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SafeDNS Global Anycast Network

SafeDNS Global Anycast Network consists of servers located throughout the world to ensure a fast and reliable DNS resolving from any point worldwide.



List of SafeDNS Categories

ID	Category	Description
1	NRD	Newly registered domains
2	Unknown Sites	All uncategorized websites. Most of them are technical domains that are parts of many websites. They are not categorized intentionally in some cases. We generally recommend blocking Unknown websites only when you need access to certain websites.
3	Malware	Sites spreading malware
4	Phishing & Typosquatting	Sites deceiving internet users (e.g. fake pages, scams, fraud)
5	Online Ads	Advertising systems and banner networks
6	Drugs	Sites advertising or selling drugs
7	Tasteless	Sites containing excessive amounts of tasteless language or unmoderated forums
8	Academic Fraud	Sites with plagiarism, academic fraud, etc.
9	Parked Domains	Sites without any content that are temporarily placed at the domain registrar; are often used for virus propagation
10	Hate & Discrimination	Sites spreading the propaganda of aggression, racism, terrorism
11	VPN, Proxies & Anonymizers	Sites containing ways to bypass content filters
12	Botnets & C2C	Infected devices, networks and malicious websites
13	Adult Sites	Adult content, mostly about sex but without pornography
14	Alcohol & Tobacco	Sites selling or containing information about alcohol and tobacco
15	Dating	Dating websites

ID	Category	Description
16	Pornography & Sexuality	Sites containing pornography in any form
17	Astrology	Occult and astrology sites
18	Gambling	Casinos, lotteries, and other gambling systems
19	Child Sexual Abuse (IWF)	Sites containing child sexual abuse images, criminally obscene adult and child sexual abuse content from a list compiled by Internet Watch Foundation/IWF (UK)
20	Torrents & P2P	Torrent trackers and peer-to-peer networks
21	File Storage	File-sharing sites, file archives
22	Movies & Video	Online movies and videos
23	Music & Radio	Internet radio and music archives
24	Photo Sharing	Archives of photos, photo galleries
25	Content Delivery Networks	CDNs are used for delivering images, audio, video, static content, software packages, and updates, as well as related CDN and proxy resources for API access, caching, routing, protected resources, service integrations, and hosting of media or web assets. Warning: blocking this category can break a very large portion of web services and may effectively block up to 80% of the Internet. Only do this if you fully understand the impact.
26	Chats & Messengers	Online chats and instant messengers, messaging systems servers
27	Forums	Web forums
28	Games	Computer and videogames websites
29	Social Networks	Social networking services (e.g. Facebook)
30	Entertainment	Entertainment portals; cafes and restaurants; sites with information about leisure
31	German Youth Protection	Sites considered unsafe by the Federal Department for media harmful to young persons (BPjM, Germany)
32	Automotive	Sites about cars and other types of transport
33	Blogs	Systems of mass hosting, personal websites, blogs
34	Corporate Sites	Sites of commercial organizations

ID	Category	Description
35	E-commerce	Online shops
36	Education	Websites of educational institutions, educational portals
37	Finances	Sites of banks and other financial institutions
38	Government	Official government sites
39	Health & Fitness	Sites of hospitals, medical centers, and health care organizations; health portals
40	Humor	Humorous and entertaining sites, often tasteless
41	Jobs & Career	Job portals
42	Weapons	Websites about weapons and army
43	Politics, Society, and Law	Political news; political parties and organizations; legal organizations; laws
44	News & Media	News agencies, media sites
45	Non-profit	Sites of non-profit organizations
46	Portals	Common portals
47	Religious	Sites of religious and anti-religious organizations
48	Search Engines	Google, Bing, DuckDuckGo, etc.
49	Computers & Internet	Sites about IT, software, internet, and computers
50	Sports	Sites about sports or sports organizations
51	Science & Technology	Scientific organizations sites; science news
52	Travel	Sites about tourism and travel
53	Home & Family	Sites about home, family, and hobbies
54	Shopping	Sites with shopping unrelated to online stores
55	Arts	Museums, art portals, and galleries

