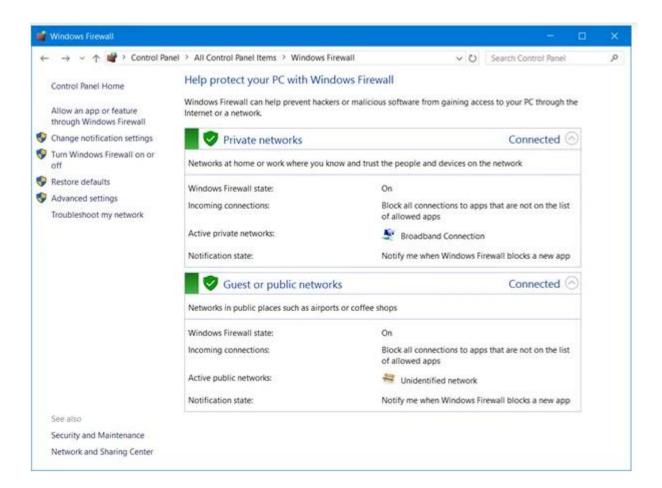
A firewall is a software or hardware that checks information coming from the Internet or a network, and then either blocks it or allows it to pass through to your computer, depending on your firewall settings. A firewall can help prevent hackers or malicious software from gaining access to your Windows computer through a network or the Internet. A firewall can also help stop your computer from sending malicious software to other computers.

Configure Windows Firewall

You can customize most settings of your Windows Firewall through the left pane of the Firewall applet in Control Panel.



1. Turn on Windows Firewall

This setting is selected by default. When Windows Firewall is On, most programs are blocked from communicating through the firewall. Clicking on the **Turn**

Firewall On or Off will let you enable or disable the Windows Firewall on your computer.

2. Block all incoming firewall connections, including those in the list of allowed programs

This setting blocks all unsolicited attempts to connect to your computer. Use this setting when you need maximum protection for your computer, such as when you connect to a public network in a hotel or airport, or when a computer worm is spreading over the Internet. With this setting, you are not notified when Windows Firewall blocks programs, and programs in the list of allowed programs are ignored. When you block all incoming connections, you can still view most web pages, send and receive an e-mail, and send and receive instant messages.

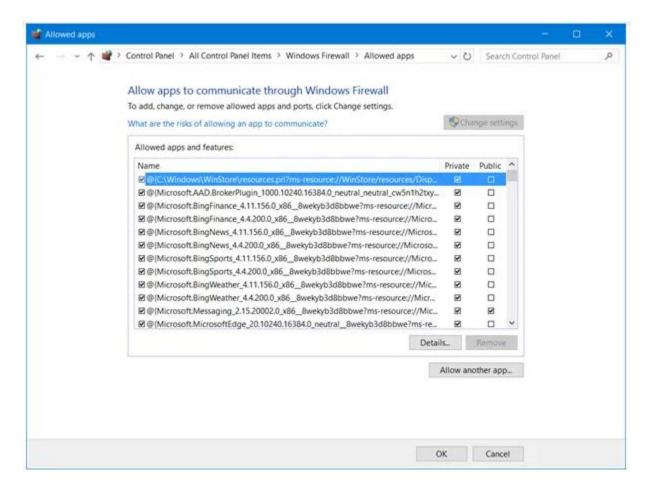
3. Turn off Windows Firewall

Avoid using this setting unless you have another firewall running on your computer. Turning off Windows Firewall might make your computer more vulnerable to damage from hackers and malicious software. Clicking on the **Turn Firewall On or Off** will let you enable or disable the Windows Firewall on your computer.

4. Block or Allow Programs through the Windows Firewall

By default, most programs are blocked by Windows Firewall to help make your computer more secure. To work properly, some programs might require you to allow them to communicate through the firewall. Here's how to do that:

Click **Allow an app or feature through Windows Firewall**. If you are prompted for an administrator password or confirmation, type the password or provide confirmation.



Select the check box next to the program you want to allow, select the network location types you want to allow communication on, and then click OK.

If you want to allow a program to communicate through the firewall, you can add it to the list of allowed programs. For example, you might not be able to send photos in an instant message until you add the instant messaging program to the list of allowed programs. To add or remove a program to the list, click on the **Allow an app or feature through Windows Firewall** link to open the following panel, where you will be able to get more details about allowed programs and allow another app to communicate through the firewall.

We can also add program to this list by clicking allow another app button.



