#### **Creating and Maintaining your Detonation Environment**

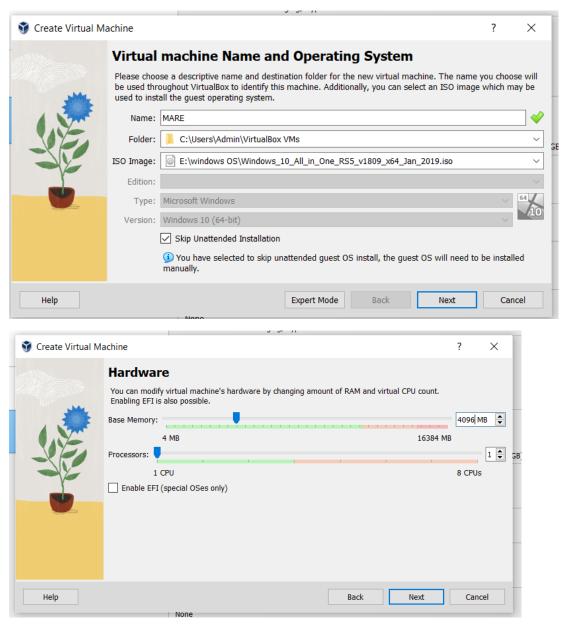
## **Technical requirements**

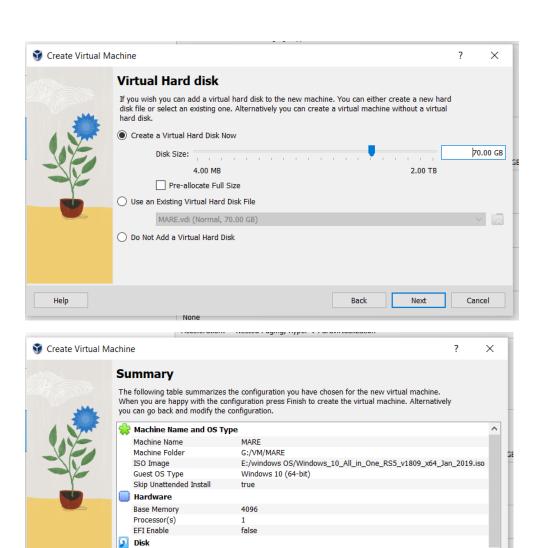
The following are the requirements for this lab:

- A PC/Mac with at least 8 GB of memory and a quad-core processor
- An internet connection
- FLARE VM GitHub package: <a href="https://github.com/fireeye/flare-vm">https://github.com/fireeye/flare-vm</a>
- 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

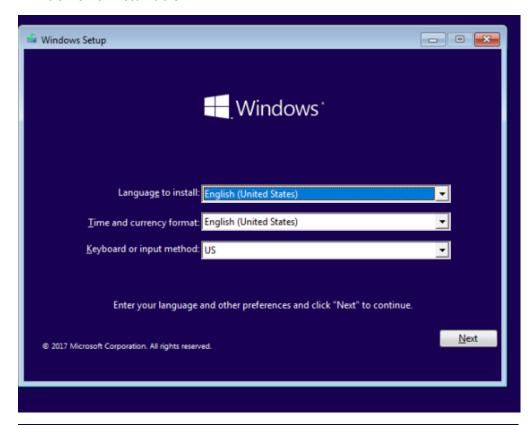
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Disk Size