ID	Category	Description
56	Webmail	Webmail systems
57	Real Estate	Sites with information about sales and purchases of the real estate
58	Classifieds	Classifieds
59	Business	Sites about businesses and economics
60	Kids	Sites for children
63	Trackers & Analytics	Web analytics systems, including user tracking
65	Child Sexual Abuse (Arachnid)	Sites containing child sexual abuse material from a list compiled by the Canadian Centre for Child Protection (CAN) as part of its Project Arachnid
66	Cryptojacking	Sites illegally mining cryptocurrencies
67	Online Libraries	Sites of online libraries
70	DGA	DGAs are algorithms detected in various malware families, which are used to periodically generate a large number of domain names that can be used as a default with their management and control servers.
71	Ransomware	Sites spreading ransomware
72	Generative AI	Sites of well-known AI services, chatbots, and text/picture generators
100	Contentless Domains	These sites may lack any meaningful or legitimate content, making their purpose unclear or unreliable, and due to their dubious nature, they pose potential risks to users

List of AppBlocker apps

Category	Description
CyberSecurity	
Shodan	Search engine that lets users search for various types of servers connected to the internet using a variety of filters.
Zscaler	Standalone cloud proxy, that monitors your organization's traffic enabling you to set policies for blocking transactions.
Tor	Software for enabling anonymous communication.
Dr.Web	Antivirus software.
AVG	Antivirus software.
Kaspersky	Antivirus software.
Norton	Antivirus software.
Bitdefender	Antivirus software.
ESET	Antivirus software.
Avira	Antivirus software.
Malwarebytes	Antivirus software.
McAfee	Antivirus software.
1Password	Password manager.
Ecosystem Applications	
WeChat	Chinese instant messaging, social media, and mobile payment app developed by Tencent.

Category	Description
Apple	Apple Inc. online services.
Cisco	Cisco Systems Inc. online services.
Google	Google online services.
Microsoft	Microsoft Corporation online services.
Samsung	Samsung Ads, Samsung Apps, Samsung Mobile, Samsung Push, Samsung SDS,Samsung TV.
Entertainment	
YouTube	Online video sharing and social media platform.
Amazon Prime Video	Video on-demand, streaming and rental service of Amazon.
Disney+	Video on-demand, streaming service of The Walt Disney Company.
Netflix	Streaming service and production company.
Sony TV	Sony's streaming platform.
HBO	Streaming platform.
Paramount +	Streaming service.
Hulu	Streaming service.
Vimeo	Video-sharing platform.
Dailymotion	Video-sharing platform.
File Sharing	
4shared	File-sharing website.
BitTorrent Client	BitTorrent client used for uploading and downloading files via the BitTorrent protocol.

Category	Description
Box	Cloud based file hosting and collaboration tool.
Dropbox	Cloud based file hosting service.
FASTdrive	UK-based cloud storage.
FileFactory	Online file storage service.
Leechers Paradise	Service that provides downloads from various file hostings.
NZB.su	Usenet file downloader.
MediaFire	Online file hosting and cloud storage.
OpenTrackr	BitTorrent peer tracker software.
qBittorrent Client	Cross-platform free and open-source BitTorrent client.
ShareFile	Content collaboration, file sharing and sync software.
Syncthing	Peer-to-peer file synchronization application.
Syncplicity	File share and synchronization service.
The Pirate Bay	Online index of digital content of entertainment media and software.
torrent.eu.org	BitTorrent tracker.
Xender	File transfer application.
uTorrent Client	BitTorrent client used for uploading and downloading files via the BitTorrent protocol.
Zer0day Tracker	BitTorrent tracker.
Financial	
Ethermine	Cryptocurrency mining pool.
Flypool BEAM	Cryptocurrency mining pool.
Flypool Ravencoin	Cryptocurrency mining pool.

