

How to Configure Windows Remote Management (WinRM)

Task. Configure WinRM.

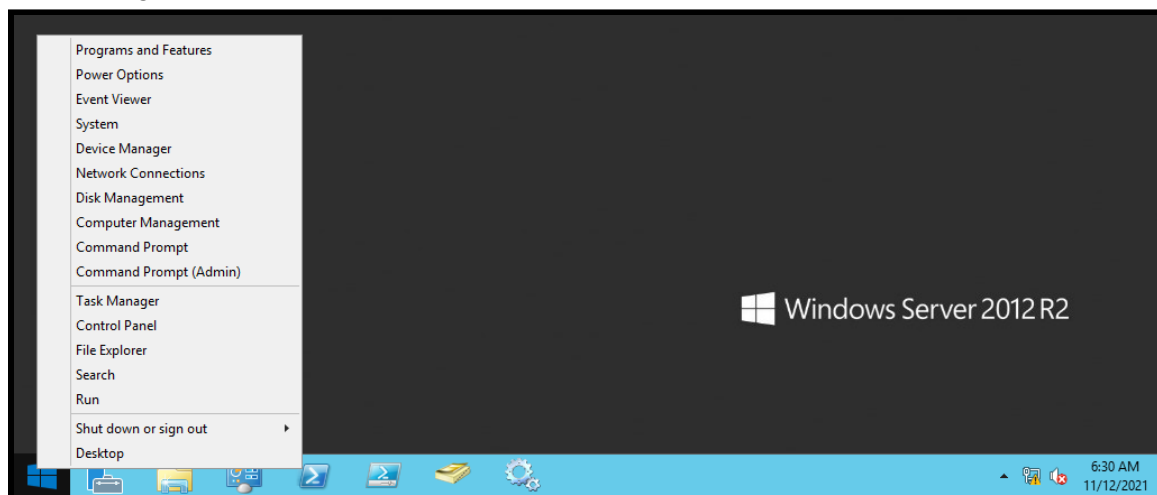
Purpose. Windows Event Forwarding and PowerShell Remoting use WinRM listeners to send and receive data. WinRM listeners exchange data via the HTTP or HTTPS protocol. Said data is encrypted using Kerberos, regardless of if HTTP or HTTPS is used. If WinRM is not enabled or configured correctly, administrators will not be able to collect Windows events, remotely manage the domain, etc.

Conditions. You have domain administrator privileges and access to either a domain controller or a workstation with Remote Server Administration Tools (RSAT) installed.

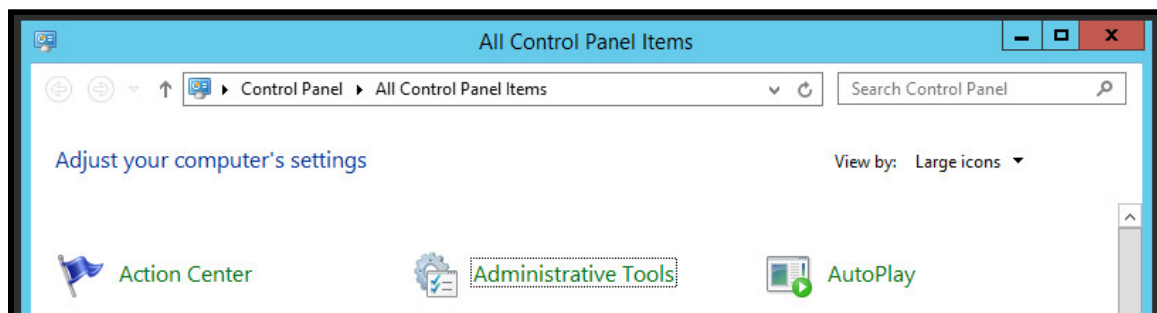
Standard. You were able to create a Group Policy Object (GPO) for WinRM.

Step 1. Login to your domain administrator account on either a domain controller or a workstation with RSAT installed.

Step 2. Right-click the Windows icon in the bottom-left corner and select “Control Panel.”

