

Windows Defender Firewall Project

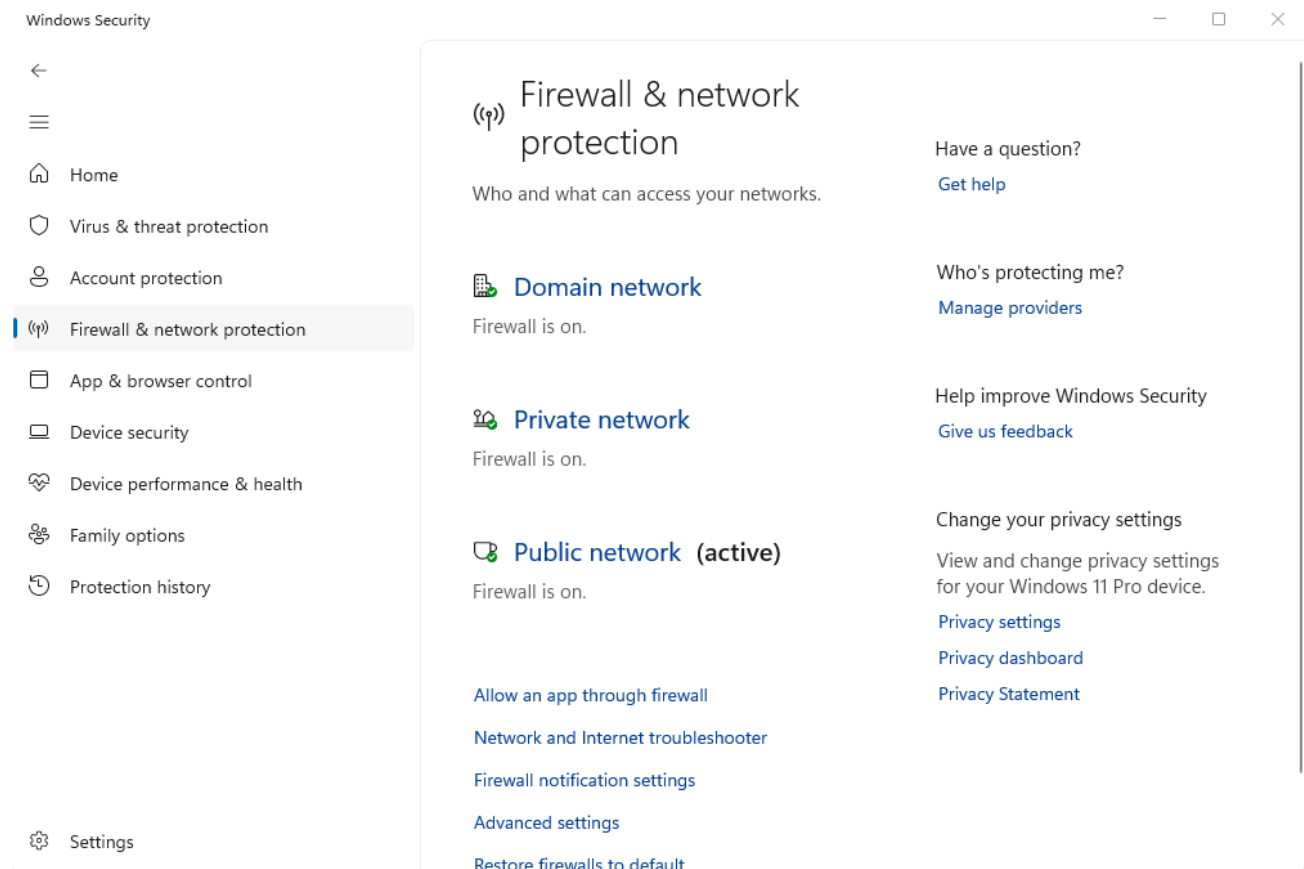
Scenario:

I configured a custom firewall rule that blocked access to my GitHub webpage from any device connected to my network using Windows Defender.

