# 🚀  A Comprehensive Guide to the 1-Click Fastest DNS Software

Welcome to the world of intelligent DNS management! This software is a powerful yet simple tool for finding, testing, and connecting to the fastest and most secure DNS servers. The main goal of this program is to ensure the DNS server is working correctly and has a high speed **before you connect** to it, so you can always experience the best and most stable internet connection.

## 🎯  The Core Philosophy and Logic of the Program

Unlike many similar tools that only allow you to choose from a list, this software is built on a key principle: **Test, then Trust.**

The program's logic ensures you never connect to a slow or non-functional DNS server. This is achieved through an intelligent two-step process:

1. **Performance Test (Nslookup):** First and foremost, the program checks if a DNS server is actually **active** and responds to requests.
2. **Speed Test (Ping):** After confirming it's active, the server's response speed is measured by sending a ping to identify the fastest options.

This combined approach ensures that the list you are ultimately shown is a collection of the best and most reliable DNS servers available at that moment.

## ✨  Key Features

### 1. Two Intelligent Test Modes

You have two ways to find the best DNS:

- **RUN FULL TEST:**
  - This option completely checks all active servers in your list.
  - It first uses **Nslookup** to find the truly active servers, then uses **Ping** to sort them by speed.

- The result of this test is a list of the 10 fastest servers (`topDNS`), which is displayed on the main page.
- This mode is ideal for first-time use or when you feel your internet speed has changed.
- **Quick Test & Connect To Fastest:**
  - This feature is the signature of this software. When this option is active, the program holds a **speed competition** between the best options before each connection.
  - This test includes **all your active custom DNS servers** and **3 of the fastest default servers** (which were obtained from the last full test).
  - The program automatically connects to the **absolute winner** of this competition.
  - **Intelligent Logic:**
    - If you are not connected to the internet, it will show an error.
    - If all servers fail the quick test, the program automatically runs a **Full Test** to update the list of fast servers.

## 2. Your Priority: Custom DNS Management

You have full control over your list of DNS servers:

- **Add/Edit/Delete:** Easily add, edit, or delete your desired DNS servers from the list.
- **Priority in Testing:** Your active custom DNS servers **always** participate in tests (both full and quick) and are displayed in the main navigator list. This ensures your favorite options are never overlooked.
- **Activate/Deactivate:** With a single click, you can temporarily remove any DNS from the test and navigator lists.

## 3. Live and Accurate Status Display

The program's user interface is designed to give you transparent information about the network status at any moment:

- **Intelligent Color Coding:** The name, IP, and ping of the servers on the main page are colored based on their health status (successful, unsuccessful, or partial) and your connection status, so you can understand everything at a glance.
- **Live Ping Display:** The ping time of the primary and secondary servers is displayed live on the main page.
- **Status in Full List:** On the "Full DNS List" page, the status of each server is marked with colored icons ( 🟢 , 🟡 , 🔴 ) and the list is automatically sorted based on the best performance.

## 4. Powerful Additional Features

- **Import and Export:** Easily create a backup file of your custom DNS list in `JSON` format or import a list from others into your program.
- **Portable and Installer Mode:** The program has both an installer (`Setup.exe`) and a portable version (no installation required).
- **System Integration:** The program has an icon in the **System Tray** (next to the clock) and remains active in the background when the window is closed, so it's always accessible.
- **External Link Management:** All external links (like social media links) open in your system's default browser instead of within the program.

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## ⚙️ App Start Logic

When you open the program, a series of intelligent checks are performed in order to provide you with the best experience:

1. **Load Data:** Settings and the list of top servers from your last use are loaded.
2. **Check Internet Connection:**
   - If the internet is disconnected, a message indicating no connection is displayed.
   - If the internet is connected, the program proceeds to the next step.
3. **Intelligent Decision-Making:**
   - **If it's the first time you're running the program** (or no full test has been performed): The program automatically runs a **Full Test** to find the best servers for you.
   - **If you already have a list of top servers:**
     - **In Quick Test mode:** The program runs a quick test and connects to the fastest option.
     - **In normal mode:** The program is ready for you to manually connect to your desired server.

This logic ensures that the program is always in the best possible state for your use.

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