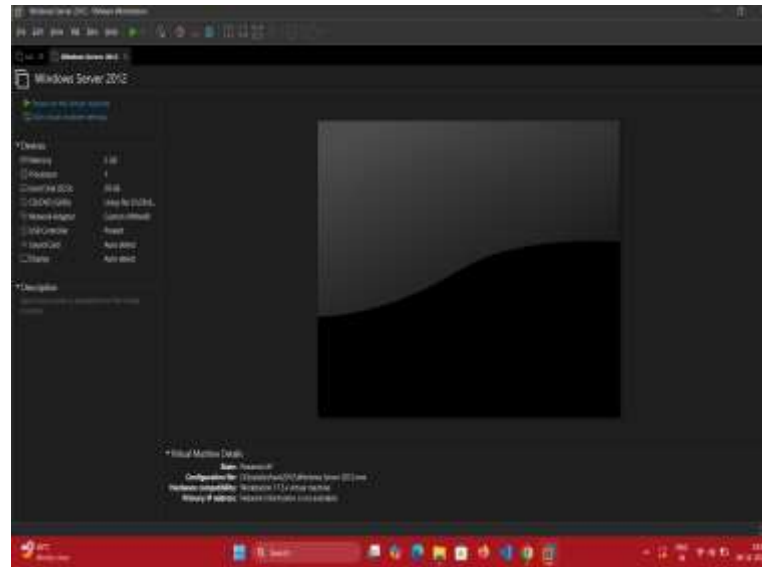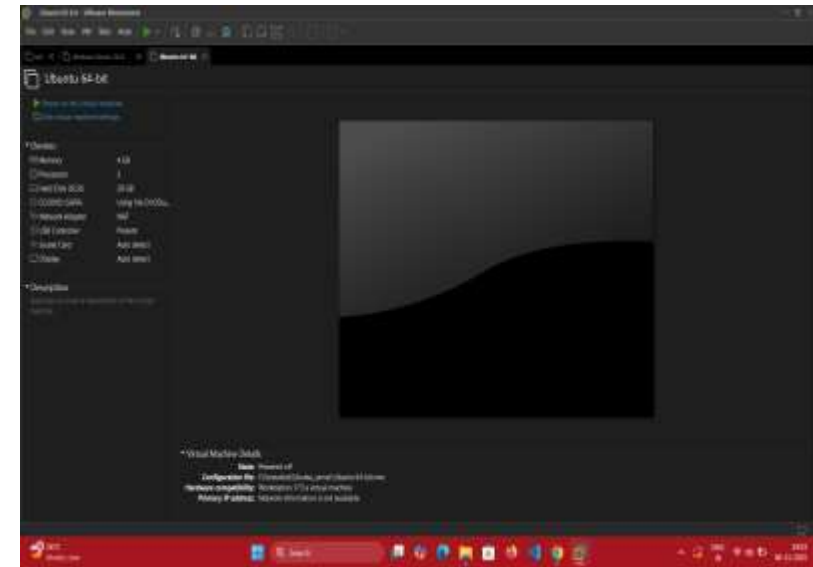Report