Firewall Configuration:

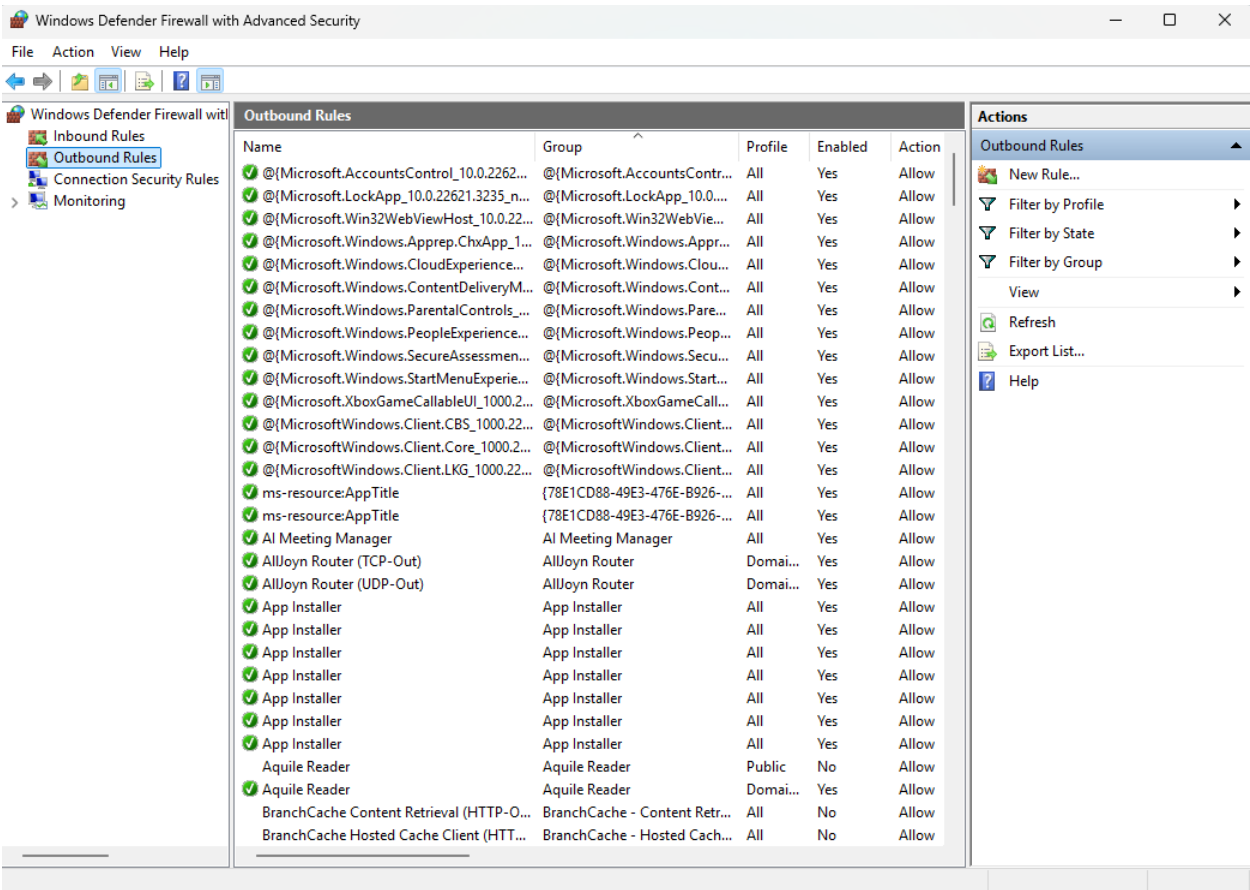
I opened Windows Security, selected 'Firewall & network protection', and then selected 'Advanced settings'.

Figure 1: Opening Windows Security and Navigating to Advanced Settings



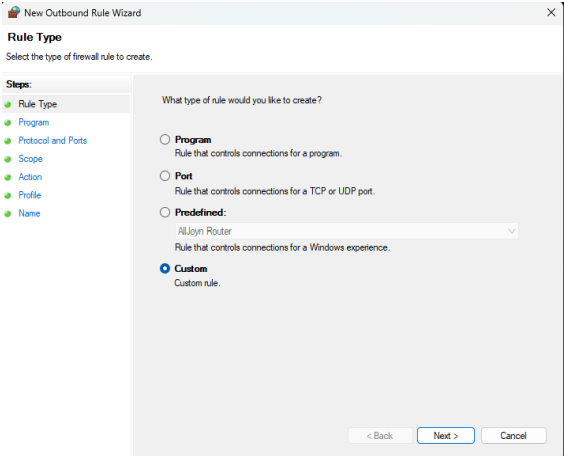
I selected ‘Outbound Rules’ and then selected ‘New Rule’.

Figure 2: Selecting Outbound Rules and Creating a New Rule



I selected the ‘Custom’ rule type, applying to ‘All programs’, ‘Any Protocol type’, and ‘All Ports’ (local and remote).

