

The logo for PB Software, LLC is located in the top left corner. It consists of the text "PB Software, LLC." in a yellow, sans-serif font, set against a blue rectangular background. The text is slightly shadowed, giving it a 3D appearance as if it's floating above the background.

We at PB Software are committed to the development of the most productive, efficient, and reliability focused software. Our product such as KeepAlive Pro is geared for the corporations who would like the software that they are running to restart when they fail or in a "non-responding" state. Our Network Traffic Generator and Monitor is the newest addition to our line of products for testing telecommunication services, devices, and networks. NTGM or Network Traffic Generator and Monitor can test TCPIP,UDP,AND ICMP. NTGM has the ability to stress most networks so that a true measurement can be taken by our Network Monitor. The Network Monitor can display most anything there is to monitor on the network or server. We have taken years to develop NTGM, and we hope you enjoy our product.

### **Major Applications:**

- IP Traffic Generation and Measurements on many types of IP Networks
- UDP Traffic Generation and Measurements
- Each Installation of NTGM provides the use of 20 TCPIP Servers, 20 TCPIP Clients. Each server can talk to numerous clients installed on other servers or PCs. We have seen over 30 connections test with our product. It can do much more than this number.
- Included in each NTGM installation, are 20 UDP Generators, 20 UDP Clients, and a ICMP Ping Utility where many instances can be started.
- Each installation also includes the Network Traffic Monitor.
- All components can be run in automatic mode, meaning set the auto send configuration to 1 to 60000 Milliseconds on any of the clients.
- Many visual displays of the data sent to and from the clients to the servers.

