
Ping Tool

Introduction and Features

The Kane Security Analyst main menu bar consists of six options. The **Ping Tool** is located under **Add-Ins** on the main menu in the **Network Tools** group.

The **Ping Tool** allows you to determine if you have an active communications connection between two computers. The **Ping** is an echo back from a computer acknowledging that it received the **Ping** message from another computer.

The following are the key features of this tool:

- The **Ping Tool** has a full-fledged user interface that helps you to effectively use the tool.
- The **Ping Tool** ships with flexible customization options. The Options include **Time Between Packets**, **Number of packets sent**, **Ping continuously**, and how long until **Ping time-out**.
- After completion of a Ping Activity, the tool generates comprehensive statistics that include number of packets sent, number of packets received, % loss, and so on.
- This tool is tightly integrated with Kane Security Analyst, that is, the tool can be invoked only through Kane Security Analyst and it cannot be invoked separately.
- In the Evaluation version, the tool expires along with Kane Security Analyst.

Startup

Use the following steps to start the **Ping Tool**:

- Step 1** Start the **Ping Tool** by selecting **Add-Ins** on the Analyst main menu, then select **Network Tools>Ping**. The **Ping** window shown in Figure 1 displays.

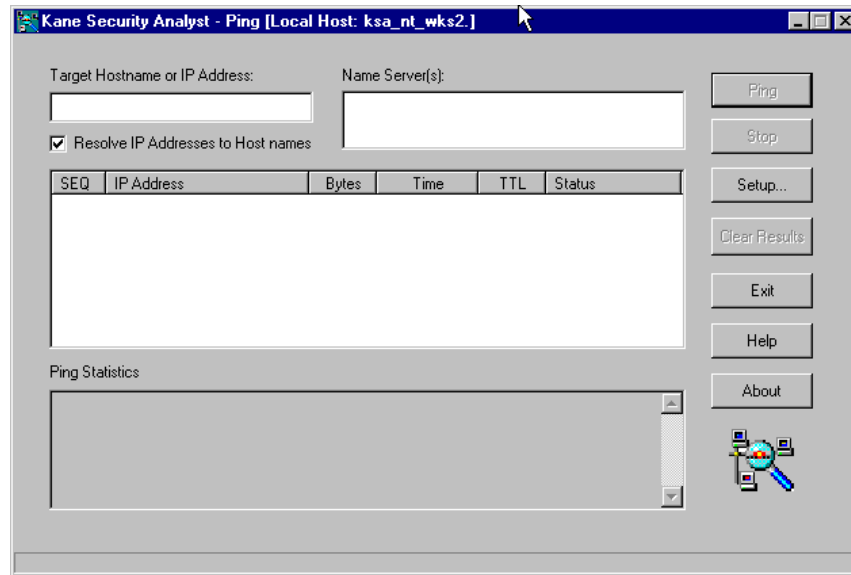


Figure 1 Network Tools Ping Window

Step 2 Click the **Setup** button to display the KSA **Ping Setup** window in Figure 2.

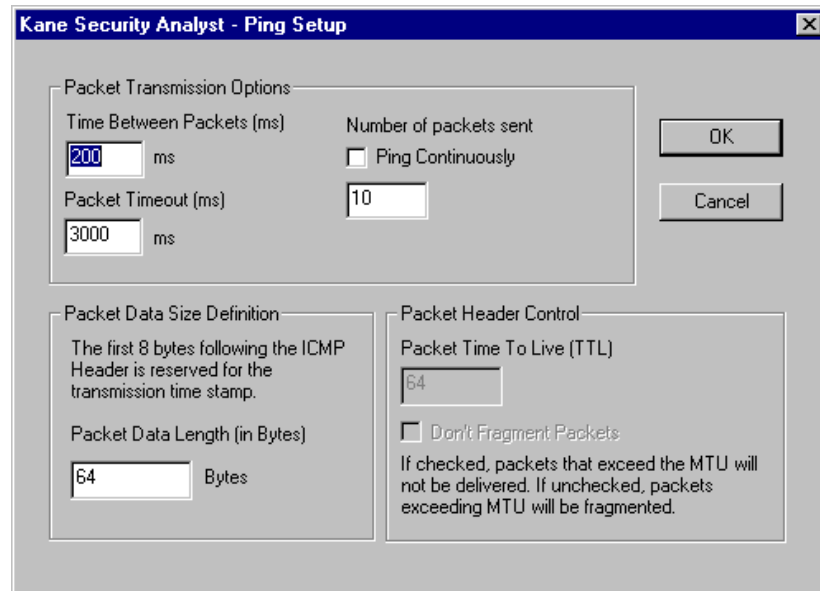


Figure 2 Network Tools Ping Setup Window

The **Ping Setup** window lets you choose such things as **Time Between Packets**, **Number of packets sent**, **Ping continuously**, and how long until **Ping time-out**.

