# Task - 4 : Setup and Use a Firewall on Windows

# 1. Open Windows Firewall Configuration Tool

- a. Press Win + R, type wf.msc, and hit Enter.
- b. This opens Windows Defender Firewall with Advanced Security.

#### 2. List of Current Firewall Rules

a. Inbound Rules:

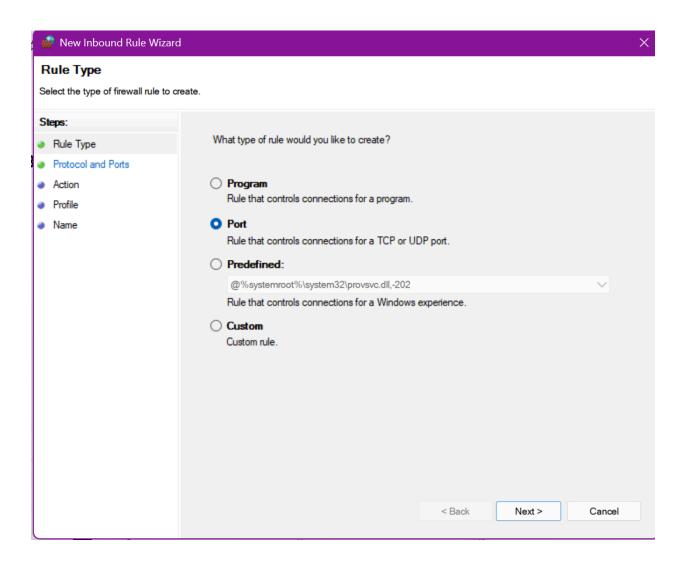
Name	Group	Profile	Enabled	Action	Override	Program	Local Address
🗸 Apache HTTP Server	•	Private	Yes	Allow	No	C:\xampp	Any
Apache HTTP Server		Private	Yes	Allow	No	C:\xampp	Any
Apache NetBeans IDE Launcher		Public	Yes	Allow	No	C:\progra	Any
		Private	Yes	Allow	No	C:\progra	Any
Apache NetBeans IDE Launcher		Public	Yes	Allow	No	C:\progra	Any
Apache NetBeans IDE Launcher		Private	Yes	Allow	No	C:\progra	Any
📝 Java(TM) Platform SE binary		Public	Yes	Allow	No	C:\progra	Any
📝 Java(TM) Platform SE binary		Public	Yes	Allow	No	C:\progra	Any
📝 Java(TM) Platform SE binary		Private	Yes	Allow	No	C:\progra	Any
📝 Java(TM) Platform SE binary		Private	Yes	Allow	No	C:\progra	Any
Microsoft Office Outlook		Public	Yes	Allow	No	C:\Progra	Any
📝 mysqld		Private	Yes	Allow	No	C:\xampp	Any
📝 mysqld		Private	Yes	Allow	No	C:\xampp	Any
(Microsoft.AAD.BrokerPlugin_1000.19041	@{Microsoft.AAD.BrokerPlugi	Domai	Yes	Allow	No	Any	Any
@{Microsoft.Win32WebViewHost_10.0.190	@{Microsoft.Win32WebView	All	Yes	Allow	No	Any	Any
@{Microsoft.Windows.CloudExperienceHo	@{Microsoft.Windows.Cloud	Domai	Yes	Allow	No	Any	Any
@{Microsoft.Windows.Search_1.14.17.1904	@{Microsoft.Windows.Search	Domai	Yes	Allow	No	Any	Any
@{Microsoft.Windows.SecHealthUI_10.0.19	@{Microsoft.Windows.SecHe	Domai	Yes	Allow	No	Any	Any
@{Microsoft.Windows.StartMenuExperien	@{Microsoft.Windows.Start	Domai	Yes	Allow	No	Any	Any
@{MicrosoftWindows.Client.CBS_1000.190	@{MicrosoftWindows.Client	Domai	Yes	Allow	No	Any	Any
@{MicrosoftWindows.LKG.DesktopSpotlig	$@\{MicrosoftWindows.LKG.De\\$	Domai	Yes	Allow	No	Any	Any
Microsoft Teams	{78E1CD88-49E3-476E-B926	All	Yes	Allow	No	C:\Progra	Any
Microsoft Teams	{78E1CD88-49E3-476E-B926	All	Yes	Allow	No	C:\Progra	Any
📝 AllJoyn Router (TCP-In)	AllJoyn Router	Domai	Yes	Allow	No	%System	Any
📝 AllJoyn Router (UDP-In)	AllJoyn Router	Domai	Yes	Allow	No	%System	Any
📝 App Installer	App Installer	Domai	Yes	Allow	No	Any	Any
🗖 Ann Installer	Ann Installer	Domai	Vac	ΔΙΙων	No	Δην	Δην

