

Configuring the Windows Defender Firewall (3e)

Network Security, Firewalls, and VPNs, Third Edition - Lab 04

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Time on Task:

2 hours, 54 minutes

Progress:

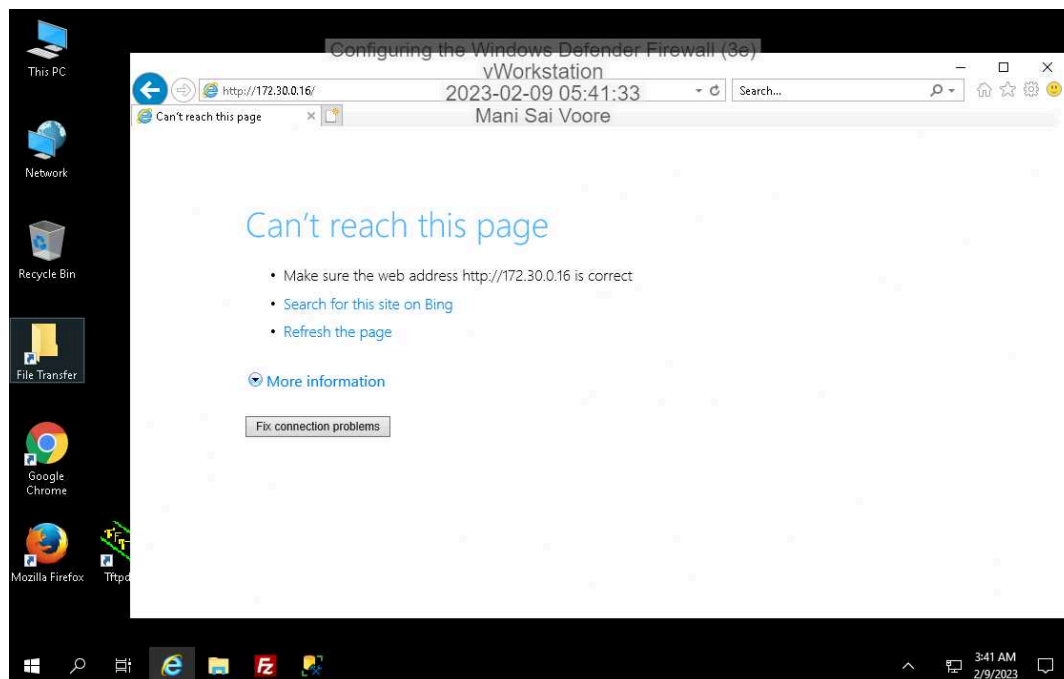
100%

Report Generated: Thursday, February 9, 2023 at 10:49 AM

Section 1: Hands-On Demonstration

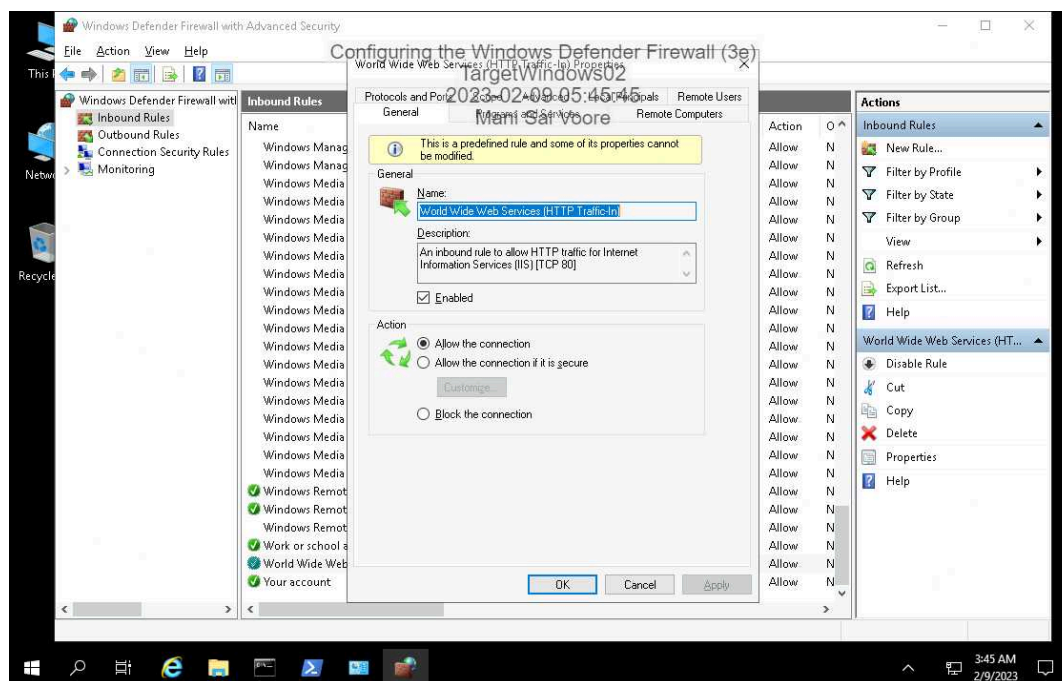
Part 1: Test Access to a Windows IIS Server Using a Web Browser