Figures 2-4: Rule Type, Program, Protocols and Ports Parameters



New Outbound Rule Wizard

Program
Specify the full program path and executable name of the program that this rule matches.

Steps:

Rule Type

Program

Protocol and Ports

Scope

Action

Profile

Name

Does this rule apply to all programs or a specific program?

☒ All programs

Rule applies to all connections on the computer that match other rule properties.

☐ This program path:

Browse...

Example: c:\path\program.exe
%ProgramFiles%\browser\browser.exe

Services

Specify which services this rule applies to.

Customize...

< Back

Next >

Cancel

New Outbound Rule Wizard

Protocol and Ports
Specify the protocols and ports to which this rule applies.

Steps:

Rule Type

Program

Protocol and Ports

Scope

Action

Profile

Name

To which ports and protocols does this rule apply?

Protocol type:

Any

Protocol number:

0

Local port:

All Ports

Example: 80, 443, 5000-5010

Remote port:

All Ports

Example: 80, 443, 5000-5010

Internet Control Message Protocol (ICMP) settings:

Customize...

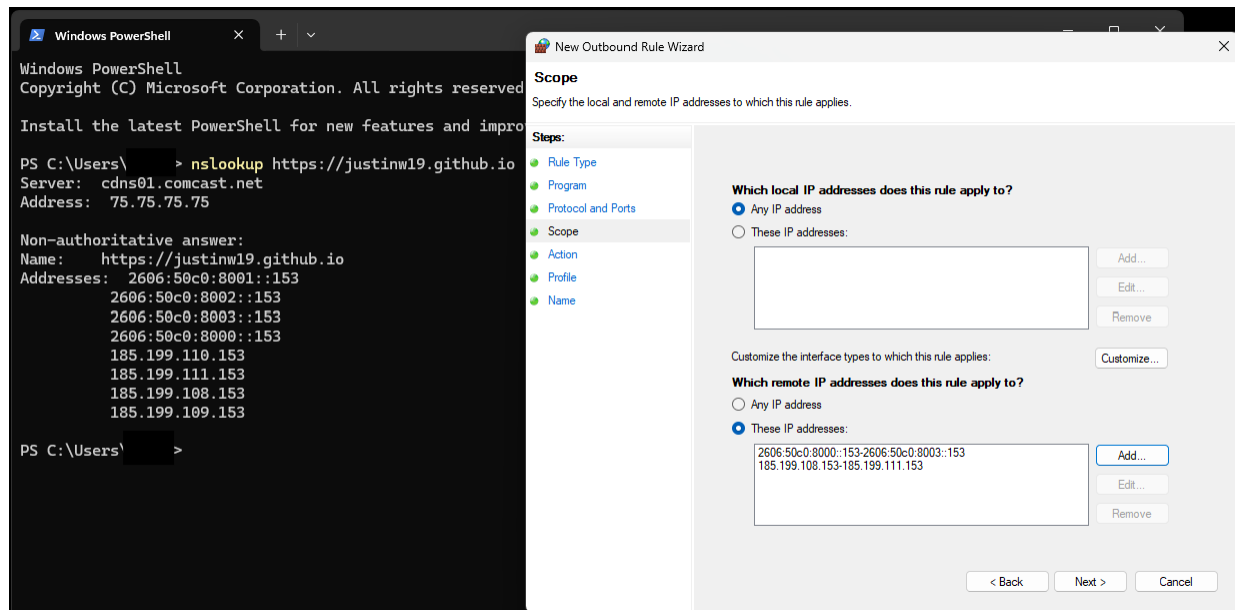
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Next >

Cancel

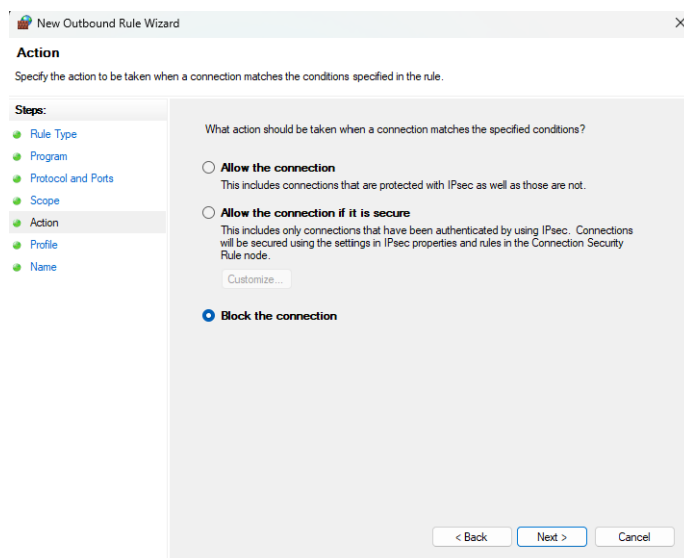
I performed a `nslookup` command on the domain name (`justinw19.github.io`) I wanted to block and input those ranges into the ‘Scope’ section of the firewall rule.

