

Configuring Firewalls in Microsoft Windows

Objectives

By the end of this session, you will be able to:

- Open and navigate the Windows Firewall interface
- Create a new outbound rule in Windows Firewall
- Configure custom settings for outbound rules
- Block specific IP addresses using outbound rules
- Verify the functionality of the newly created rule
- Enable and disable firewall rules

Open and navigate the Windows Firewall interface

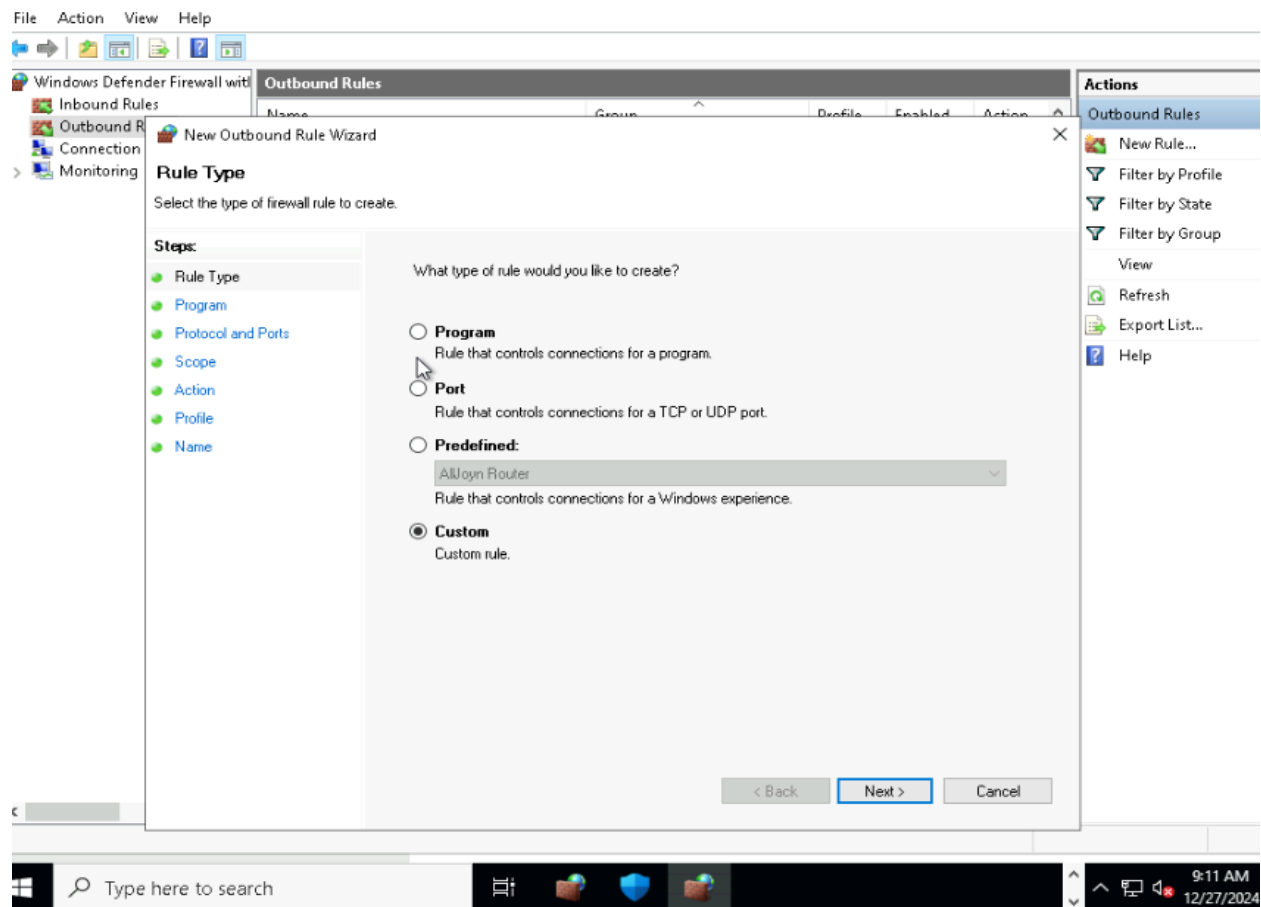
1. To open Windows Firewall: Press **Win + R** or type **Control panel**, and press **Enter**.
2. Select **System and Security > Windows Defender Firewall**.