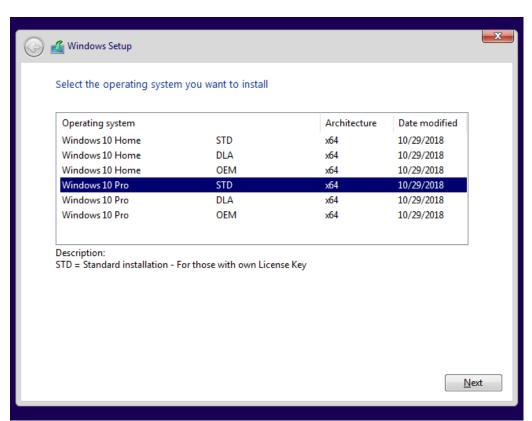
Help

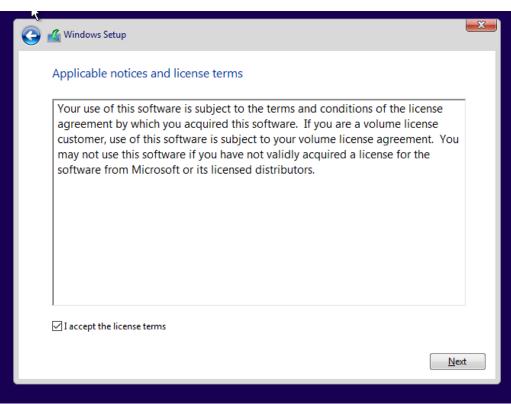
Pre-allocate Full Size

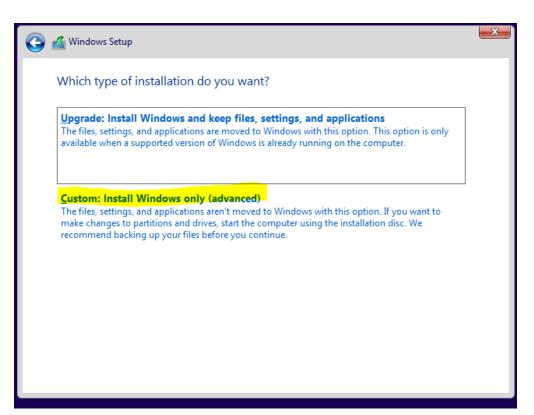
#### Windows 10 installation

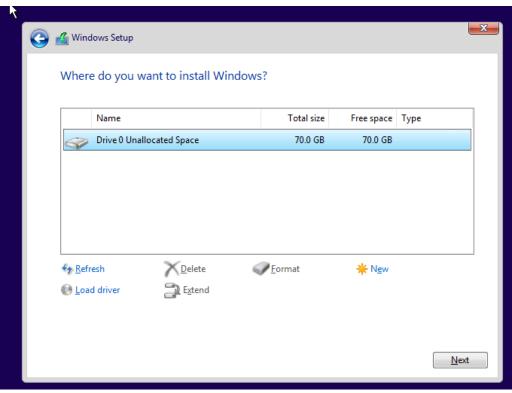


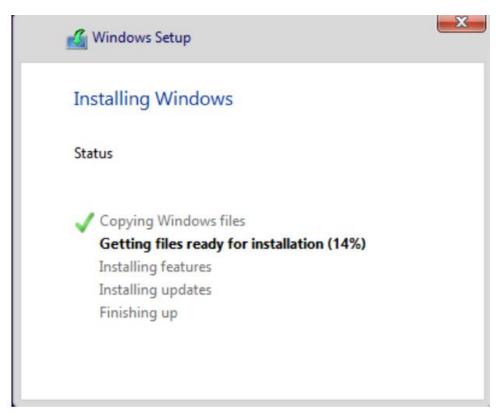


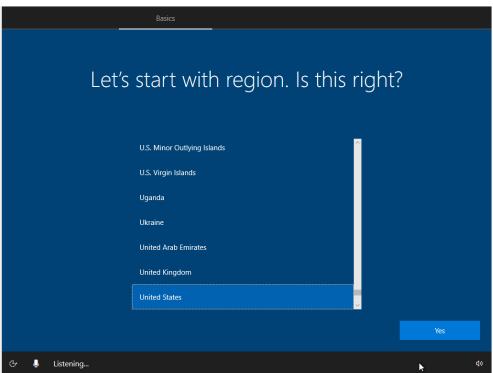


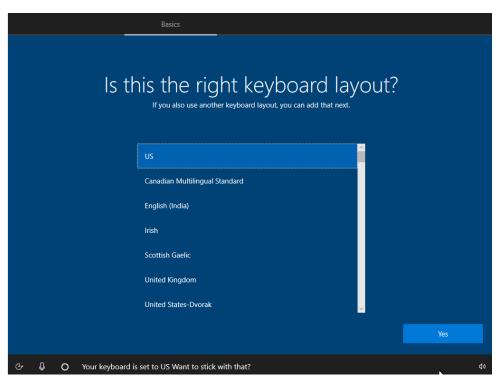


