#Setup and Use a Firewall on Windows

**1. Open Windows Defender Firewall**

1. Click Start (Windows icon).
2. Type "Windows Defender Firewall" and hit Enter.

**2. Turn Windows Firewall On or Off**

1. In the left pane, click “Turn Windows Defender Firewall on or off.”
2. Under both Private and Public network settings, ensure:
   * Turn on Windows Defender Firewall is selected.
3. Click OK.

**3. Allow or Block an App Through Firewall**

1. In the left pane, click “Allow an app or feature through Windows Defender Firewall.”
2. Click Change settings (top right).
3. Click Allow another app if your app isn’t listed.
4. Browse and select the app > Click Add.
5. Check/Uncheck Private or Public network checkboxes.
6. Click OK.

**4. Block a Program or Port Manually**

**To Block a Program:**

1. Go to Advanced Settings (left pane).
2. In Windows Defender Firewall with Advanced Security, click Outbound Rules.
3. Click New Rule (right panel).
4. Choose Program > Next.
5. Select This program path and browse to the program’s .exe file.
6. Click Next, then select Block the connection > Next.
7. Choose when to apply (Domain, Private, Public) > Next.
8. Name your rule > Finish.

**To Block a Port:**

1. Click Inbound Rules or Outbound Rules.
2. Click New Rule > Choose Port > Next.
3. Choose TCP or UDP.
4. Enter port number(s) (e.g., 80 for HTTP).
5. Click Next > Select Block the connection > Next.
6. Choose network types > Next.
7. Name the rule > Finish.

**5. Test Your Firewall Settings**

* Try accessing the blocked app or port.
* Use the command ping [hostname/IP] to test network blocking.
* Use a port scanner tool or online service to test port rules.

**6. Reset Firewall to Default (Optional)**

If you mess up the settings:

1. In Windows Defender Firewall, click “Restore defaults” (left).
2. Click Restore defaults again and confirm.

# Image for the setup the windows firewalls







