NetScanTools® Pro
Monthly Newsletter
www.netscantools.com

December 2016

[t] http://twitter.com/netscantools

[f] http://www.facebook.com/NetScanTools

[You Tube] http://www.youtube.com/user/netscantools

[rss] http://netscantools.blogspot.com/

In this newsletter:

News
- **NetScanTools Pro 11.81 released Dec 16, 2016**
- **NetScanTools.com Website Redesign**
- **Switch Mapping Diagrams**
- **Changes to NetScanTools Pro Check for New Version Links**
- **Managed Switch Port Mapping Tool 2.72 released Nov 10, 2016**
- **ipPulse 1.90 Released October 26, 2016**
- **NetScanTools Products and Windows 10**

News...

From the Editor...

In order to address a zero day flaw Microsoft changed the way links are opened from embedded browser windows. The topic "Changes to NetScanTools Pro Check for New Version Links" addresses this change. Watch for the NetScanTools.com website redesign.

Happy New Year!

-Kirk

NetScanTools Pro 11.81 released Dec 16, 2016

This version has significant changes to the SNMP Scanner and ARP Scanner. The SNMP Scanner now has three new columns that you can populate with a specific OID query to the responding targets. Use this for serial or model numbers or whatever you need. The ARP Scanner has a new column that gives you a way to make notes or comments about a specific device. The notes are tied to the MAC address so they will reappear every time that MAC address is seen regardless of the current IP address.

Important fixes: we removed the requirement to have VC++ 2013 runtime installed. We also created a functionally equivalent for the broken GetBestRoute IP Helper API function on Windows 10.

Additional changes were made to assure that the selected WinPcap interface is the correct one for monitoring or sending packets to the targets. Those changes depended partly on a functioning GetBestRoute and now it works right.

We are also working to be sure that npCap (from the nmap project) can be successfully used as long as it is installed in 'WinPcap compatibility' mode.

There are a number of other smaller changes and fixes.

Please update soon. You will need an active maintenance plan to do so. Click on Help/Check for New Version for the download links to the full installer. USB users are downloading an upgrade patch.

Speaking of the full installer – save it in a safe place and replace any <u>old</u> versions. We constantly run across users who have reinstalled or moved their software to a new computer and they do so by using an <u>old</u> installer. Sometimes the installer is many, many versions older - so SAVE the latest one and <u>discard the old ones</u>!

11.81 Release Notes

- Removed the requirement for using Visual C++ 2013 runtime.

- ARP Scanner: new comments column. Comments are saved by MAC address - allows you to add a friendly name of the target or something more descriptive than the IP address.

- ARP Scanner, Promiscuous Mode Scanner, ARP Ping, Duplicate IP Scanner now have improved checks to confirm target is on same subnet as the outgoing interface.

- DNS Core and DNS Advanced now have buttons to give you quick access to the other DNS tool.

- DNS Traffic Monitor: fixed startup interface selection problem for when more than one interface is present.

- Packet Viewer: change for systems using npCap (from nmap) instead of WinPcap to allow longer time for capture file to close before using it to update display.

- Passive Discovery: improved capture filter sanity checks.

- SNMP Dictionary Attack (accessed from SNMP Advanced Tool): added tests to verify selected WinPcap interface can receive packets from the target. Heading columns now shown on opening of previously saved XML results.

- SNMP Scanner (accessed from SNMP Advanced Tool): added tests to verify selected WinPcap interface can receive packets from the target. Heading columns now shown on opening of previously saved XML results. Added three (3) new optional user defined OIDs to retrieve - press Settings to add them. SNMP error messages can now be optionally ignored. Improved retrieval of SNMP data after initial scan is complete.

- GetBestRoute IP Helper API function stopped working correctly with release of Windows 10 Anniversary Edition - a functional replacement has been added. This affects a number of WinPcap related tools.

- Increased WinPcap error buffer string size.

- Manifests have been added to assure version helper functions return correct information.

- Installer no longer automatically overwrites SNMP Dictionary Attack dictionary file.

- Compiled on Windows 10 Anniversary Edition.

- Updated SQLite to version 3.15.2

- Updated MAC address/Manufacturer database.

- Updated IP to Country database.

Code signing now uses both SHA256 and SHA1 for maximum operating system portability.

NetScanTools.com Website Redesign

As you are probably aware the NetScanTools.com website is very dated and based on Frontpage along with using Flash for ornamentation. This is changing right now. We are switching to Bootstrap just like the SwitchPortMapper.com website. We are using the Unity template from wrapbootstrap.com. Here are a few examples of pages already changed:
http://www.netscantools.com/newsletters.html
http://www.netscantools.com/download.html
http://www.netscantools.com/ssl-certificate-scanner-standalone.html
http://www.netscantools.com/freeware.html

Switch Mapping Diagrams

Are you interested in or currently using the Managed Switch Port Mapping Tool to create maps or diagrams of your network? We would like to hear from you – please email support [at] netscantools [dot] com.

Changes to NetScanTools Pro Check for New Version Links

A week after we released NetScanTools Pro 11.80 users began to report problems with downloading the NetScanTools Pro installation file. The problem was first observed on Windows 10 anniversary edition, however, it may have been migrated to other versions of Windows since it seems to be addressing a zero day vulnerability in embedded browser windows. The problem does not occur in standalone browsers.

