Objective: Configure and test basic firewall rules to allow or block traffic.

Step1: Open the windows defender firewall manager and exported the rules into a csv file as screenshot is not allowed in the firewall manger

Step2: screenshot of some of the rules applied.

A A	U C	U			0			,			IVI	14	
@{Microsoft.DesktopAppInstaller_1.17.10691.0_x648wekyb3d8bbwe?ms-resoult		Private	Yes	Allow	No	Any							
32 @{Microsoft.Messaging_4.1901.40451.0_x648wekyb3d8bbwe?ms-resource://N		Yes	Allow	No	Any	Any	Any	Any	Any	Any	Any	Any	Any
@{Microsoft.OneConnect_5.2204.1031.0_x648wekyb3d8bbwe?ms-resource://	@{Microsc Domain	Private	Yes	Allow	No	Any							
34 @{Microsoft.SecHealthUI_1000.22621.1.0_x648wekyb3d8bbwe?ms-resource://pii/secHealthUI_1000.22621.1.0_x648wekyb3d8bbweybs-resource://pii/secHealthUI_1000.22621.1.0_x648wekyb3d8bbweybs-resource://pii/secHealthUI_1000.22621.1.0_x648wekyb3d8bbw	@{Microsc Domain	Private	Yes	Allow	No	Any							
35 @{Microsoft.Todos_0.54.42772.0_x648wekyb3d8bbwe?ms-resource://Microso	@{Microsc Domain	Private	Yes	Allow	No	Any							
36 @{Microsoft.Win32WebViewHost_10.0.22621.1_neutral_neutral_cw5n1h2txyewy	@{Microsc All	Yes	Allow	No	Any	Any	Any	Any	Any	Any	Any	Any	Any
37 @{Microsoft.Win32WebViewHost_10.0.22621.1_neutral_neutral_cw5n1h2txyewy	@{Microsc All	Yes	Allow	No	Any	Any	Any	Any	Any	Any	Any	Any	Any
@{Microsoft.Windows.CloudExperienceHost_10.0.22621.1_neutral_neutral_cw5r	@{Microsc Domain	Private	Yes	Allow	No	Any							
39 @{Microsoft.Windows.CloudExperienceHost_10.0.22621.2506_neutral_neutral_c	@{Microsc Domain	Private	Yes	Allow	No	Any							
40 @{Microsoft.Windows.Photos_21.21030.25003.0_x648wekyb3d8bbwe?ms-res	@{Microsc All	Yes	Allow	No	Any	Any	Any	Any	Any	Any	Any	Any	Any
41 @{Microsoft.Windows.StartMenuExperienceHost_10.0.22621.1_neutral_neutral_	@{Microsc Domain	Private	Yes	Allow	No	Any							
42 @{Microsoft.Windows.StartMenuExperienceHost_10.0.22621.4249_neutral_neut	@{Microsc Domain	Private	Yes	Allow	No	Any							
43 @{microsoft.windowscommunicationsapps_16005.14326.20544.0_x648wekyb3	@{microsc All	Yes	Allow	No	Any	Any	Any	Any	Any	Any	Any	Any	Any
44 @{Microsoft.XboxGamingOverlay_2.622.3232.0_x648wekyb3d8bbwe?ms-reso	@{Microsc All	Yes	Allow	No	Any	Any	Any	Any	Any	Any	Any	Any	Any
45 @{Microsoft.ZuneMusic_11.2202.46.0_x648wekyb3d8bbwe?ms-resource://Mic	@{Microsc Domain	Private	Yes	Allow	No	Any							
46 @{Microsoft.ZuneVideo_10.22020.10021.0_x648wekyb3d8bbwe?ms-resource	@{Microsc Domain	Private	Yes	Allow	No	Any							
47 @{MicrosoftWindows.Client.CBS_1000.22636.1000.0_x64cw5n1h2txyewy?ms	@{Microsc Domain	Private	Yes	Allow	No	Any							
48 @{MicrosoftWindows.Client.CBS_1000.22700.1081.0_x64cw5n1h2txyewy?ms	@{Microsc Domain	Private	Yes	Allow	No	Any							
49 @{MicrosoftWindows.LKG.DesktopSpotlight_1000.22621.5331.0_x64cw5n1h2	@{Microsc Domain	Private	Yes	Allow	No	Any							
50 Microsoft Teams	{78E1CD8 All	Yes	Allow	No	C:\Prograi	Any	Any	TCP	Any	Any	Any	Any	Any
51 Microsoft Teams	{78E1CD8 All	Yes	Allow	No	C:\Program	Any	Any	UDP	Any	Any	Any	Any	Any
52 Microsoft Teams	{78E1CD8 All	Yes	Allow	No	C:\Prograi	Any	Any	TCP	Any	Any	Any	Any	Any
58 Microsoft Teams	{78E1CD8 All	Yes	Allow	No	C:\Program	Any	Any	UDP	Any	Any	Any	Any	Any
54 Microsoft Teams (personal)	{78E1CD8 All	Yes	Allow	No	C:\Prograi	Any	Any	TCP	Any	Any	Any	Any	Any
55 Microsoft Teams (personal)	{78E1CD8 All	Yes	Allow	No	C:\Program	Any	Any	UDP	Any	Any	Any	Any	Any
56 Microsoft Teams (personal)	{78E1CD8 All	Yes	Allow	No	C:\Progra	Any	Any	TCP	Any	Any	Any	Any	Any
57 Microsoft Teams (personal)	{78E1CD8 All	Yes	Allow	No	C:\Program	Any	Any	UDP	Any	Any	Any	Any	Any
58 Minecraft Education	{78E1CD8 All	Yes	Allow	No	C:\Prograi	Any	Any	UDP	Any	Any	Any	Any	Any
59 Minecraft Education_	(78F1CD8 All	Yes	Allow	No	C:\Progra	Anv	Anv	TCP	Anv	Any	Any	Any	Any V

Step 3: checked the connection of port using telnet

C:\Windows\System32>telnet localhost 902

Output: 220 VMware Authentication Daemon Version 1.10: SSL Required, ServerDaemonProtocol:SOAP, MKSDisplayProtocol:VNC , , NFCSSL supported/t,

Step4: added the rule

In windows defender firewall -> inbound rules -> new rule -> select port -> select TCP and mention the port -> block the connection -> choose the types of networks -> give it a name and click finish

step5: checked the connection locally which denied the connection to the port that the rule was added

C:\Windows\System32>telnet localhost 902

Output: Connecting To localhost...Could not open connection to the host, on port 902: Connect failed

step 6: deleting the rule has restored the connection to the port

How firewall filters traffic?

A firewall filters traffic by comparing each connection or packet against a set of security rules. It blocks or allows communication based on IP, port, protocol, application, and direction, protecting your system from unauthorized access and attacks.