Category	Description
Flypool Ycash	Cryptocurrency mining pool.
Flypool Zcash	Cryptocurrency mining pool.
Binance	Cryptocurrency exchange platform.
Coinbase	Cryptocurrency exchange platform.
PayPal	Online payment platform.
Stripe	Online payment processing service.
Alipay	Chinese digital payment platform.
TransUnion	A major credit agency providing reports, risk management, and credit services to businesses and individuals.
Venmo	Mobile app that lets users send and receive money instantly with friends and businesses.
Yodlee	financial data aggregation platform that provides tools for accessing and analyzing account information across various financial institutions.
Games	
Xbox network	Online multiplayer gaming and digital media delivery service created and operated by Microsoft.
Sony PlayStation Network	Digital media entertainment service provided by Sony Interactive Entertainment.
Nintendo network	Nintendo's online services.
GOG	Digital distribution platform for video games and films.
Steam	Video game digital distribution service and storefront.
Fortnite	Online video game.
Epic Games Store	Digital video game storefront.
PUBG-mobile	Mobile video game.

Category	Description
1xBet	Online betting platform.
Roblox	Online platform that allows users to create, share, and play games created by other users in a virtual environment.
Call Of Duty	Video game.
Electronic Arts	Video game company.
Rockstar	Video game developer.
Riot	Video game developer.
Big Fish	Video game developer.
Wargaming	Video game developer.
Microsoft Games	Video game developer.
Blizzard	Video game developer.
Clash of Clans	Mobile strategy game.
2K Gaming	Video game publisher.
Gameloft	Video game developer.
Minecraft	Video game.
Ubisoft	Video game developer.
Mail	
GMX	Email service provided by Global Mail eXchange.
ProtonMail	End-to-end encrypted email service.
Hushmail	Encrypted web-based email service.
SendGrid	Customer communication platform for transactional and marketing email.

Category	Description
Thunderbird	Email client by the Mozilla Foundation.
Yahoo Mail	Email service by Yahoo, Inc.
Messaging	
Slack	Messaging program for the office and personal use.
Skype	Telecommunications application.
Discord	VoIP, instant messaging and digital distribution platform.
Disqus	Blog comment hosting service.
ICQ	Cross-platform instant messaging and VoIP client.
Kakao Talk	Mobile messaging app for smartphones by Kakao Corporation.
KIK	Instant messaging mobile app.
Pushover	Push notification service on smartphones and computers.
Rocket.Chat	Enterprise communication and collaboration platform.
Signal	Encrypted instant messaging service.
Tencent QQ	Chinese instant messaging service and web portal.
Zalo	Vietnamese messaging service.
Viber	Japanese VoIP and instant messaging service.
Facebook messenger	Instant messaging app and platform by Meta.
Telegram	Cloud-based instant messaging service.
WhatsApp	Instant messaging and VoIP service by Meta.
Portal	

Category	Description
Baidu	Chinese search engine and online services.
Daum	South Korean web portal.
Hao123	Chinese online listings portal.
Mail.Ru	Russian web portal.
So 360	Chinese search engine.
Sogou	Chinese search engine.
Sohu	Chinese web portal.
TouTiao	Chinese news and information content platform.
Yahoo	Web services provider.
eBay	Online marketplace.
Remote Desktop	
RemotePC	Remote access and remote control software application.
AnyDesk	Remote desktop application.
TeamViewer	Remote access and remote control computer software.
BeyondTrust	Identity management / access management, and remote access software.
VNC	Remote access software.
Zoho Assist	Indian web-based business tools.
Chrome Remote Desktop	Remote desktop software tool by Google.
Splashtop	Remote desktop software and remote support software.
Webex	Web conferencing, videoconferencing, and unified communications service.

Category	Description
GoTo (Logmein)	Cloud-based remote work tools.
ISL light	Remote support software.
Glance	Lock screen content service.
Social networks	
Snapchat	Instant messaging app and multimedia services.
Instagram	Photo and video sharing social networking service by Meta.
Facebook	Online social media and social networking service by Meta.
X	X is the new name of the social media company and platform formerly known as Twitter.
TikTok	Chinese video hosting service.
Pinterest	Image sharing and social media service.
LinkedIn	Business and employment-oriented online service.
Reddit	Social news aggregation and discussion website.
Nextdoor	Social networking service that connects neighbors and local communities.
Weibo	Chinese social media platform.
Technology	
GitLab	DevOps software package service.
GitHub	Software development and version control service.
Sourceforge	Software control and management service.
ChatGPT	AI language model.