3. Make a screen capture showing the connection error message in the browser window.



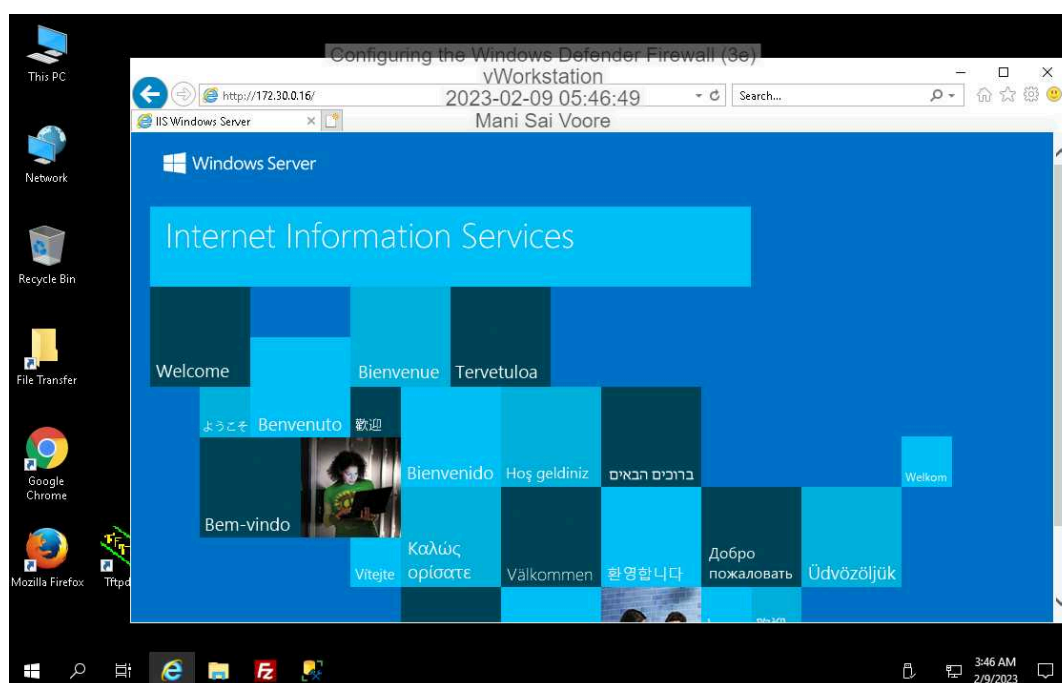
Part 2: Enable a Windows Defender Firewall Rule to Allow HTTP Access

12. Make a screen capture showing the **World Wide Web Services (HTTP Traffic-In)** Properties dialog box and the **Enabled** checkbox.



Part 3: Confirm the Windows Defender Firewall Configuration Allows HTTP

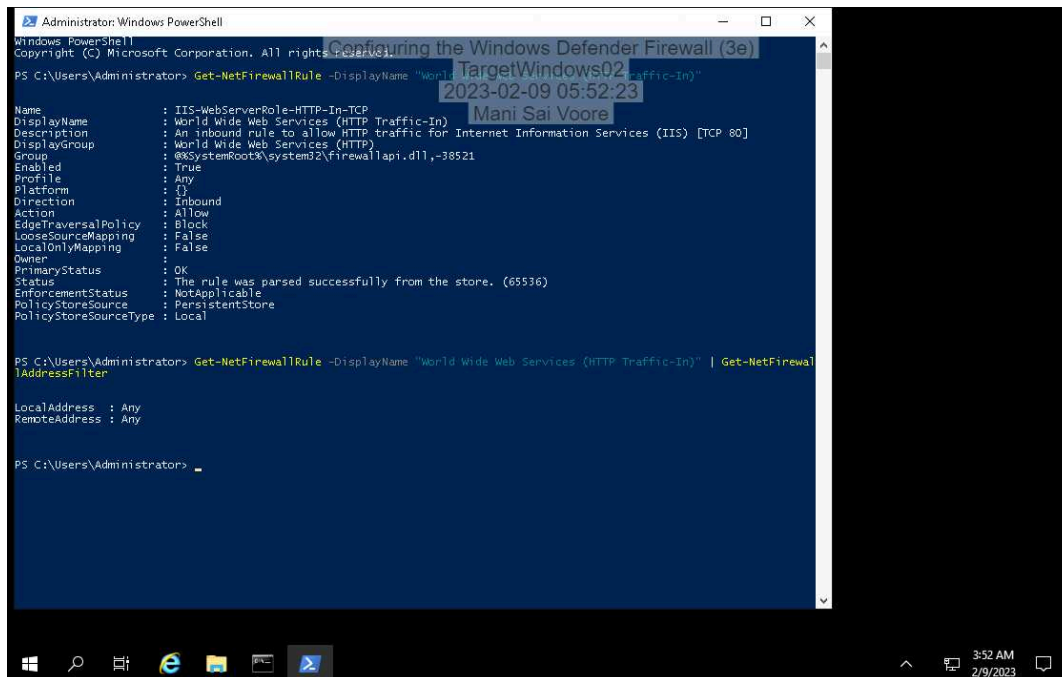
4. Make a screen capture showing the IIS server home page in the browser window.



