Microsoft Windows Defender and Firewall

By Ahmed Yusuf

Windows Defender Firewall

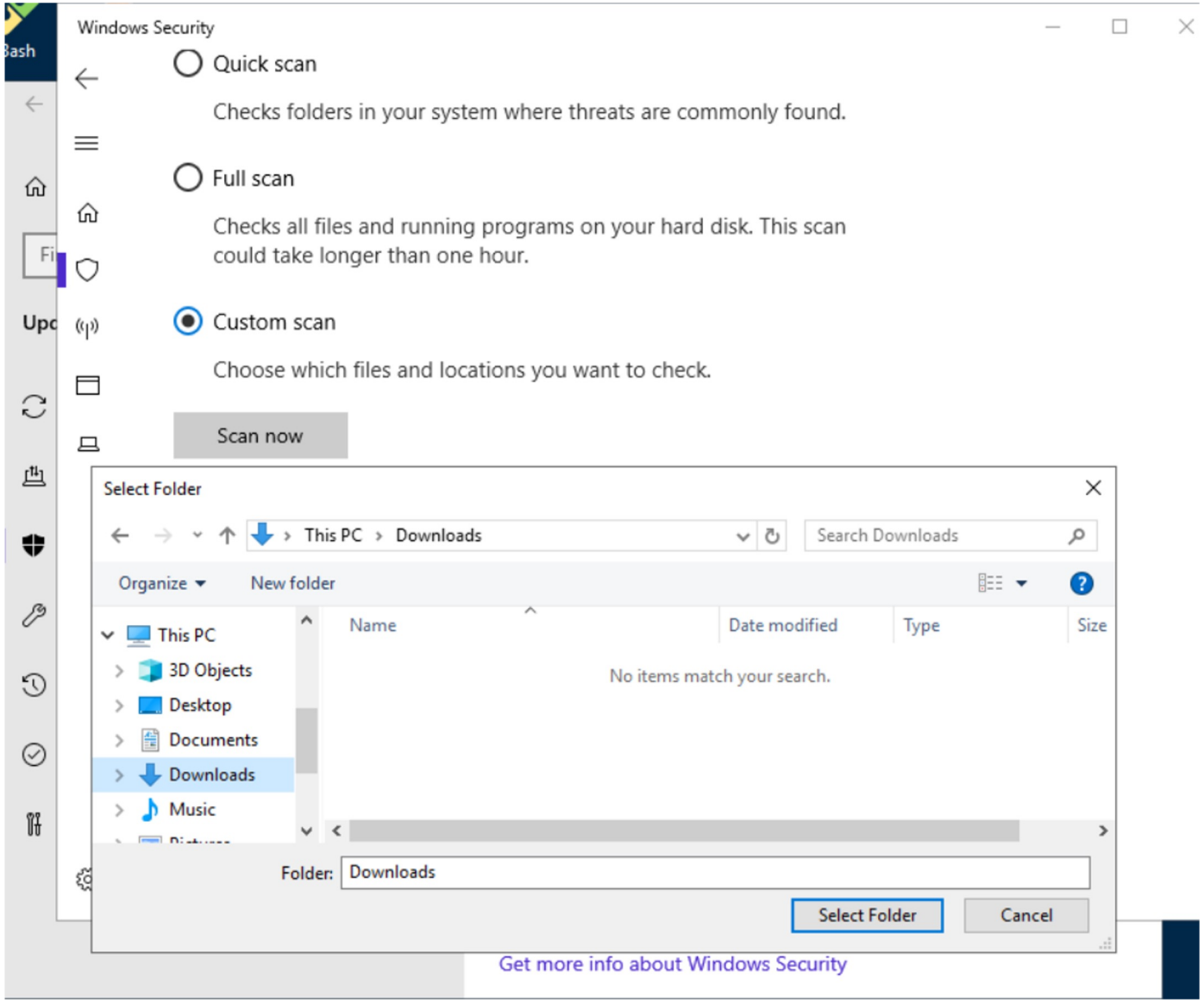
Objectives:

Configure Firewall Rules Using Windows Defender Firewall

Configure Firewall Rules Using Windows Defender Firewall with Advanced Security

Configure Firewall Rules Using Windows Defender Firewall

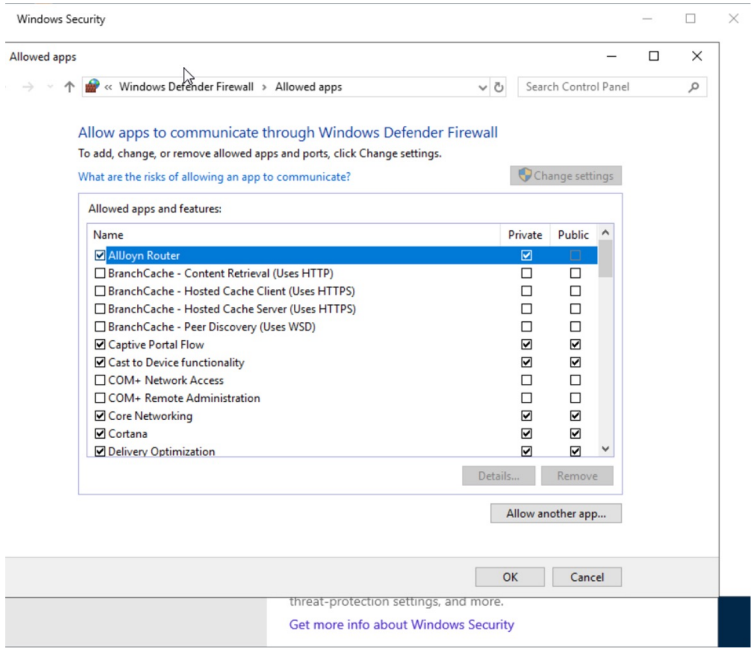
- **Domain networks** are workplace networks. A computer must be a part of the domain in order to communicate with other computers on that network.
- **Private networks** are discoverable networks, meaning that only devices on that network can see or discover other devices on that same network. Ex. Home network
- **Public networks** are non-discoverable networks. A non-discoverable network is a network where your device cannot be discovered by other devices on your network. Ex. Coffee shop

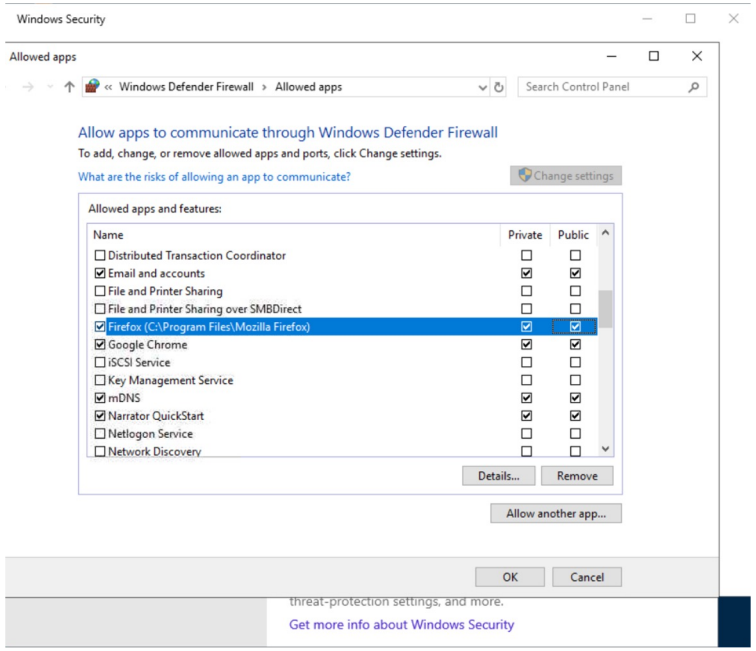


Configure Firewall Rules Using Windows Defender Firewall

Here on the “Allow an app through firewall” I can deny or allow public and private communication.