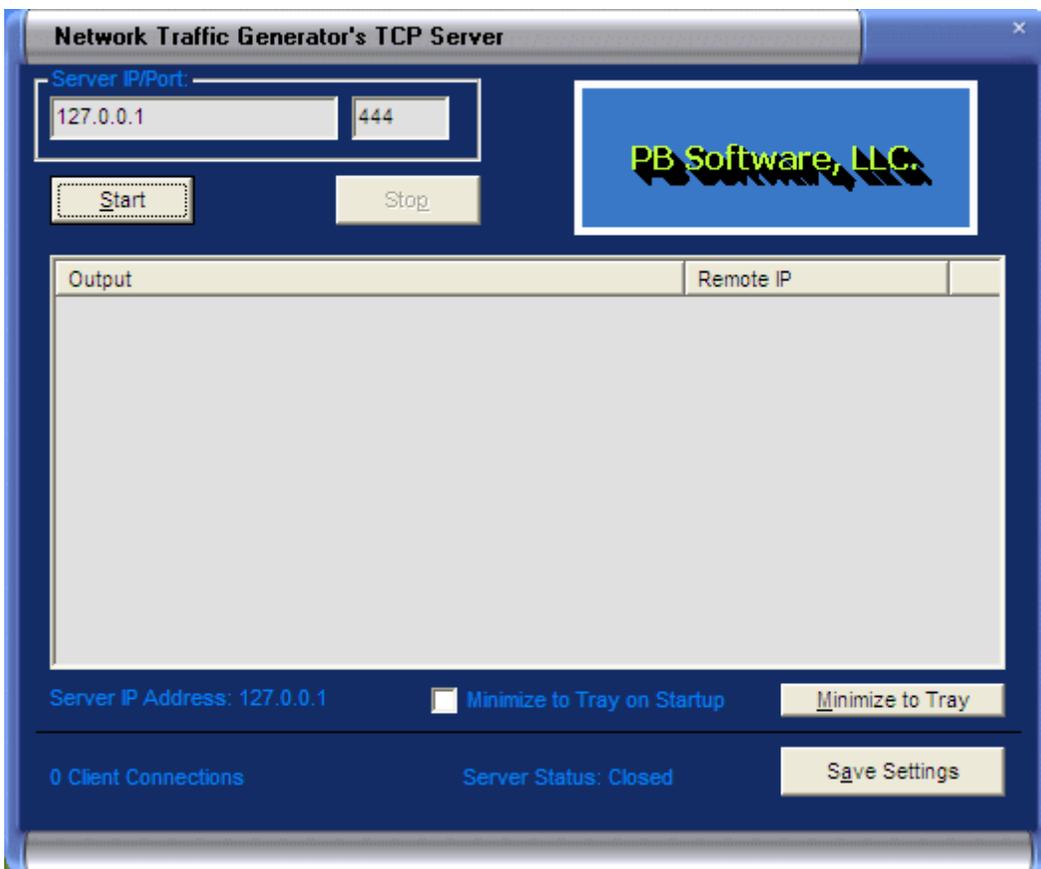
### **Setup Instructions:**

**The main purpose of the TCP and UDP components are to send traffic between multiple servers or PCs. The server and client components must be installed on separate servers or PCs to complete round trip testing. For instance, if you have two servers that you want to pass traffic between, install the server on one and the client on the other. Match the client ip address to the server address and proceed with the following instructions.**

Each server or PC that you want to be part of the testing, NTGM needs to be installed. This gives you limitless scenarios.



- Start NTGM, the Monitor will be displayed with all the servers and clients displayed.
- Pick one of the servers, it will automatically display the IP address of the server that it has been installed in.
- Start the TCP Server.