Here is what happened prior to changes we made to the web pages: when you click on Help/Check for New Version the embedded web page loads as usual. If you click on any of the download links, a popup appears from the operating system asking you to 'switch to another app'. No matter what you select the only way out of it is to kill NetScanTools Pro in task manager.

Changes have been made to the embedded webpages themselves to force launching of a new browser window when the download links are clicked on. All previous versions of NetScanTools Pro 11 should now work correctly. You will still need to enter your access credentials when the new browser window with the download link opens.

Managed Switch Port Mapping Tool v2.72 Nov 10, 2016

This release and 2.71 a few days before had a few fixes, simplifications and a couple minor additions. The fix addressed the manner in which LAG/Trunk ports were calculated. Version 2.70 would crash during the port speed calculation on certain NXOS versions due to the naming convention in ifIndex. The problem was found and fixed. Another annoying issue was in the IP address column. In prior versions if there was more than one IP address assigned to a mac address entry, the second one would likely wrap around to the next line in the cell. The fix for this also speeded up the display of both the IP address and hostname columns.

The important simplification was the elimination of the need for having the Visual C++ 2013 runtime installed on the host computer. This also reduced the size of our installer because we did not have to include the runtime installer.

The minor addition was in the right click menu. Normally a left click in the results grid highlights the cell that was clicked on. The new menu option alternates between a single cell and the whole row being highlighted during the session. This is helpful when you have the application spread across more than one monitor.

Download the 'installed' version 2.72 from SwitchPortMapper.com and install it over the top of your current installed version.
http://www.switchportmapper.com/

USB version users need to use the Help Menu/Check for Update selection to obtain the upgrade patch.

Version 2.72 Release Notes. November 10, 2016
- Fixed problem where Link Aggregation (LAG) port speed calculations on certain Cisco Nexus switches would cause a crash.
- Changed the way the IP and Hostname columns are redrawn resulting in faster speed and elimination of a wraparound issue in the IP address subrows.
- Added new right click menu option to switch between highlighting a single cell in the results grid or the whole row.
- Updated MAC address/Manufacturer database.
- Code signing now uses both SHA256 and SHA1 for maximum operating system portability.

Version 2.71 Release Notes. November 7, 2016
- Removed the requirement to install Visual C++ 2013 runtime.
- Updated SQLite to version 3.15.1
- Updated MAC address/Manufacturer database.
- Code signing now uses both SHA256 and SHA1 for maximum operating system portability.

ipPulse 1.90 Released October 26, 2016

This release has the first major change in a long time – it can now retrieve a page from a web server, check the server status code and optionally look for the presence of static visible or hidden text. This new 'secondary' test is important because it can allow you to monitor the health of a web server and it can also help check for web page defacement. It supports both unencrypted http:// connections and secure https:// connections in addition to allowing you to connect to non-standard ports using this notation –
http://www.example.com:8080/somepage.html

Server Status Codes are normally '200 OK', but you can set it to trigger an error on codes like 404 Not Found or 500 Server Error. You can optionally put in a string of text to check for in the web page. If the text is not found, it will trigger an error. The text must always be in the page either visible or hidden – we search the whole page.

Visit http://www.ippulse.com/ to download.

ipPulse 1.90 Release Notes
- Added new secondary test: web page retrieval supporting both http and https. Unexpected server response code or the lack of a specific string (visible or hidden) in the retrieved web page can trigger an error. Server status codes generating errors are user controllable.
- New columns for webpage retrieval test: in Settings/Program Control tab/Column Visibility - URL to test, Server Response Status Code after URL retrieval is attempted and a column showing any text expected to appear in the web page retrieved.
- Target List Editor supports adding/editing new web page retrieval secondary test parameters.

- Added new defaults buttons to Primary and Secondary Test settings and to Program Control/Edit Column Visibility.
- Reformatted all settings tabs for less clutter.
- Default TCP test ports changed from 7 to 80.
- Settings icon now changed to universally accepted gear.
- Compiled and tested on Windows 10 Anniversary Edition.
- Updated documentation.
- Code signing now uses both SHA256 and SHA1 for maximum operating system portability.

NetScanTools Products and Windows 10

All of our products have been tested on Windows 10 in its various iterations both 32 and 64 bit. That includes the new Windows 10 Anniversary edition. All software is now being built on Windows 10.

NetScanTools Pro, NetScanTools LE, NetScanTools Basic, ipPulse and the Managed Switch Port Mapping Tool have all been recently compiled on Windows 10. All development is now done on Windows 10.

Contact Information

If you have any questions or suggestions, please feel free to email.

Northwest Performance Software, Inc.
PO Box 1375
Sequim WA 98382
(360) 683-9888
www.netscantools.com
sales [at] netscantools [dot] com

'NetScanTools Pro', 'NetScanTools Standard', 'NetScanTools Basic', 'NetScanTools LE', 'ipPulse', 'Northwest Performance Software' and 'NetScanTools.com', are trademarks of Northwest Performance Software, Inc. 'NetScanTools' is a registered trademark of Northwest Performance Software, Inc.