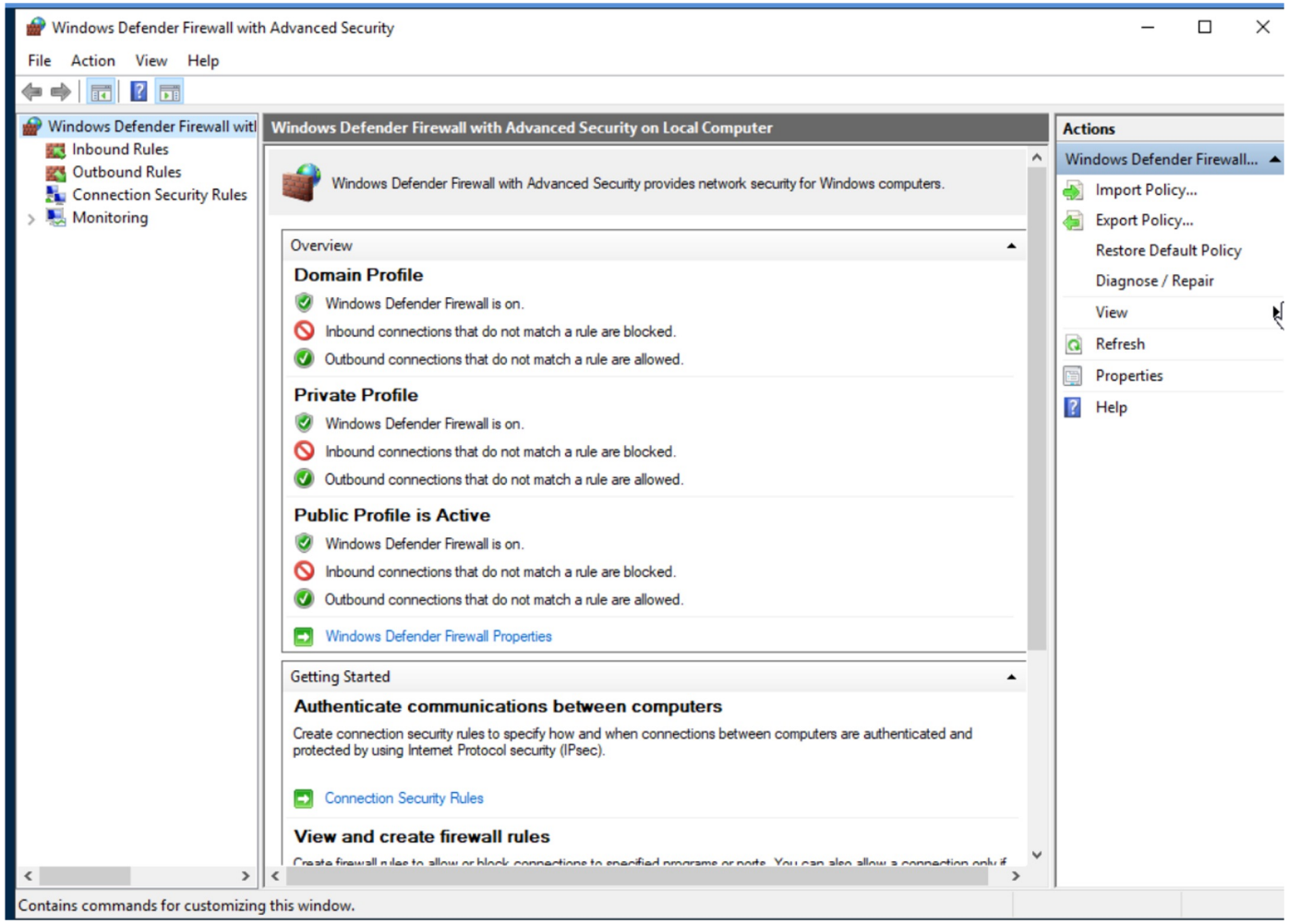
Example: I allowed communication on the public and private for Firfox app