Here we have to browse to the executable of our program and then click the Add button. Notice that we can also choose location types on which this program will be allowed to communicate by clicking on the "Network location types" button.



Click to open Windows Firewall. In the left pane, click **Advanced settings**.



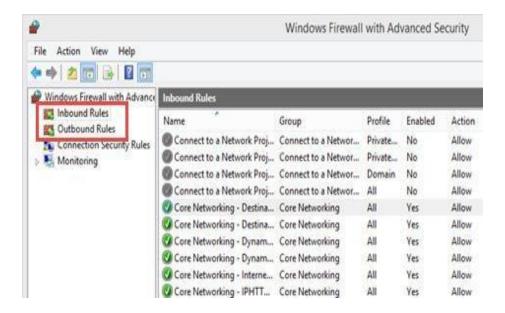
What Are The Inbound & Outbound Rules?

In order to provide the security you need, the Windows Firewall has a standard set of inbound and outbound rules, which are enabled depending on the location of the network you are connected to.

Inbound rules are applied to the traffic that is coming from the network and the Internet to your computer or device. Outbound rules apply to the traffic from your computer to the network or the Internet.

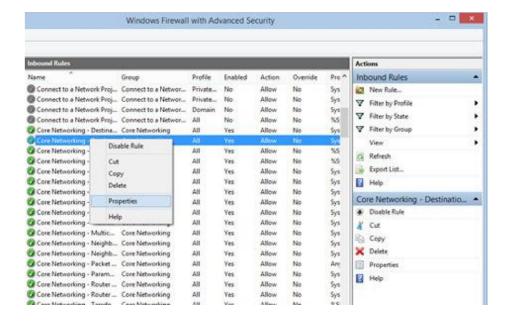
These rules can be configured so that they are specific to: computers, users, programs, services, ports or protocols. You can also specify to which type of network adapter (e.g. wireless, cable, virtual private network) or user profile it is applied to.

In the Windows Firewall with Advanced Security, you can access all rules and edit their properties. All you have to do is click or tap the appropriate unit in the left-side panel.

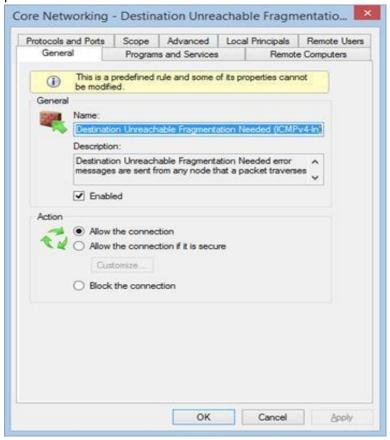


The rules used by the Windows Firewall can be enabled or disabled. The ones which are enabled or active are marked with a green check-box in the Name column. The ones that are disabled are marked with a gray check-box.

If you want to know more about a specific rule and learn its properties, right click on it and select Properties or select it and press Properties in the column on right, which lists the actions that are available for your selection.



In the Properties window, you will find complete information about the selected rule, what it does and in when it is applied. You will also be able to edit its properties and change any of the available parameters.



What Are The Connection Security Rules?

Connection security rules are used to secure traffic between two computers while it crosses the network. One example would be a rule which defines that connections between two specific computers must be encrypted.

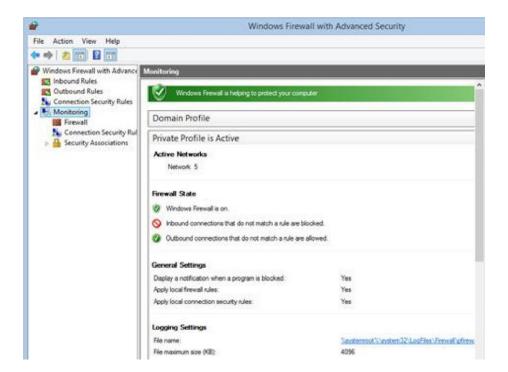
Unlike the inbound or outbound rules, which are applied only to one computer, connection security rules require that both computers have the same rules defined and enabled.

If you want to see if there are any such rules on your computer, click or tap "Connection Security Rules" on the panel on the left. By default, there are no such rules defined on Windows computers and devices. They are generally used in business environments and such rules are set by the network administrator.



