Creating and Maintaining your Detonation Environment

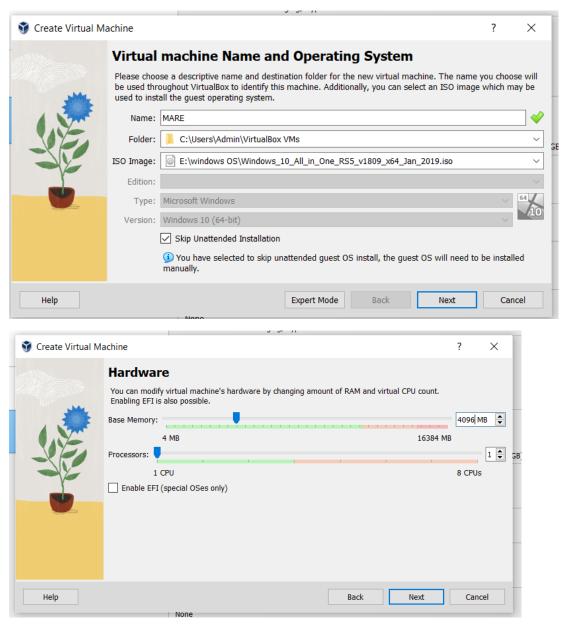
Technical requirements

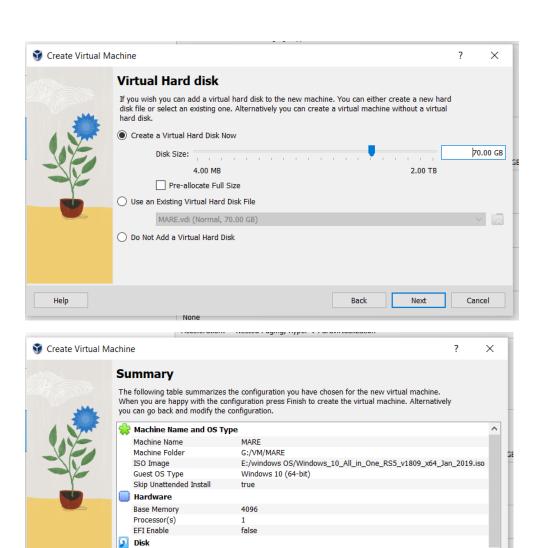
The following are the requirements for this lab:

- A PC/Mac with at least 8 GB of memory and a quad-core processor
- An internet connection
- FLARE VM GitHub package: https://github.com/fireeye/flare-vm
- The latest VirtualBox installer: https://virtualbox.org/wiki/downloads
- A Windows 10 ISO and product key

Text book : Malware Analysis Techniques Tricks for the triage of adversarial software Dylan Barker, 2021

Setting up VirtualBox with Windows 10





70.00 GB

Back

Finish

Cancel

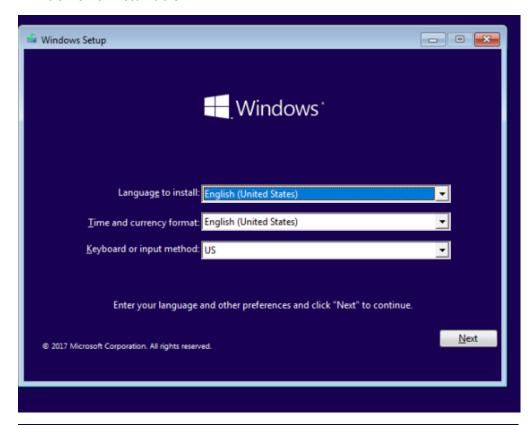
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Disk Size