Configure Firewall Rules using Windows Defender Firewall with Advanced Security

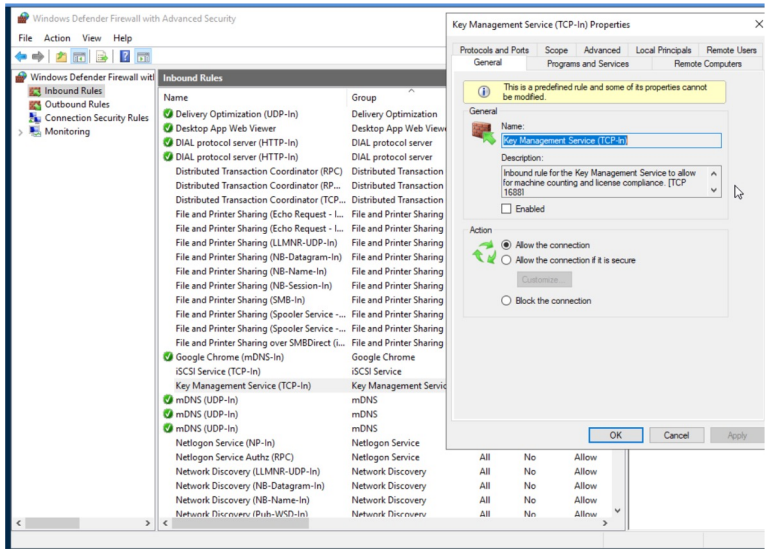
- Inbound rules determine what traffic is allowed to the computer.
- Outbound rules determine what traffic is allowed to leave the computer.

