Exercise 1 - Configuring Computer Management for Remote Administration

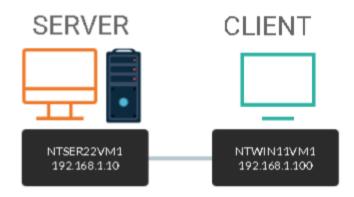
Computer Management is a centralized user interface that allows you to manage system tools, storage subsystems, and services. This puts Task Viewer, Event Viewer, Performance Monitor, Device Manager, and Disk Manager all in one location. Management and Services panel.

Computer Management, like other administration programs, can be set up to remotely manage servers and workstations. This is accomplished by allowing incoming connections from a domain-joined workstation over firewall rules.

In this exercise,

- 1. Enable Firewall Rules for Remote Administration
- 2. Perform Remote Administration via Computer Management

Topology



DOMAIN = networktute.com

NTSER22VM1 = Windows Server 2022 - Domain Controller

NTWIN11VM1 = Windows 11 – Domain Member

Prerequisite

VMware Workstation 16 Pro

- When making this tutorial, we used the "Windows Server 2019" VM Template and "Windows 10 & later" VM Template. Since VMware didn't have the updated templates.
- Microsoft Windows Server 2022
- Microsoft Windows 11

Task 1:

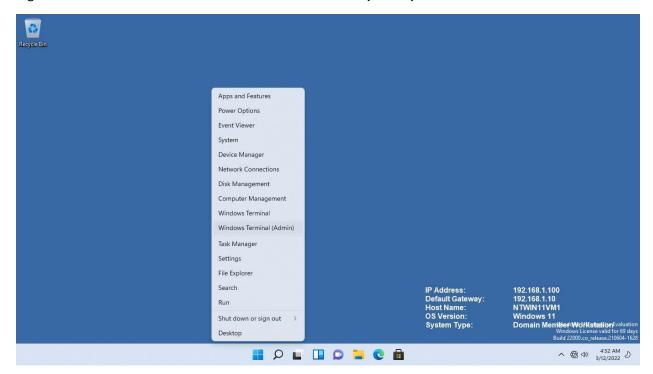
The graphical Windows Security, Windows Defender Firewall with Advanced Security, can be used to administer Windows Firewall Rules. Similarly, Windows PowerShell contains cmdlets for configuring a computer's firewall.

In this task, we will enable the required firewall rules to allow a Windows 11 workstation to connect to a Windows Server through Computer Management.

Step 1:

Ensure you are connected to NTWIN11VM1

Right-click on the Start icon and select Windows Terminal (Admin).



Step 2:

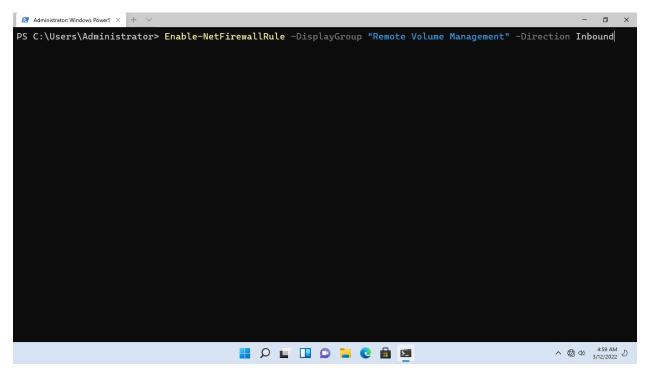
To create an inbound firewall rule that will allow management of remote disk volumes, type the following:

Enable-NetFirewallRule -DisplayGroup "Remote Volume Management" -Direction Inbound

Press Enter

Step 3:

Notice that there will be no successful confirmation after enabling the inbound firewall rule. This is by design.



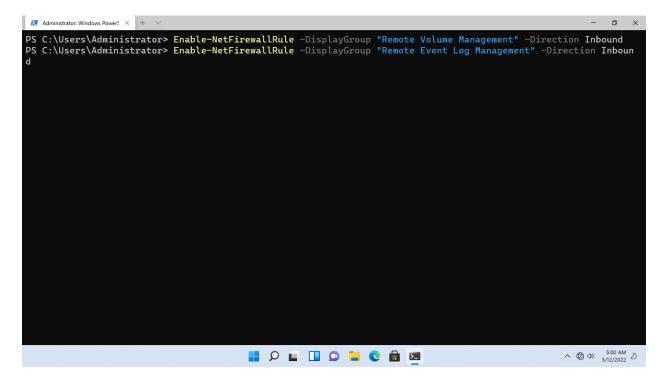
Step 4:

On the next prompt, to create an inbound firewall rule that will allow management of remote event logs, type the following:

Enable-NetFirewallRule -DisplayGroup "Remote Event Log Management" -Direction Inbound Press Enter

Step 5:

As before, there will be no successful confirmation.