Create a new outbound rule in Windows Firewall

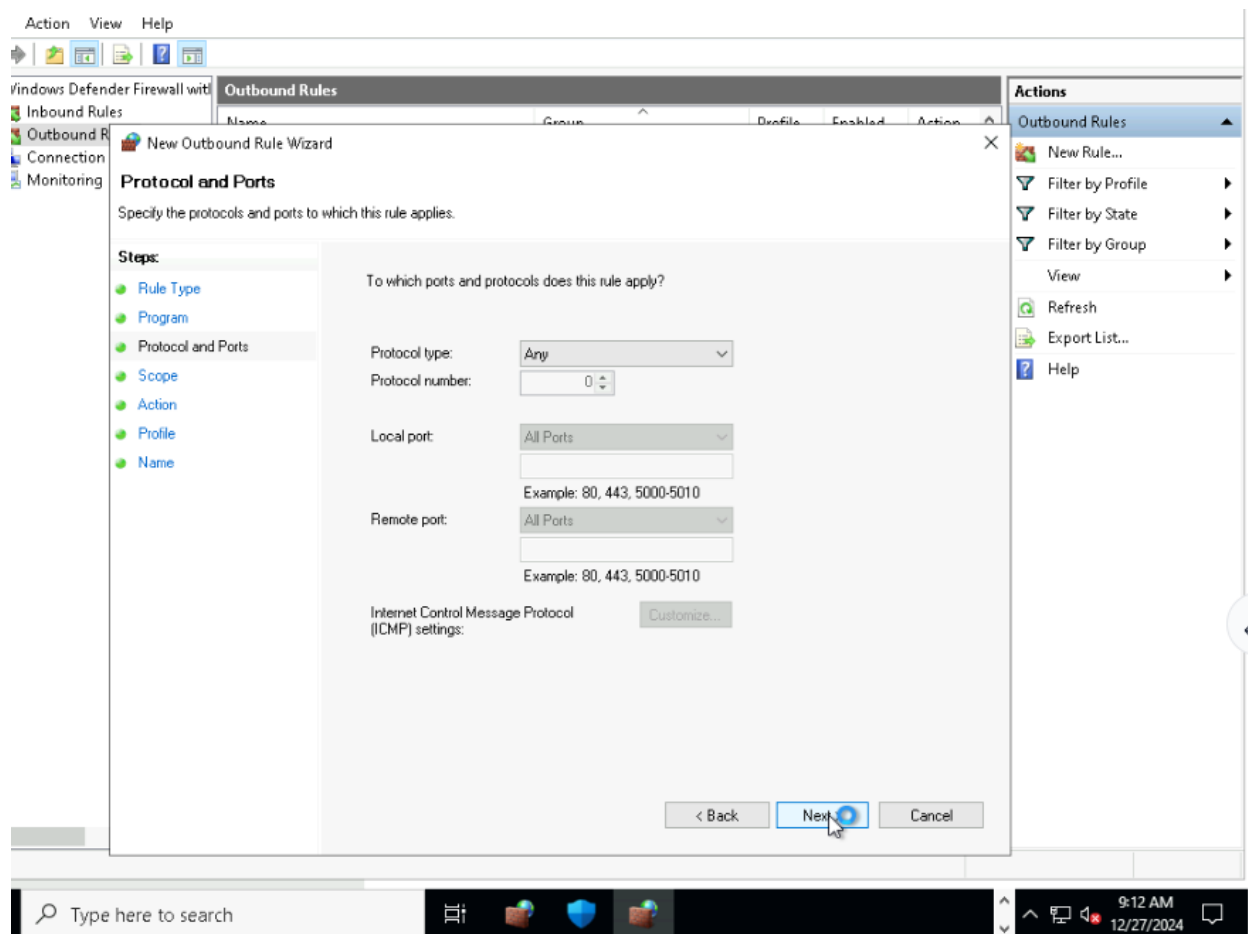
2. In the left pane, select **Outbound Rules**.
3. In the right pane, select **New Rule**.