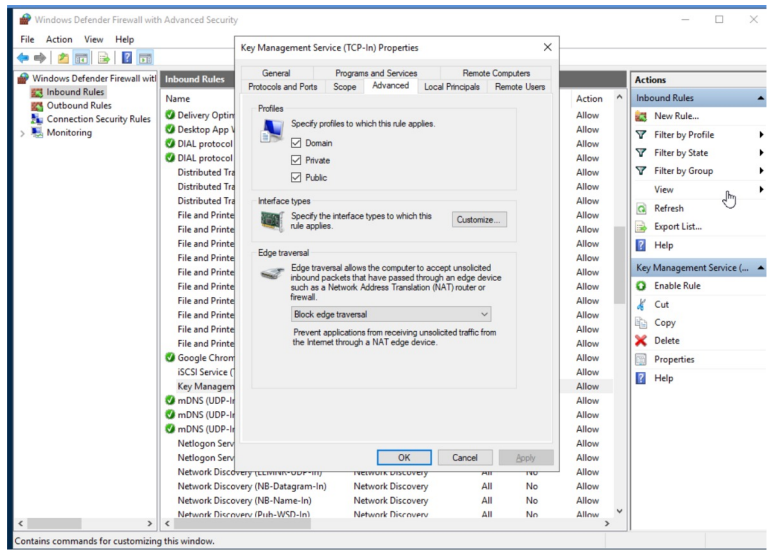


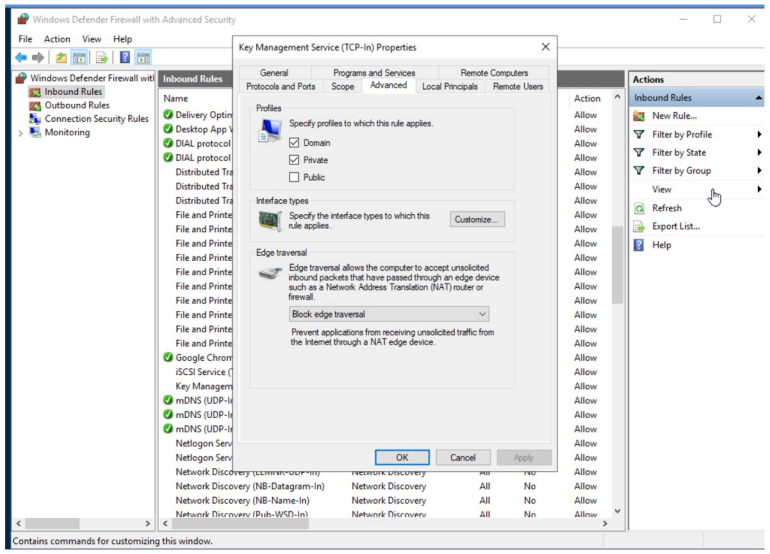
Configure Firewall Rules using Windows Defender Firewall with Advanced Security

1. Select Key Management Service.
2. Only allow communication on the domain and private networks.

Note: I can also allow or block the connection completely.







Windows Defender Antivirus

Objectives:

Review Windows Security Virus and threat protection.

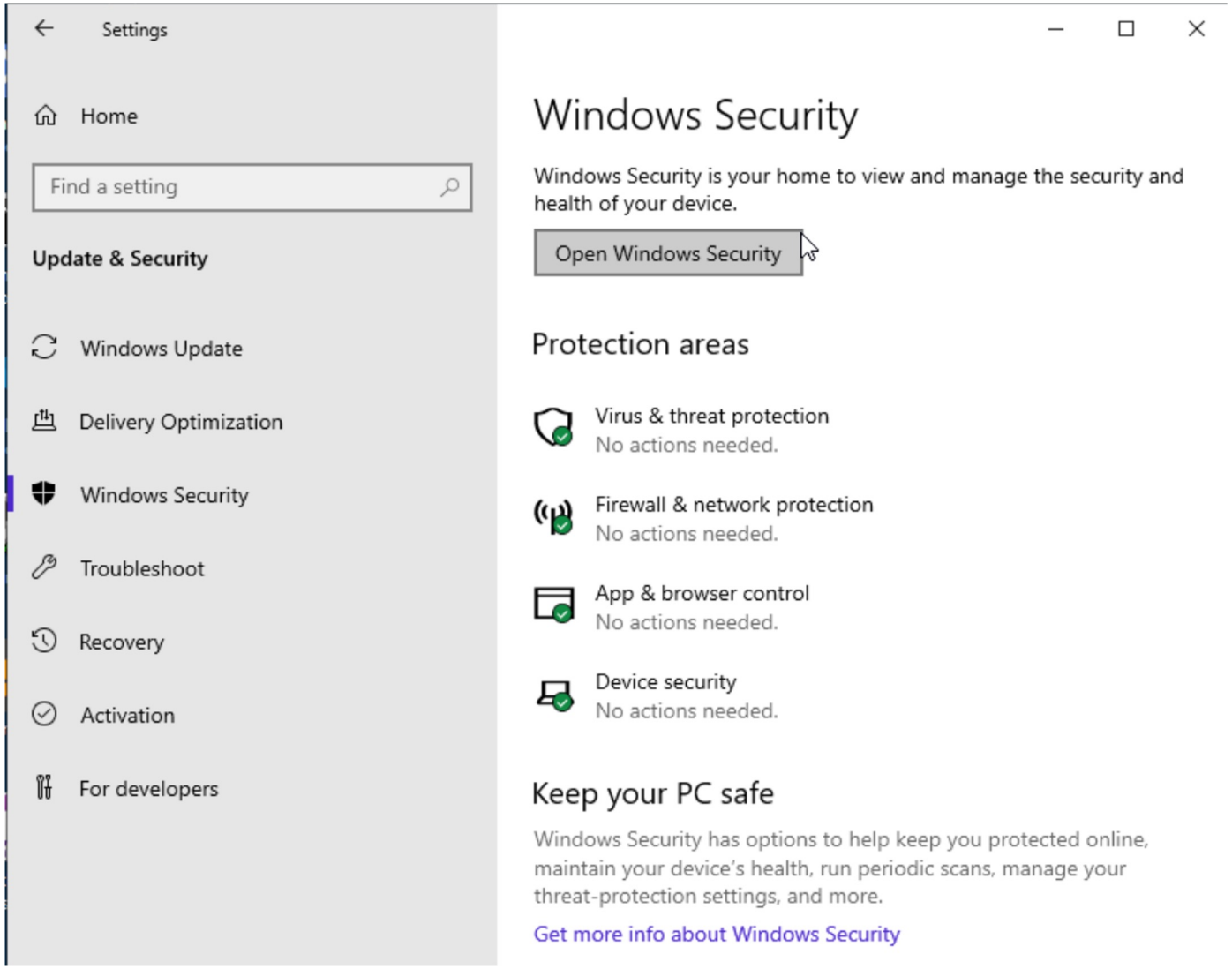
Update threat definitions.

