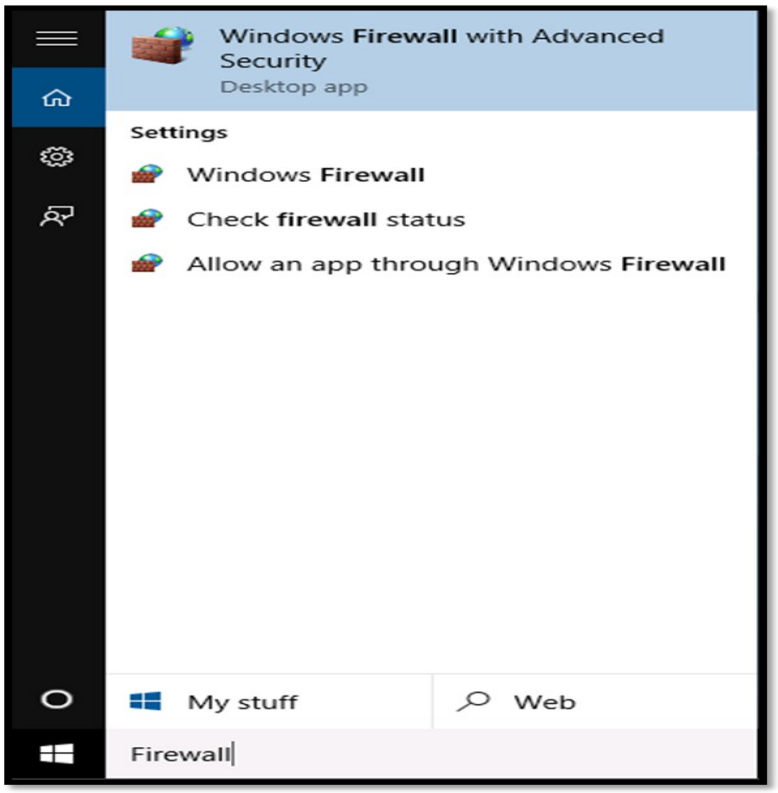
3.6 Guided Exercise: Configuring Windows Firewall

Resources	
Files	None
Machines	Windows 10, Windows Server 2012

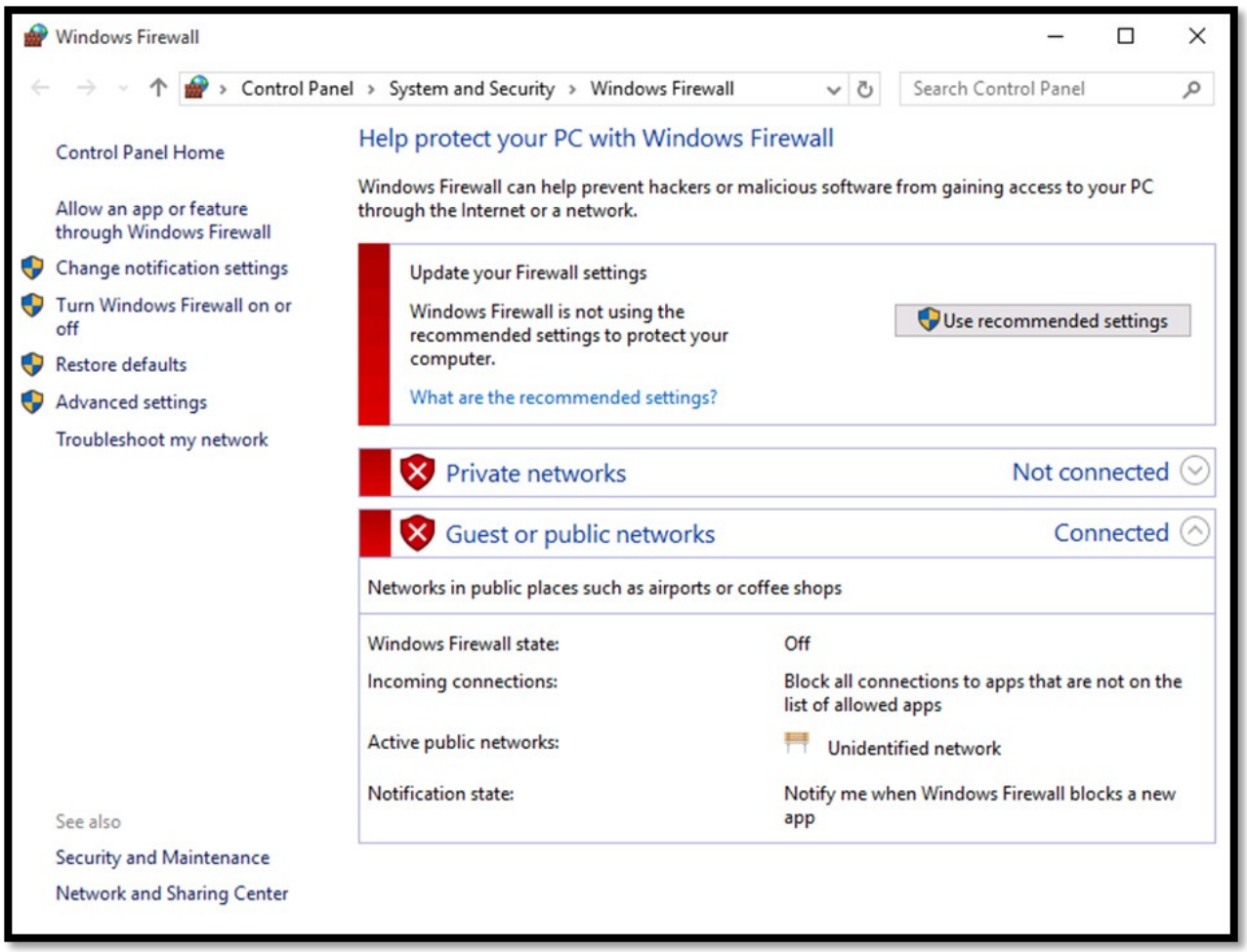
In this exercise, you are required to configure the firewall on the Windows machines.

Login to Windows 10 and enable the Firewall.

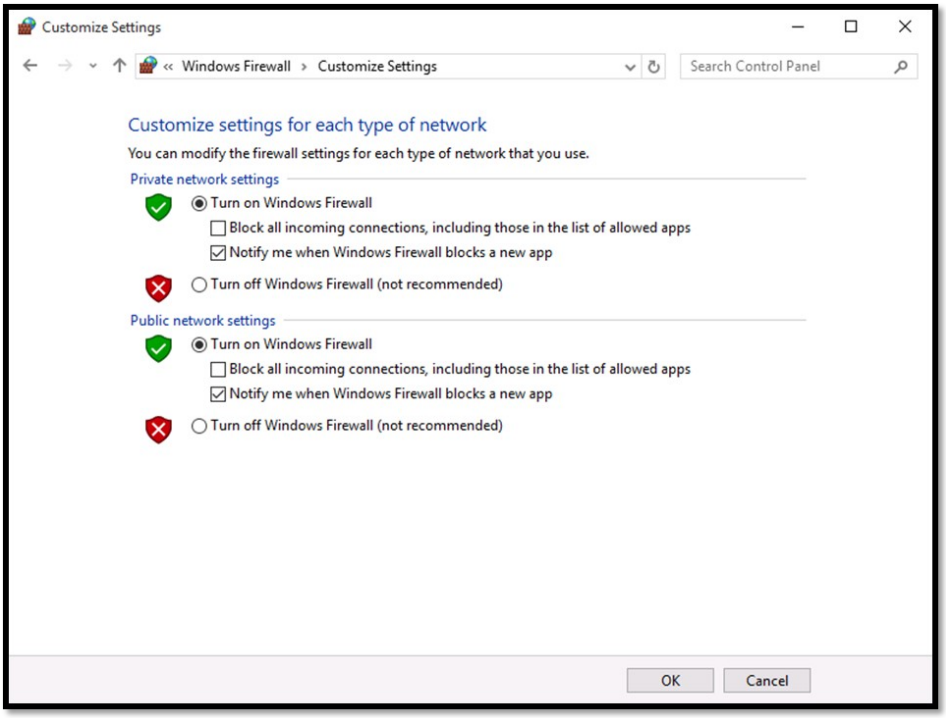
Click on the Start button and then write on the search box Firewall.