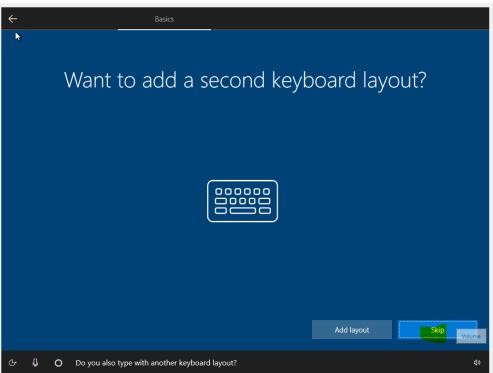


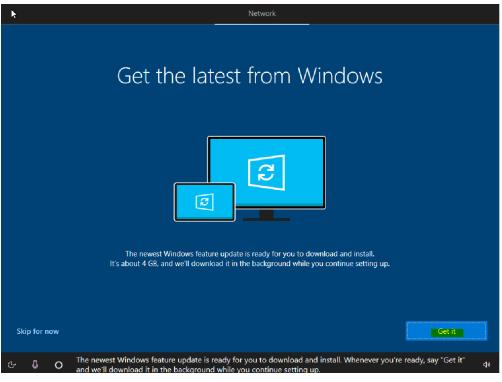


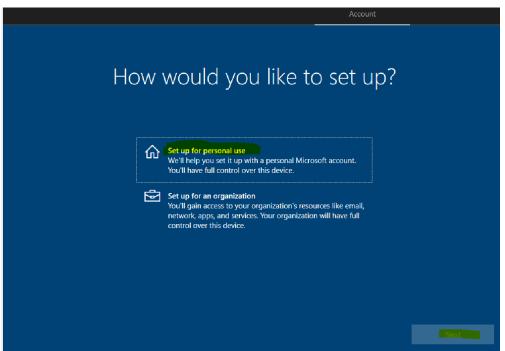


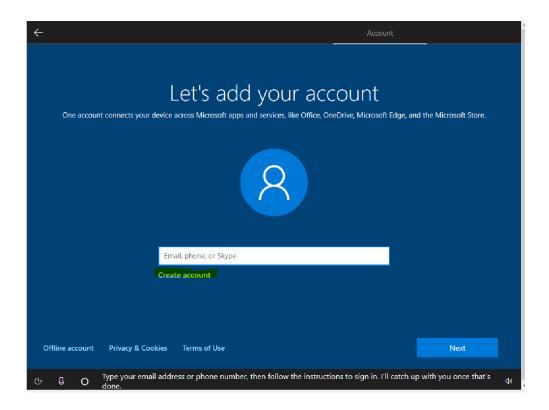




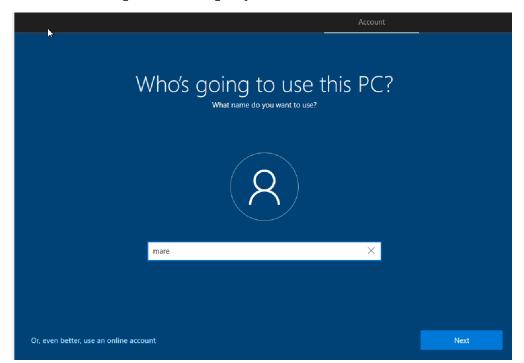


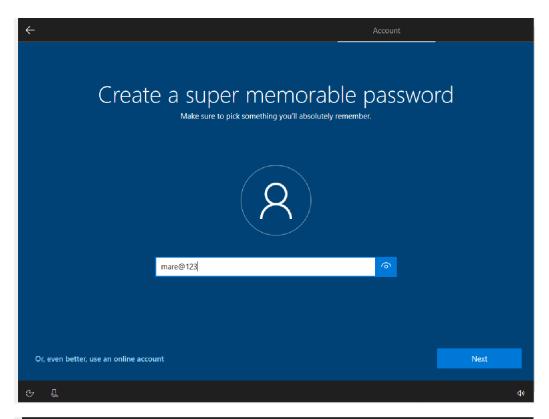


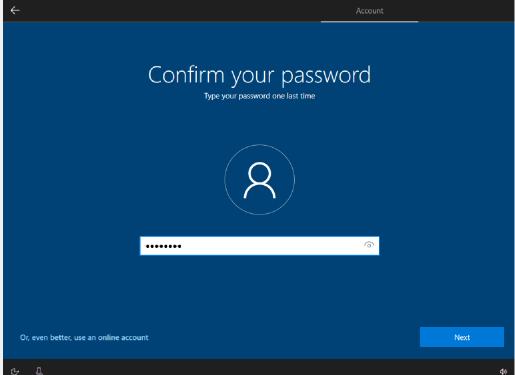




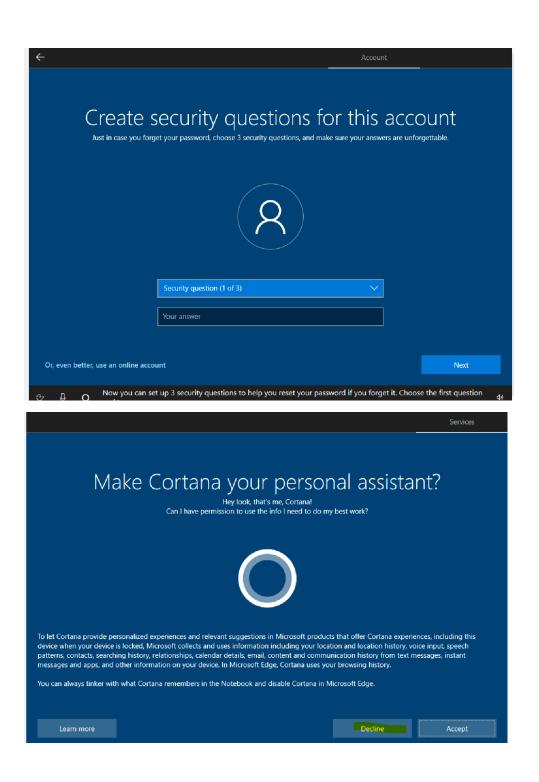
## User name and password as per your choice