Run Windows Defender Antivirus quick scan.

Review Windows Security Virus and threat protection.

To review Windows Security Virus and Threat Protection, I took these following steps:

1. Click on the Windows Start button.
2. Select "Settings" from the menu.
3. Choose "Update & Security" and then click on "Windows Security".
4. In the Windows Security window, select "Virus & Threat Protection".



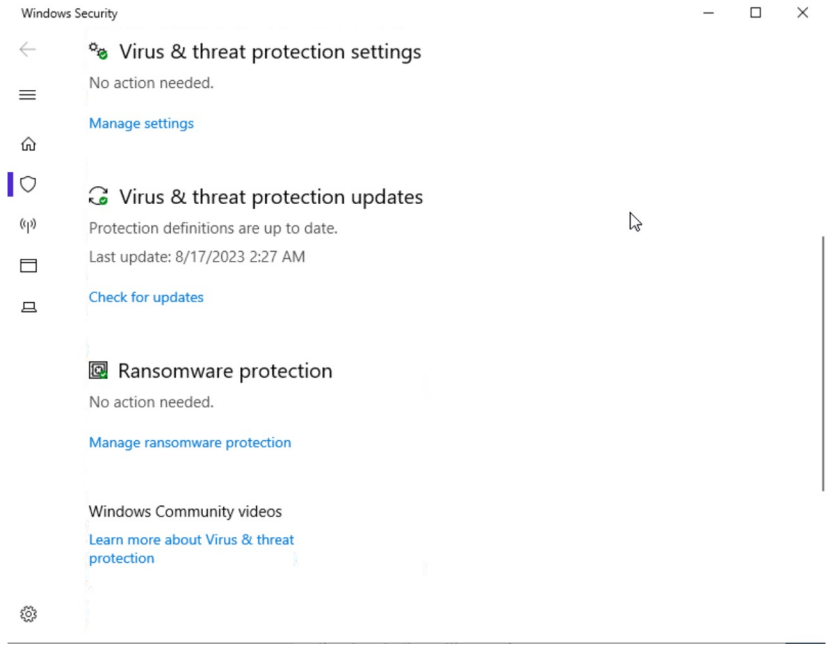
Within the Virus & Threat Protection section, I found the following options:

1. **Current Threats:** This section displays any threats that have been detected on your system.

2. **Protection Settings:** Customize the level of protection by adjusting various settings related to virus and threat protection.

