

# NetScanTools® Pro



## Monthly Newsletter

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## News...

### From the Editor...

Have a great 4th of July holiday weekend! By the way, it got up to 100F here in Sequim on Monday June 28. 97F the day before. Hardly anyone has air conditioning, so we closed on Monday. Too hot to run the computers!

-Kirk

### About the NetScanTools Pro 11.92 Release(s)

**NetScanTools Pro release 11.92 'installed version' was posted on May 22 and we did not realize the DNS Traffic Monitor was failing to display the pie chart. The graphing software we license underwent two revisions since 11.90.2 was released – that pie chart worked, so:**

**On June 15, we re-released 11.92 (installed) with the older 11.90.2 DNS Traffic Monitor that DID work. We also released the USB patch with the older version at the same time.**

**I spent a lot of time reworking that app and got the pie chart working again using a different updating technique. So both versions were re-released on June 22 with the corrected DNS Traffic Monitor.**

**What you can do if you use that app:** login and download either the installed version or the patch depending on which NetScanTools Pro you have. Both will overwrite the older DNS Traffic Monitor with the new one.

**If you do not use that app – nothing for you to do.**

## **NetScanTools Pro 11.92 Released May 21, 2021**

**NetScanTools Pro release 11.92 'installed version' is done and ready for download if you have a current maintenance plan. The USB patch will be ready during the first week of June.**

There are significant changes to the SPF records checking tool in DNS Tools - Advanced. It has now been renamed SPF/DKIM/DMARC after the type of records it retrieves. Here is an example using sendgrid.com:

```
[Start Query]
SPF/DKIM/DMARC
Starting Timestamp: 05/28/21 09:39:02
Source DNS: 9.9.9.9
Target: sendgrid.com

sendgrid.com domain TXT record.
TXT Record: facebook-domain-verification=dfvlzm6tx7ues6olt99mpc58vh49qj
TXT Record: v=spf1 include:sendgrid.com._nspf.vali.email
include:%{i}._ip.%{h}._ehlo.%{d}._spf.vali.email include:stspg-customer.com
~all
TXT Record: google-site-verification=-
BR0U2prX8YJz74uUQygVn22zPdt86Jc5FVd5ZX6xXo
TXT Record: facebook-domain-verification=jotjcwly7se4q6c3xsysztxo287s9
TXT Record: loaderio=dc99536e3eb902ffc82885541e224e7c
TXT Record: MS=ms77173225
TXT Record: status-page-domain-verification=989qbtpx3q0r

DMARC _dmarc.sendgrid.com TXT record
DMARC Record: v=DMARC1; p=reject; sp=reject; pct=100; adkim=r; aspf=r;
rua=mailto:dmarc_agg@vali.email,mailto:dmarc_rua@sendgrid.com;
ruf=mailto:dmarc@sendgrid.com; fo=1; rf=afrr; ri=86400

DKIM _domainkey.sendgrid.com TXT record.
-No DKIM TXT records were found.

DKIM default._domainkey.sendgrid.com TXT record.
DNS Reply Code: No Such DNS Record.

DKIM dkim._domainkey.sendgrid.com TXT record.
DNS Reply Code: No Such DNS Record.

Skipped DKIM CustomSelector._domainkey.sendgrid.com TXT record - see s= entry
in DKIM-Signature of email header.

Microsoft Exchange® selector1._domainkey.sendgrid.com TXT record
DNS Reply Code (TXT): No Such DNS Record.
```

-No Selector1 TXT records were found.

Microsoft Exchange® selector2.\_domainkey.sendgrid.com TXT record  
DNS Reply Code (TXT): No Such DNS Record.  
-No Selector2 TXT records were found.