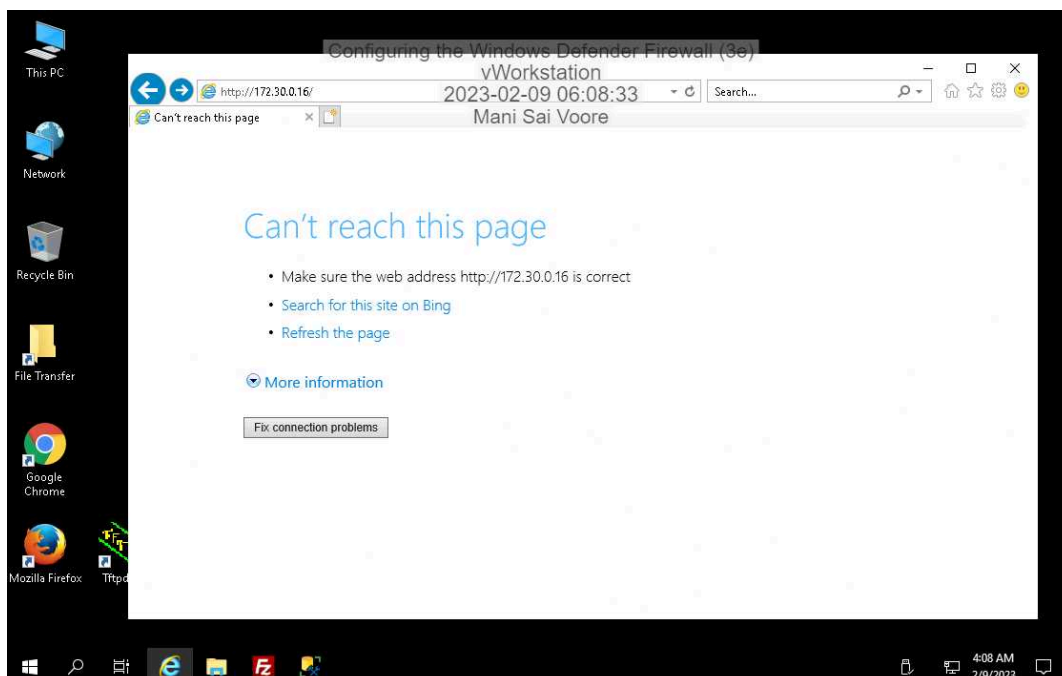
Section 2: Applied Learning

Part 1: Test Access to Windows IIS Server Using PowerShell

6. Make a screen capture showing the results of the **Get-NetFirewallRule** commands.

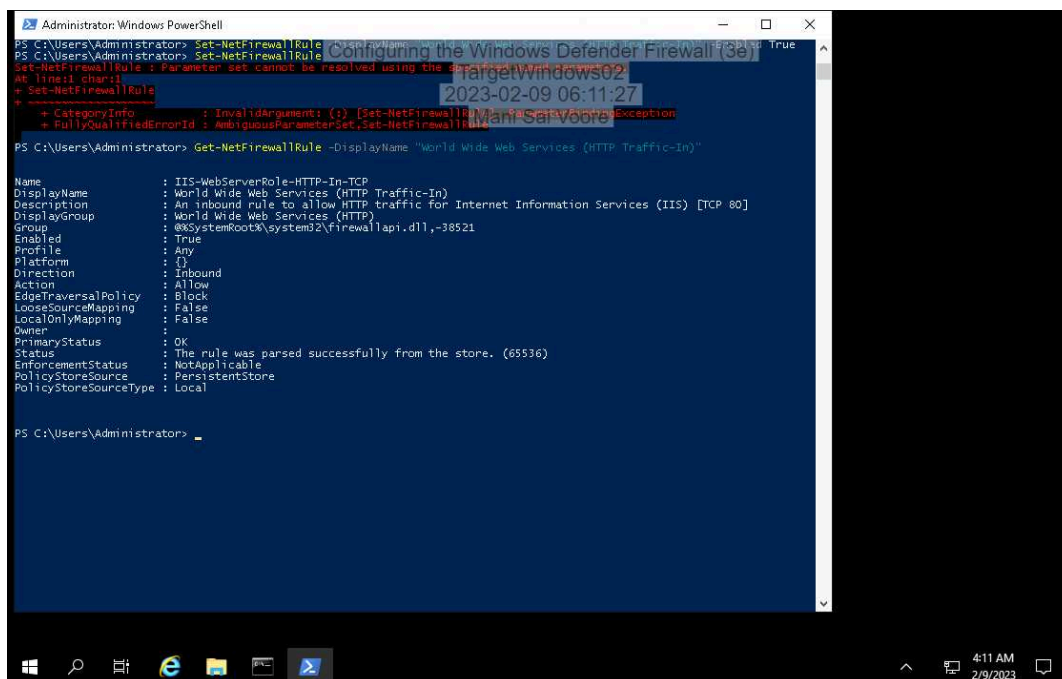


9. Make a screen capture showing the connection error message in the browser window.



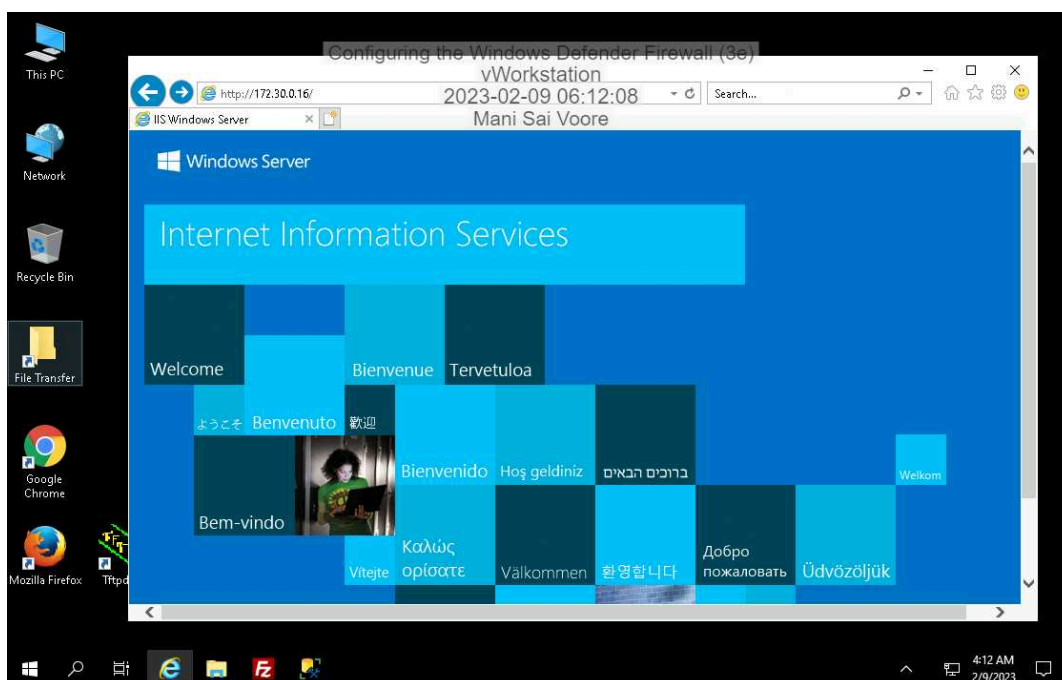
Part 2: Enable a Windows Defender Firewall Rule to Allow HTTP Access

4. Make a screen capture showing the updated status of the World Wide Web Services rule.



Part 3: Confirm the Windows Defender Firewall Configuration Allows HTTP

3. Make a screen capture showing the IIS server home page in the browser window.



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Section 3: Challenge and Analysis