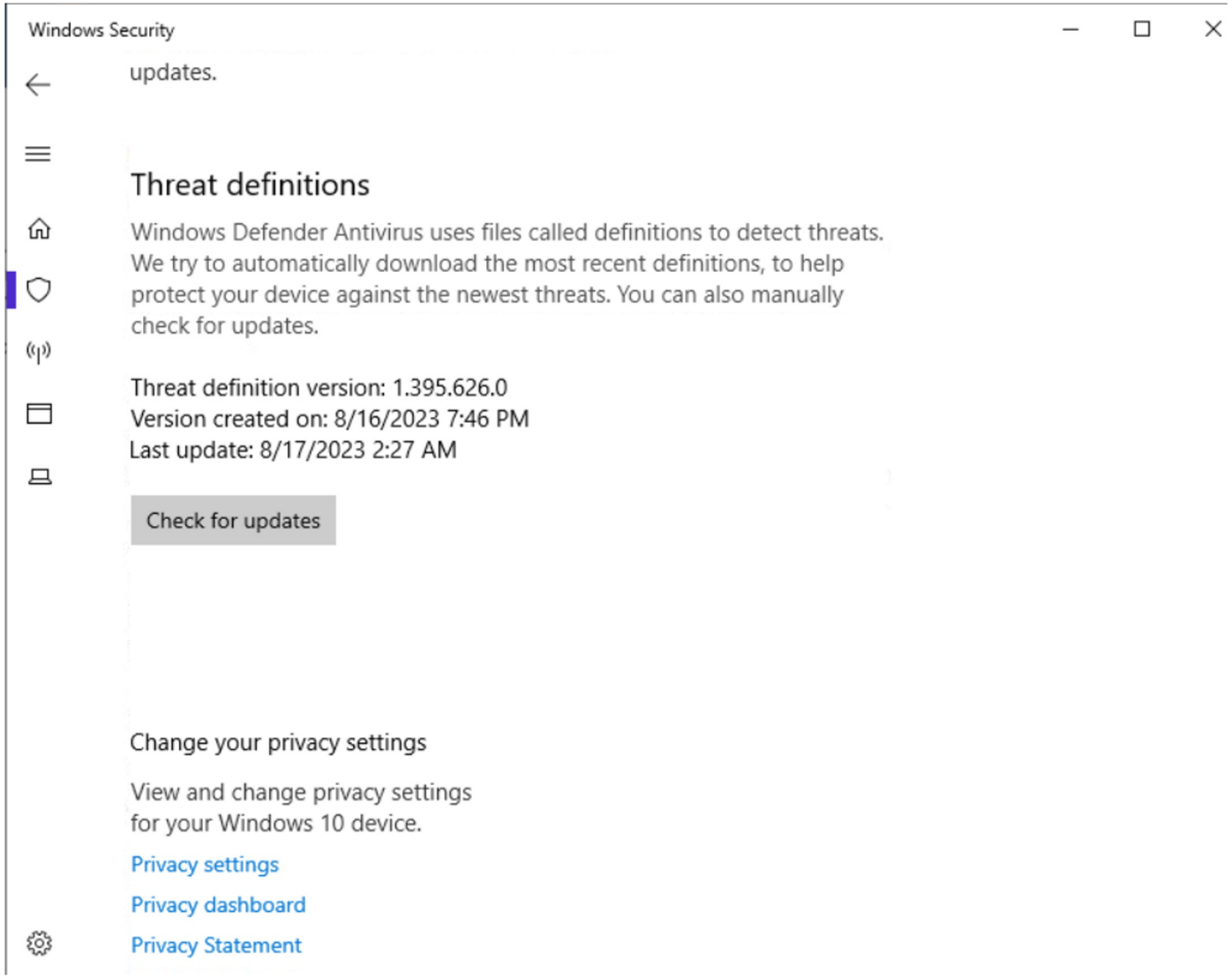
3. Update Definitions: Stay up-to-date with the latest virus definitions and updates by accessing this option.

4. **Ransomware Protection**: Enable or configure settings for protecting your system against ransomware attacks.