The select the Windows Firewall. Once the Windows Firewall window opens click on “**Turn Windows Firewall on or off”.**

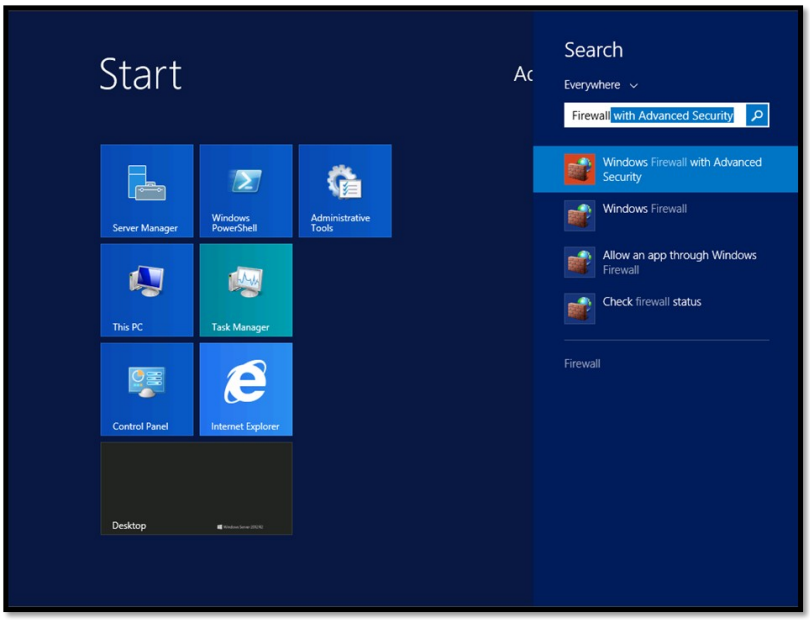


On the Customize Settings window of Firewall select both radio buttons “**Turn on Windows Firewall”** for Private and Public network settings and then click OK.

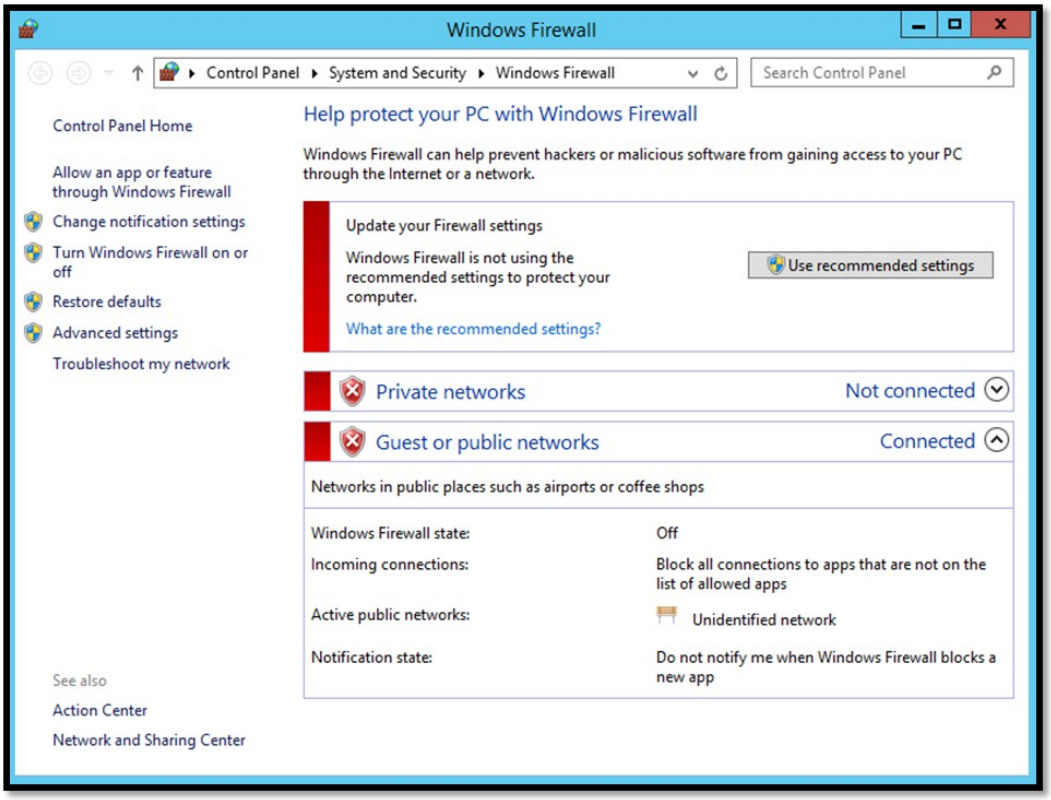


Login to Windows Server and enable the Firewall.