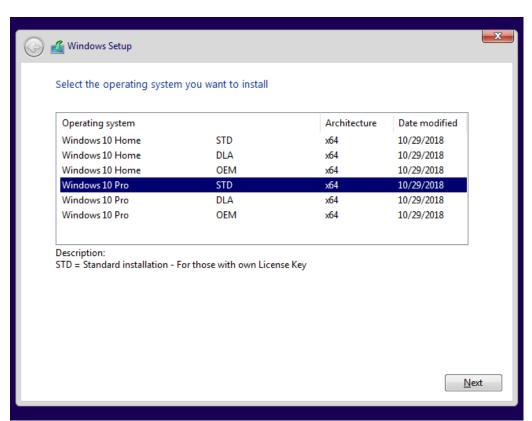
Help

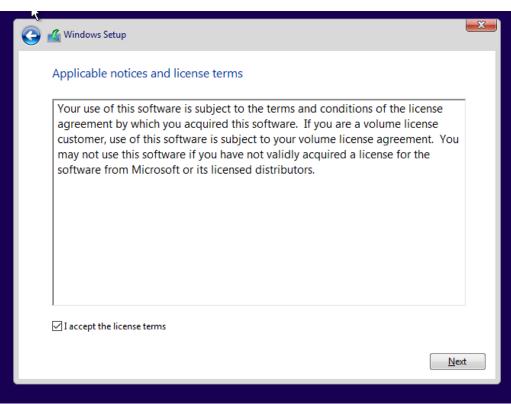
Pre-allocate Full Size

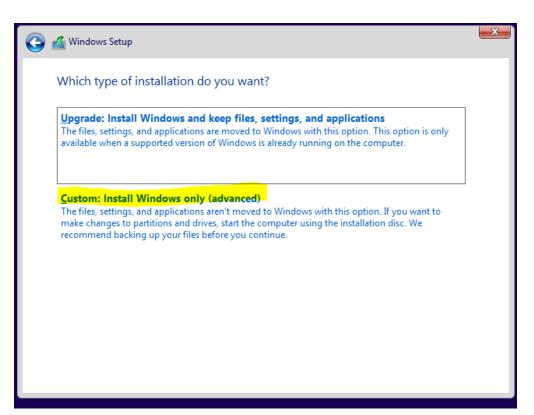
Windows 10 installation

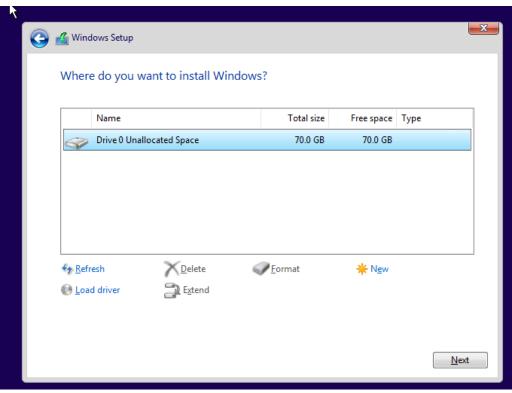


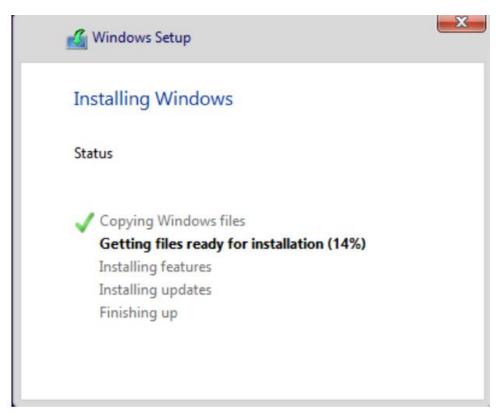