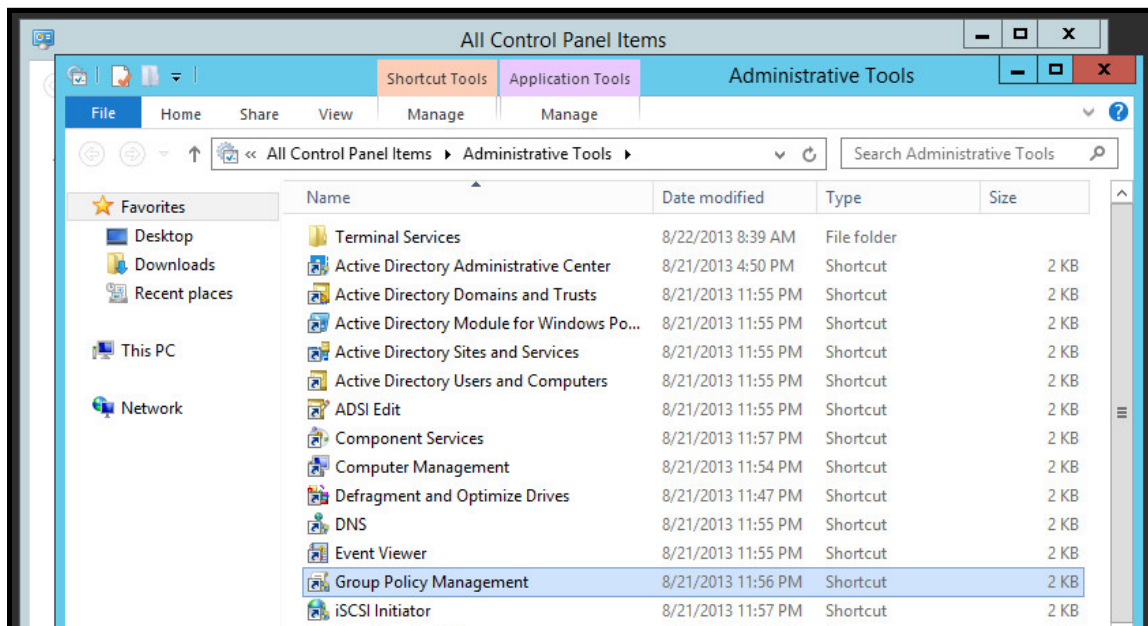


Step 3. Click-on “Administrative Tools.”

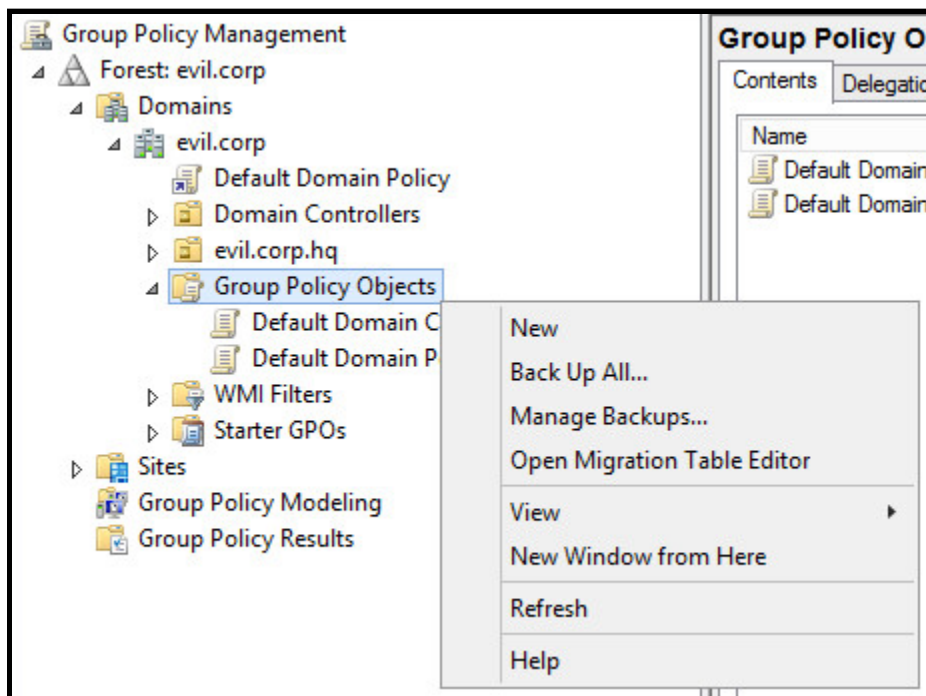


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Step 4. Double-click “Group Policy Management.”

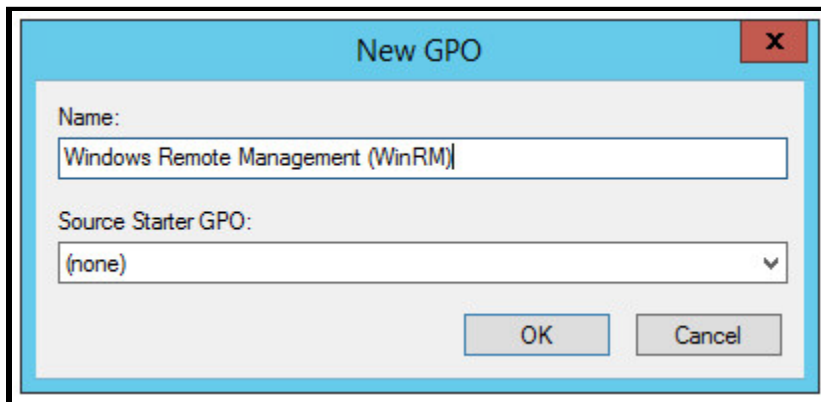


Step 5. Right-click the “Group Policy Objects” container and select “New.”

