Cybersecurity Tools



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Penetration testing

Penetration testing, also known as "pen test", simulates an attack on a computer system in order to evaluate the security of that system. Examples of penetration testing tools include Metasploit, Kali Linux, Netsparker, and Wireshark.

Packet sniffers

A packet sniffer, also called a packet analyzer, protocol analyzer or network analyzer, is used to intercept, log, and analyze network traffic and data. Examples of tools include Wireshark, Tcpdump, and Windump.

Packet Sniffer Software

Wireshark

The world's most popular network protocol analyzer, Wireshark gives you a microscopic view of your network activity.

Using Wireshark, you can inspect hundreds of protocols and browse your captured network data using a graphical user interface (GUI) or via the TTY (teletypewriter) mode TShark utility.

Wireshark Features

Live capture and offline analysis•

Read and write in a variety of different capture file formats, including tcpdump (libpcap), • Pcap NG, Catapult DCT2000, Cisco Secure IDS iplog, Microsoft Network Monitor, and many others

Rich VoIP analysis•

Export output to XML, PostScript, CSV, or plain text•

What is Wireshark used for?

Wireshark is a widely used, open source network analyzer that can capture and display real-time details of network traffic. It is particularly useful for troubleshooting network issues, analyzing network protocols and ensuring network security. Networks must be monitored to ensure smooth operations and security.

Why do hackers use Wireshark?

Many times, cybersecurity pros use Wireshark as a quick and dirty way to identify traffic bursts during attacks. It's also possible to capture the amount of traffic generated between one system and another.

Is Wireshark a security risk?

Because there is always the potential for Wireshark exploits, special care should be taken to avoid security related problems while running Wireshark or at least to reduce the possible impact.

How to work on Wireshark?

After starting Wireshark, do the following:

Select Capture | Interfaces..1

Select the interface on which packets need to be captured.2

Click the Start button to start the capture..3

Recreate the problem.4

Once the problem which is to be analyzed has been reproduced, click on Stop.5

Save the packet trace in the default format..6

Can Wireshark detect viruses?

Identifying malware traffic using Wireshark involves analyzing the captured network packets to identify patterns, behaviors, and indicators of compromise (IoCs). Examine DNS traffic for suspicious domain names. Look for traffic using non-standard or uncommon protocols. Analyze HTTP and HTTPS traffic for anomalies.