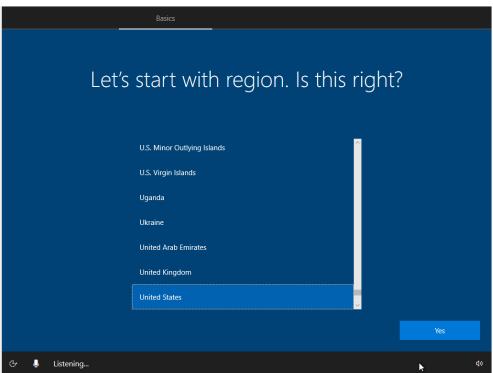


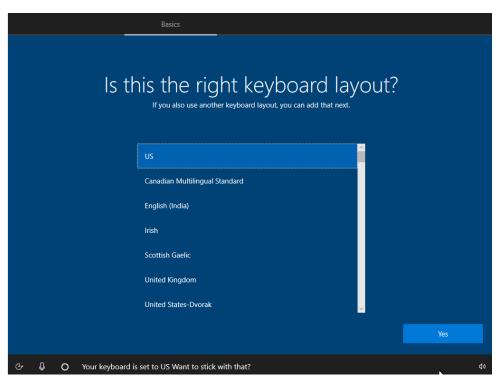


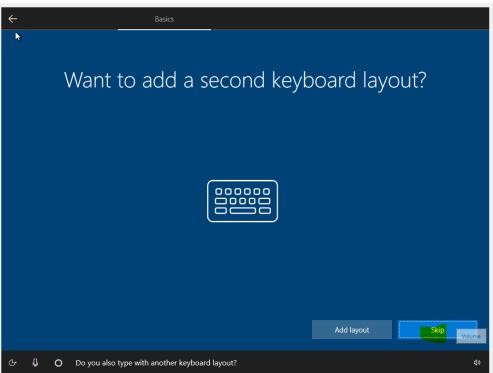


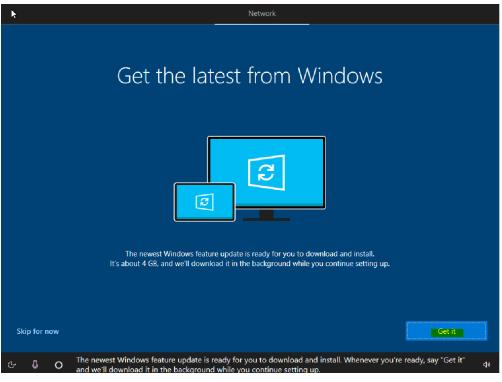


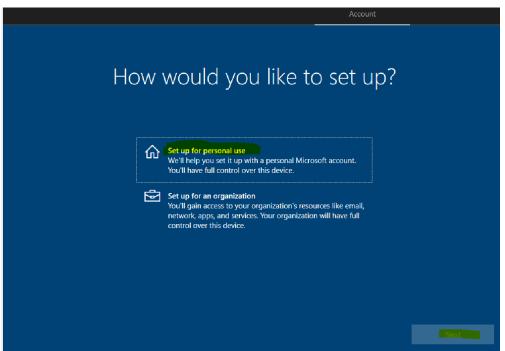