Time Between Packets (ms): Represents the time between ICMP_ECHO packets (1 – 5000 ms)

Packet Timeout (ms): Timeout between packet sent and packet received (1 – 30000 ms)

Ping Continuously: Pings a host repeatedly

Number of Packets sent: If this is specified, a precise number of ICMP_ECHO packets are generated

Packet Data Size Definition includes:

Packet Data Length (in Bytes): The data portion of the packet (8 – 16384 bytes)

Packet Header Control: Not applicable; always grayed out.

Step 3 After you finish setup on the **Ping Setup** window, click **OK**.

Step 4 On the main **Ping Tool** window, type in a target host name or IP address.

You can enter the target machine's IP Address in a.b.c.d notation or as a host name. The **Ping Tool** displays the list of name servers which it will use to resolve the host name into a valid IP Address. (This name list is limited to a maximum of two: Primary and Secondary DNS servers.) You can have an IP address resolved automatically and displayed as a name by clicking on the checkbox for **Resolve IP Addresses to Host Names**.

- Step 5** After you type in a name or IP address, the **Ping** button is activated. Click **Ping** to start.
- Step 6** Click **Stop** to stop. You can also **Clear Results** and start again or **Exit**.
- Step 7** Click the **About** button to view copyright and version information for the **Ping Tool**.
- Step 8** Click the **Help** button to view the **Ping Tool** online help information.

Statistics about the Ping Operation

Once a **Ping** operation is complete or you stop the tool, the tool displays the necessary overall statistics. This includes number of packets sent, number of packets received, % loss (number sent – number received)/number sent * 100) and the average Round Trip Times.

Display of the Results

Once a **Ping** operation is complete, the tool displays the results of the operation. The results include ICMP sequence numbers, time stamps, number of bytes in the returned packet, and so on as follows:

SEQ: ICMP sequence number; sequence number on the packets received

IP Address: IP address on the received packet

Bytes: Number of bytes on the received packet

Time: The Round Trip Time (computed based on the time stamp differences between sent and received packet)

TTL: Time-To-Live on the received packet

Status: Indicates the status of the operation.

Echo Reply: Host is reachable

Request Timed Out: Host is unreachable.

A typical **Ping Tool** results window is shown in Figure 3.

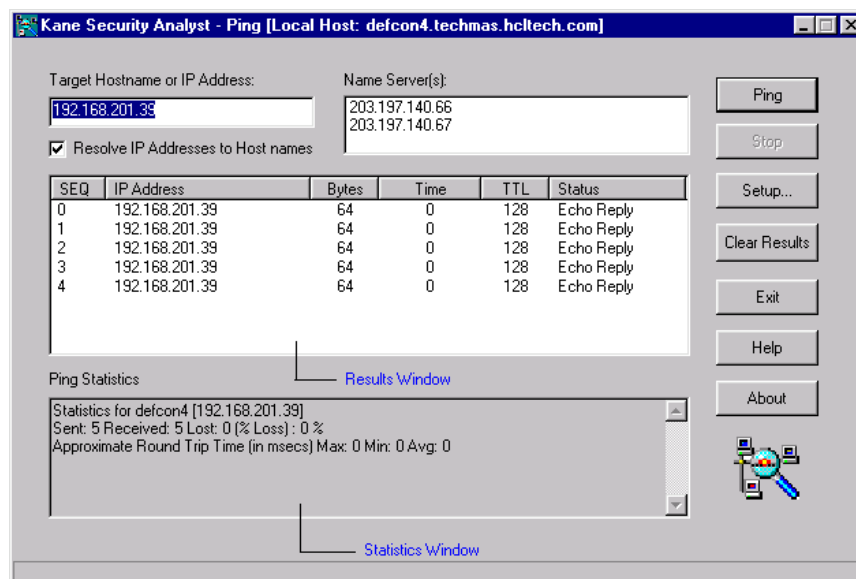


Figure 3 Typical Ping Tool Results Window