### b. Outbound Rules:

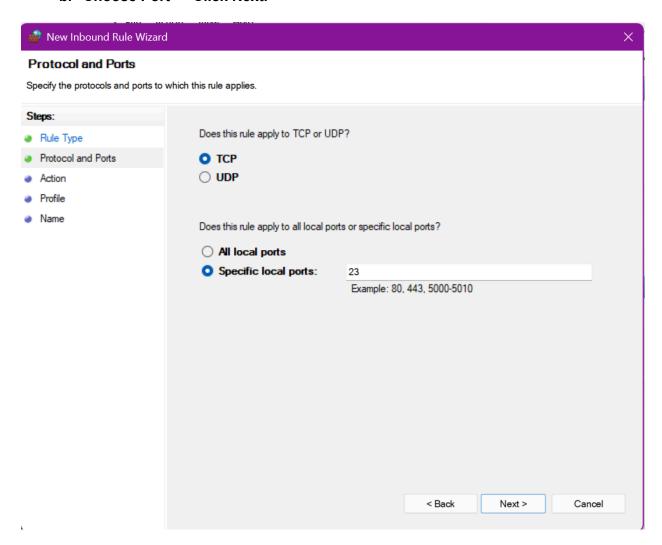
Outbound Rules							
Name	Group	Profile	Enabled	Action	Override	Program	Local Address
📝 @{Microsoft.AAD.BrokerPlugin_1000.19041	@{Microsoft.AAD.BrokerPlugi	All	Yes	Allow	No	Any	Any
@{Microsoft.AccountsControl_10.0.19041.4	$@\{Microsoft.AccountsContro\\$	All	Yes	Allow	No	Any	Any
@{Microsoft.LockApp_10.0.19041.4239_neu	@{Microsoft.LockApp_10.0.19	All	Yes	Allow	No	Any	Any
@{Microsoft.Win32WebViewHost_10.0.190	@{Microsoft.Win32WebView	All	Yes	Allow	No	Any	Any
@{Microsoft.Windows.Apprep.ChxApp_10	@{Microsoft.Windows.Appre	All	Yes	Allow	No	Any	Any
@{Microsoft.Windows.CloudExperienceHo	@{Microsoft.Windows.Cloud	All	Yes	Allow	No	Any	Any
@{Microsoft.Windows.ContentDeliveryMa	@{Microsoft.Windows.Conte	All	Yes	Allow	No	Any	Any
🛂 @{Microsoft.Windows.OOBENetworkCapti	@{Microsoft.Windows.OOBE	All	Yes	Allow	No	Any	Any
@{Microsoft.Windows.ParentalControls_1	@{Microsoft.Windows.Parent	All	Yes	Allow	No	Any	Any
@{Microsoft.Windows.PeopleExperienceH	@{Microsoft.Windows.Peopl	All	Yes	Allow	No	Any	Any
@{Microsoft.Windows.Search_1.14.17.1904	@{Microsoft.Windows.Search	All	Yes	Allow	No	Any	Any
@{Microsoft.Windows.SecHealthUI_10.0.19	@{Microsoft.Windows.SecHe	All	Yes	Allow	No	Any	Any
@{Microsoft.Windows.SecureAssessmentB	@{Microsoft.Windows.Secure	All	Yes	Allow	No	Any	Any
@{Microsoft.Windows.ShellExperienceHos	@{Microsoft.Windows.ShellE	All	Yes	Allow	No	Any	Any
@{Microsoft.Windows.StartMenuExperien	@{Microsoft.Windows.Start	All	Yes	Allow	No	Any	Any
@{Microsoft.XboxGameCallableUI_1000.19	$@\{Microsoft.XboxGameCalla\\$	All	Yes	Allow	No	Any	Any
@{MicrosoftWindows.Client.CBS_1000.190	@{MicrosoftWindows.Client	All	Yes	Allow	No	Any	Any
@{MicrosoftWindows.LKG.AccountsService	@{MicrosoftWindows.LKG.Ac	All	Yes	Allow	No	Any	Any
@{MicrosoftWindows.LKG.DesktopSpotlig	@{MicrosoftWindows.LKG.De	All	Yes	Allow	No	Any	Any
@{MicrosoftWindows.LKG.IrisService_1000	@{MicrosoftWindows.LKG.lris	All	Yes	Allow	No	Any	Any
@{MicrosoftWindows.LKG.RulesEngine_10	@{MicrosoftWindows.LKG.Ru	All	Yes	Allow	No	Any	Any
@{MicrosoftWindows.LKG.SpeechRuntime	@{MicrosoftWindows.LKG.Sp	All	Yes	Allow	No	Any	Any
🔰 3D Viewer	3D Viewer	All	Yes	Allow	No	Any	Any
🔰 AllJoyn Router (TCP-Out)	AllJoyn Router	Domai	Yes	Allow	No	%System	Any
🔰 AllJoyn Router (UDP-Out)	AllJoyn Router	Domai	Yes	Allow	No	%System	Any
🔰 App Installer	App Installer	All	Yes	Allow	No	Any	Any
Δ Ann Installer	Ann Installer	ΔΙΙ	Vac	ΔΙΙΟΜ	No	Δην	Δην