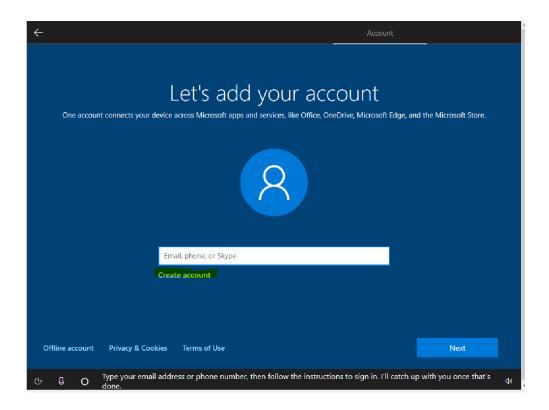




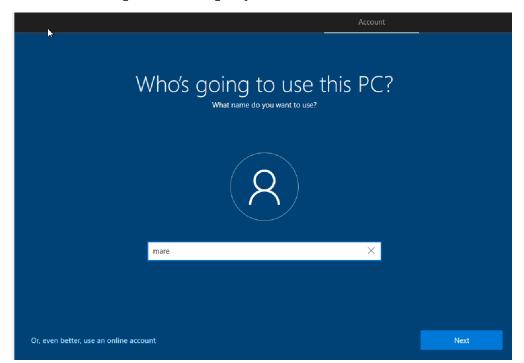


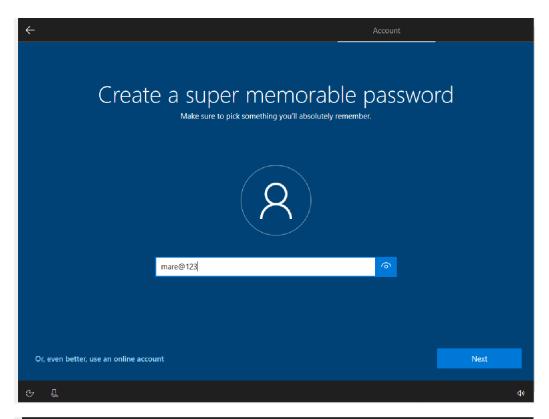


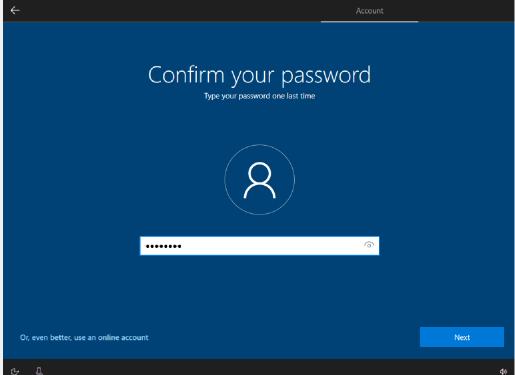




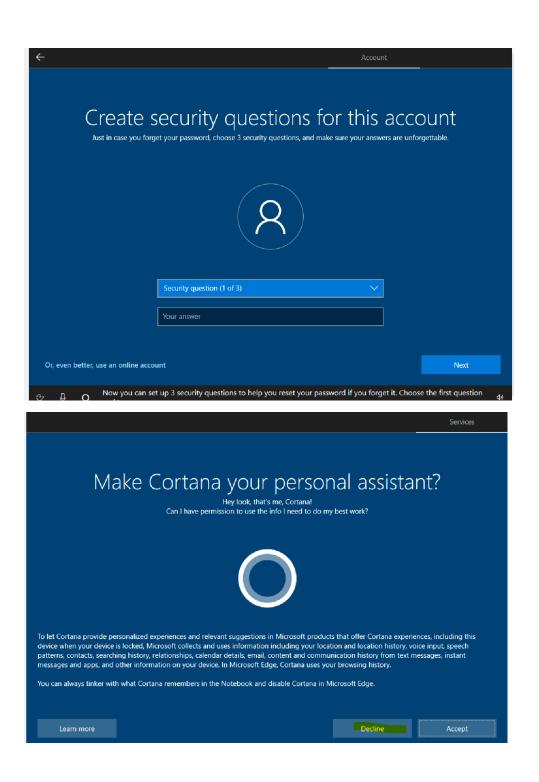
User name and password as per your choice