Configure custom settings

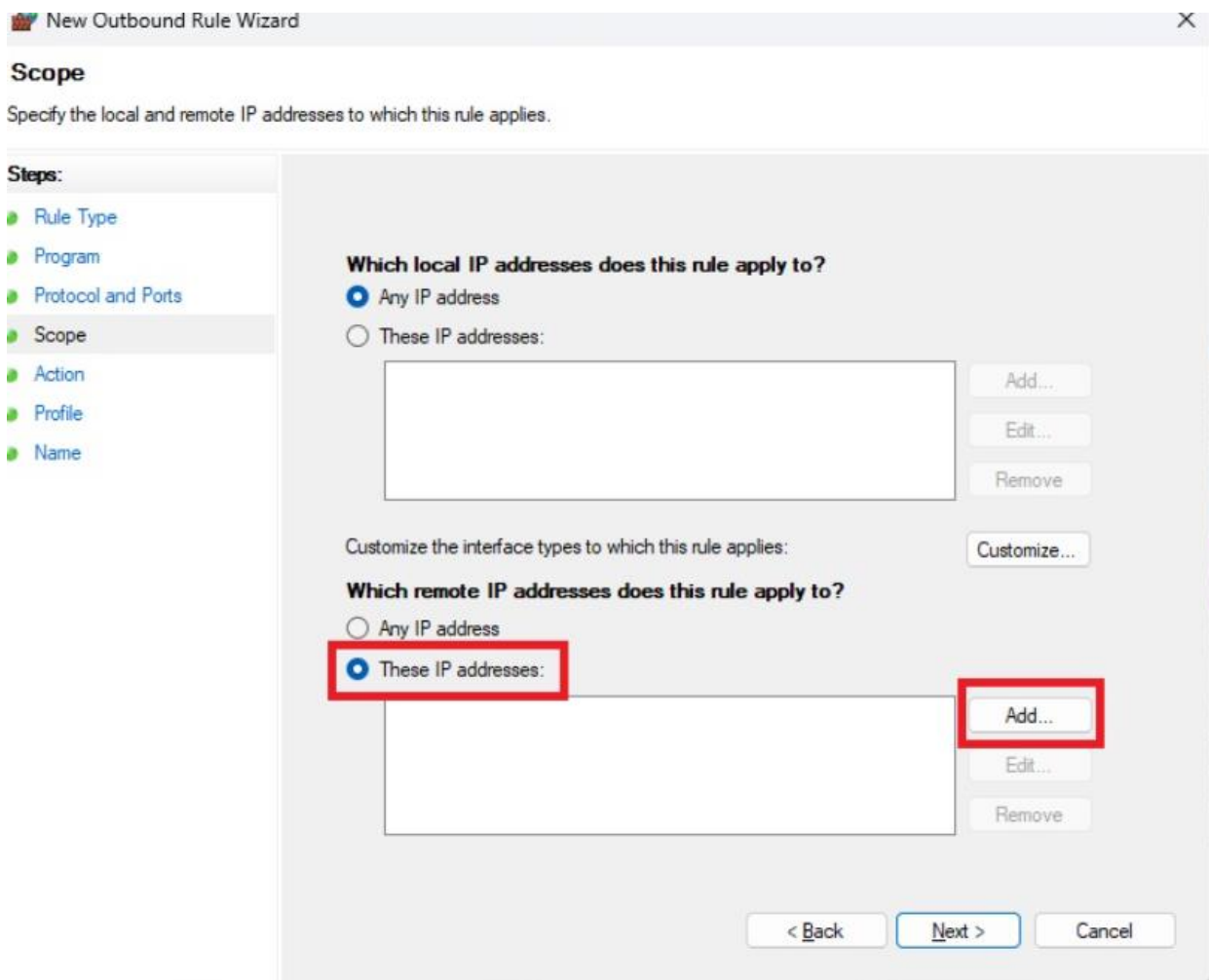
1. Select **Custom** and **Next**.



2. Select **All programs** and **Next**.
3. Keep the default onscreen parameters and select **Next**.



4. Select **These IP Addressess** and **Add**. The **IP Address** dialog box is displayed.



Block specific IP addresses using outbound rules.