## 3. Add a Rule to Block Inbound Traffic on Port 23 (Telnet)

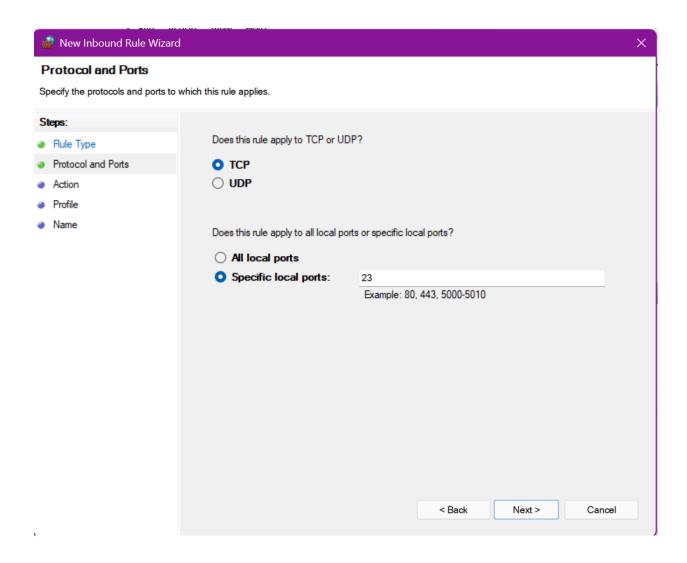
a. Go to Inbound Rules > New Rule (right panel).



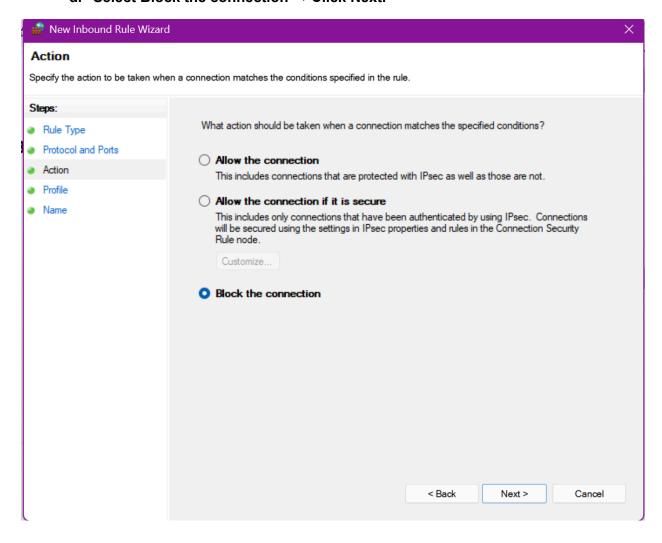
### b. Choose Port $\rightarrow$ Click Next.