DKIM s1.\_domainkey.sendgrid.com TXT record  
s1 CNAME Record: s1.domainkey.u298828.wl079.sendgrid.net  
s1 TXT Record: k=rsa; t=s;  
p=MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQDcwKlXWDRNO2i4Y9ih5dVJlTy10LZ35ernhUk+g  
H9EZsLowdMSdLgpwURtapjGx4dXqnALjhd9HHSWr+XJalZj0LBf6/AmytMr5Eudzp8N/m7RwbX44bGY  
tIcM+E360e0WKpJKz8hyFvDAXna2FgGZFA3kmKKgypEuttP9dlMKlwIDAQAB

DKIM s2.\_domainkey.sendgrid.com TXT record  
s2 CNAME Record: s2.domainkey.u298828.wl079.sendgrid.net  
s2 TXT Record: k=rsa; t=s;  
p=MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQChUpCk6itlhr2WBAtmfviFFznp4W3uvrOwFost3  
jPzLudSHgmrj5FT36Vqq53Fx67UU1U7vknT7TEnV+ZMB106e+5ZGmBAvzyT04VcihgO+WwZoUEWskpd  
/HjtJokfhrWrlLE2P3jNC9rcXJZuZSQfY2sV+amW+1Tyh9ZpuA92xQIDAQAB

Automatic Certificate Management Environment \_acme-challenge.sendgrid.com TXT  
record  
DNS Reply Code (TXT): No Such DNS Record.  
-No ACME TXT records were found.

[End Query]

As you can see there are several new DNS records it retrieves. The most common DKIM records are retrieved.

In the Duplicate Ip Detection Tool we tried to make it clearer that unless there is a 'local' route to the IP addresses on the same subnet, you cannot find duplicates outside your subnet. This is because we are using ARP packets.

We added Export to XML (spreadsheet schema) for most parts of the software that use grid-based results. The new option is found in the right click menu adjacent to the save to disk options already found in the menu. The XML files can be directly opened in Microsoft Excel.

These are the changes in this new version:

- Added right click menu 'Export Results to XML' option to most grid based results. This allows opening the XML file directly by Microsoft® Excel.
- Connection Monitor - added Export Results to XML.
- DHCP Server Discovery - added 'No Response' message.
- DNS Tools / Advanced - extensive rewrite of the SPF/DKIM/DMARC Tool. Added complete dump of a domain's TXT records and new special selectors including several types of common DKIM records. Added DMARC and ACME selectors. Better explained how to use custom selectors found in email headers.
- Duplicate IP Scanner - improved validation and automatic selection of Network Interface based on starting and ending IPv4 address. Added new button to return to display of duplicate IPs. Fixed problem where if you tried to exit while the scanner was running, it would not warn you and prevent the exit.
- Packet Capture - added Export Results to XML.
- Passive Discovery - added Export Results to XML.

- Port Scanner - fixed a problem where you could not add a target to the target list under all circumstances.
- SSL Certificate Scanner - new warning about trying to scan ports other than the standard 443 for secure web servers. This tool can only retrieve certificates from web servers.
- SMB Scanner - improved response parsing for SMB1 responses reducing the chances of a false positive.
- Saving to disk no longer forces you to the Documents directory.
- Modified text to include Npcap in addition to WinPcap where applicable.
- Updated SQLite to version 3.35.5
- Updated MAC address/Manufacturer database.
- Updated IP to Country database.
- Updated dates to 2021

## How to Get NetScanTools Pro Updates

**NetScanTools Pro:** click on the help menu, then on Check for New Version. In the main right side area (or your web browser will launch) you will see an embedded web page with either a discussion of the current version and download links or a web page saying your maintenance plan has expired. If you have not registered, you will see a web page explaining that you need to register. You must register and have an active maintenance plan to download NetScanTools Pro updates.

## Roadmap for NetScanTools Pro 12

**The look will be changing.** When we went to the old outlook style with icons we had a few complaints. In previous versions there was a tree on the left with the names of the tools. Thinking of putting that back but also having it as a searchable tree. What that means is you will see a big tree of tools and if you type 'ping' in the top search bar above the tree, anything with 'ping' in it will appear and the other tools will disappear. It makes it fast to find what you need. Comments?

## 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](http://www.netscantools.com)  
sales [at] netscantools [dot] com

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