1. Next, you will block the IP Address of 66.29.132.195, which is the address of the website, [Jharkhand State Cricket Association](#) website. Select **This IP address or subnet:** and in the text field type the following the IP address

1. 66.29.132.195

2. Select **OK**. The dialog box closes.

IP Address

Specify the IP addresses to match:

☒ This IP address or subnet:

66.29.132.195

Examples: 192.168.0.12
192.168.1.0/24
2002:9d3b:1a31:4:208:74ff:fe39:6c43
2002:9d3b:1a31:4:208:74ff:fe39:0/112

☐ This IP address range:

From:

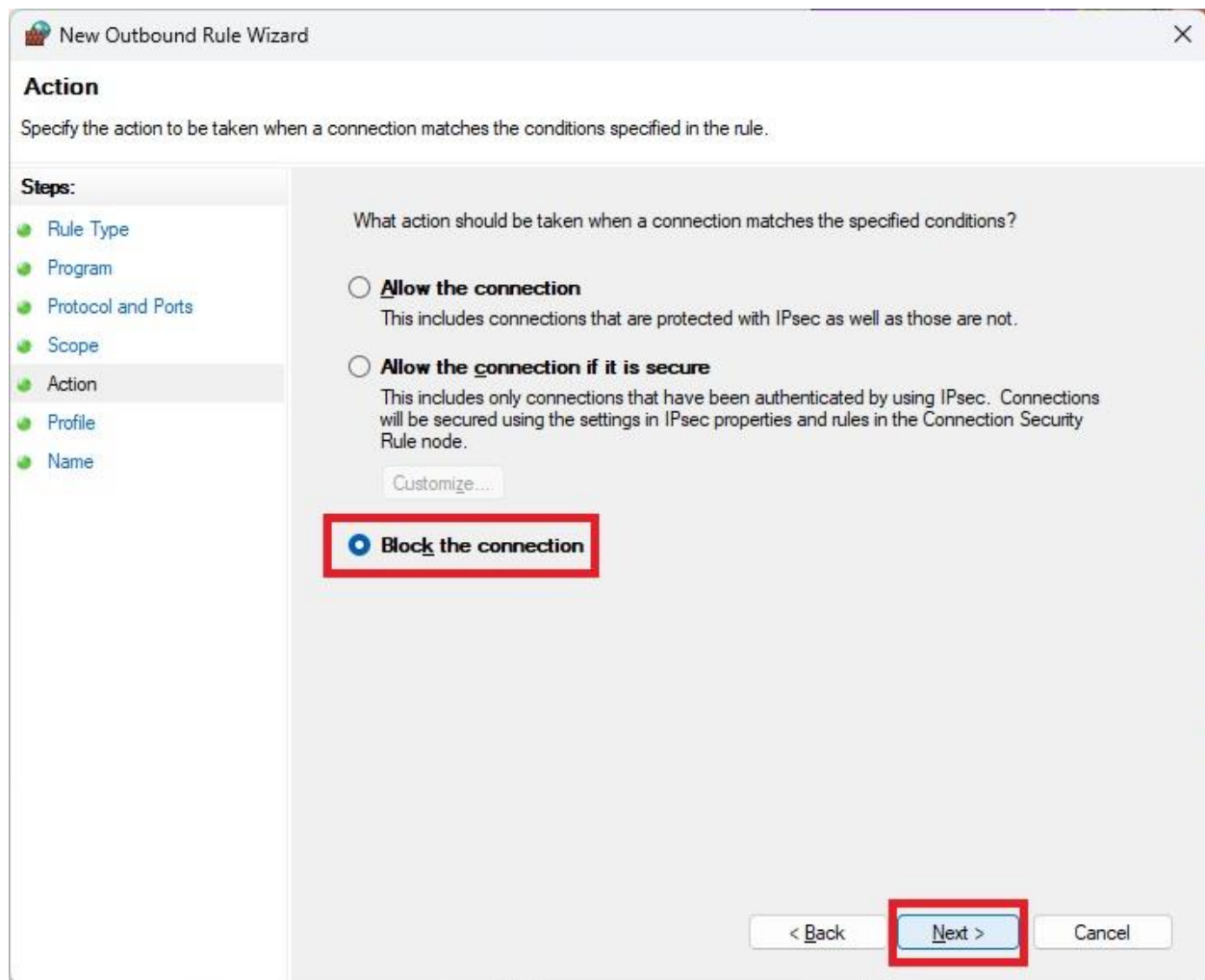
To:

☐ Predefined set of computers:

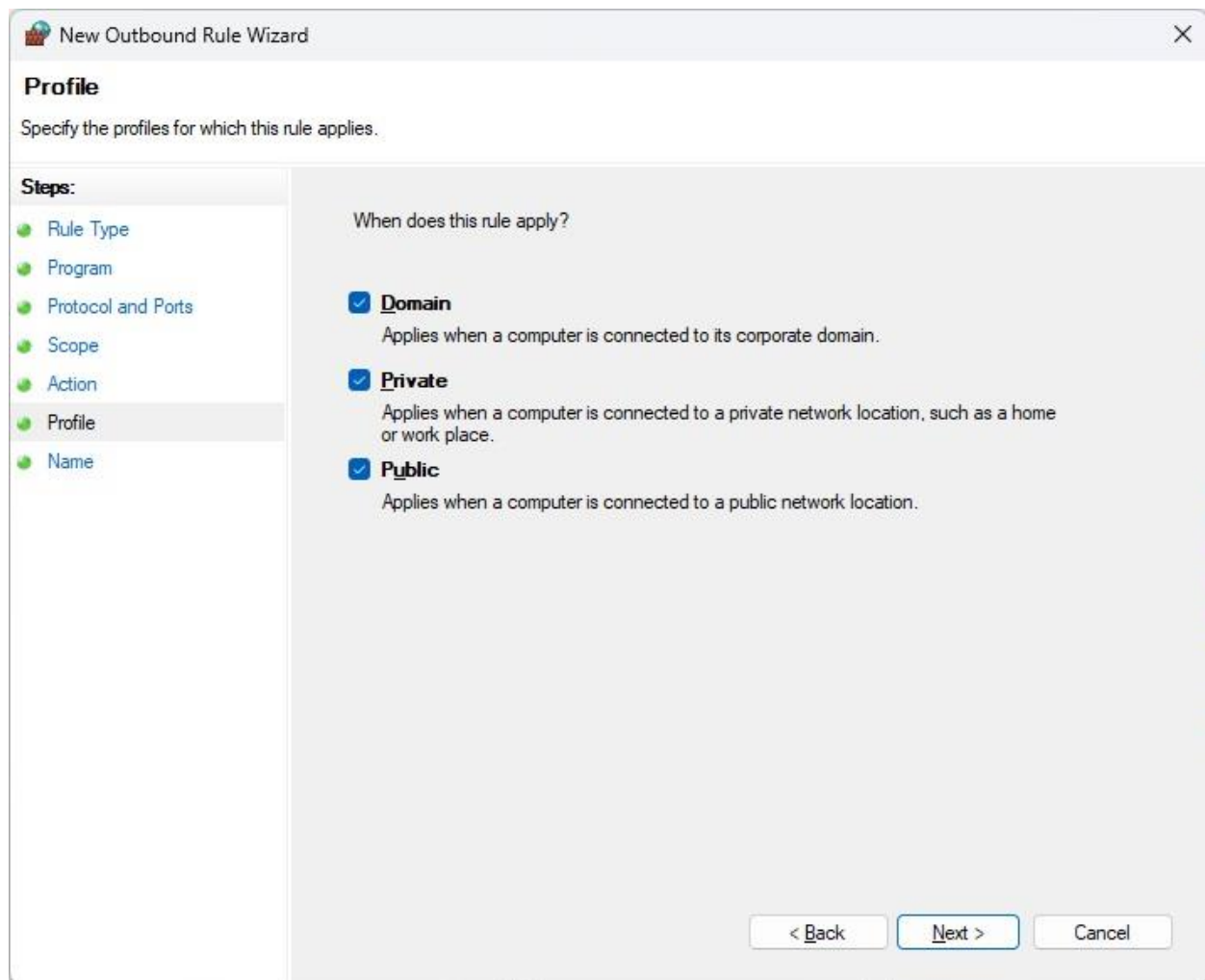
Default gateway

OK Cancel

3. The **New Outbound Rule Wizard** window is again displayed.
4. First, select the option, **Block the connection** option and select **Next**.