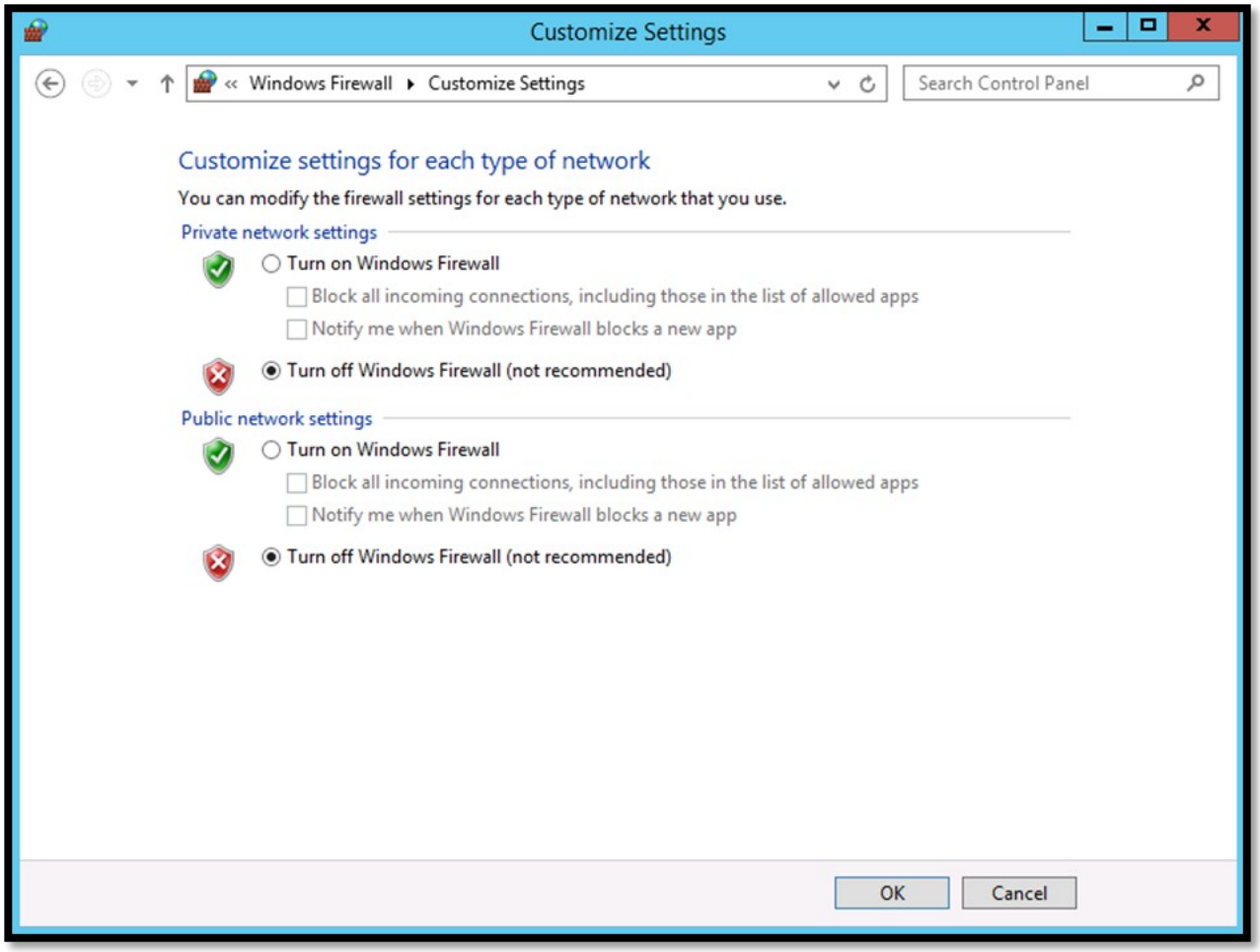
Click on the Start button and write Firewall.



Click on Windows Firewall and the Windows Firewall window will be revealed.

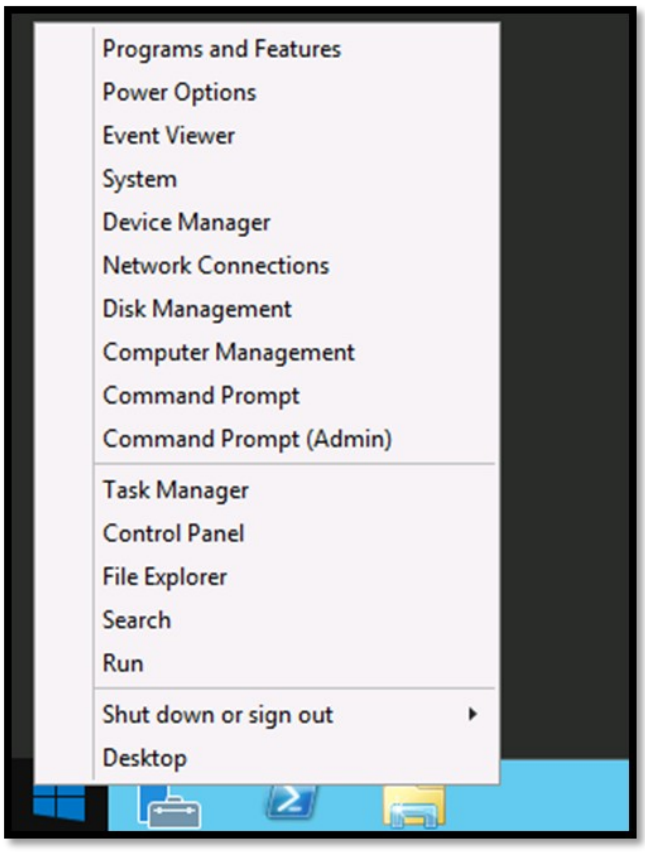


From the Windows Firewall window click on “**Turn Windows Firewall on or off”** and the Customize Settings window will be shown.

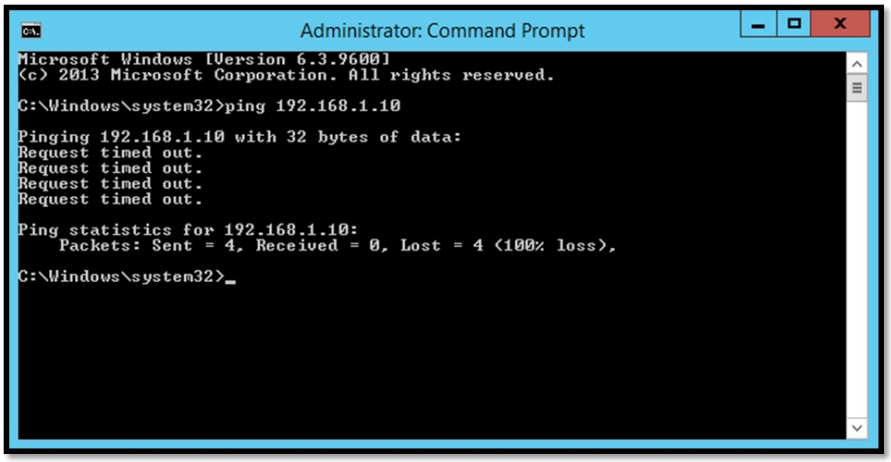


On the Customize Settings window of Firewall select both radio buttons “**Turn on Windows Firewall”** for Private and Public network settings and then click OK.

Right click on the Windows Server Start button and select Command Prompt (Admin).



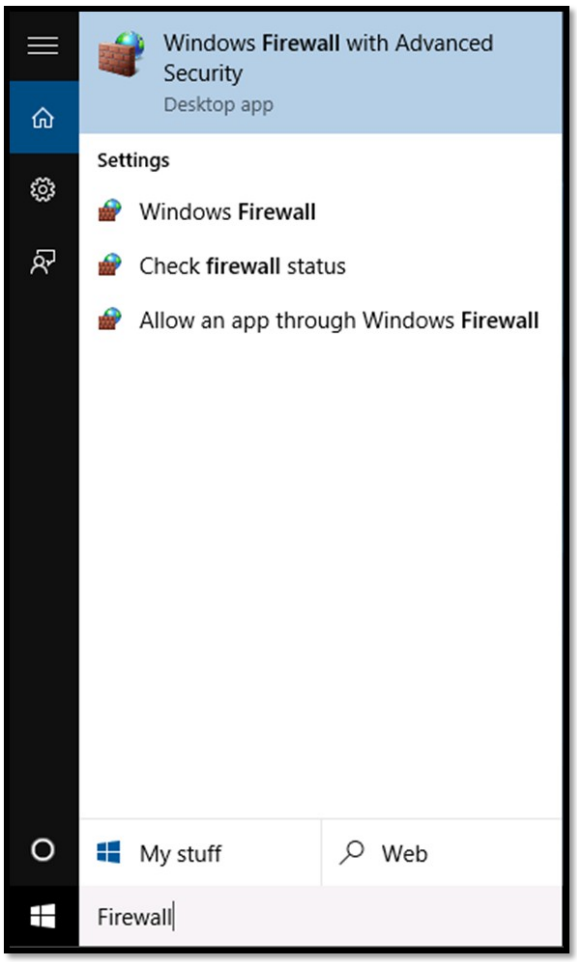
On the command prompt run the command ping 192.168.1.10.