Souvik Mondal

Objective

- Build a tiny lab (Ubuntu + Windows + Kali), run network discovery, find one vulnerability, fix it, and demonstrate results.
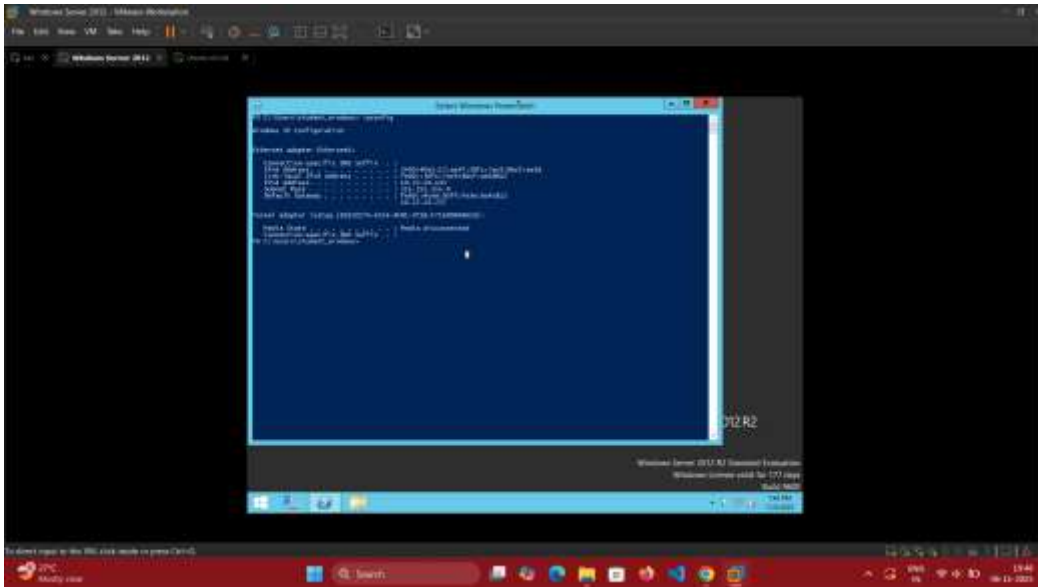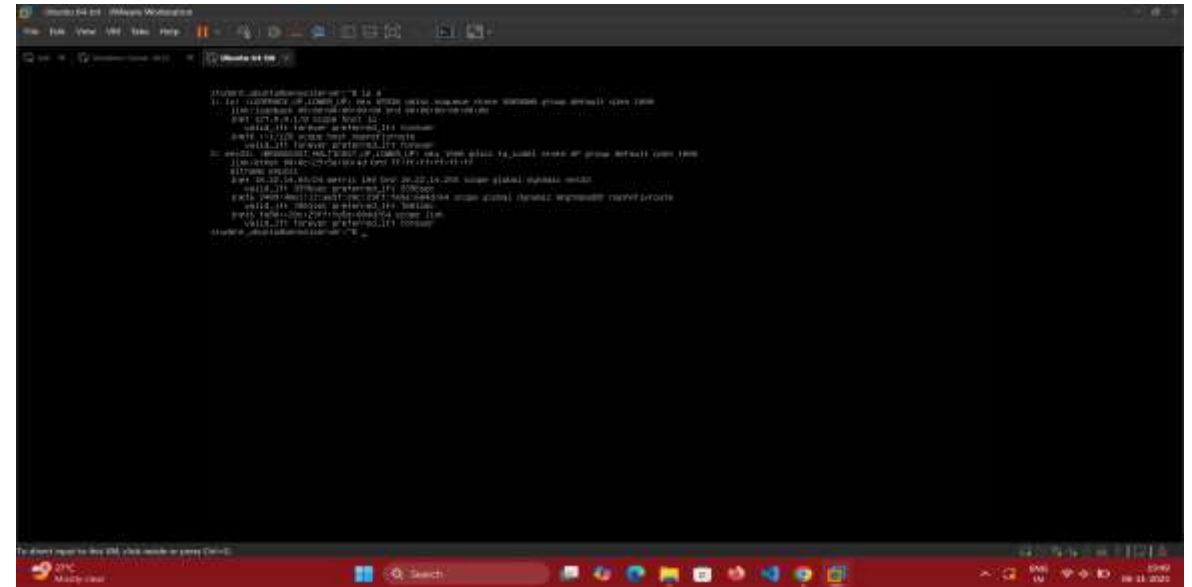

Kali

Windows Server

Ubuntu

Setup

- Ubuntu Server 22.04 - 10.22.14.64 (before restart) | 10.116.247.64 (after restart)

- Windows Server - 10.22.14.143 (before restart) | 1.116.247.143 (after restart)