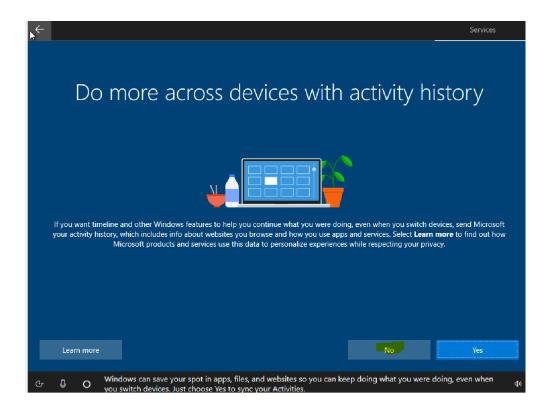


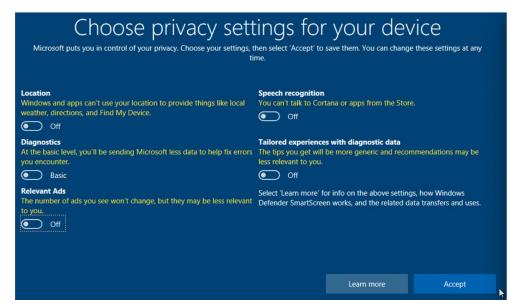




Question and answer as per your choice

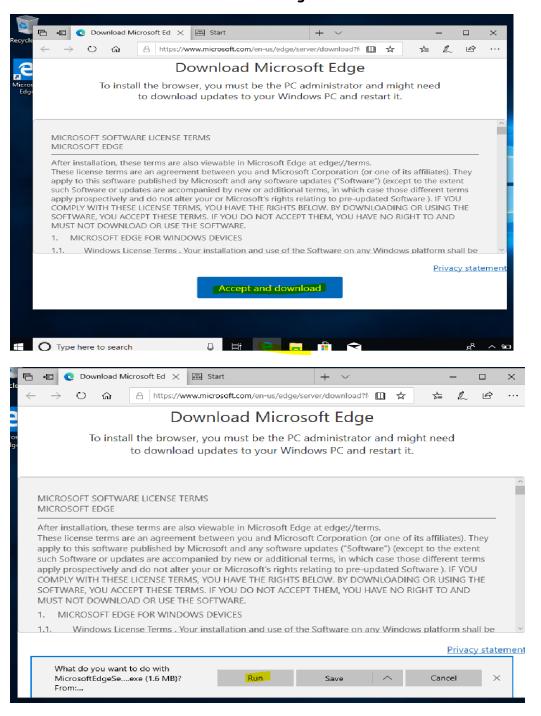


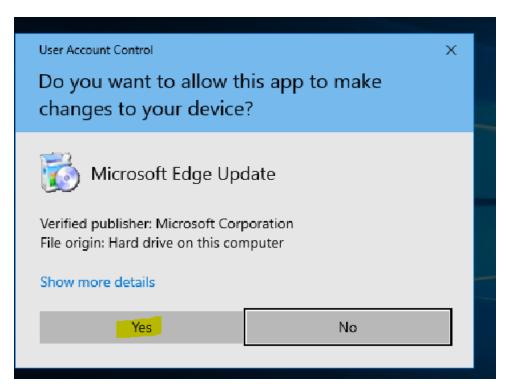


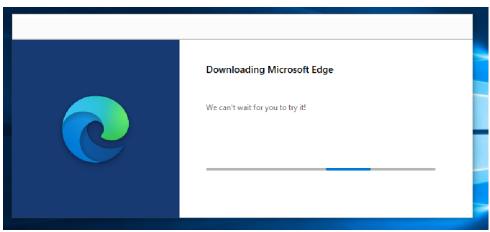




Launch the browser install Microsoft edge

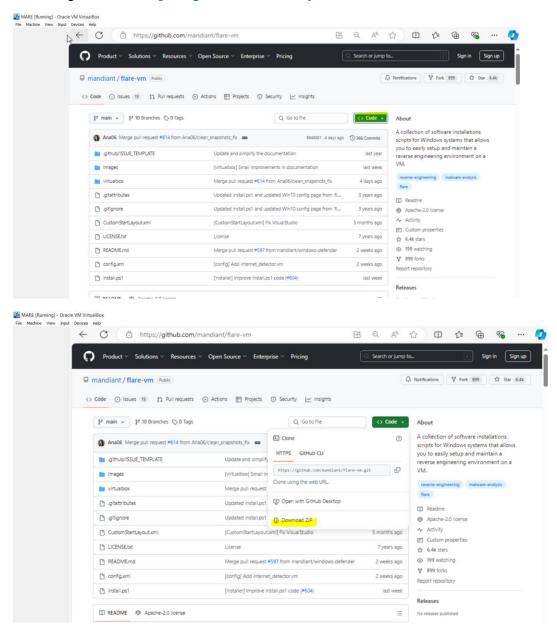






Download the FLARE VM package

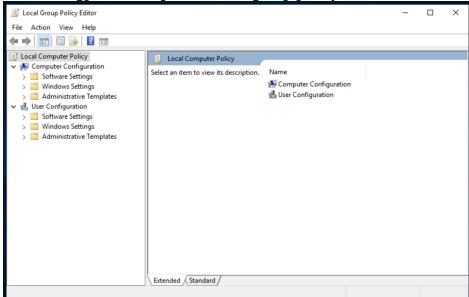
FLARE VM, a PowerShell script that can automatically download and install nearly every tool a malware analyst would need. The script is publicly available on GitHub at the following address: https://github.com/fireeye/flare-vm