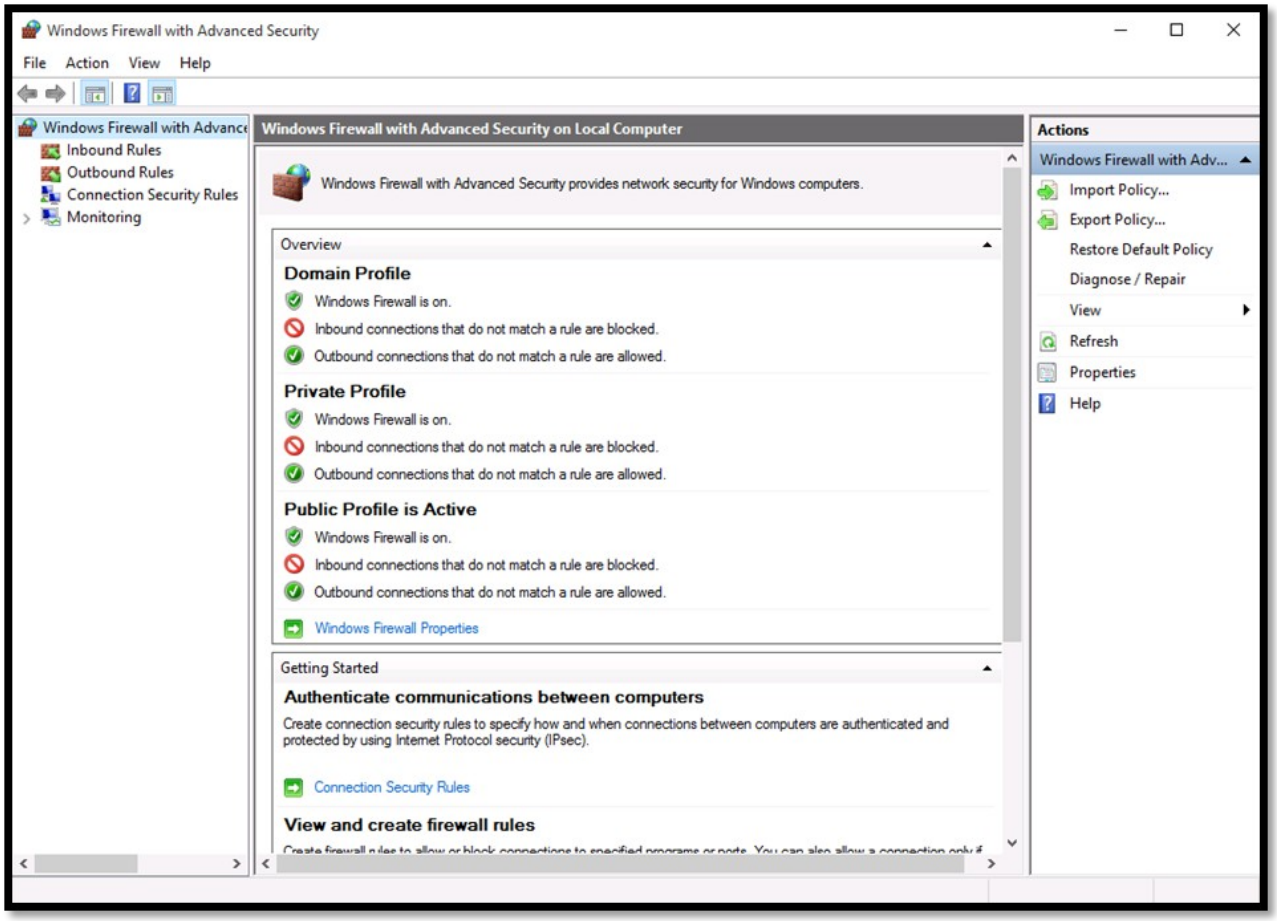
Because we have enabled the firewall, it blocks ICMP packets.

In Windows 10 Firewall enable the Inbound rule titled “File and Printer Sharing (Echo Request – ICMPv4-In)”

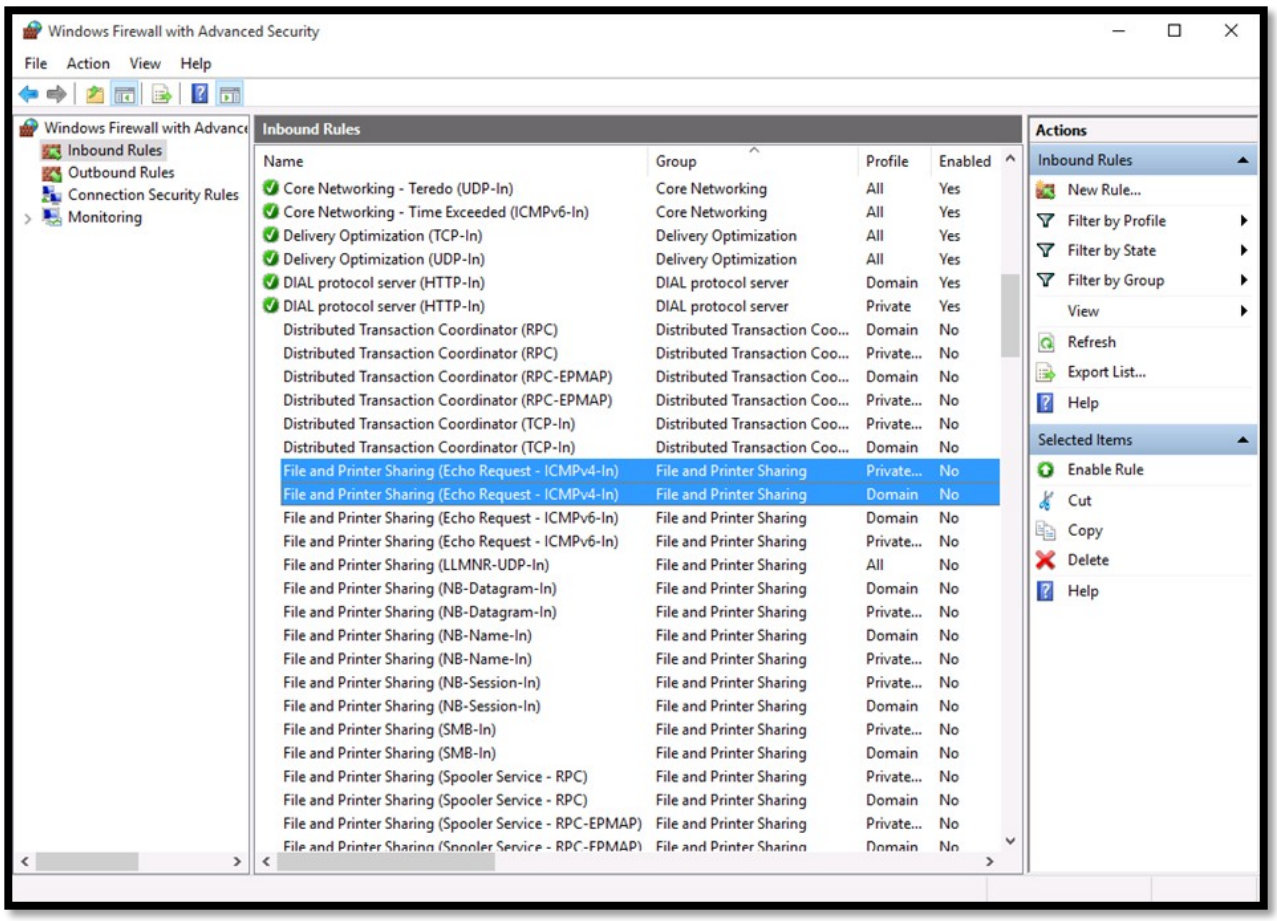
Click on the Start button and then write on the search box Firewall.

