

TechUtilityTools.com

User Guide

Network diagnostics & internet performance

Complete guide to using TechUtilityTools.com — network diagnostics, connectivity tools, internet performance utilities, and educational resources.

Edition	First Edition
Audience	Beginners to advanced users
Topics	Speed, Wi-Fi, DNS, latency, packet loss, streaming, gaming
Support	support@techutilitytools.com

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1. Getting started

TechUtilityTools.com is a browser-based diagnostics suite. Every test runs in your browser or against neutral public infrastructure — nothing is installed, and no agents run in the background.

A free account unlocks history, saved monitors, and alert preferences. Pro adds long-term retention and scheduled monitoring. Business adds team workspaces, white-label reports, and API access.

2. Speed tests

Browser Speed Test (/speed-test)

Measures download throughput, upload throughput, latency, and jitter using neutral CDN endpoints. Best when other devices on your network are idle.

Wi-Fi Speed Test (/wifi-speed-test)

Same measurement pipeline, framed for room-by-room comparison. Run it from each spot where someone actually uses the internet.

Mobile Network Test (/mobile-network-test)

Captures effective downlink and round-trip time from the browser's Network Information API when available.

3. Connectivity monitoring

Online Monitor (/connectivity/online-monitor)

Tracks reachability of a target endpoint over time. Use it to catch intermittent drops that a one-shot test misses.

Ping Monitor (/network/ping)

Continuous latency probing. Sudden jitter here is often the real cause of gaming rubber-banding and voice-call glitches.

4. Network & DNS tools

- DNS Lookup (/network/dns, /dns-lookup/<domain>) — resolves A, AAAA, MX, TXT and returns TTLs.
- Port Check (/network/port-check) — verifies whether a TCP port is reachable.

- Packet Loss Test (/packet-loss-test) — detects packets that never arrive.
- IP Info (/network/ip, /ip-info/<ip>) — geolocation and reverse-DNS metadata.
- Website Uptime & Server Status — verifies whether a site is actually down for everyone.

5. Wi-Fi & home network tools

Practical adjustments — channel selection, 2.4 vs 5 vs 6 GHz, router placement, band steering — are explained in the connectivity guides. Use the Device Performance Check to rule out an old client device before blaming the ISP.

6. Gaming & streaming diagnostics

- Gaming Lag Test — latency and jitter framed against typical competitive thresholds.
- Streaming Readiness — bandwidth and stability check for 1080p / 4K playback.
- How to reduce ping, how to fix buffering, and how to test VPN leaks are linked from the tool pages.

7. Website & server health

- Website Uptime Checker (/tools/website-uptime-checker) — HTTP reachability with response codes and timing.
- Server Status Checker (/tools/server-status-checker) — TCP / TLS reachability.
- SSL guidance is covered in the SSL handshake and expiration monitoring guides.

8. Dashboard, history, and alerts

The dashboard collects your recent tools, saved results, monitors, and alert preferences. History retention depends on plan; Pro extends retention and adds trend analytics.

9. Pro plan & Business plan

- Pro removes ads, extends history, unlocks scheduled monitors and trend analytics.
- Business adds team workspaces, white-label reports, and API access to the diagnostics pipeline.

Full comparison and current pricing live at /pricing.

10. Team workspaces

Business plans include team workspaces. Invite teammates by email; the owner controls role assignment. Each workspace has its own saved monitors, alert routing, and branding preferences.

11. Reports & white-label exports

Business subscribers can generate branded PDF reports from saved diagnostics and share them with clients under their own logo and color palette.

12. Troubleshooting workflows

When a page loads slowly but your speed test looks healthy, walk the DNS Speed Test → DNS Lookup → Ping Monitor → Port Check sequence. Slow or failing DNS is invisible to throughput tests but cripples browsing.

For gaming rubber-banding: Gaming Lag Test → Packet Loss Test → Ping Monitor. Losses under 2% are still enough to disrupt voice and real-time play.

13. Privacy & data handling

- All traffic is encrypted in transit with TLS.
- Tests run in your browser; no agents or extensions are installed.
- Saved results are tied to your account and visible only to you.
- Diagnostic data is not sold or shared with advertisers.

Full details are in the Privacy Policy at </privacy>.

14. Contact & support

- General support: support@techutilitytools.com
- Editorial corrections: editorial@techutilitytools.com
- Privacy & data requests: privacy@techutilitytools.com
- Partnerships: partners@techutilitytools.com
- Press: press@techutilitytools.com
- Security disclosures: security@techutilitytools.com

For full contact details and response-time expectations, see </contact>.