Cyber lab configuration

as target machines Win10 and Win11

Attacking system Kali Linux

-Windows installation media can be found on the school network P:\Students (\\file1\programs) or online

In this lab, security updates are not applied to the Win10 machine to ensure that there is as much "attack surface" as possible.

- **NOTE!** Under normal circumstances, it is advisable to get all possible security updates for the operating system and installed programs and to ensure that the virus definition databases are up to date.

It is a good idea to disable Defender from your Win10 workstation using Local Group Policy and prevent Windows from scanning for security updates.

Win10 update and Defender blocker with Group Policy.

Gpedit.mscComputer Configuration > Administrative Templates > Windows Components > Windows Updates > Configure Automatic Updates > Disabled

Computer Configuration > Administrative Templates > Windows Components > Windows Defender > Turn off Windows Defender > Enabled

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Defender esto rekisterieditorilla

RegeditHKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows Defender

- -On the right-side, right-click on the empty area, click New, click DWORD (32-bit) value and then name it as DisableAntiSpyware.
- -Double-click on DisableAntiSpyware and change its value data to 1 to disable Windows Defender.
- -Restore the value data to "0" to enable Defender again.

Quick'n Easy FTP Server 3.2 Lite is installed on a Win10 machine (can also be installed on a Win11 machine)- can be found.zip package (ftpserver3lite.zip) in

this itsLearning course and in the school's network distribution of Z:\VAIPE\LUKU\Kyber20-ohjelmia (\\file2\common\permanent)

Win10 and Win11 machines are installed with an older Firefox browser

- can be found on the school network under Z:\VAIPE\LUKU\Kyber20-ohjelmia (\\file2\common\permanent)\Win10 and \Win11 machines are installed Xampp
- can be found on the school's network under Z:\VAIPE\LUKU\Kyber20-ohjelmia (\\file2\common\permanent)
- after installation, you should configure Apache and MySQL to start automatically (FileZilla can also be started on a Win11 machine if Quick'n Easy FTP Server is not installed)

Attack machine Kali Linux.

- Latest version online

Summary of operating systems, programs, and installation file locations to install:

Win 10

- Xampp (Z:\VAIPE\CHAPTER\Kyber20-ohjelmia (\\file2\common\permanent)
- Quick'n Easy FTP Server (Z:\VAIPE\LUKU\Kyber20-ohjelmia (\\file2\common\permanent)
- Older Firefox browser (Z:\VAIPE\CHAPTER\Kyber20-ohjelmia (\\file2\common\permanent)

Win 11

- Xampp (Z:\VAIPE\CHAPTER\Kyber20-ohjelmia (\\file2\common\permanent)
- Older Firefox browser (Z:\VAIPE\CHAPTER\Kyber20-ohjelmia (\\file2\common\permanent)

Kali Linux from the web.

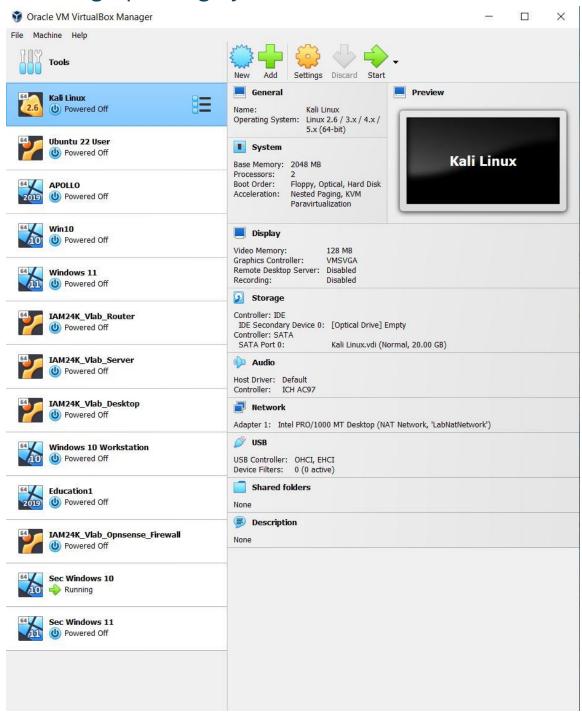
Network:

Finally, change the network settings of the machines so that they are on the same network and they ping each other.- On Win10 and Win11 machines, remember to enable ping (Inpound Rules – File and Printer Sharing (Echo Request – ICMPv4-In) Enable

One way to configure the network is as follows:

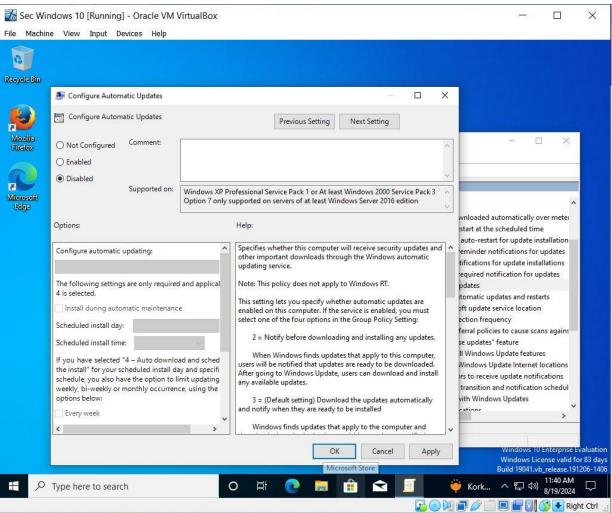
- In VirtualBox, configure NatNetwork (e.g. 10.114.48.0/24) or use an existing one-Assign Win10 and Win11 and Kali machines fixed IP addresses from this space (e.g. 10.114.48.10, 10.114.48.11 and 10.114.48.30) * You can check the required dhcp and dns settings on the machines once they have received the IP address automatically.

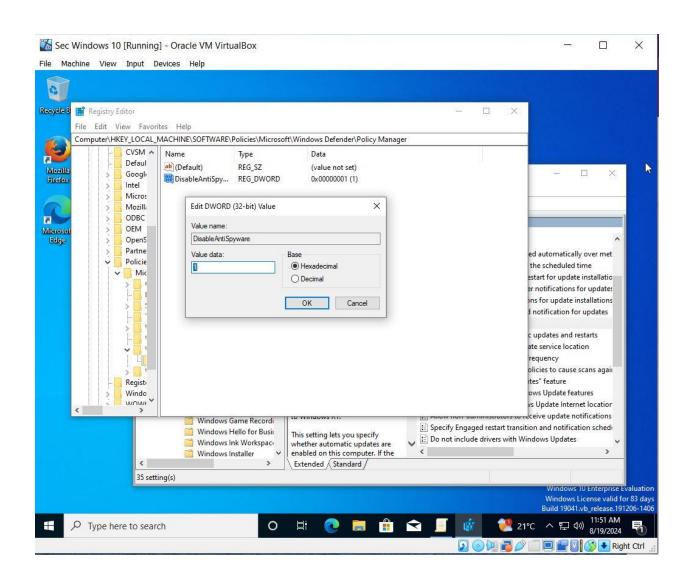
Installing Operating Systems: Kali Linux and Windows 10