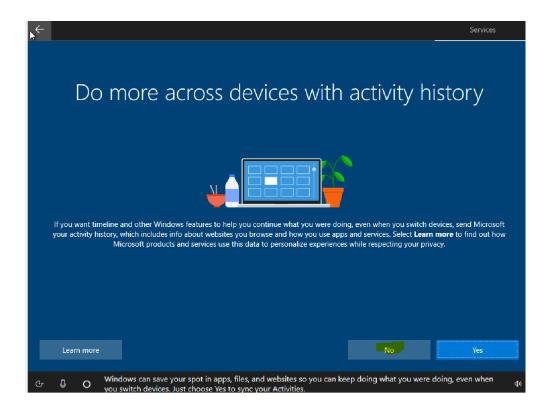


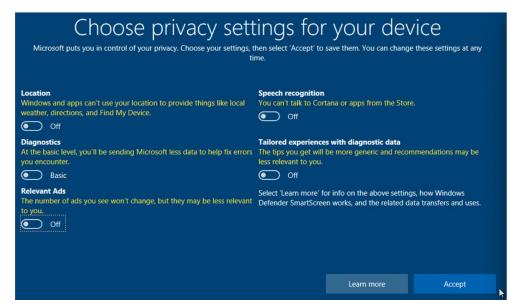




Question and answer as per your choice

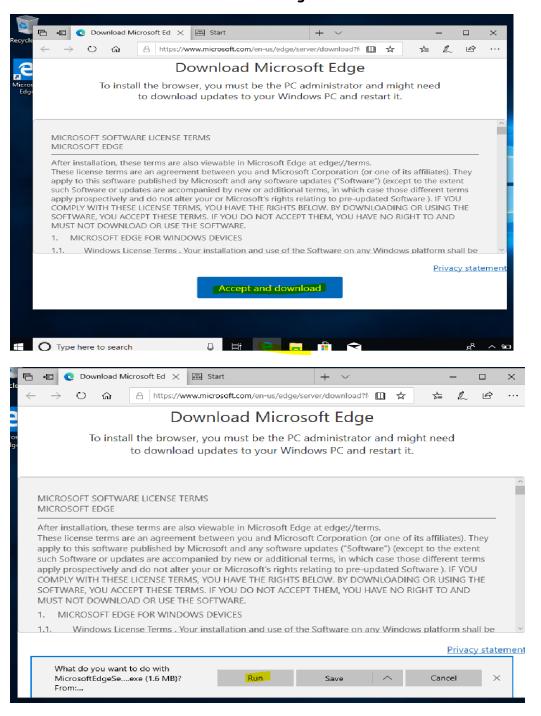


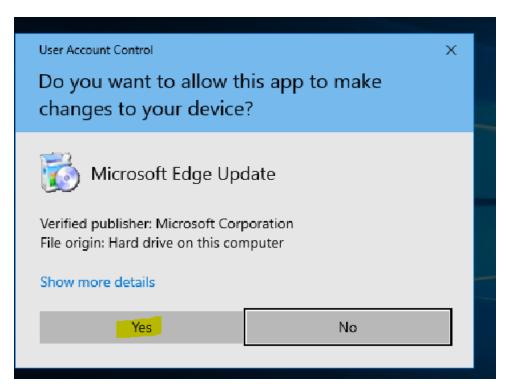


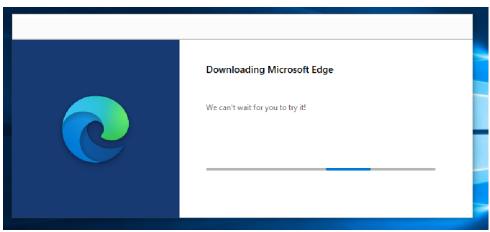




## Launch the browser install Microsoft edge

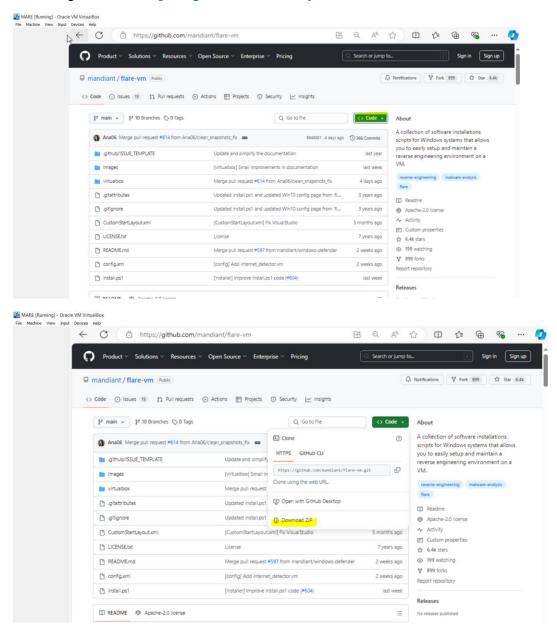






#### Download the FLARE VM package

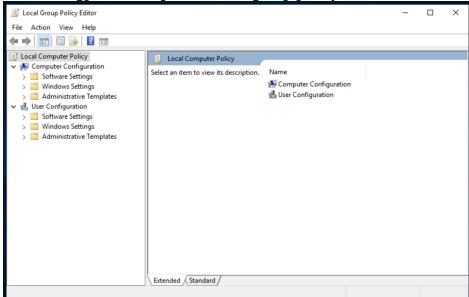
FLARE VM, a PowerShell script that can automatically download and install nearly every tool a malware analyst would need. The script is publicly available on