- Kali – 10.116.247.159

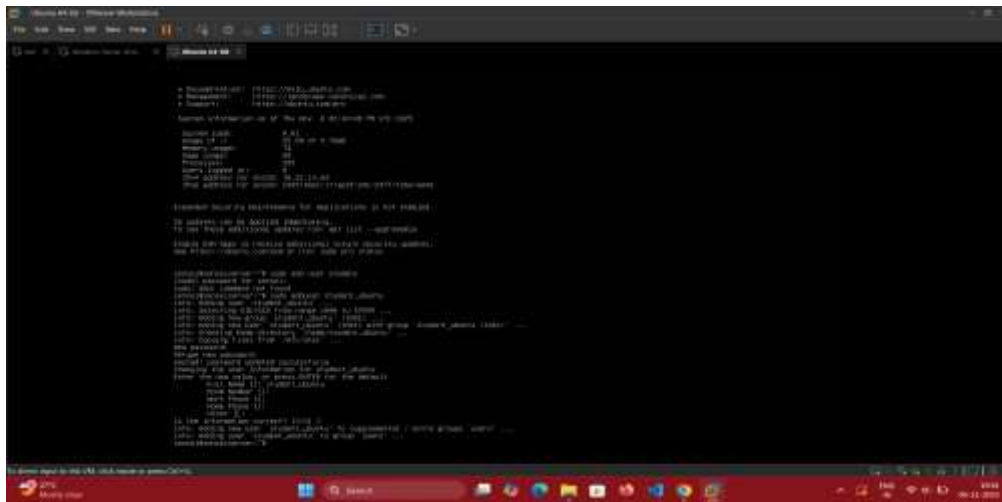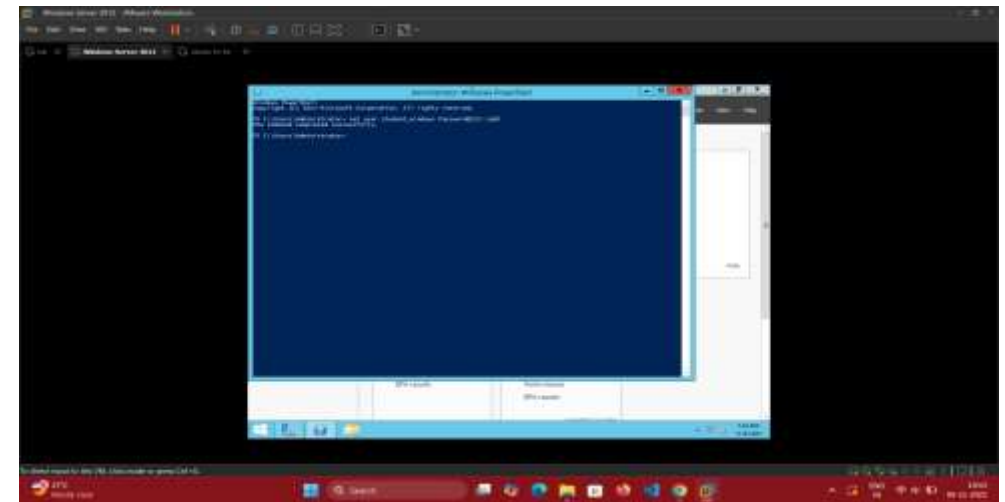- Network: Custom: Specific Virtual Network (VMnet0)

Windows Server

Ubuntu

Actions performed

- Basic OS setup:

- Ubuntu: created non-admin user `student_windows`

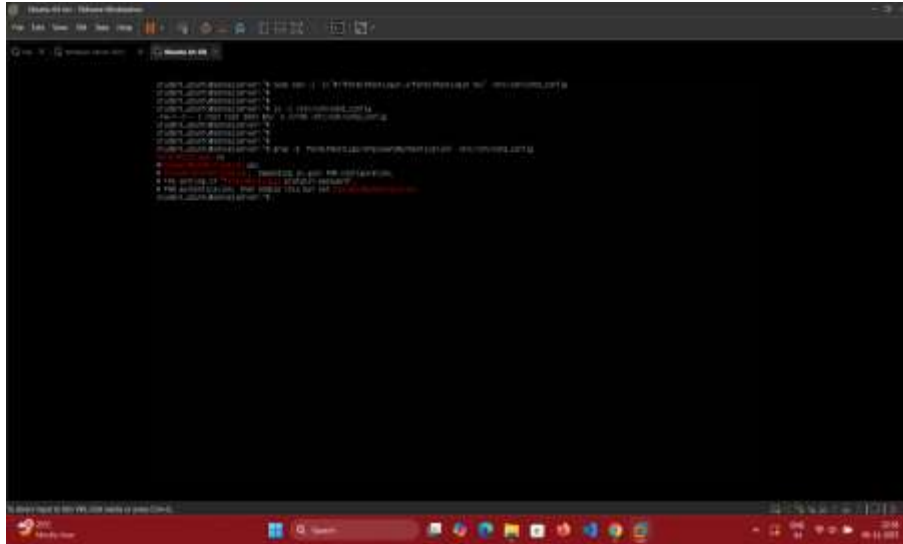- Windows: created non-admin user `student_ubuntu`
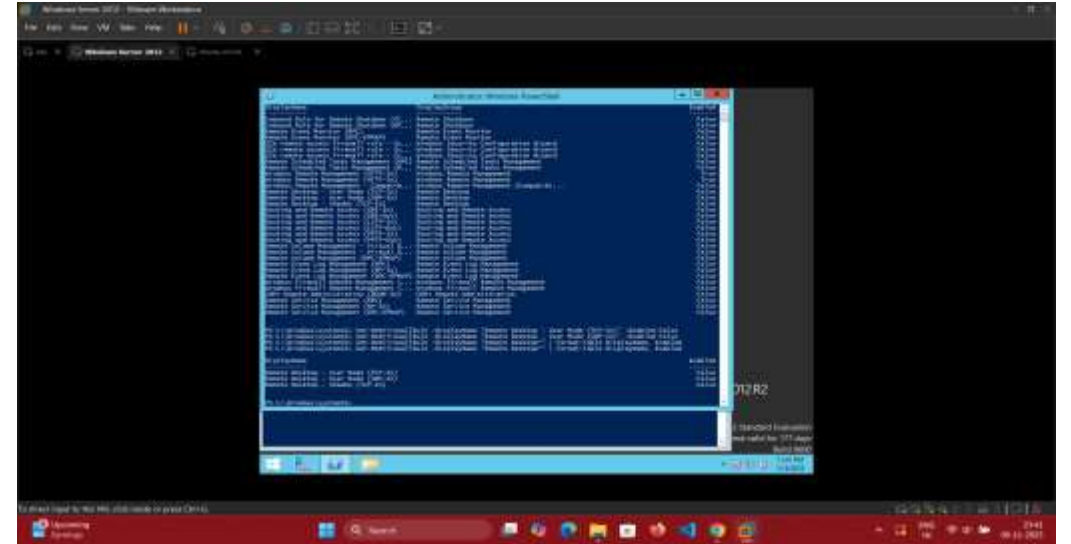

Ubuntu

Windows Server

Hardening

- Disabled SSH root login on Ubuntu (`PermitRootLogin no`)
- Disabled Remote Desktop on Windows via registry and firewall

Ubuntu

Windows Server

Discovery

- Nmap quick scan: `nmap -Pn -O -p- -sV –min-rate=100 10.116.247.64 10.116.247.143`

-   - Output confirmed SSH open on Ubuntu and RDP open on Windows (before fixes)

Fix applied

- Ubuntu: `PermitRootLogin no` then `systemctl restart sshd`.
- Windows: Disabled RDP and disabled Remote Desktop firewall rules.

Result

Re-scanned with Nmap:

1. RDP port no longer reachable
2. SSH root login disabled.