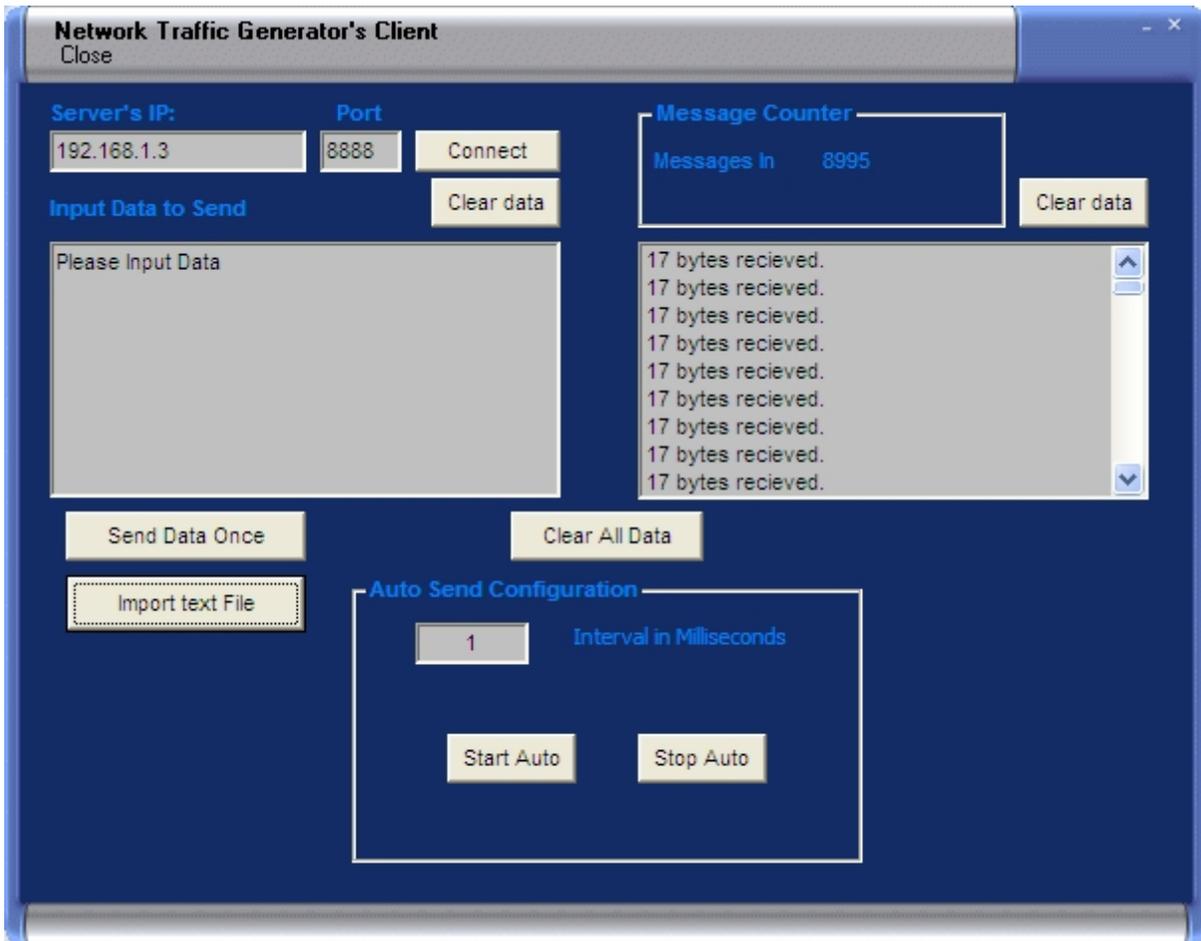


- This is a display of a TCP Server agent out of 20 possible server agents to be running on a server.
- Since the Server IP/Port is already determined, please enter a port number that is not blocked by a firewall. If the server and client can not connect, it is always because the port is not open or the port is being blocked by a firewall.
- Hit the "Save Port Setting" button
- Now hit Start.

- There is an option to minimize the server to the tray.

Note: The TCP Servers can handle multiple clients. The UDP Server can only handle one UDP client at a time.