Category	Description
Atlassian	Confluence, Trello, Bitbucket, Opsgenie, Crowd, Guard, Compass, Loom.
Jetbrains	Jetbrains IDEs, Qodana, Datalore, YouTrack, Academy.
VoIP/Conferencing	
3CX	VoIP software.
Houseparty	Group video chatting app.
LINE	Instant communications application.
Blue Jeans Network	Cloud-based video conferencing service.
Jive Communications	Online conferencing service.
RingCentral	Cloud-based communication and collaboration services.
Telehop	Voice services, and VoIP.
Twilio	Communication tools for making and receiving phone calls, sending and receiving text messages.
VoIP.ms	Communication services.
Voyant	Cloud-based telecommunication services.
Zoom Video	Videotelephony software.
Google Voice	Telephone service by Google.
Microsoft Teams	Business communication platform by Microsoft.
FreeConferenceCall	Online conference call services.
Ooma	Phone service provider for business and home.
VPN And Proxy	

Category	Description
CyberGhost VPN	Online traffic encryption service.
Hide.me VPN	VPN service.
Hola VPN	Peer-to-peer VPN service.
NordVPN	VPN service.
Surfshark	VPN service.
Avast SecureLine VPN	VPN service.
X-VPN	VPN service.
Hotspot Shield	VPN service.
Opera VPN	VPN service.
Apple Private Relay	Privacy feature that masks users' IP addresses and encrypts their internet traffic.
Chrome/Firefox Secure DNS	Feature that encrypts DNS queries between your browser and DNS servers.
Private Internet Access	VPN service.
Express VPN	VPN service.
ProtonVPN	VPN service.
TunnekBear	VPN service.
Turbo VPN	VPN service.
StrongVPN	VPN service.
Speedify	VPN service.
PureVPN	VPN service.
IvacyVPN	VPN service.
FrootVPN	VPN service.

Category	Description
IPVanish	VPN service.
Windscribe	VPN service.
Mullvad	VPN service.

Wireshark Guide

This guide shows how to troubleshoot the issues when an application or a domain, and Stats are not working properly.

Installation

Please download and install Wireshark. Choose x32 version, if you don't know the architecture of your operating system:

<https://www.wireshark.org/download.html>

According to Wireshark requirements, you will need to install either WinPcap or Npcap capture driver. Please select the option most suitable for you.