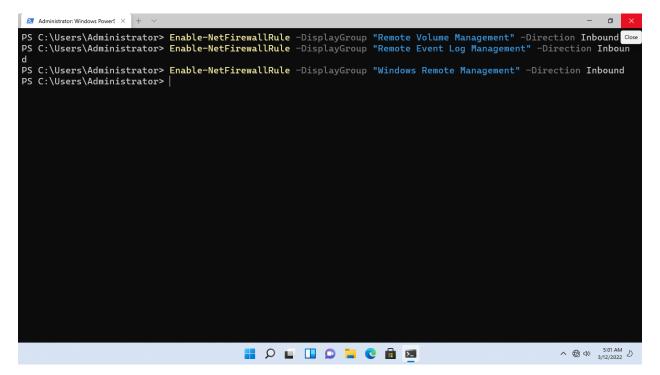
Step 6:

On the next prompt, to enable remote management of a Windows device, type:

Enable-NetFirewallRule -DisplayGroup "Windows Remote Management" -Direction Inbound

Press Enter

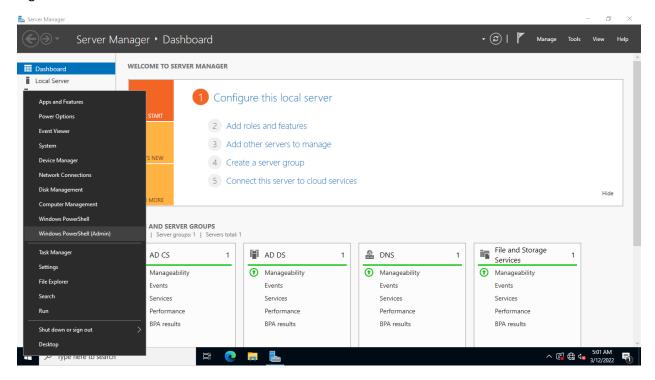
Close the Windows Terminal window.



Step 7:

Connect to NTSER22VM1

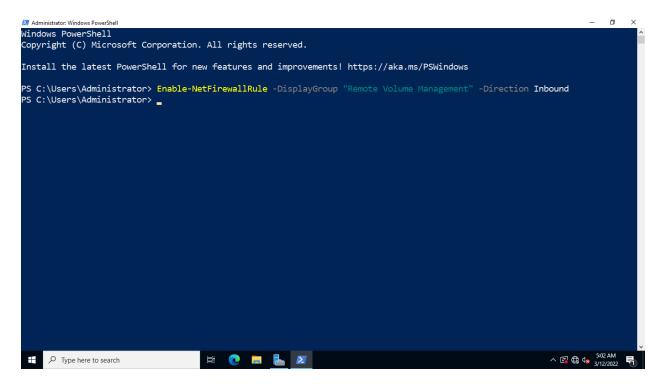
Right-click the **Start** icon and select **Windows Powershell**



Step 8:

Type the following commands to create an inbound firewall rule that will allow management of remote disk volumes:

Enable-NetFirewallRule -DisplayGroup "Remote Volume Management" -Direction Inbound Press **Enter**



Step 9:

On the next prompt, to create an inbound firewall rule that will allow management of remote event logs, type the following:

Enable-NetFirewallRule -DisplayGroup "Remote Event Log Management" -Direction Inbound

Press Enter

On the next prompt, to enable remote management of a Windows device, type:

Enable-NetFirewallRule -DisplayGroup "Windows Remote Management" -Direction Inbound Press **Enter**

Still on the next prompt, to create a firewall rule for COM+ Network access, type:

Enable-NetFirewallRule -DisplayGroup "COM+ Network Access" -Direction Inbound

Press Enter

As illustrated before, there will be no successful confirmation when you enable the Windows firewall rule.

Close the Windows Terminal window.

Task 2:

Computer Management is a suite of tools that allows you to manage a device's critical system settings. It also facilitates remote device management by enabling firewall ports required for remote administration.

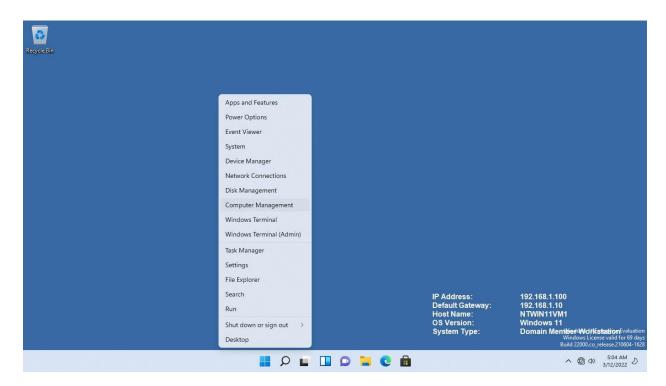
You have enabled the essential firewall rules in both devices.

In this task, we will now remotely manage the NTSER22VM1 server from the NTWIN11VM1 client workstation.