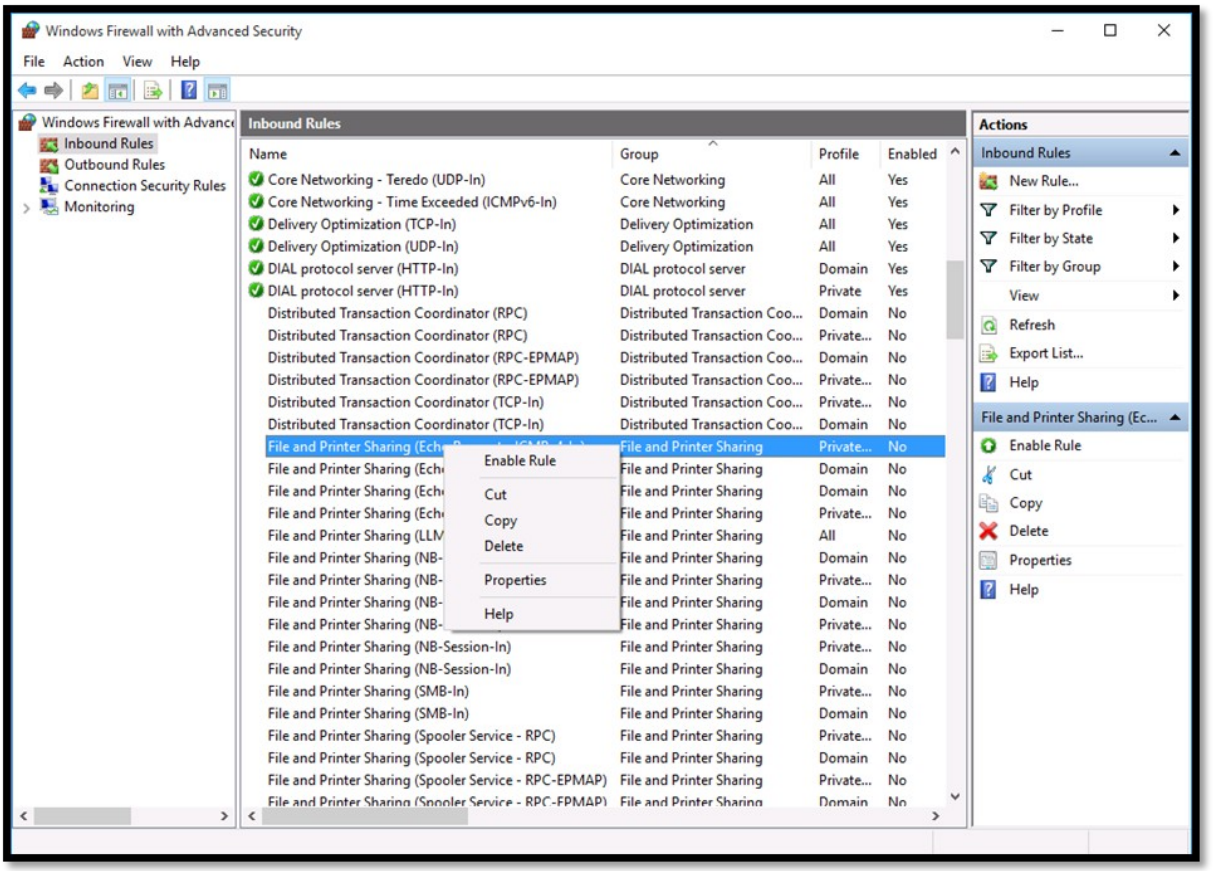


From the Windows Firewall window click on Advanced Settings and the Windows Firewall with Advanced Security will open.



Click on Inbound Rules and enable the rules File and Print Sharing (Echo Request – ICMPv4-In) for both profiles Private and Domain. Enable them by right clicking on each rule and select Enable Rule.


Windows Firewall with Advanced Security
File Action View Help
Windows Firewall with Advanc
Inbound Rules
Outbound Rules
Connection Security Rules
Monitoring
Inbound Rules
Name Group Profile Enabled
Core Networking - Teredo (UDP-In) Core Networking All Yes
Core Networking - Time Exceeded (ICMPv6-In) Core Networking All Yes
Delivery Optimization (TCP-In) Delivery Optimization All Yes
Delivery Optimization (UDP-In) Delivery Optimization All Yes
DIAL protocol server (HTTP-In) DIAL protocol server Domain Yes
DIAL protocol server (HTTP-In) DIAL protocol server Private Yes
Distributed Transaction Coordinator (RPC) Distributed Transaction Coo... Domain No
Distributed Transaction Coordinator (RPC) Distributed Transaction Coo... Private... No
Distributed Transaction Coordinator (RPC-EPMAP) Distributed Transaction Coo... Domain No
Distributed Transaction Coordinator (RPC-EPMAP) Distributed Transaction Coo... Private... No
Distributed Transaction Coordinator (TCP-In) Distributed Transaction Coo... Private... No
Distributed Transaction Coordinator (TCP-In) Distributed Transaction Coo... Domain No
File and Printer Sharing (Echo Request - ICMPv4-In) File and Printer Sharing Private... No
File and Printer Sharing (Echo Request - ICMPv4-In) File and Printer Sharing Domain No
File and Printer Sharing (Echo Request - ICMPv6-In) File and Printer Sharing Domain No
File and Printer Sharing (Echo Request - ICMPv6-In) File and Printer Sharing Private... No
File and Printer Sharing (LLMNR-UDP-In) File and Printer Sharing All No
File and Printer Sharing (NB-Datagram-In) File and Printer Sharing Domain No
File and Printer Sharing (NB-Datagram-In) File and Printer Sharing Private... No
File and Printer Sharing (NB-Name-In) File and Printer Sharing Domain No
File and Printer Sharing (NB-Name-In) File and Printer Sharing Private... No
File and Printer Sharing (NB-Session-In) File and Printer Sharing Private... No
File and Printer Sharing (NB-Session-In) File and Printer Sharing Domain No
File and Printer Sharing (SMB-In) File and Printer Sharing Private... No
File and Printer Sharing (SMB-In) File and Printer Sharing Domain No
File and Printer Sharing (Spooler Service - RPC) File and Printer Sharing Private... No
File and Printer Sharing (Spooler Service - RPC) File and Printer Sharing Domain No
File and Printer Sharing (Spooler Service - RPC-EPMAP) File and Printer Sharing Private... No
Actions
Inbound Rules
New Rule...
Filter by Profile
Filter by State
Filter by Group
View
Refresh
Export List...
Help
Selected Items
Enable Rule
Cut
Copy
Delete
Help