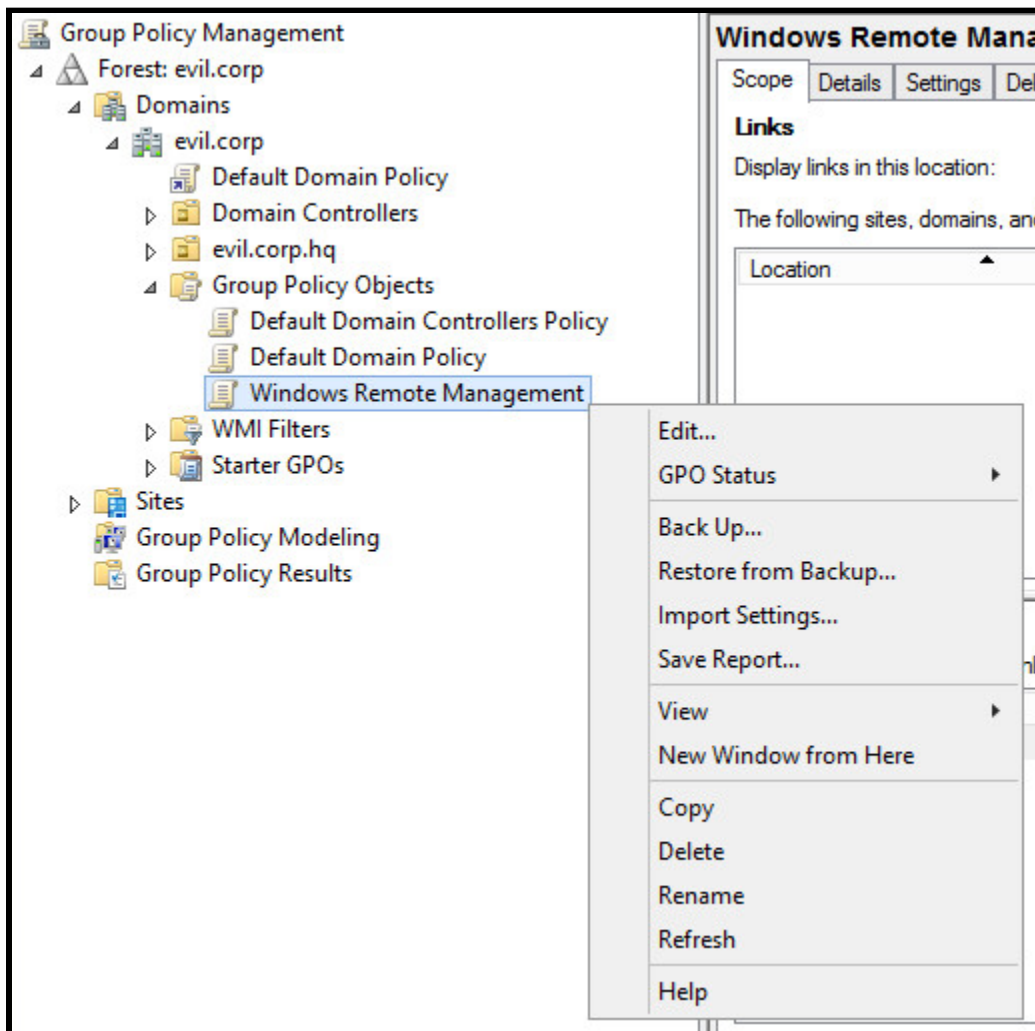


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Step 6. Type “Windows Remote Management (WinRM)” in the “Name” field.

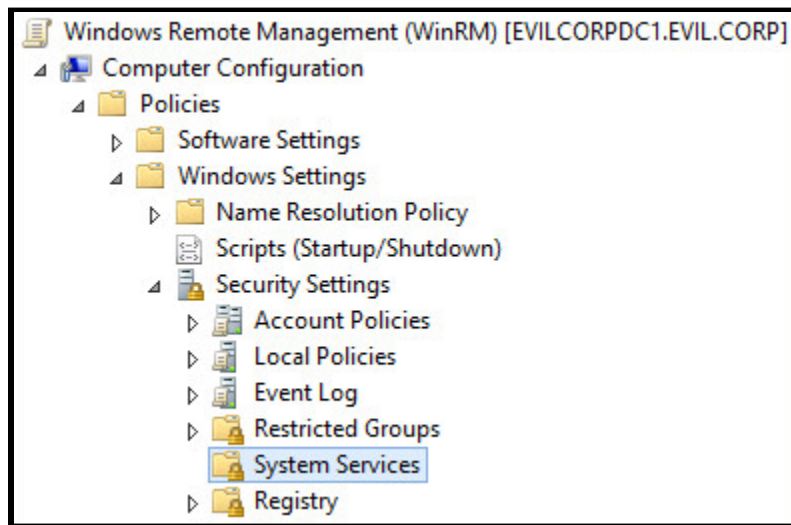


Step 7. Right-click the GPO you created and select “Edit.”