2.1.3.4 What Does the Windows Firewall with Advanced Security Monitor?

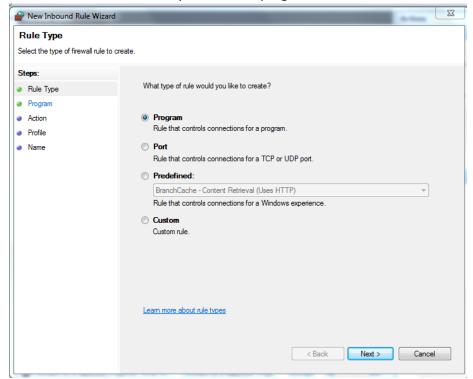
The Windows Firewall with Advanced Security includes some monitoring features as well. In the Monitoring section you can find the following information: the firewall rules that are active (both inbound and outbound), the connection security rules that are active and whether there are any active security associations.



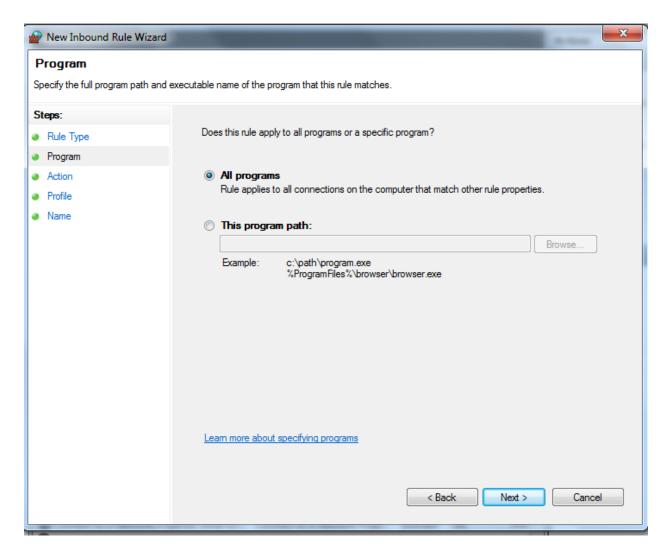
You should note that the Monitoring section shows only the active rules for the current network location.

Create inbound rule: rules for incoming traffic

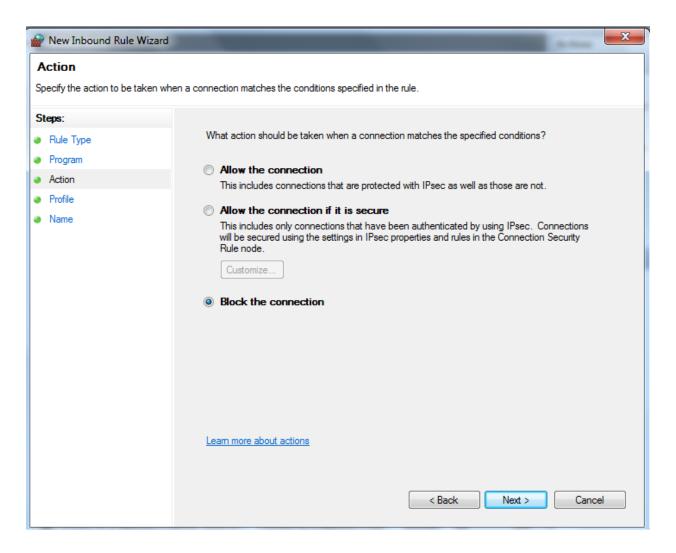
Block ICMP – block ping command
Create inbound rule in one system. Select program and click next.



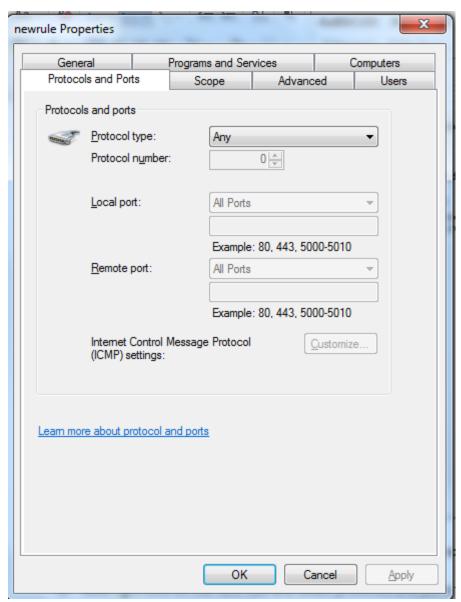
2. Now select all program and click next