3. Select all of the available options for **When does this rule apply?** including **Domain**, **Private**, and **Public**, and select **Next**.



6. Name the newly created rule:

1

1. TEST

7. In the description field enter the following text:

1

1. **Test** rule

8. Select **Finish**.

New Outbound Rule Wizard

Name

Specify the name and description of this rule.

Steps:

- Rule Type
- Program
- Protocol and Ports
- Scope
- Action
- Profile
- Name**

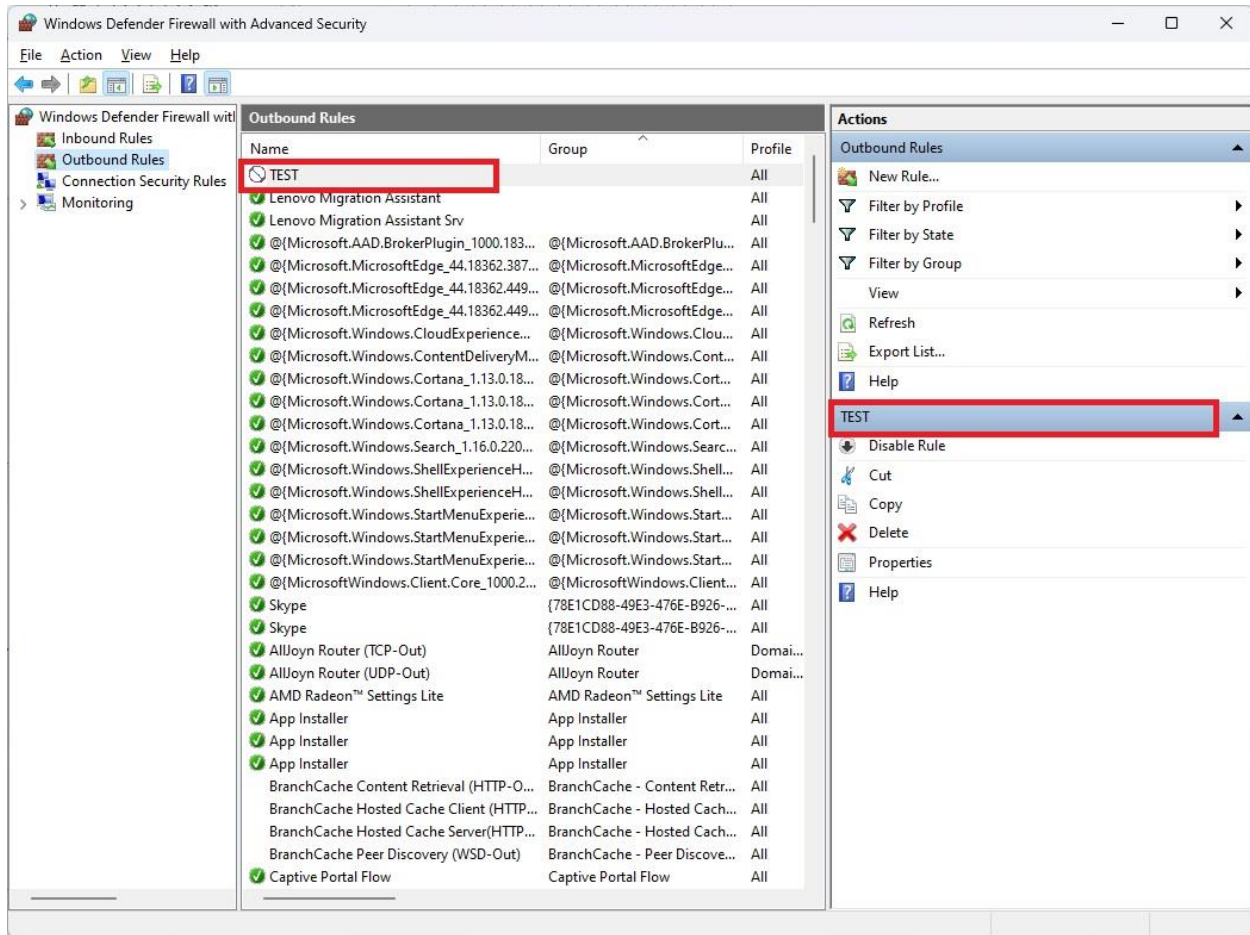
Name:
TEST

Description (optional):
Test Rule

< Back Finish Cancel

Task 5: Verify the functionality of the newly created rule

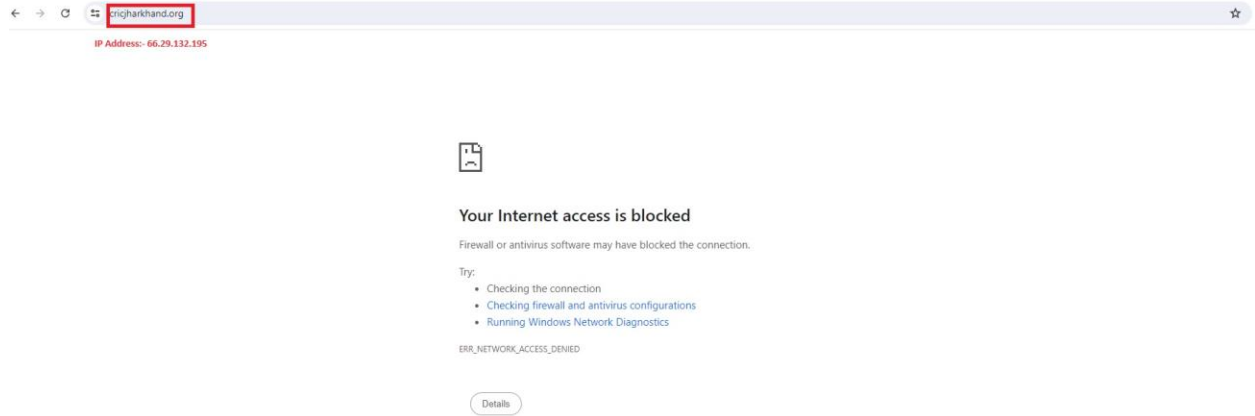
1. If needed, again open the Windows Defender Firewall Advanced Security window.



2. To verify if the newly created rule is working, open a browser window and type or paste the following website in the address bar.