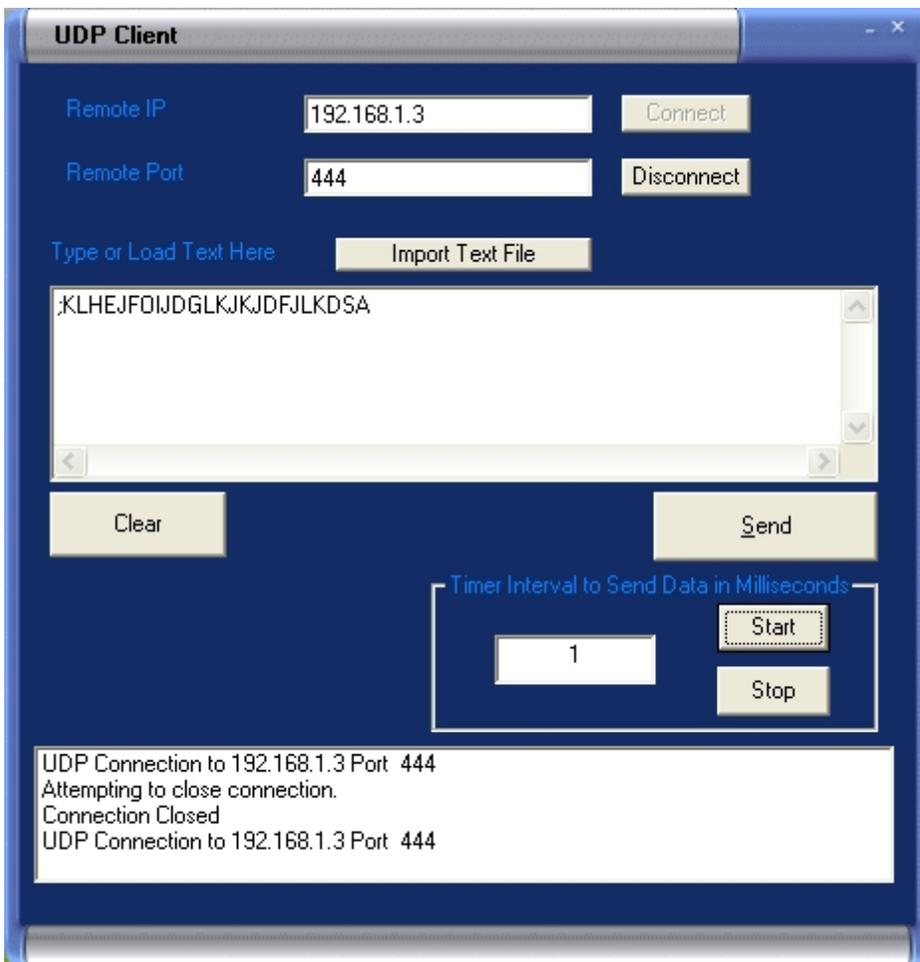
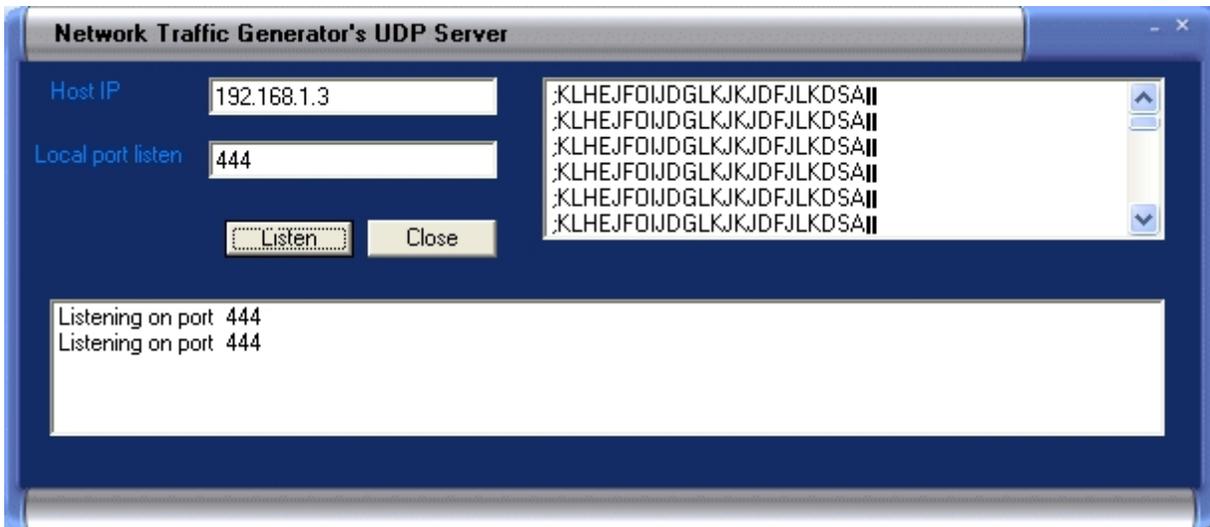
Now we must start a TCP Client.



- Enter the address of the server's IP Address, which can be found on server component #1 that was just started by you.
- Enter the same port address that you entered in the server component #
- Hit the connect button
- There are two options for sending data. You may type your own text the "Input Data to Send" box, and use that data to send once or use the auto send configuration.
- There are some pre-made text files, hit the Import Text File button and it will display many text files to load in the data box. These are labeled by size. Again, you may opt to send it once or use the Auto Send Configuration. Most people use the auto send feature. 1000 equals one second, 10000 equal 10 seconds. You may input all the way to 60000