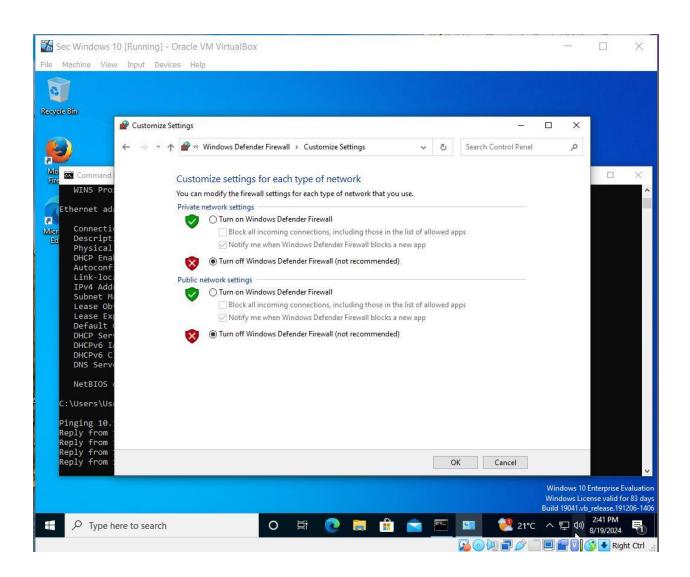


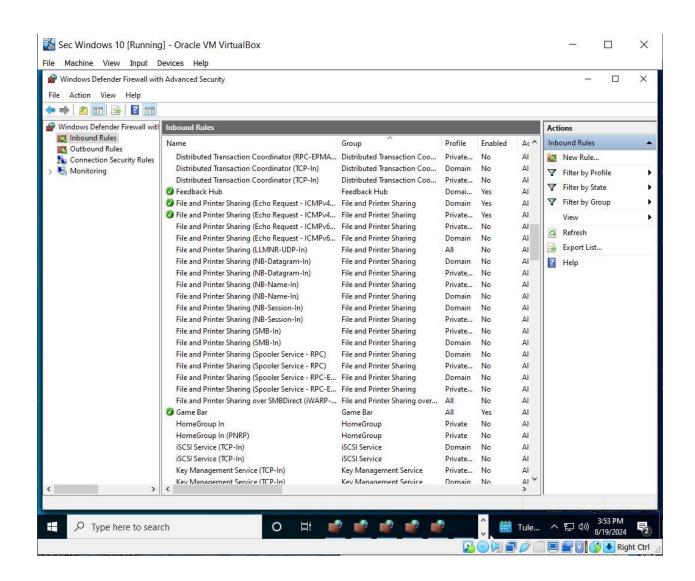


Disabling Security Update, Defender and Enabling Ping

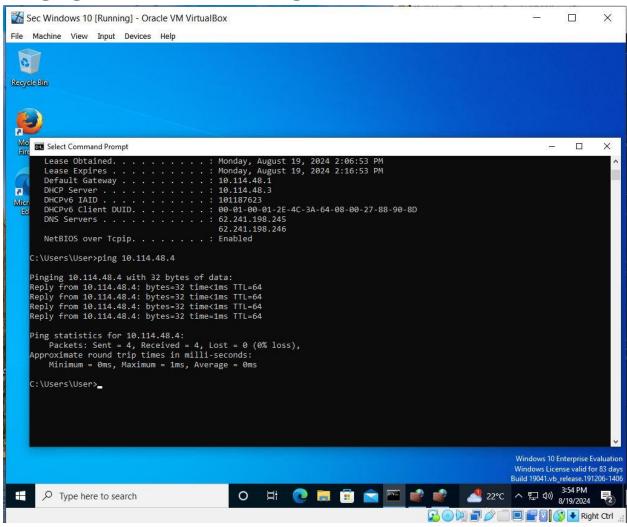


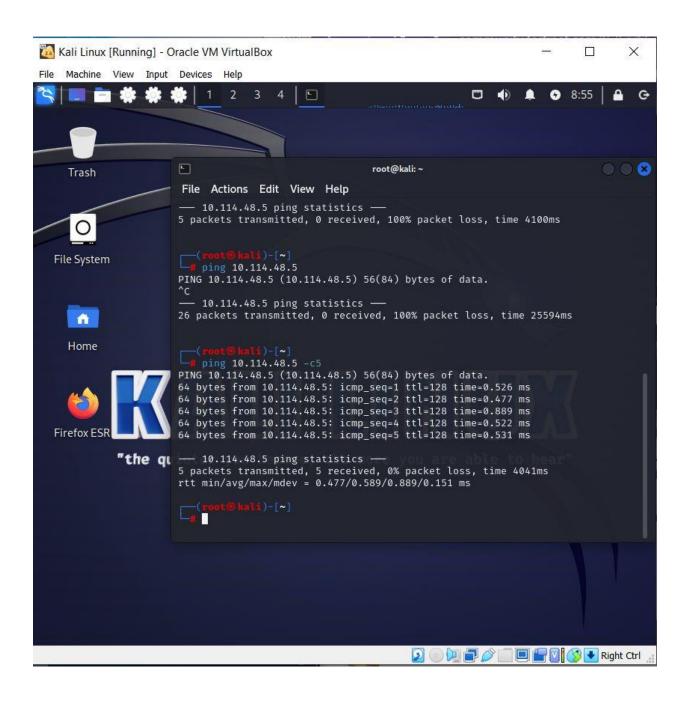






Pinging and Communicating devices





Installing Mozilla, FTP server and XAMPP