Windows Firewall with Advanced Security
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Delivery Optimization (TCP-In) Delivery Optimization All Yes
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DIAL protocol server (HTTP-In) DIAL protocol server Domain Yes
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Distributed Transaction Coordinator (RPC) Distributed Transaction Coo... Domain No
Distributed Transaction Coordinator (RPC) Distributed Transaction Coo... Private... No
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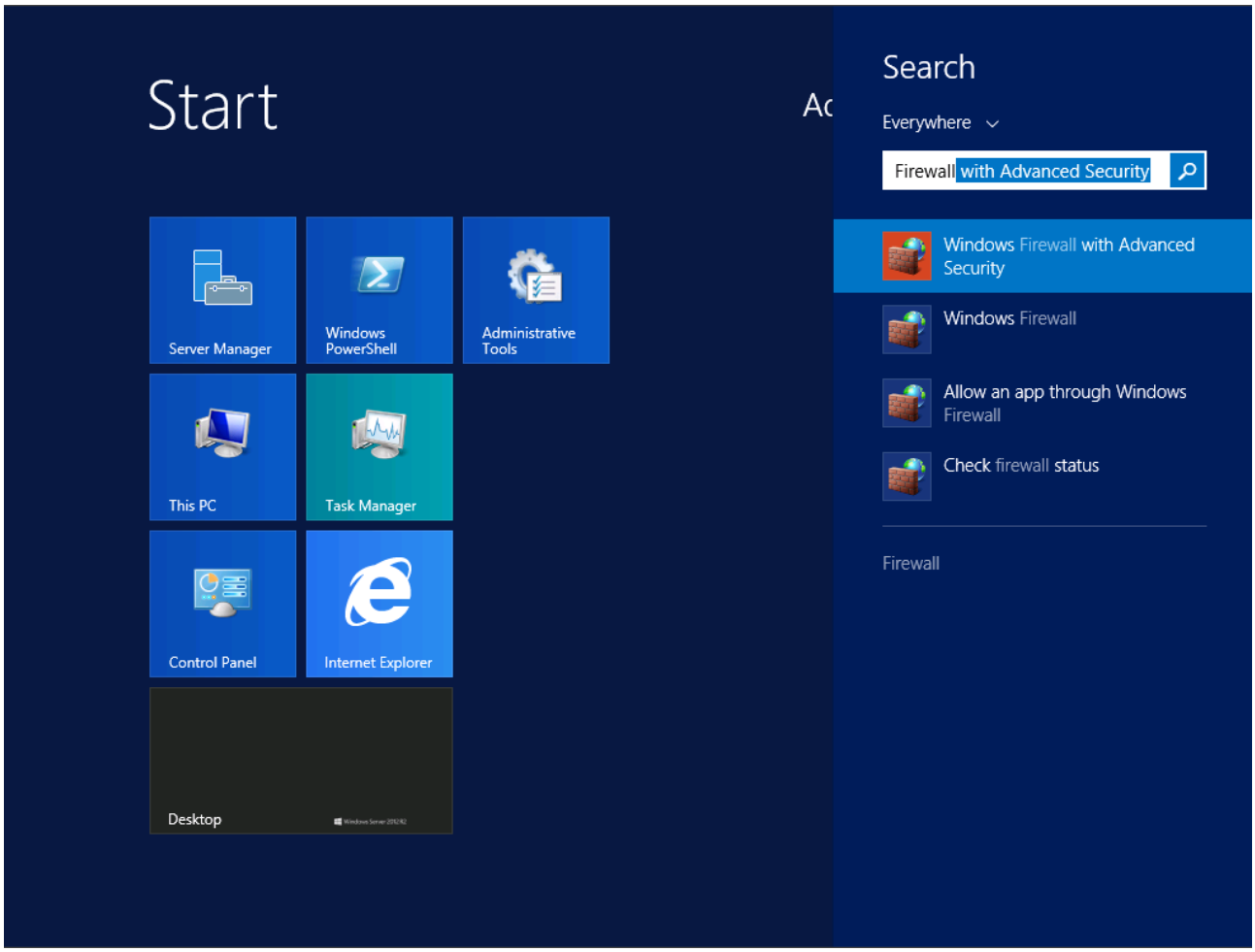
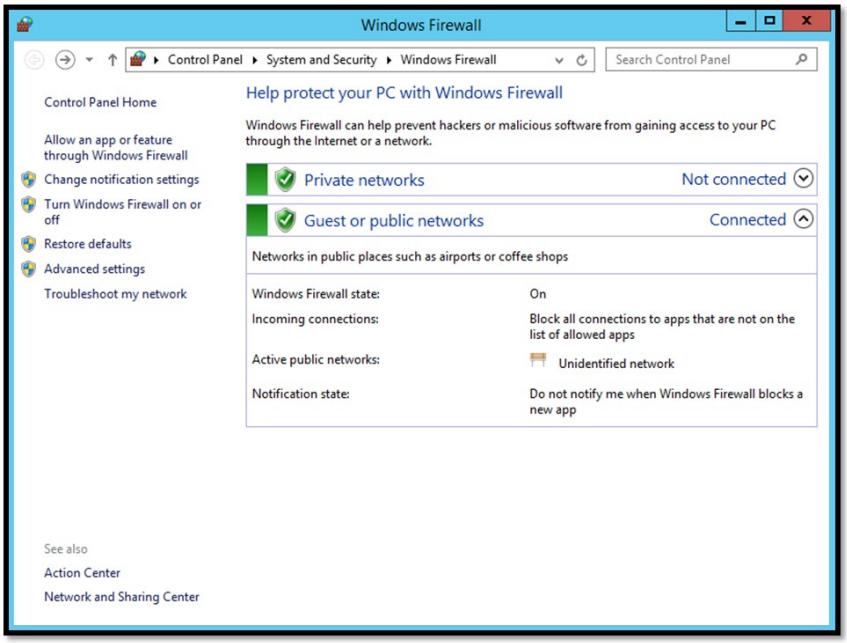
Distributed Transaction Coordinator (RPC-EPMAP) Distributed Transaction Coo... Private... No
Distributed Transaction Coordinator (TCP-In) Distributed Transaction Coo... Private... No
Distributed Transaction Coordinator (TCP-In) Distributed Transaction Coo... Domain No
File and Printer Sharing (Echo Request - ICMPv4-In) File and Printer Sharing Private... No
File and Printer Sharing (Echo Request - ICMPv4-In) File and Printer Sharing Domain No
File and Printer Sharing (Echo Request - ICMPv6-In) File and Printer Sharing Domain No
File and Printer Sharing (Echo Request - ICMPv6-In) File and Printer Sharing Private... No
File and Printer Sharing (LLMNR-UDP-In) File and Printer Sharing All No
File and Printer Sharing (NB-Datagram-In) File and Printer Sharing Domain No
File and Printer Sharing (NB-Datagram-In) File and Printer Sharing Private... No
File and Printer Sharing (NB-Name-In) File and Printer Sharing Domain No
File and Printer Sharing (NB-Name-In) File and Printer Sharing Private... No
File and Printer Sharing (NB-Session-In) File and Printer Sharing Private... No
File and Printer Sharing (NB-Session-In) File and Printer Sharing Domain No
File and Printer Sharing (SMB-In) File and Printer Sharing Private... No
File and Printer Sharing (SMB-In) File and Printer Sharing Domain No
File and Printer Sharing (Spooler Service - RPC) File and Printer Sharing Private... No
File and Printer Sharing (Spooler Service - RPC) File and Printer Sharing Domain No
File and Printer Sharing (Spooler Service - RPC-EPMAP) File and Printer Sharing Private... No
Enable Rule
Cut
Copy
Delete
Properties
Help
Actions
Inbound Rules
New Rule...
Filter by Profile
Filter by State
Filter by Group
View
Refresh
Export List...
Help
File and Printer Sharing (Ec...
Enable Rule
Cut
Copy
Delete
Properties
Help