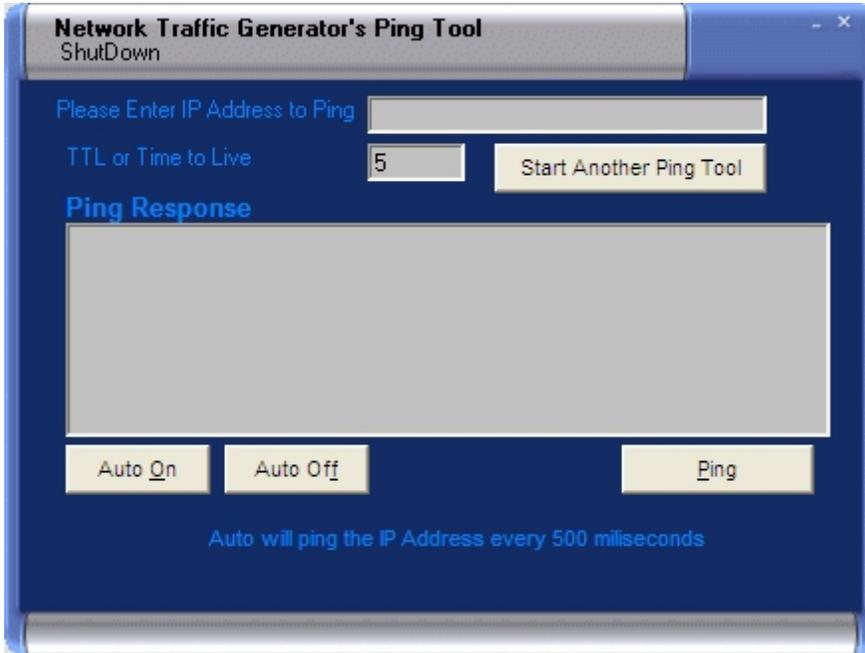
Milliseconds or 1 minute intervals.

For the UDP Server or Client configuration it follows almost the same as the above instructions.