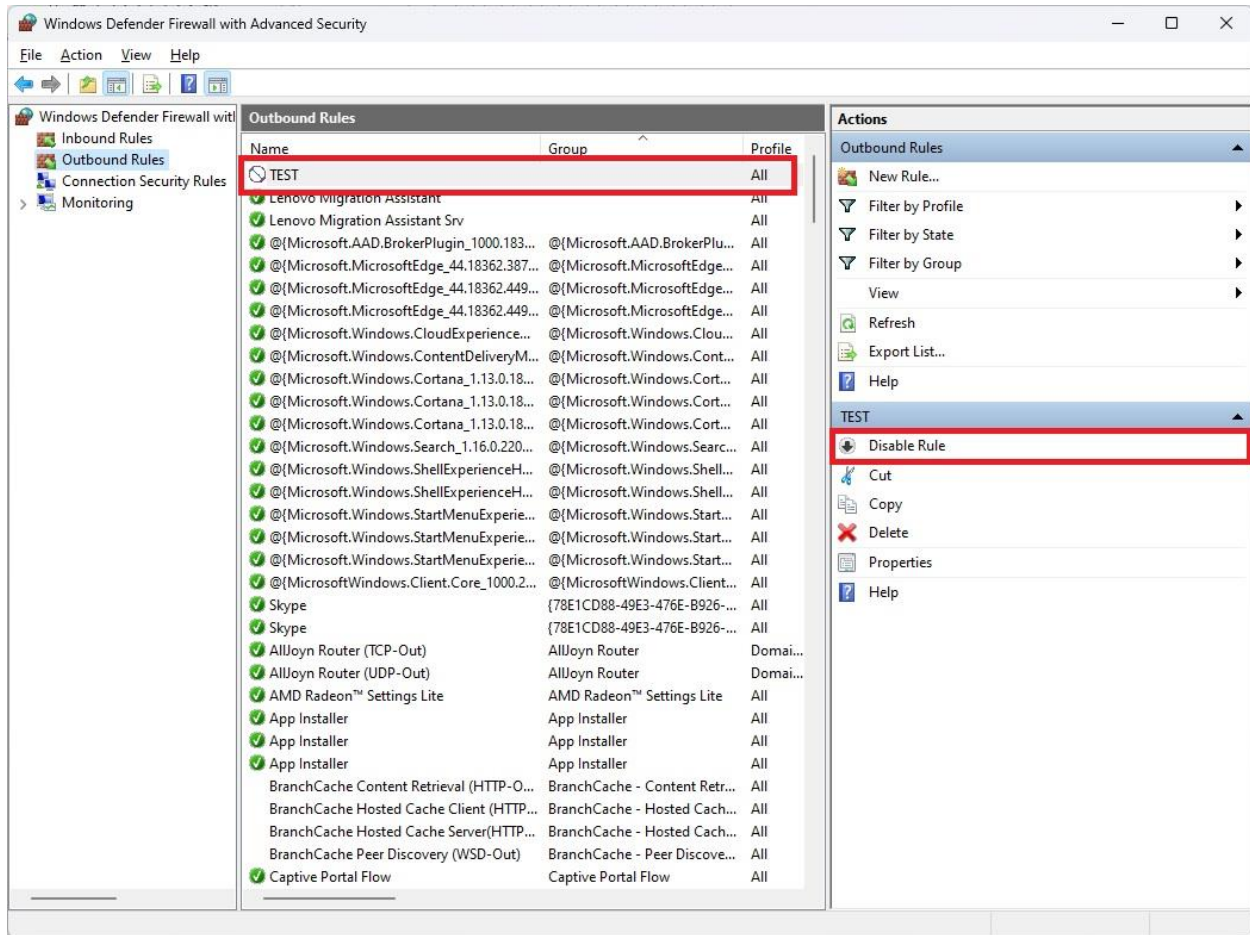
1. www.cricjharkhand.org

You will see a message that indicates that the www.cricjharkhand.org website is blocked or unavailable.



Task 6: Disable the rule to remove the website access restriction

1. Reopen the **Windows Defender Firewall with Advanced Security** screen.
2. Hover over the **TEST** rule you created. Select the option to either **Disable Rule** or to **Delete** the rule.



3. Open a browser and again type or copy the following URL website into the browser address bar.

1

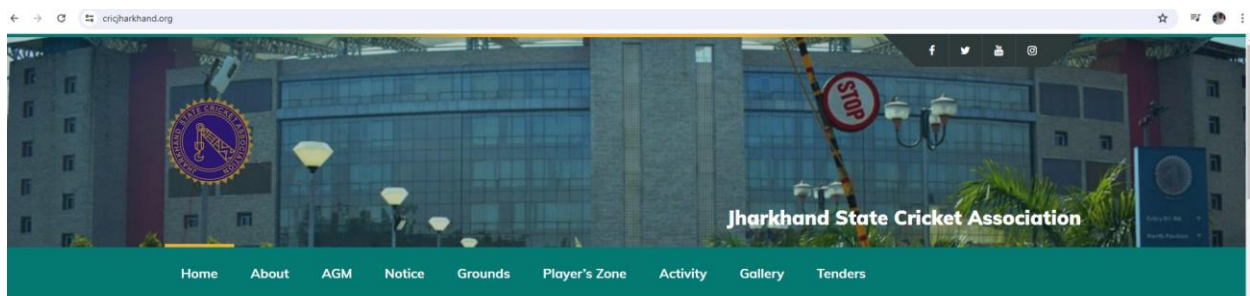
1. www.cricjharkhand.org

4. To verify if the newly created rule is working, open a browser window and type, or copy and paste the following website in the address bar.

1

1. www.cricjharkhand.org

5. Now, view the website.



Conclusion

You can use **Control Panel** and **Systems and Security** to access your **Windows Defender Firewall settings**, set custom parameters for both outbound and inbound rules, and verify each rule's effectiveness. You can now create an outbound rule to help control and restricting network traffic, contributing to better security management. You can also create an inbound rule to block potential system threats.

You can now locate the **Disable** function within the **Inbound Rules** and **Outbound Rules** screens and restore access to blocked websites, demonstrating the flexibility and control that Windows Defender Firewall rules provide. You're now equipped with the hands-on experience needed to effectively manage firewall rules, enhancing your ability to secure your network environment.