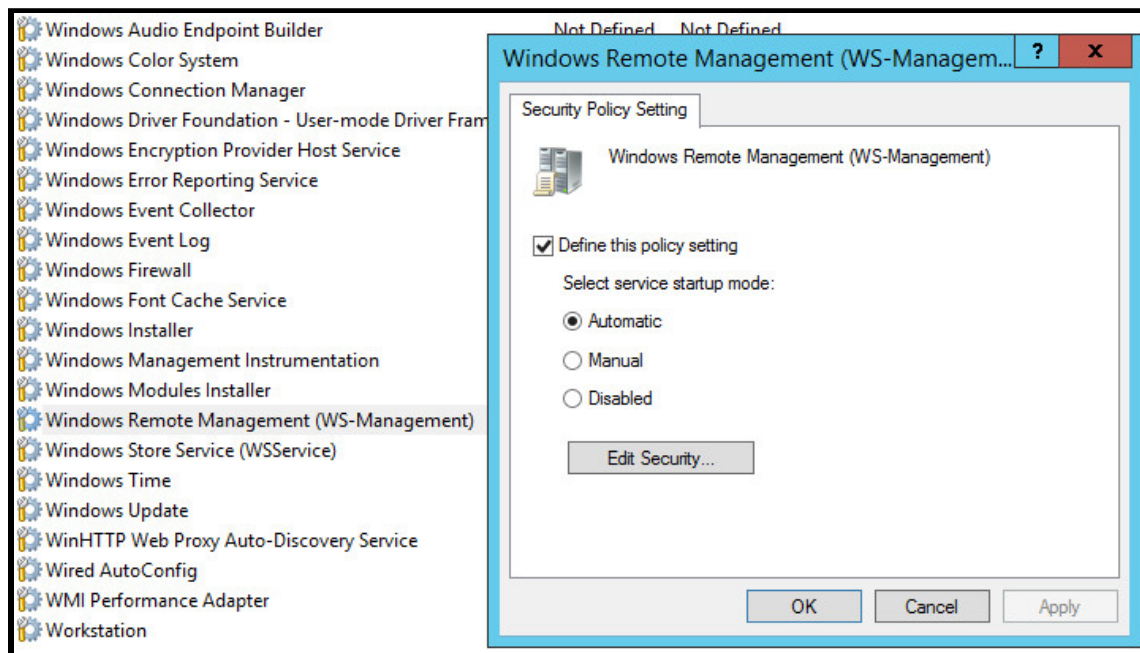


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Step 8. With the GPO open, navigate to the following path: “Computer Configuration” > “Policies” > “Windows Settings” > “Security Settings” > “System Services.”

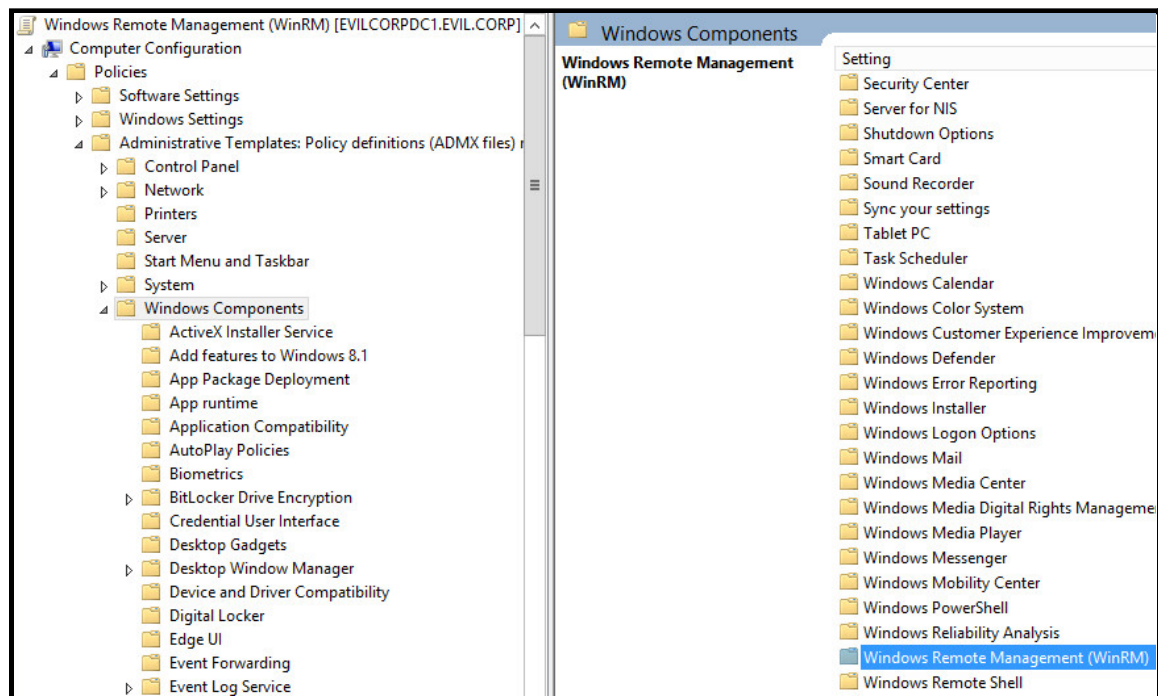


Step 9. In the pane on the right, right-click “Windows Remote Management (WS-Management),” select “Properties,” and configure the service startup mode to be “Automatic.” Click-on “Apply.”

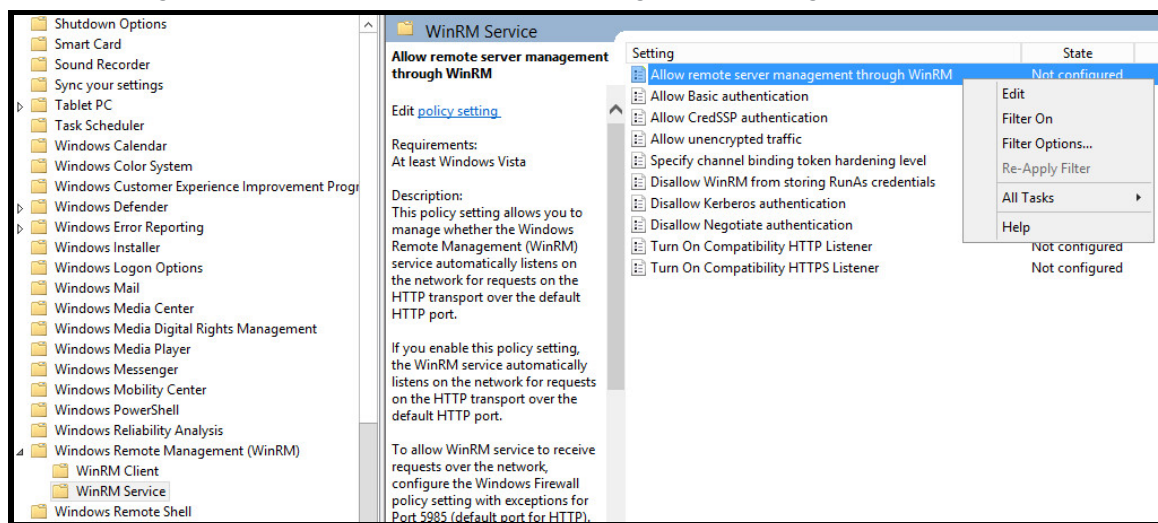


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Step 10. With the GPO still open, navigate to the following path: “Computer Configuration > Policies” > “Administrative Templates” > “Windows Components” > “Windows Remote Management (WinRM).”