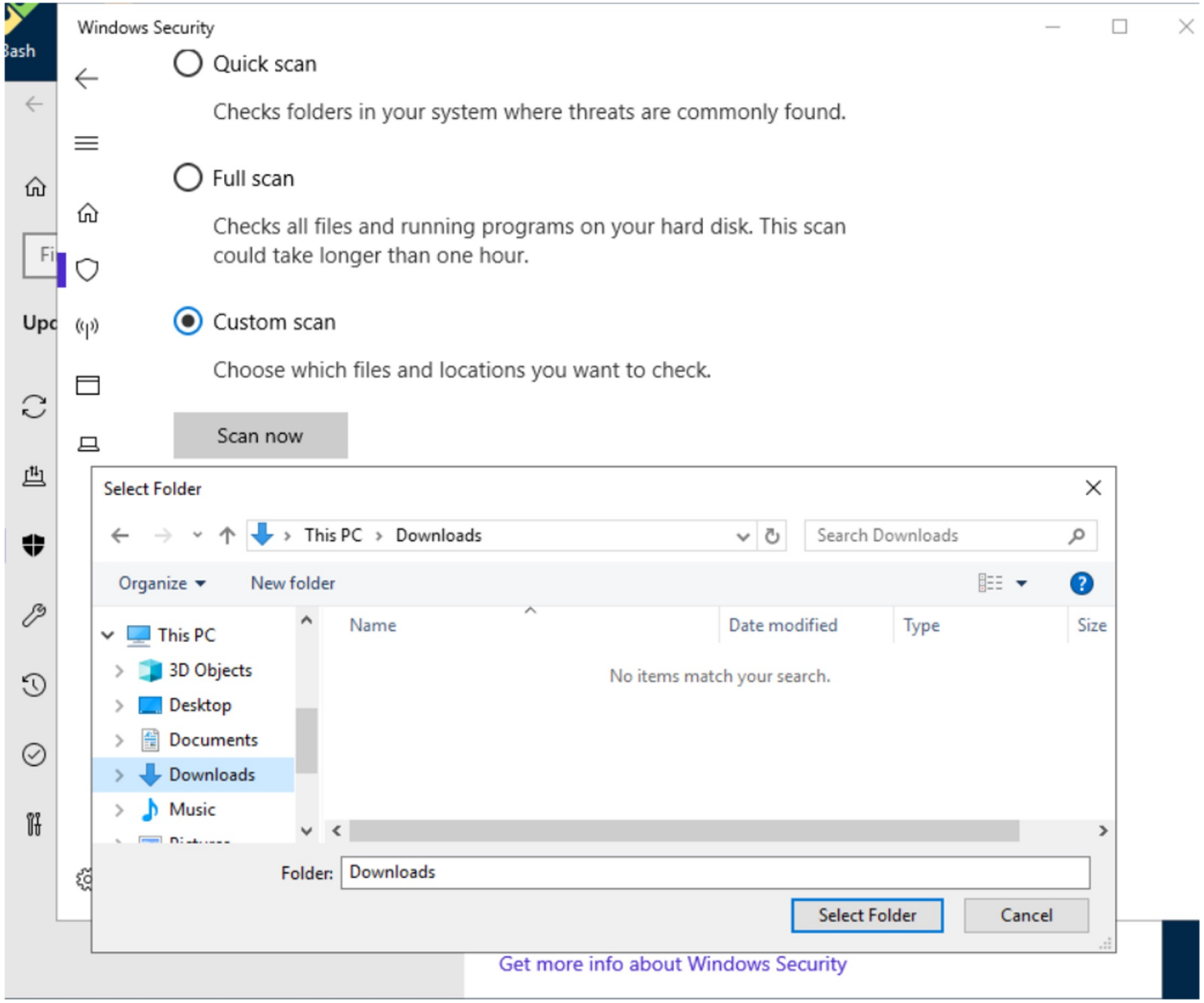


Update Threat Definitions

Here I can manually update threat definitions



Run a custom scan that only scans the files in the **Downloads** folder.



Summary

In this project, I successfully configured firewall rules using both Windows Defender Firewall and Windows Defender Firewall with Advanced Security.

Additionally, I was able to practice the usage of Windows Security Virus & Threat Protection as well as Windows Defender Antivirus.