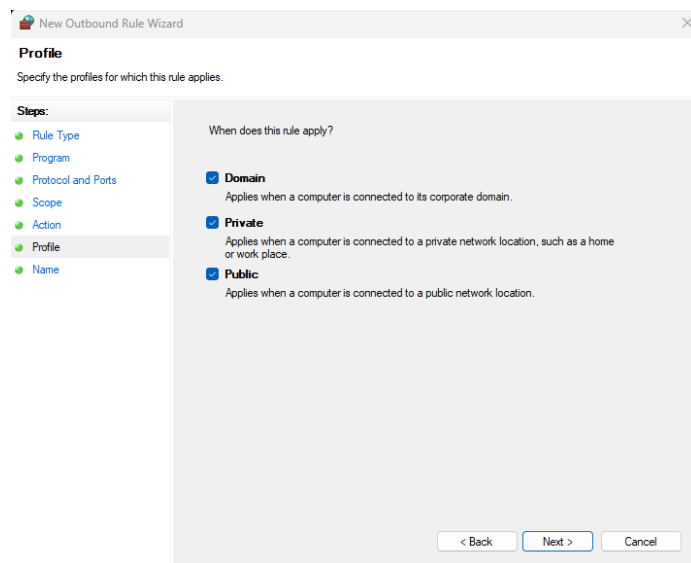
Figure 5: Finding IP Addresses and Writing Them into the Firewall Rule



I set the firewall rule to ‘Block the connection’ across all network types, and all ‘Network Profiles’ (Domain, Private, Public).

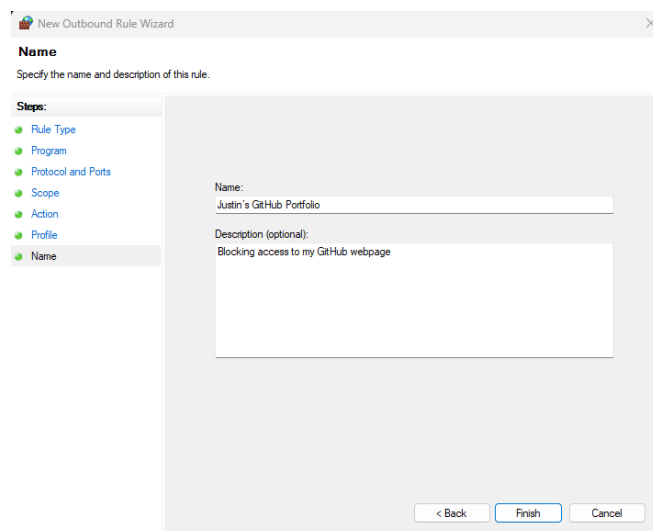
Figure 6-7: Setting Rule to Block Across All Network Profiles





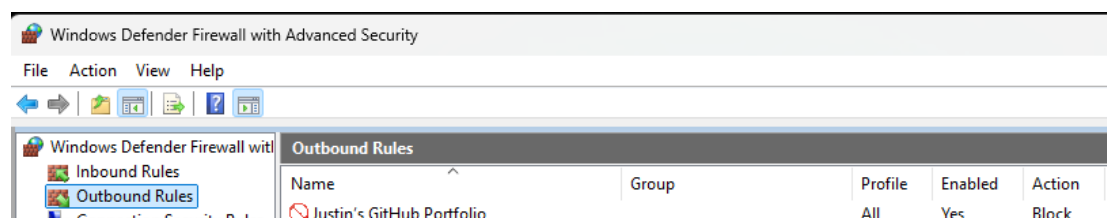
I named my firewall rule ‘Justin’s GitHub Portfolio’. I wrote a description of what the rule was accomplishing (blocking access to my GitHub webpage from any device connected to my network) and clicked ‘Finish’.

Figure 8: Naming and Completing Firewall Rule



I then checked the listing of ‘Outbound Rules’ and verified that the new rule was enabled

Figure 9: Rule Listed in Outbound Firewall Rules



Lastly, I attempted to access my GitHub webpage and could not due to the firewall rule.

Figure 10: justinw19.github.io Webpage is Successfully Blocked