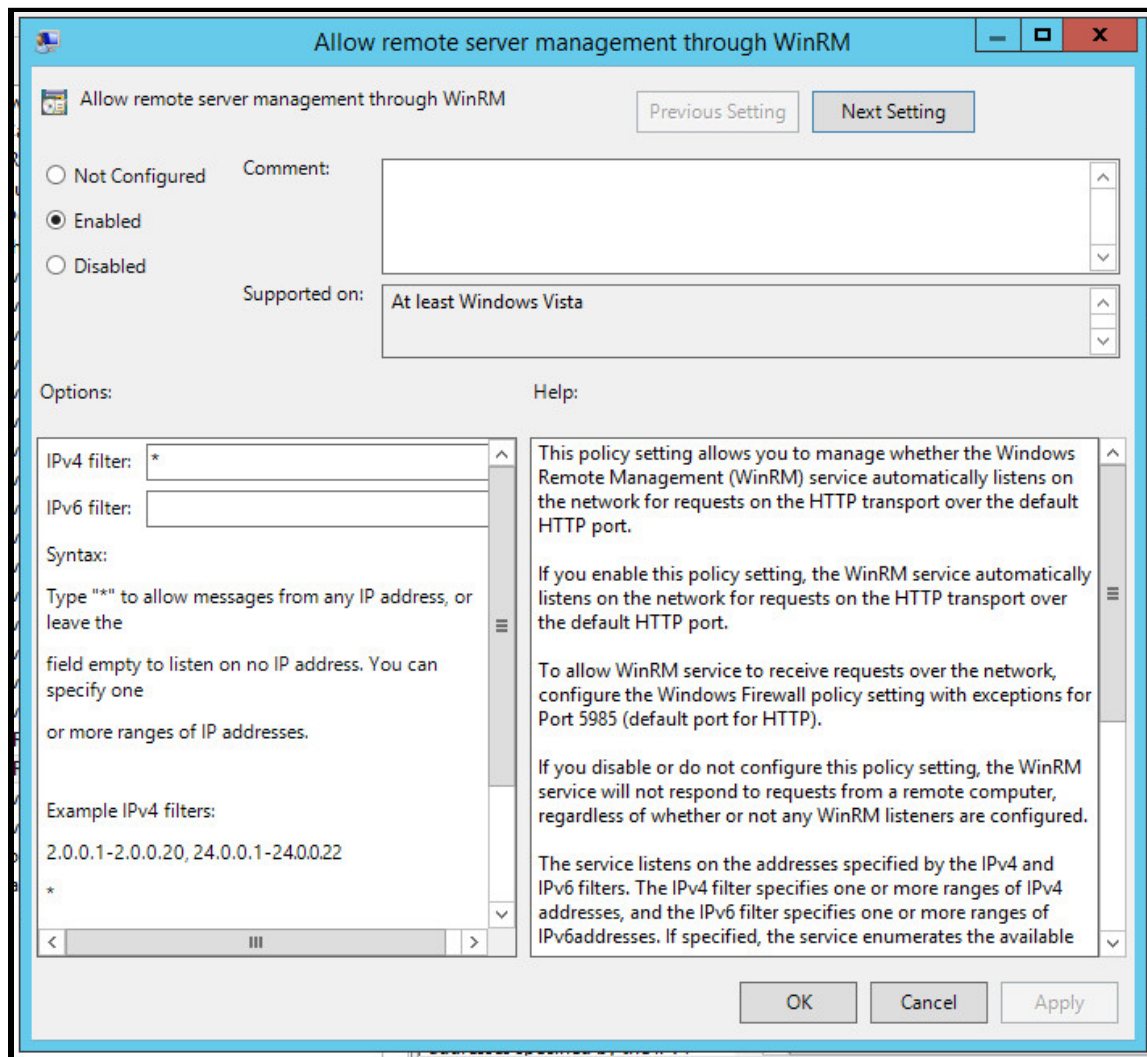


Step 11. Double-click “Windows Remote Management (WinRM).” Double-click “WinRM Service.” Right-click “Allow remote service management through WinRM” and select “Edit.”

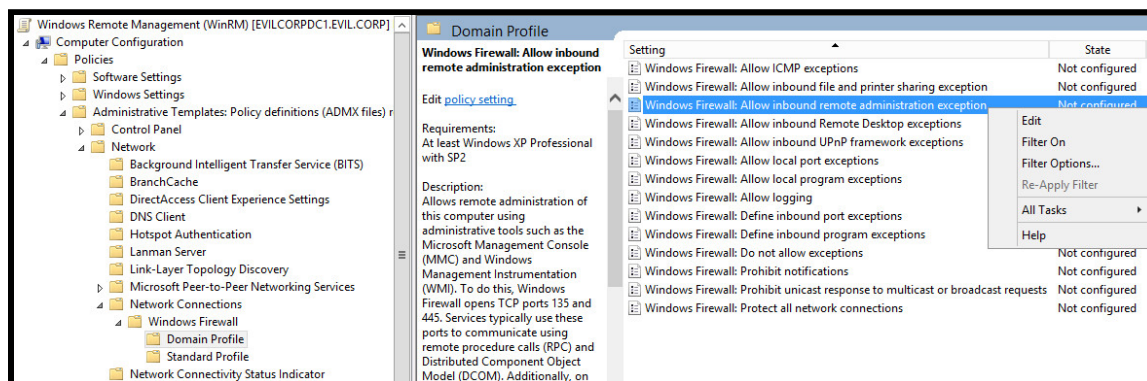


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Step 12. Select “Enabled,” type “*” in the IPv4 filter field, click-on “Apply,” and click-on “OK.”