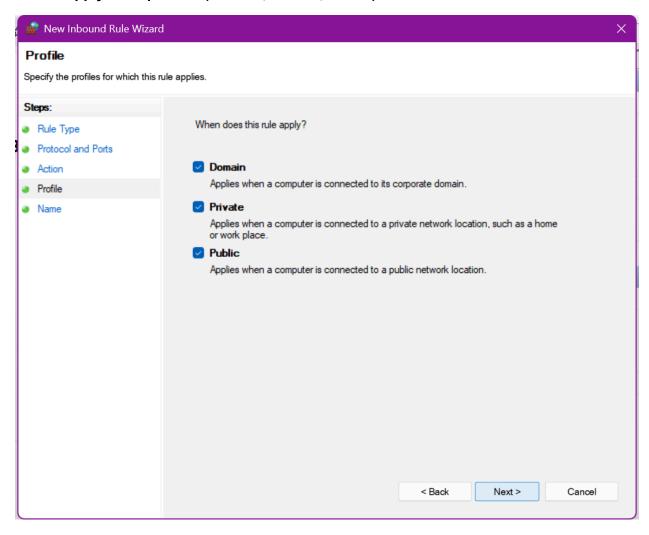
### c. Select TCP and enter $23 \rightarrow Click Next$ .



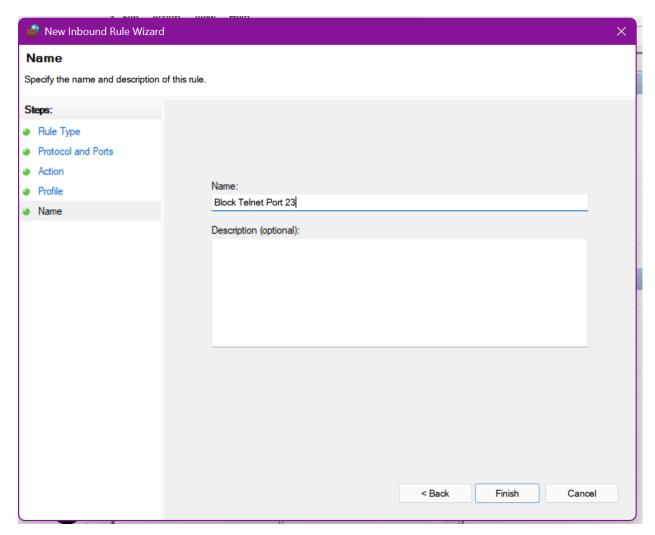
#### d. Select Block the connection → Click Next.



e. Apply to all profiles (Domain, Private, Public)  $\rightarrow$  Click Next.



#### f. Name it: Block Telnet Port 23 → Click Finish.



#### 4. Test the Rule

C:\Users\admin>telnet localhost 23

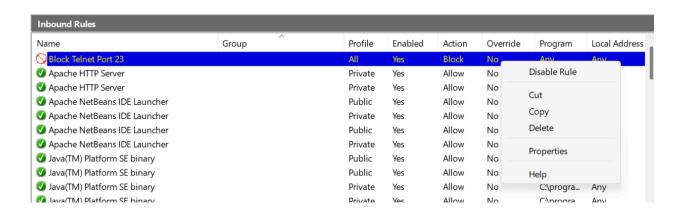
Connecting To localhost...Could not open connection to the host, on port 23: Connect failed

#### 5. Remove the Test Rule

a. Go to Inbound Rules.



## b. Right-click on Block Telnet Port 23 $\rightarrow$ Click Delete.



#### c. Confirm.