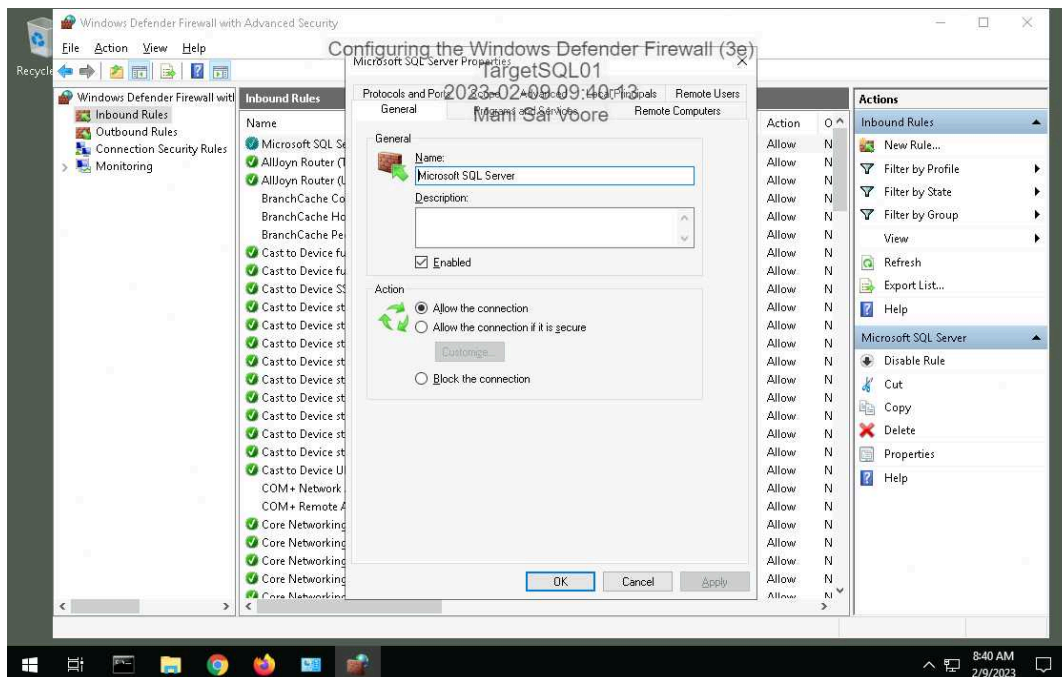
Part 1: Research Firewall Rule Requirements

Using the Internet, **research** and **identify** the protocol and port necessary for a Microsoft SQL Server database connection.

1. TCP(Transmission Control Protocol): Port 1433 is a default port number for SQL Server but that can be changed by system administrator. Protocol is which provide a reliable, error-checked delivery of data makes easy for database connection.
2. MySQL: port 3306, it uses TCP/IP protocol for communication. By default MYSQL listen to incoming connection on port 3306.
3. PostgreSQL: Port 5432, it uses the TCP/IP protocol for communication. By default it listen for incoming connections on port 5432.
4. Named Pipes : port number is 445. the protocol uses SMB for communication between two or more process on the same c computer over network.

Part 2: Configure the Firewall

Make a screen capture showing your firewall rule on TargetSQL01.



Part 3: Validate Your Firewall Rule

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Make a screen capture showing the results of your SQL query.

SQLQuery1.sql - 172.30.0.17.lab (bross (51)) - Microsoft SQL Server Management Studio (Administrator)

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SQLQuery1.sql - 172.30.0.17.lab (bross (51))

SELECT * FROM countries;

Results

	Country	Region	Population	Area_sq_mi	Pop_Density_per_sq_mi	Coastline_coast_area_ratio	Net_migration	Infant_mort
1	Alghanian	ASIA (EX. NEAR EAST)	31056937	647500	480	0	23.06	16307
2	Albania	EASTERN EUROPE	3581655	28748	1246	126	-4.93	2152
3	Algeria	NORTHERN AFRICA	32930091	2381740	138	4	-0.39	31
4	American Samoa	OCEANIA	57794	199	2904	5829	-20.71	927
5	Andorra	WESTERN EUROPE	71201	468	1521	0	6.6	405
6	Angola	SUB-SAHARAN AFRICA	12127071	1246700	97	13	0	19119
7	Anguilla	LATIN AMER. & CARIB	13477	102	1321	5980	10.76	2103
8	Antigua & Barbuda	LATIN AMER. & CARIB	69108	443	1560	3454	-6.15	1946
9	Argentina	LATIN AMER. & CARIB	39321833	2766890	144	18	0.61	1518
10	Armenia	C.W. OF IND. STATES	2976372	29800	999	0	-6.47	2328
11	Aruba	LATIN AMER. & CARIB	71891	193	3725	3549	0	589
12	Australia	OCEANIA	20264082	7686850	26	34	3.98	469

Query executed successfully. 172.30.0.17 (14.0 RTM) - bross (51) - lab 00:00:00 227 rows