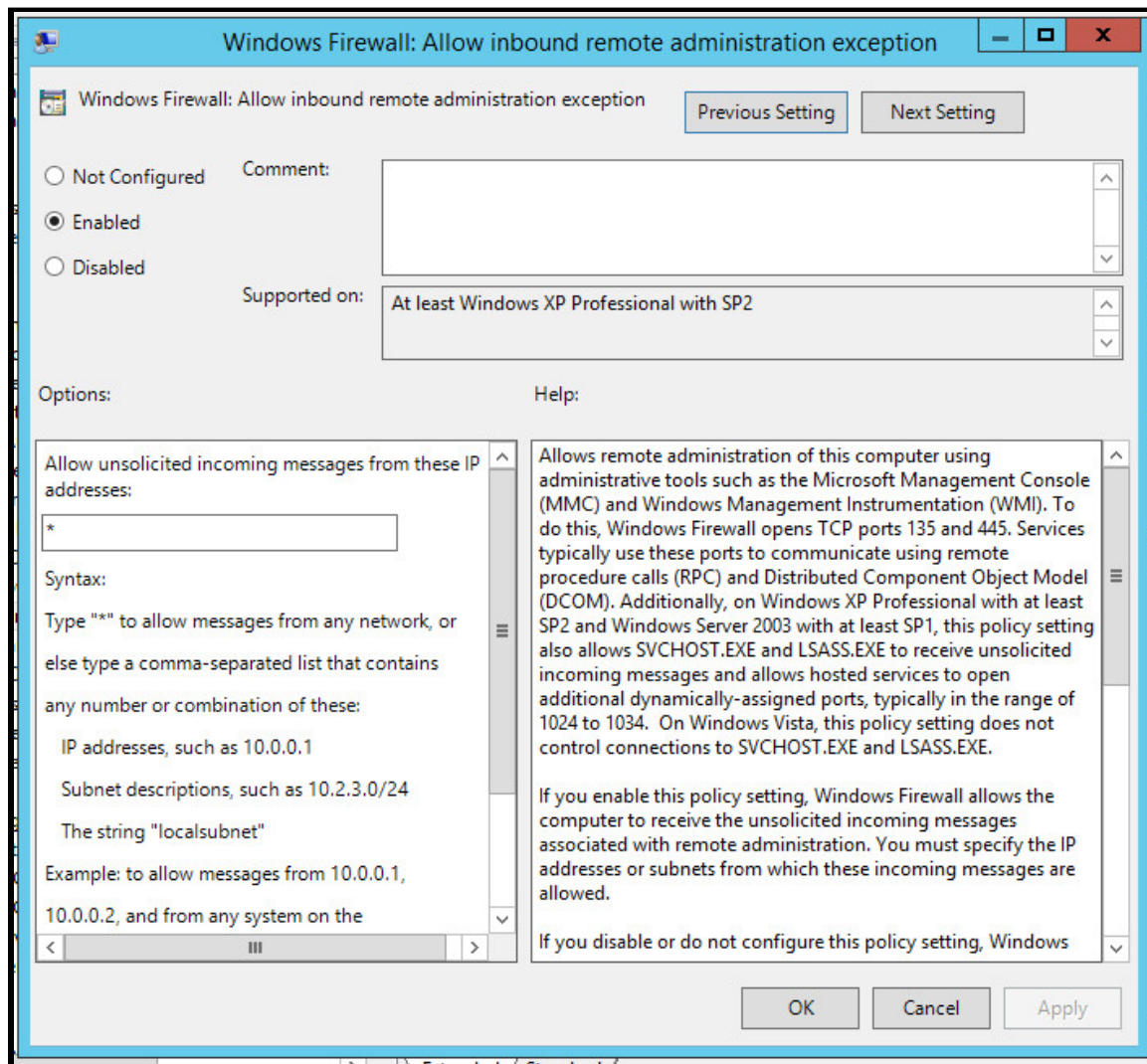


Step 13. With the GPO still open, navigate to the following path: “Computer Configuration” > “Policies” > “Administrative Templates” > “Network” > “Network Connections” > “Windows Firewall” > “Domain Profile.” Right-click “Windows Firewall: Allow inbound remote administration exception” and select “Edit.”