In Windows Server enable the Inbound rule titled “File and Printer Sharing (Echo Request – ICMPv4-In)”.

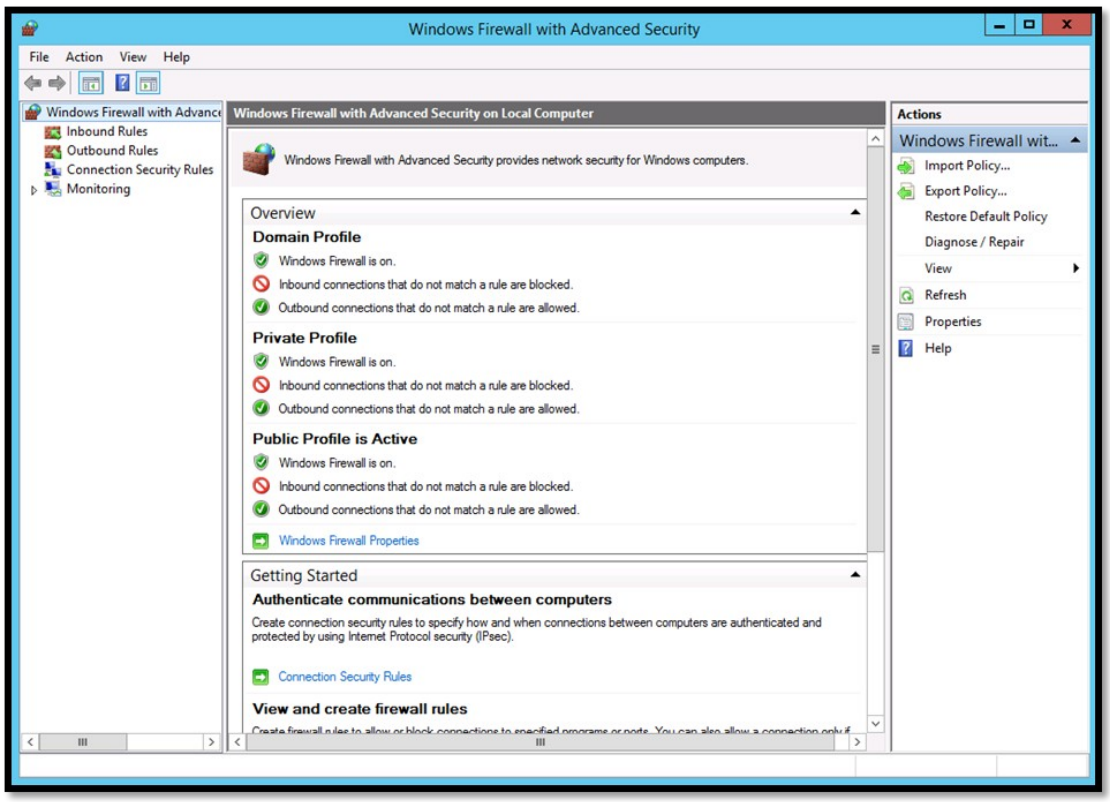
Click on the Start button and write Firewall.



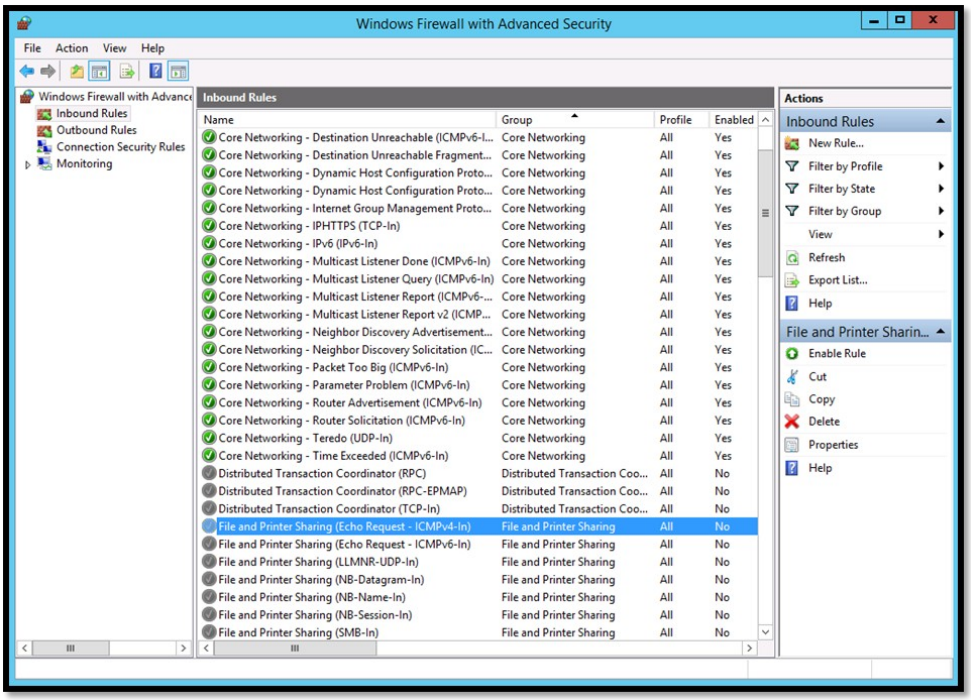
Click on Windows Firewall and the Windows Firewall window will be revealed.