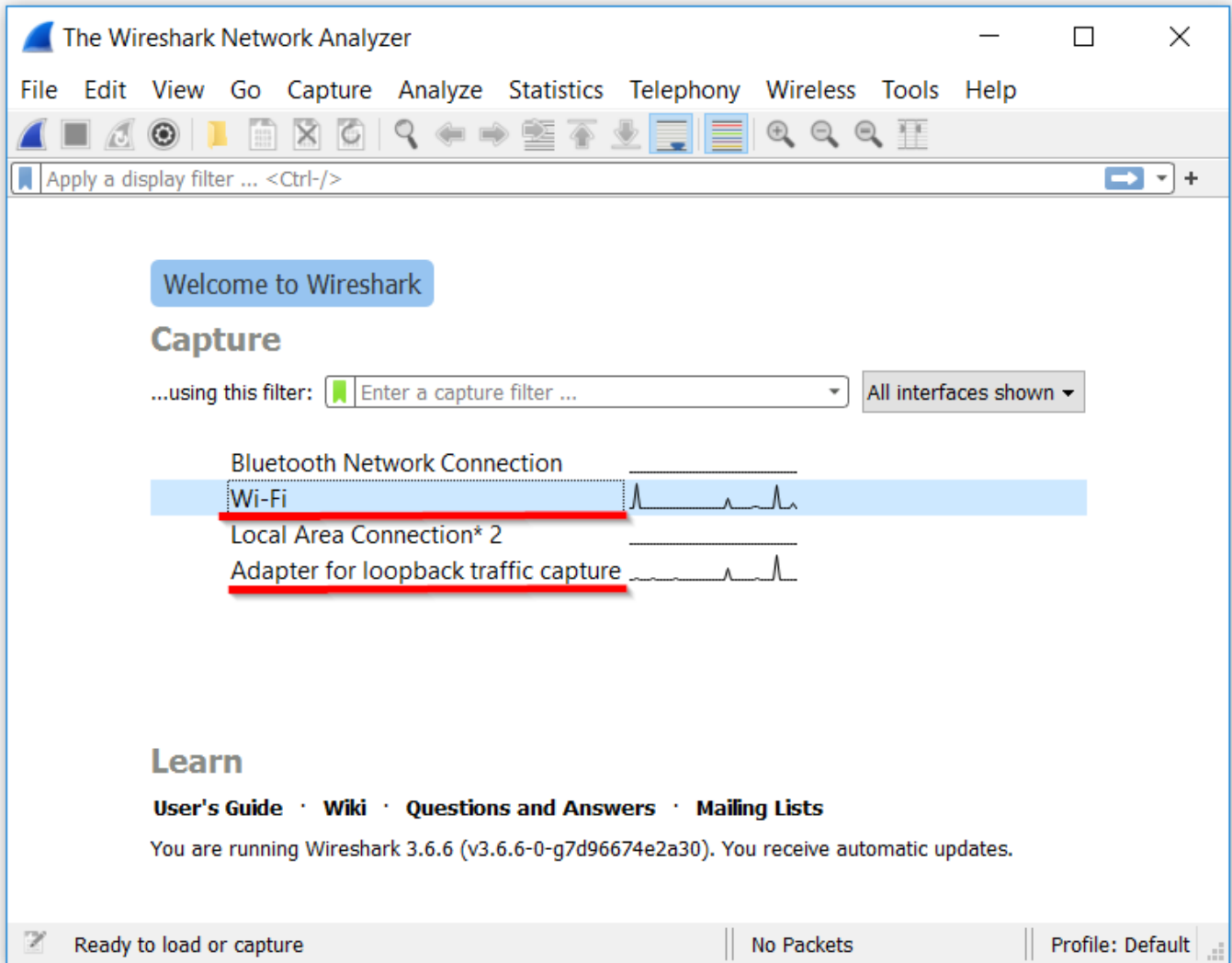
How to use the app

Once Wireshark is installed, the system should be restarted.

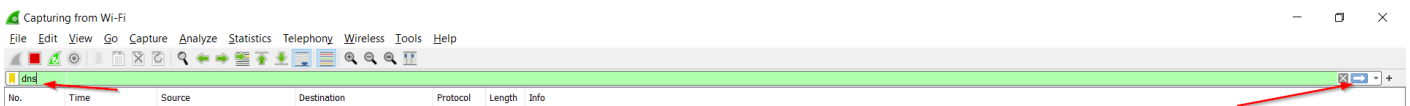
Please run the Wireshark application with the administrator rights. During the first run you will be prompted to select the source interface. Please select one of the network adapters:

Adapter for loopback traffic capture - if you are using SafeDNS Agent.

Wi-Fi or Local Area Connection - if the settings are configured on the network level.



Configure the capture protocol by typing the **dns** in the Display Filter field and press the Enter button.



This step will filter all network requests to show DNS requests only.

Start the application that requires troubleshooting.

The screen of Wireshark shows the list of the hostname addresses, their corresponding IP addresses, and additional service information.

Capturing from Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

dns

No.	Time	Source	Destination	Protocol	Length	Info
46	1.759972	192.168.88.47	195.46.39.39	DNS	74	Standard query 0xed70 A mw1.google.com
74	2.009827	192.168.88.47	195.46.39.39	DNS	74	Standard query 0xed70 A mw1.google.com
99	2.529265	192.168.88.47	195.46.39.39	DNS	75	Standard query 0x8db1 A csi.gstatic.com
116	2.611613	195.46.39.39	192.168.88.47	DNS	115	Standard query response 0xed70 A mw1.google.com CNAME mw-small.l.google.com A 142.250.74.142
135	2.625264	195.46.39.39	192.168.88.47	DNS	115	Standard query response 0xed70 A mw1.google.com CNAME mw-small.l.google.com A 142.250.74.142
185	2.779366	192.168.88.47	195.46.39.39	DNS	75	Standard query 0x8db1 A csi.gstatic.com
190	2.780418	195.46.39.39	192.168.88.47	DNS	91	Standard query response 0x8db1 A csi.gstatic.com A <u>195.46.39.11</u>
272	2.945843	195.46.39.39	192.168.88.47	DNS	91	Standard query response 0x8db1 A csi.gstatic.com A <u>195.46.39.11</u>

In the example above, the domain csi.gstatic.com was resolved to the IP address 195.46.39.13 - SafeDNS BlockPage address.