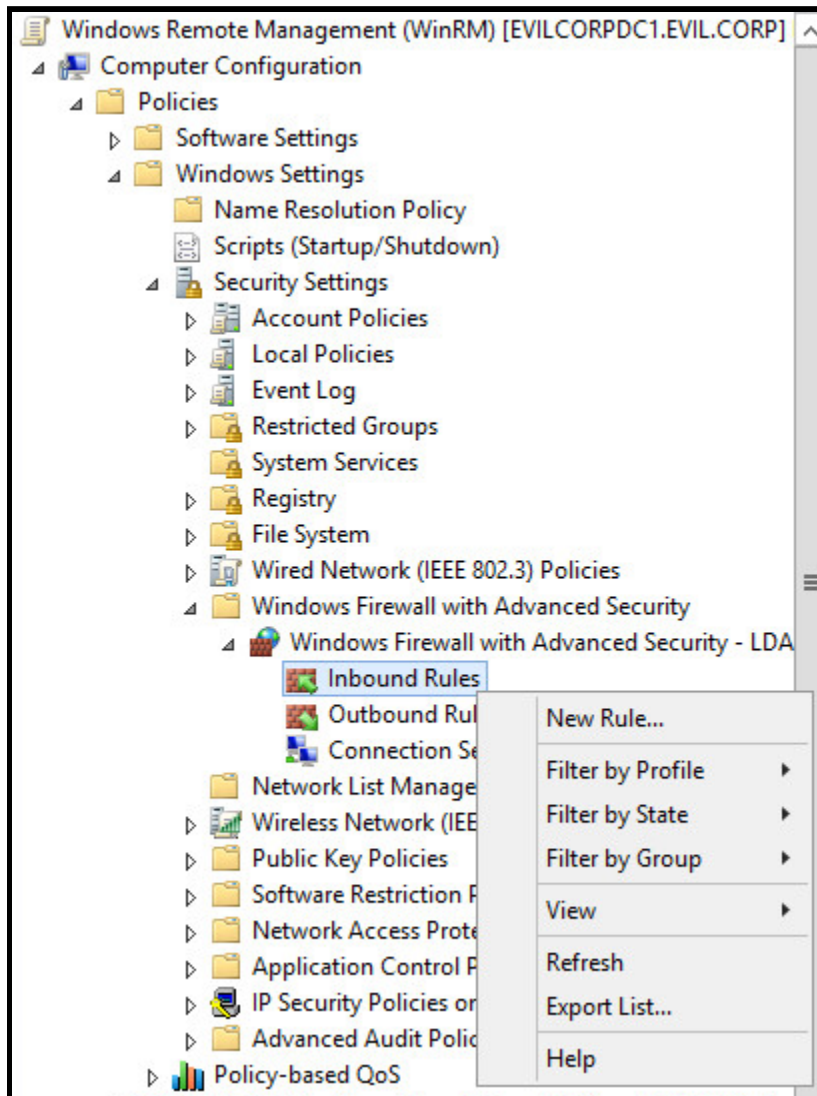
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Step 14. Select “Enabled,” type “*” in the “Allow unsolicited incoming messages from these IP addresses,” click-on “Apply,” and click-on “OK.”



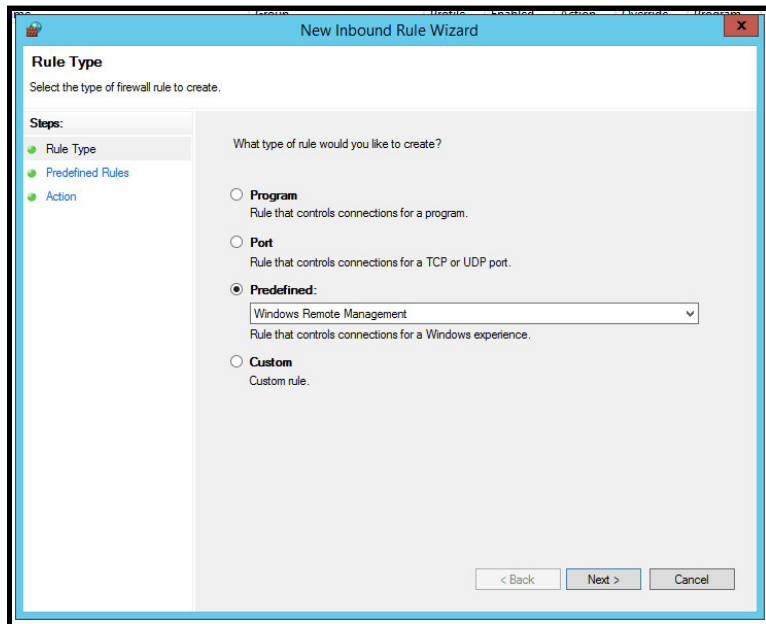
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Step 15. With the GPO still open, navigate to the following path: “Computer Configuration” > “Policies” > “Windows Settings” > “Security Settings” > “Windows Firewall with Advanced Security” > “Windows Firewall with Advanced Security.” Right-click “Inbound Rules” and select “New Rule.”