3. Now select block connection and click next



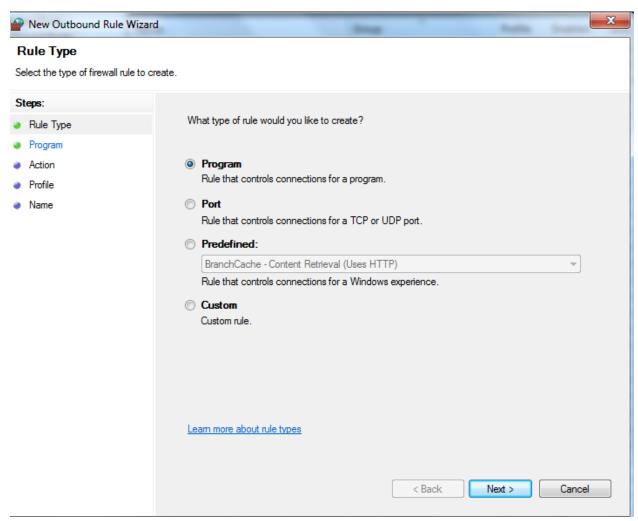
- 4. Now select all domain, private and public network and click next.
- 5. Set the name of the rule and click finish.
- 6. Now right click on the new rule and select protocols and ports tab.



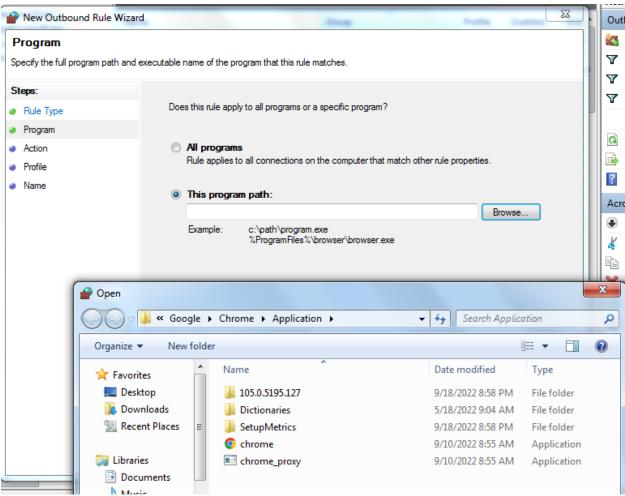
- 7. Select protocol type ICMP4, apply and click ok.
- 8. Now for checking send ping to this computer from another computer.
- 9. It will show request time out.

Create outbound rule: stop users from using internet

1. Create new outbound rule, select program and click next.



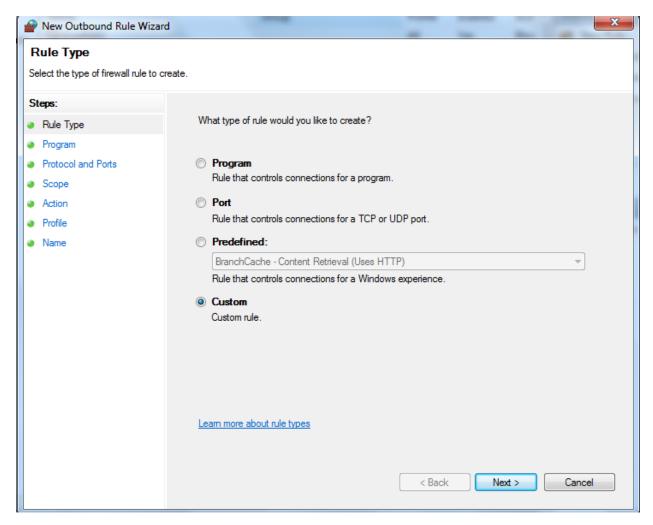
2. Now here select program path and select .exe file of chrome and click next.



- 3. Now in next screen select block connection.
- 4. Then in next screen select domain, private and public network.
- 5. Then set name of rule and click finish.
- 6. Now open chrome and search any website.
- 7. Internet will work due to this new outbound rule.

3. Block particular domain or website

- 1. Create new outbound rule
- 2. select custom rule, click next.



- 3. select all programs click next.
- 4. select protocol any click next.
- 5. enter remote ip address

For that open command prompt and type nslookup www.facebook.con

- 6. enter both addresses and click next
- 7. select all network and click next
- 8. enter rule name and click finish.
- 9. now try to open www.facebook.com into browser it will not opened.