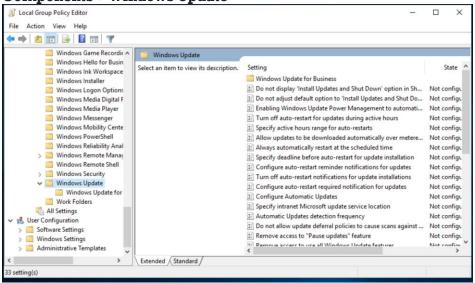
Prerequisite settings

• Disable Windows Updates (at least until installation is finished)

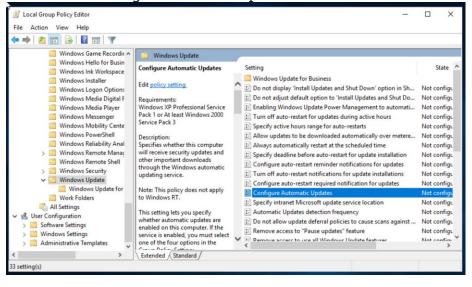
> Search for gpedit and open the local group policy editor

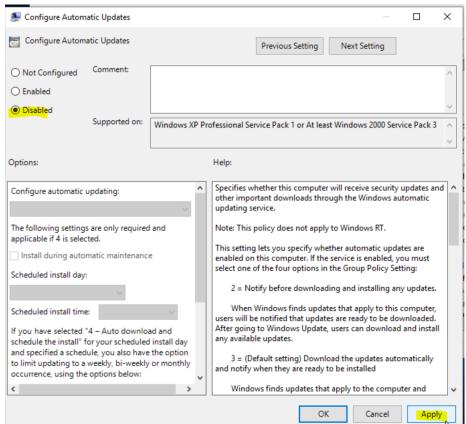


Navigate to computer configuration->Administrative Templates->Windows Components->Windows Update



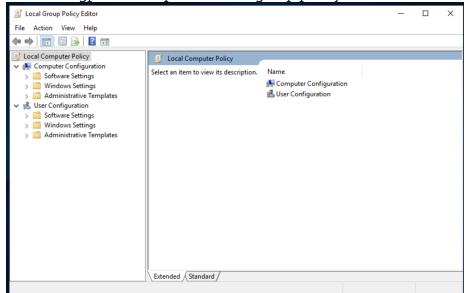
Double click Configure Automatic Updates and disable it.



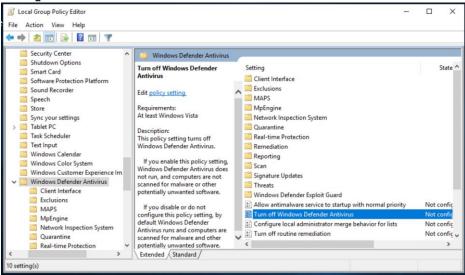


• Disable Tamper Protection and any Anti-Malware solution (e.g., Windows Defender), preferably via Group Policy.