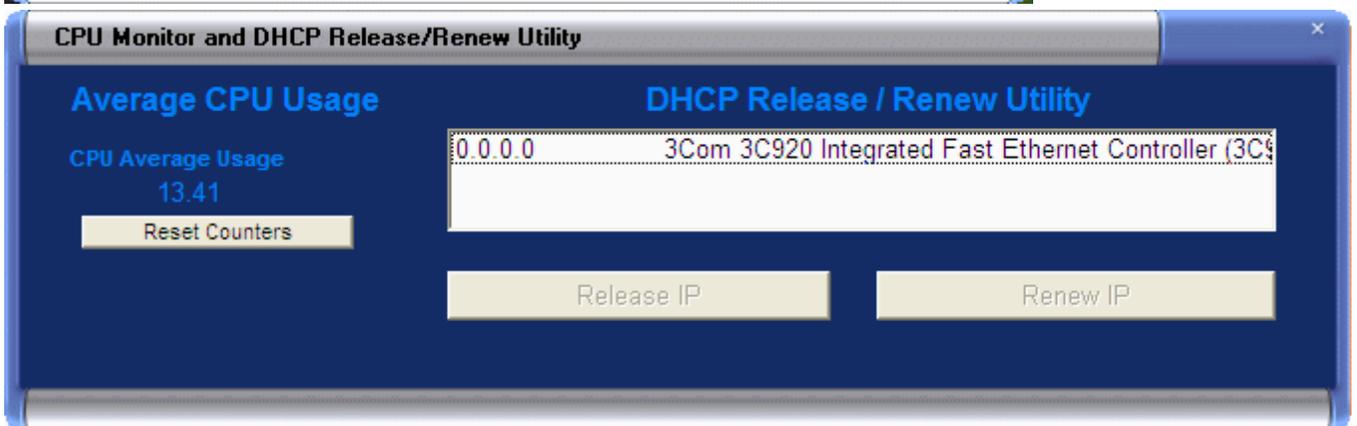
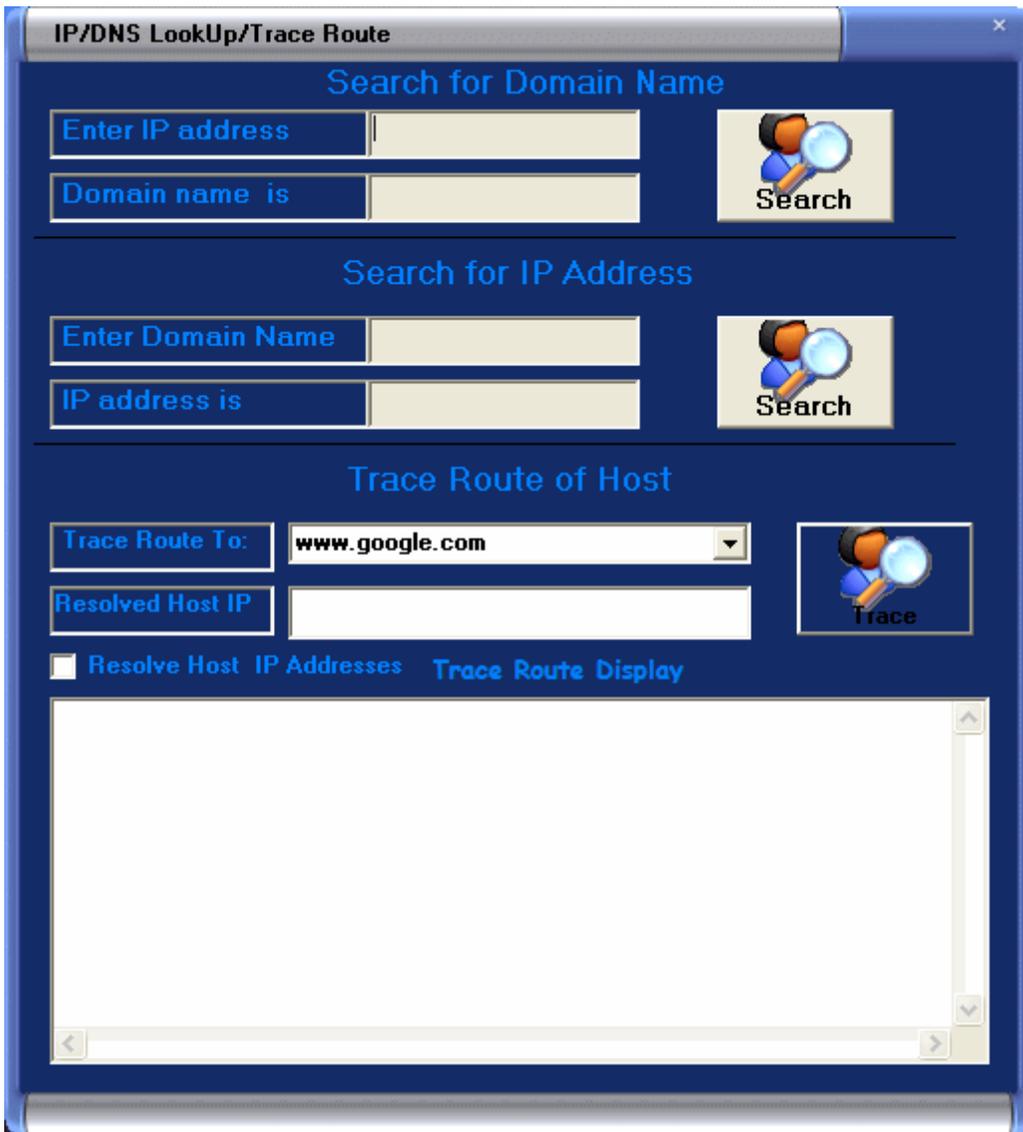


The Ping Tool can be set to auto ping or have the user control the ping

interval.



The tools section consists of IP and CPU Utilization Tools. Please refer to the screen shots below.