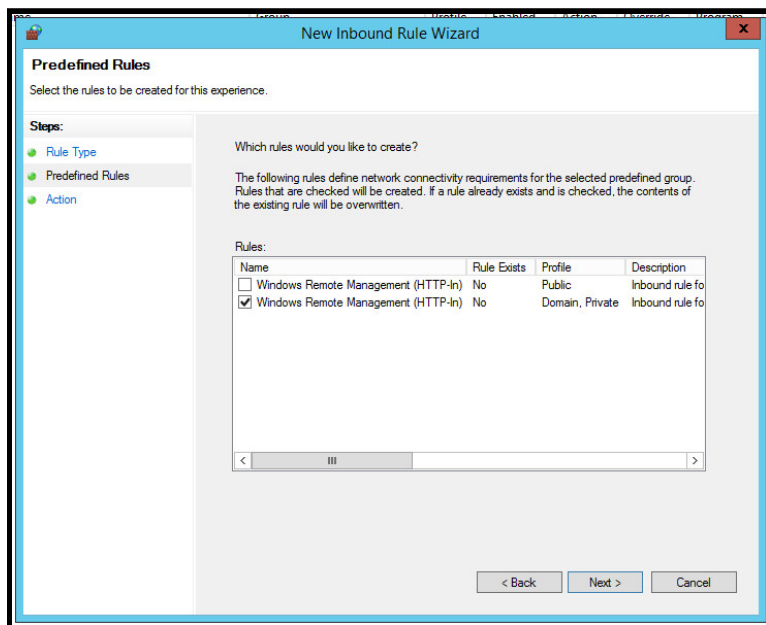


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Step 16. In the “Predefined” drop-down menu, select “Windows Remote Management.” Click “Next.”

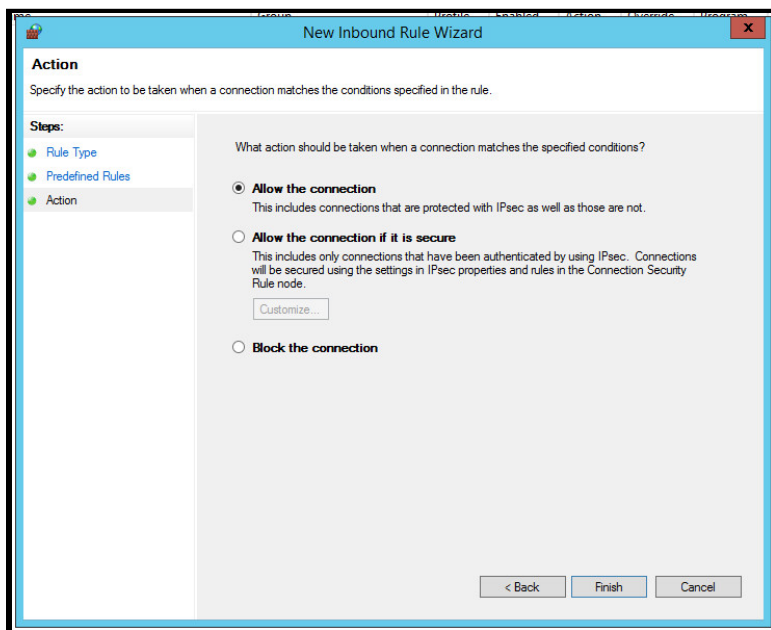


Step 17. Deselect “Windows Remote Management (HTTP-In)” for the “Public” profile. Select “Windows Remote Management (HTTP-In)” for the “Domain, Private” profile. Click “Next.”

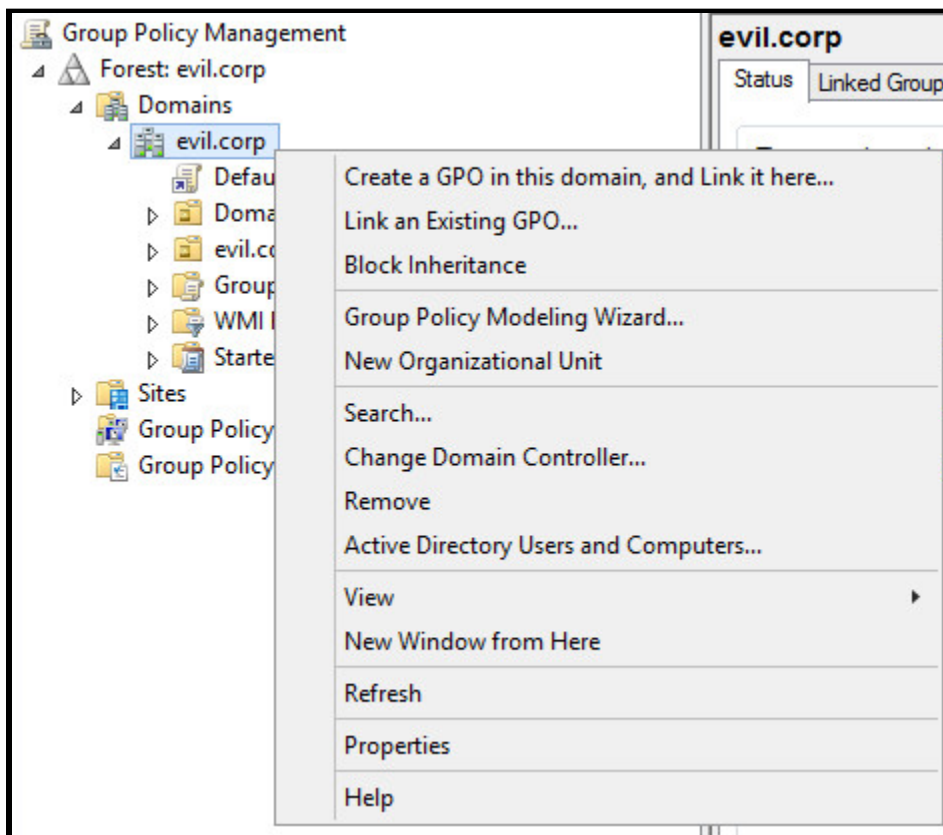


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Step 18. Select “Allow the connection.” Click “Finish” and close the GPO.



Step 19. Right-click your domain and select “Link an Existing GPO...”



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Step 20. Select the GPO you created and click-on “OK.”