GitHub at the following address: <a href="https://github.com/fireeye/flare-vm">https://github.com/fireeye/flare-vm</a>



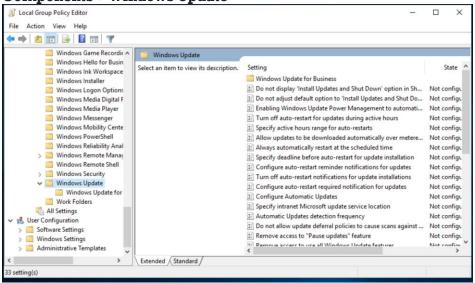
## Prerequisite settings

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

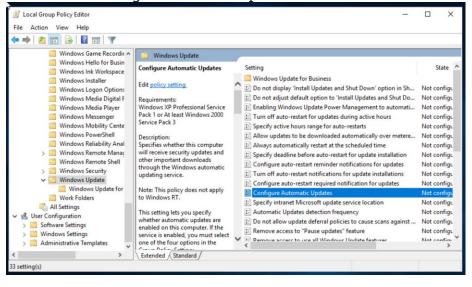
> Search for gpedit and open the local group policy editor

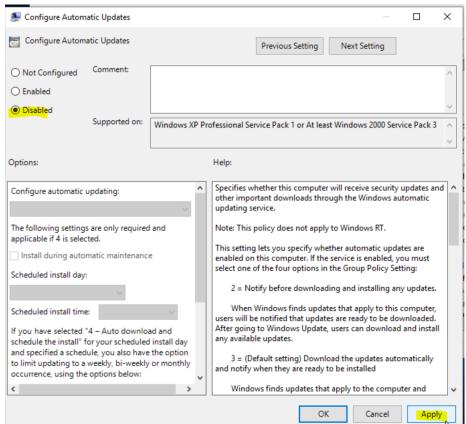


Navigate to computer configuration->Administrative Templates->Windows Components->Windows Update



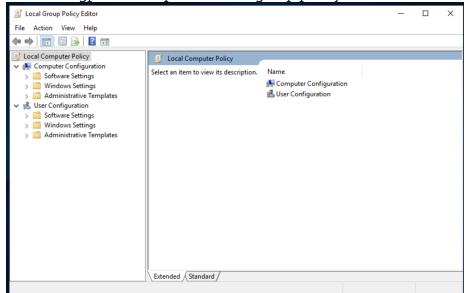
Double click Configure Automatic Updates and disable it.