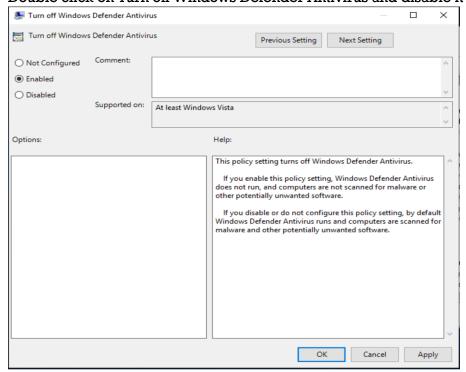
Search for gpedit and open the local group policy editor



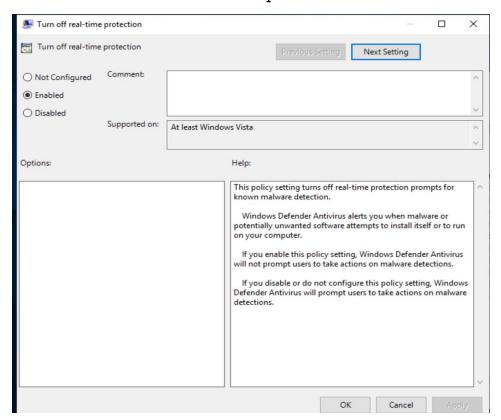
Navigate to computer configuration->Administrative Templates->Windows Components->Windows Defender Antivirus



> Double click on Turn off Windows Defender Antivirus and disable it



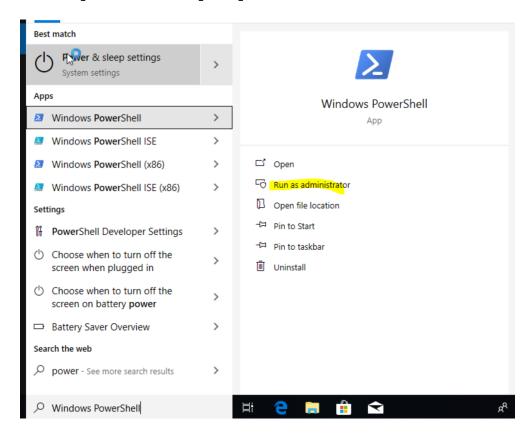
- > Navigate to computer configuration->Administrative Templates->Windows Components->Windows Defender Antivirus->Real-time Protection
- > Double click on Turn off real-time protection



- Install >NET 4.8 framework as well
- Restart the system

FLARE-VM installation

Open a PowerShell prompt as administrator



- Download the installation script installer.psl to your Desktop:
 - (New-Object net.webclient).DownloadFile('https://raw.githubusercontent.com/mandiant/flarevm/main/install.psl',"\$([Environment]::GetFolderPath("Desktop"))\install.psl")

Copy and paste the above in the prompt

```
Administrator: Windows PowerShell

PS C:\Users\mare\Desktop> (New-Object net.webclient).DownloadFile('https://raw.githubusercontent.com/mandiant/flare-vm/main/install.ps1',"$(
[Environment]::GetFolderPath("Desktop"))\install.psi")

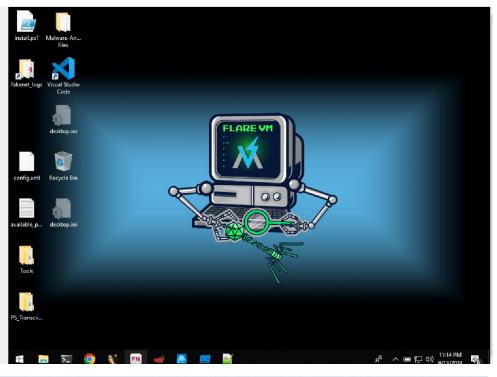
PS C:\Users\mare\Desktop> ____
```

- Unblock the installation script:
 - o Unblock-File .\install.ps1

- Enable script execution:
 - Set-ExecutionPolicy Unrestricted -Force

- If you receive an error saying the execution policy is overridden by a policy defined at a more specific scope, you may need to pass a scope in via Set-ExecutionPolicy Unrestricted -Scope CurrentUser -Force. To view execution policies for all scopes, execute Get-ExecutionPolicy -List
- Finally, execute the installer script as follow:
 - $\circ \quad . \\ \\ install.ps1 \\$

Take a snapshot with all the tools installed before performing any malware analysis and reverse engineering





Isolating your environment