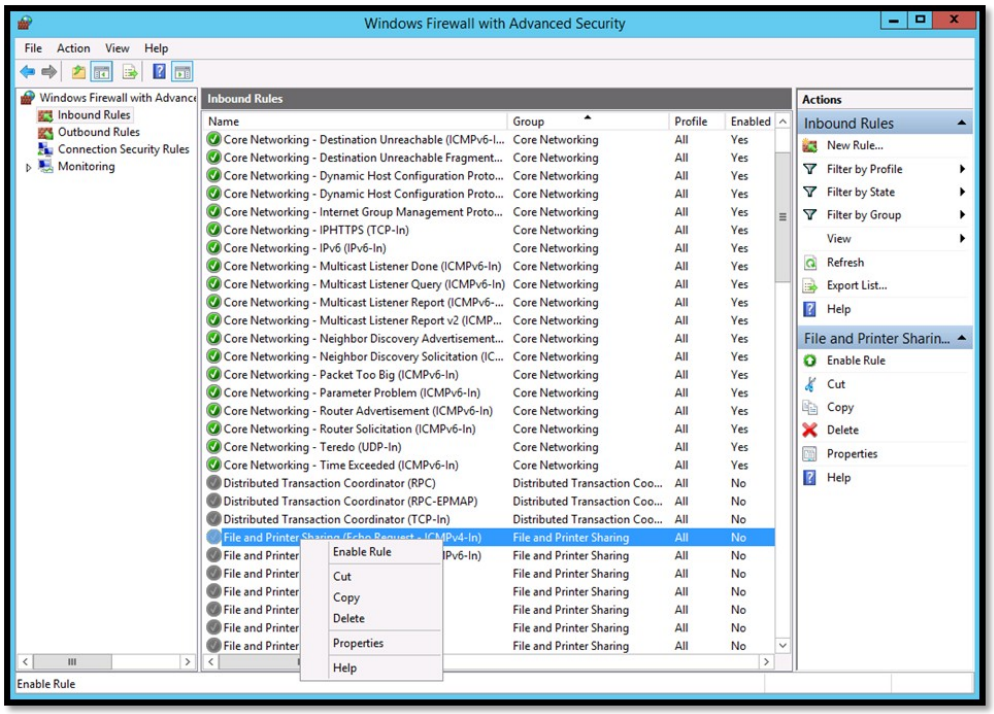


Click on the Advanced Settings and the Windows Firewall with Advanced Security window will open.



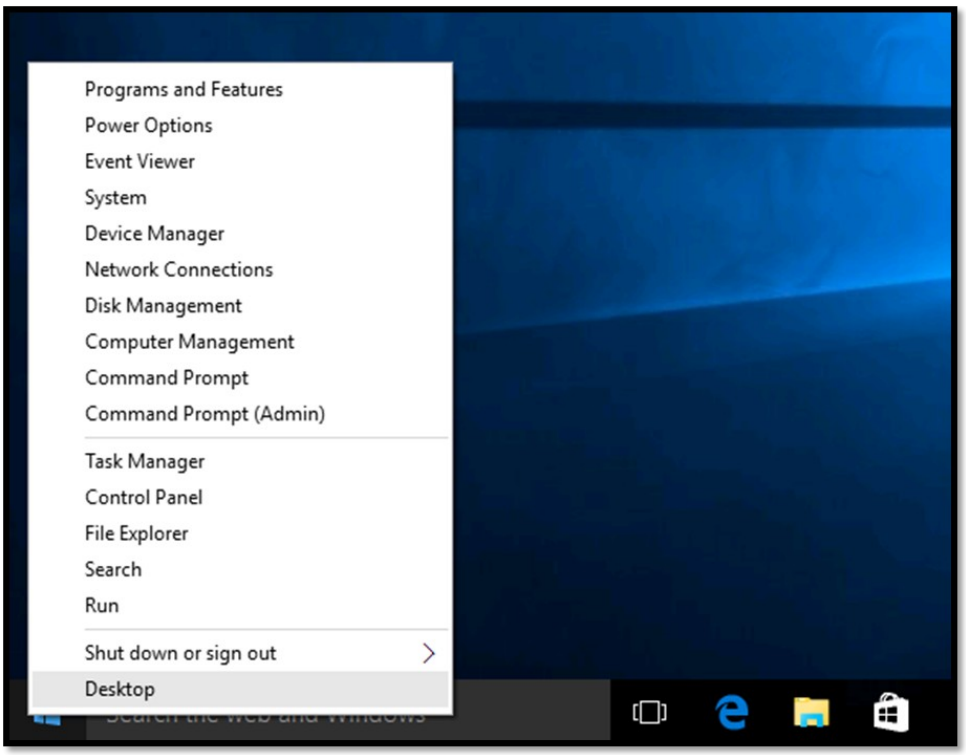
Click on Inbound Rules, select the rule “File and Printer Sharing (Echo Request – ICMPv4-In)” and enable it.

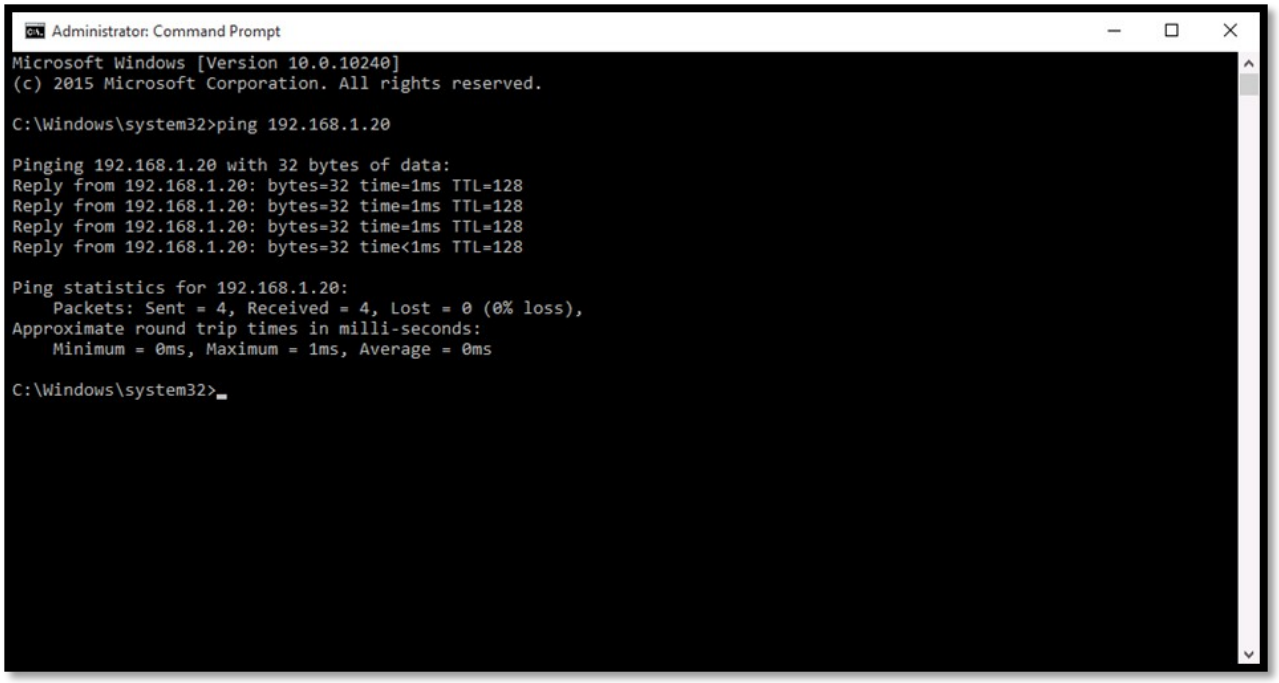




In Windows 10 use the ping command to ping Windows Server (192.168.1.20)

Right click on the Start button and click on “Command Prompt (Admin)” and then Yes on the pop up window.





The server replies to the ICMP pings because we have enabled the rule on the Firewall.