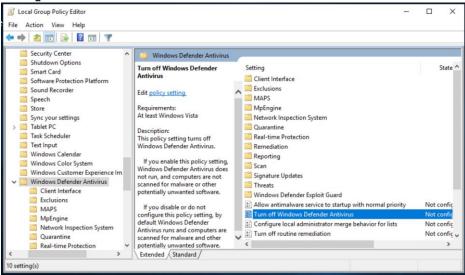


• Disable Tamper Protection and any Anti-Malware solution (e.g., Windows Defender), preferably via Group Policy.

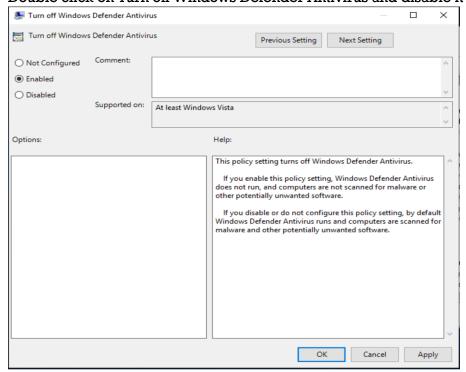
Search for gpedit and open the local group policy editor



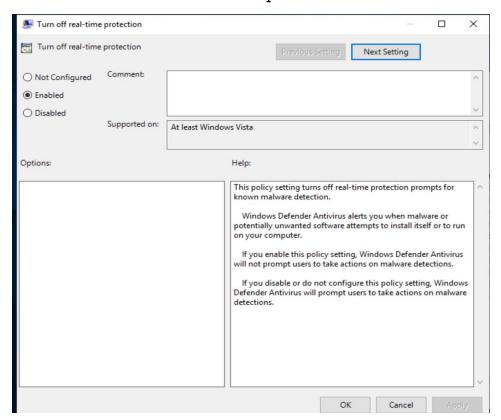
Navigate to computer configuration->Administrative Templates->Windows Components->Windows Defender Antivirus



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



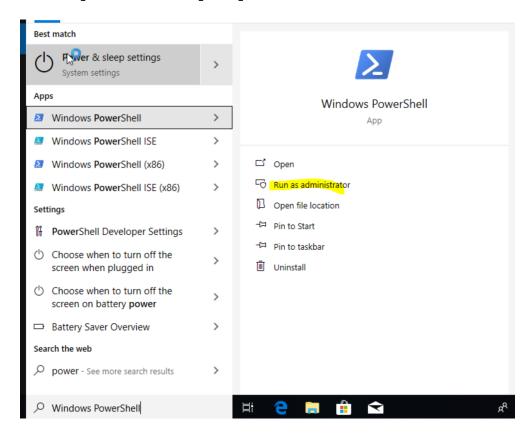
- > Navigate to computer configuration->Administrative Templates->Windows Components->Windows Defender Antivirus->Real-time Protection
- > Double click on Turn off real-time protection



- 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")

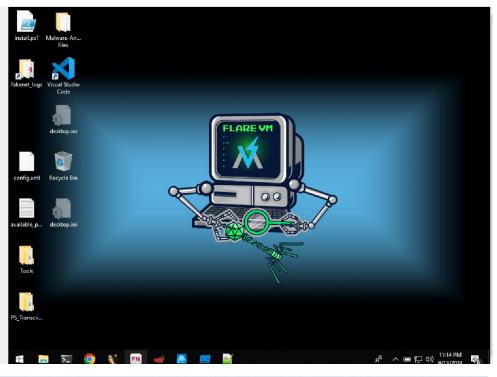
PS C:\Users\mare\Desktop> ____
```

- Unblock the installation script:
  - $\circ \quad \text{Unblock-File .} \\ \text{`install.psl'}$

- 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