Step 1:

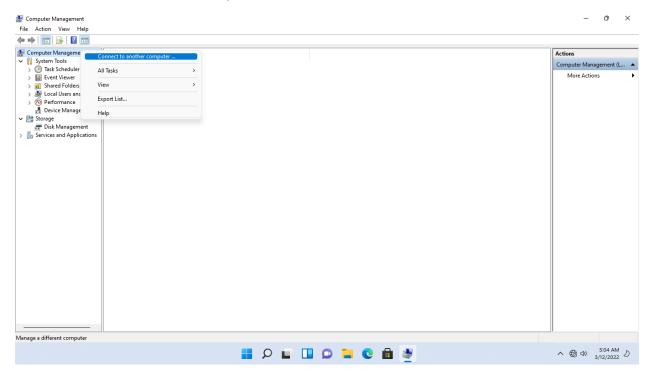
Connect to NTWIN11VM1.

Right-click the **Start** icon and select **Computer Management**.



Step 2:

On the **Computer Management** console window, right-click the **Computer Management (Local)** node and select **Connect to another computer**

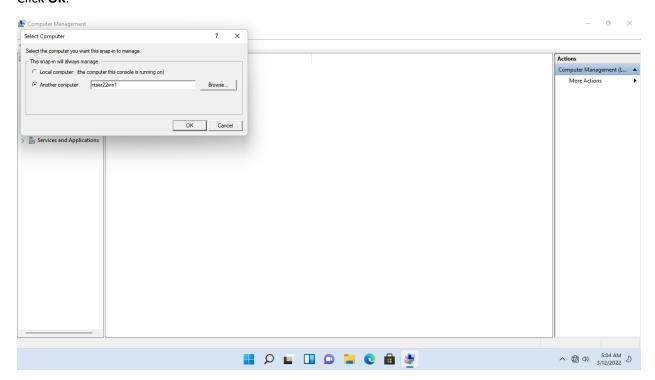


Step 3:

On the **Select Computer** dialog box, select the **Another computer** option button.

Then type the following in the textbox: **ntser22vm1**

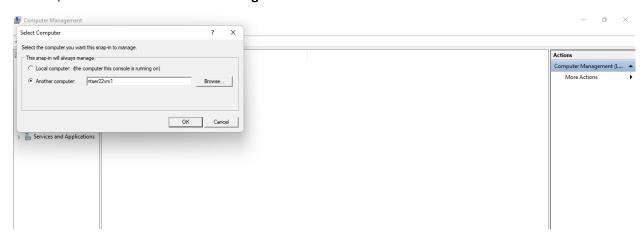
Click OK.



Step 4:

A connection to **NTSER22VM1** via **Computer Management** is now established.

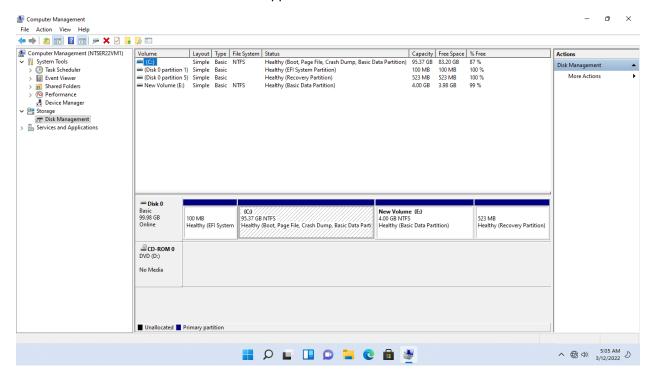
Expand the **System Tools** node for **NTSER22VM1** to view the **Task Scheduler**, **Event Viewer**, **Shared Folders**, **Performance** and **Device Manager** tools.



Step 5:

Expand Storage and click Disk Management.

Notice the disk volumes of NTSER22VM1 appear.



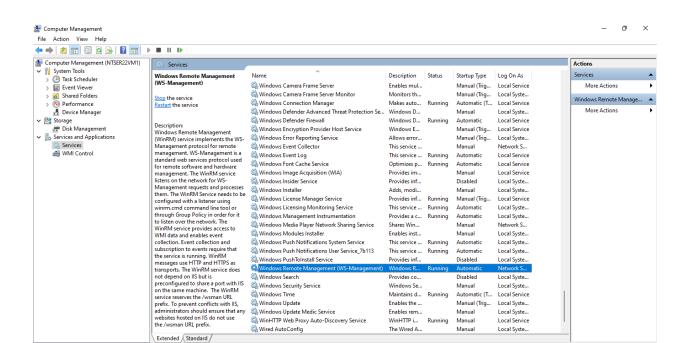
Step 6:

Now expand the Services and Applications node.

Click on Services to view the network services running on NTSER22VM1.

Scroll down the list and select Windows Remote Management.

Windows Remote Management (WS-Man) as shown in the screenshot is a service that enables administration of Windows devices from another workstation. Recall that you enabled the network firewall ports of **Windows Remote Management**.



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