This means that the domain csi.gstatic.com is currently blocked either because its category is blocked or because it is on the Denylist.

Please note, that SafeDNS BlockPages can use the following addresses:

195.46.39.1, 195.46.39.2, 195.46.39.3, 195.46.39.11, 195.46.39.12, and 195.46.39.13.

How to solve the issue?

Please look up for the category of the domain with the SafeDNS online tool:

<https://www.safedns.com/check-website>

After that, check if this category is not blocked in your SafeDNS Dashboard or is not on the Denylist.

Using Wireshark to capture DNS requests is usually enough to solve any issues related to DNS web filtering. However, you can also try advanced Wireshark features - network packet capture, packet analyzer, and USB traffic capture.

DNSQuerySniffer Guide

This guide shows how to troubleshoot the issues when an application or a domain, and Stats are not working properly.

Installation

Please download and install DNSQuerySniffer. Choose x32 version, if you don't know the architecture of your operating system:

https://www.nirsoft.net/utils/dns_query_sniffer.html

According to the DNSQuerySniffer requirements, you will need to install either WinPcap capture driver or Microsoft network Monitor Driver. Please find below links to these drivers:

<http://www.winpcap.org/install/default.htm>

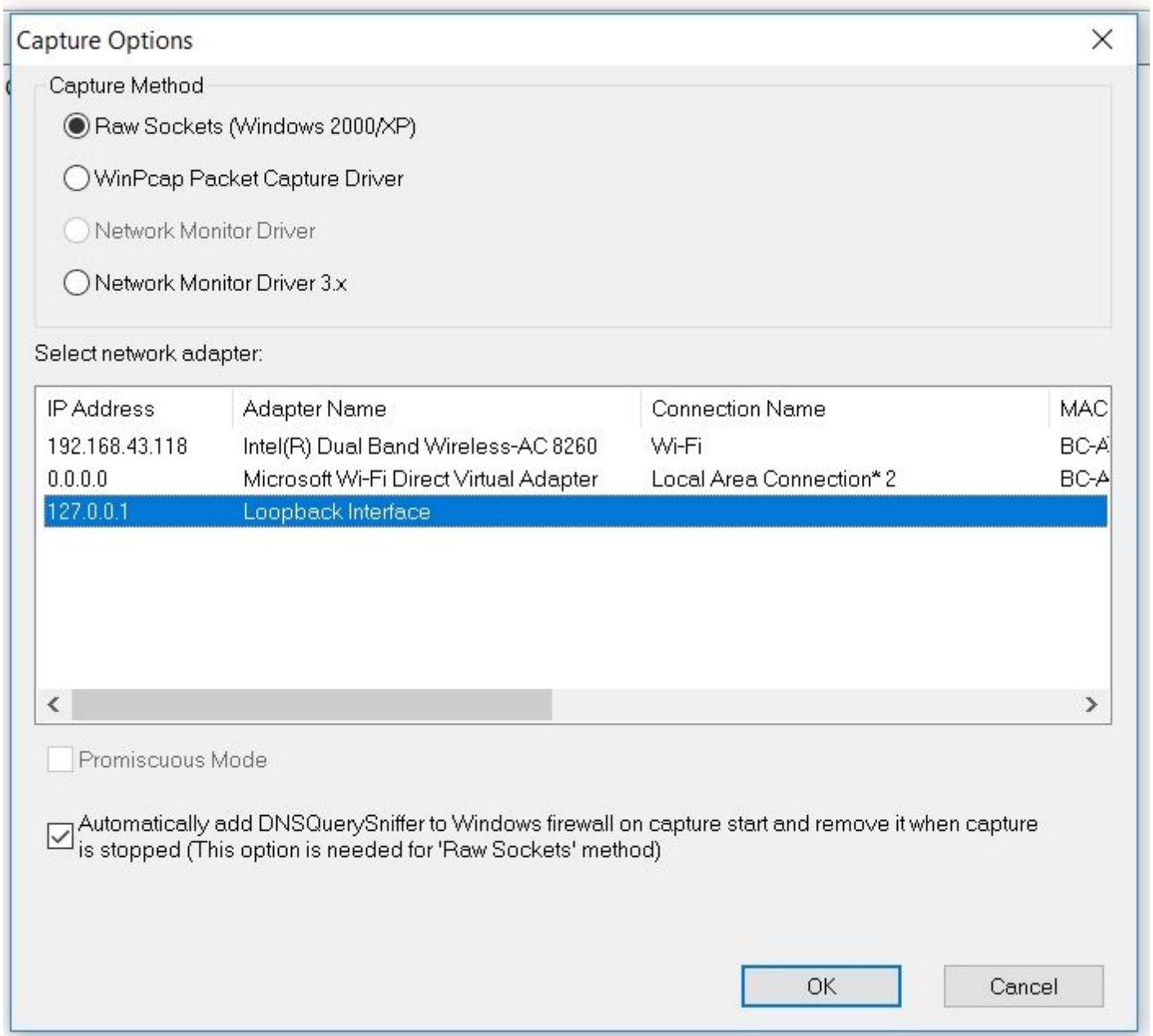
<http://www.microsoft.com/downloads/details.aspx?FamilyID=983b941d-06cb-4658-b7f6-3088333d062f&displaylang=en>