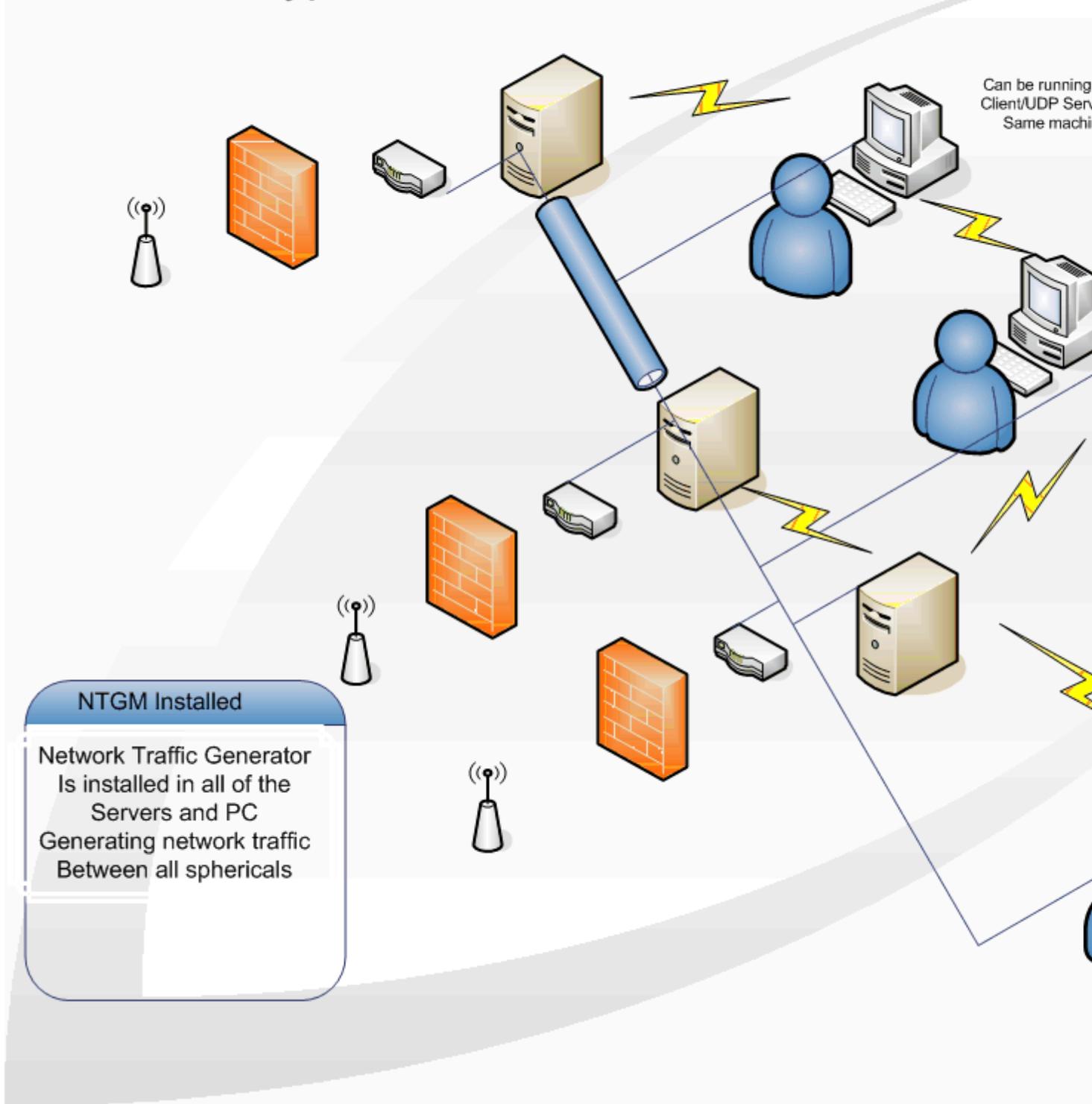
**Standalone TCPServer.exe** (Can be installed on multiple PCs or Servers as a ready-made testing point)

A standalone TCPServer.exe is included in the zip file. This TCPServer.exe can be installed manually at many PCs and can be configured to startup in the

tray with a preconfigured port number. The saved portnumber is stored in the PC or Server registry. If you would like the TCPServer.exe to startup when the PC boots, just place it in the windows startup directory. The individual settings for each server has to be manually set, to save it to the registry. The two settings are start in tray, and port number.

Below is a system diagram for a proposed installation for testing. This is made to give a visual display.

# Typical Network Traffic Generator Config



You are done! Thank you for the interest in our product. Please pass it on to others.

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