

PinsTer Ping Sensor

Author: - TinToSer (<https://github.com/TinToSer/>)

A multi-threaded high-performance Ping sensor for directly pinging multiple nodes in a Network. The tool has been developed in GO and HTML language. The network device's pinging status can be visualized in web browser, the web page auto refreshes to get the real-time status.

Folder Structure: -

Name	Date modified	Type	Size
InVisible	30-Jun-20 6:27 PM	File folder	
index.html	30-Jun-20 6:31 PM	Firefox HTML Doc...	1 KB
iplist.txt	30-Jun-20 10:27 AM	Text Document	2 KB
kill.bat	30-Jun-20 1:58 PM	Windows Batch File	1 KB
PinsTer.exe	30-Jun-20 3:59 PM	Application	10,024 KB
PinsTer-Ping_Sensor.pdf	30-Jun-20 7:26 PM	PDF Document	198 KB
start.bat	30-Jun-20 1:59 PM	Windows Batch File	1 KB

Working: -

If you directly open "PinsTer.exe" in terminal windows, then you are prompted with help as shown below in Fig.1.

There are two versions available.

1. Visible - when you run this version then it will stick to the terminal window. So, when you close the terminal window then it will close. This version allows to see errors when you are tinkering "index.html" file. Default is, Visible version which is in the folder
2. Invisible - when you run this version then it will not stick to the terminal window. So, even when you close the terminal window then it will remain running in the background.

```
PS C:\Users\SERVER-PC1\Desktop\Ping_Sensor> .\pinster
Usage:-
PinsTer.exe Web-Server(ip:port/L) Packet-Count(Integer) Sleep-Time(s) IP-list-file
...by:https://github.com/TinToSer
```

Fig. 1

Web-Server(ip:port/L) :-The web interface is for monitoring the pinging status in web browser. If you don't want then use the argument "L" in the "start.bat" file instead of "IP:Port" for web interface.

Packet-Count (Integer): - It's the number of ICMP packet sent to check the pinging status

Sleep-Time (s): - It's the time of sleep between each cycle of complete scan of given IP Address list

IP-list-file: - It's a text file with IP addresses and Device name in proper format

To start the program simply modify the parameters and run "start.bat" by double clicking it.

Or Manually follow the help in Fig.1

Ex: -

PinsTer 127.0.0.1:4200 1 1 "C:\Users \Ping_Sensor\iplist.txt"

To kill the program simply double click "kill.bat".

"iplist.txt" is an example file containing IP list in vertical order.

Rule: -

For IP Address and device name: -

IP Address:=Information String

Remember: - **There should not be any space between IP Address, Information String and ":=**

For only IP Address: -

IP Address

If you don't write Device name then by default "—N.A—" will be inserted in place of Device Name

Ex: -

192.168.1.1:=PC Name

Or

192.168.1.1

"index.html" file has HTML code which can be configured according to your flavour. At present I have designed a basic one.

The web-Page auto refreshes, so you can change the refreshing time(s) by opening "index.html" file in text editor and changing the number "4" as shown below.

```
<meta http-equiv="refresh" content="4">
```

Here "4" is four seconds.

Before changing the HTML template do keep in mind, the special variables used.

For Advance Users: -

The software writes the device status in a file "PinsTer_XXXXX.dkm" in temporary directory of windows. Here XXXX is the PC name. See Fig .2

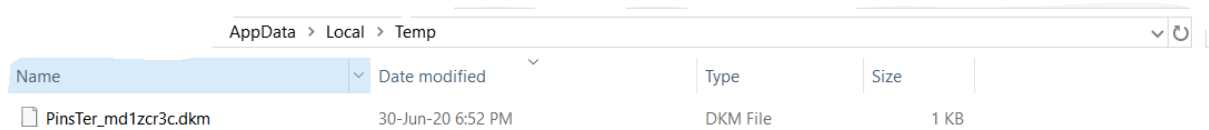


Fig. 2

You can simply parse this file using whatever you want to read and get the status of Network nodes see Fig. 3.

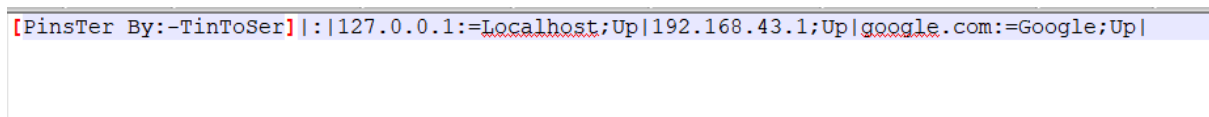


Fig. 3

How: -

You can first split the read data at "|:|" and then take the second element of array. Now split at "|" to get array of IP-Info:status. Further split at ":" to get device IP-Info, Status and so on.

Remember that the update interval of file is the time interval which you specify in "**Sleep-Time (s)**" argument.

Uses: -

- All Networking related task where bulk debugging is required
- SCADA/HMI representation
- Penetration Testing
- Network Representation in HTML
-Now you can think 😊

-----Thanks-----

References: -

<https://github.com/sparrc/go-ping>