How to use the app

Once installed, please run the DNSQuerySniffer with the administrator rights. During the first run, you will be prompted to select the driver for the capture method and the source interface. Please select **Raw Sockets** method and choose one of the following network adapters:

127.0.0.0 – if you are using SafeDNS Agent.

192.168.X.X or **10.X.X.X** – if the settings are configured on the network level.



Start the application that requires troubleshooting.

The screen of the DNSQuerySniffer shows the list of the hostname addresses, their corresponding IP addresses, and additional service information.

In the example below, the domain `csi.gstatic.com` was resolved to the IP address `195.46.39.13` - SafeDNS BlockPage address.

This means that the domain `csi.gstatic.com` is currently blocked either because its category is blocked or because it is on the Denylist.

Host Name	Port Number	Query ID	Request Type	Response Ti...	Duration	Response Code	Records Count	A	CNAME
kh.google.com	58526	8F50	A	18-Jul-22 02:...	127 ms	Ok	3	142.250.74.110	keyhole.l.google.com
earth.googleusercontent.com	51404	81DC	A	18-Jul-22 02:...	124 ms	Ok	3	142.250.74.129	googlehosted.l.googleusercontent.com
mw1.google.com	60578	648D	A	18-Jul-22 02:...	125 ms	Ok	3	142.250.74.142	mw-small.l.google.com
khmdb.google.com	58578	237A	A	18-Jul-22 02:...	133 ms	Ok	3	216.58.211.14	khmdb.l.google.com
<u>csi.gstatic.com</u>	63076	5E62	A	18-Jul-22 02:...	133 ms	Ok	1	<u>195.46.39.13</u>	
www.google.com	57302	E5C8	A	18-Jul-22 02:...	154 ms	Ok	2	142.250.74.100	
mw2.google.com	56841	6776	A	18-Jul-22 02:...	127 ms	Ok	3	142.250.74.46	mw-medium.l.google.com

Please note, that SafeDNS BlockPages can the following addresses:

195.46.39.1, 195.46.39.2, 195.46.39.3, 195.46.39.11, 195.46.39.12, and 195.46.39.13.

How to solve the issue?

Please look up for the category of the domain with the SafeDNS online tool:

<https://www.safedns.com/check-website>

After that, check if this category is not blocked in your SafeDNS Dashboard or is not on the Denylist.