OVERRIDER

Advanced Web Traffic Generator

User Guide

---

1. Overview

OverRider is a professional-grade web traffic generator that uses real browser engines (Puppeteer/Chrome and Playwright/Chromium) to simulate authentic human visitor sessions. Unlike simple HTTP bots, OverRider executes JavaScript, handles cookies, renders pages, and interacts with content exactly as a real user would.

Key capabilities:

- Dual browser engines — choose speed (Engine-1) or success rate (Engine-2)

- Multi-threaded — run 1 to 100 concurrent browser sessions simultaneously

- Campaign Manager — save and switch between unlimited named configurations

- Device fingerprinting — randomised OS, browser, CPU, RAM, screen, and hardware profiles

- Language & Timezone spoofing — simulate visitors from any region worldwide

- Human behaviour simulation — natural Bezier-curve mouse movement with jitter, scrolling, and link clicking

- Real-time log streaming — see exactly what each browser session is doing as it happens

- Proxy support — HTTP and SOCKS5 with authentication

- Full GA4 attribution — proper referrer chains and UTM parameter support

---

2. Getting Started

First Launch

When OverRider opens for the first time it checks whether the browser engines are installed. If either engine is missing an alert appears with an **Install Now** button that takes you directly to the Engines sub-tab.

> **Note:** OverRider also checks for a missing engine each time you click **Start Traffic**. Traffic will not start until the selected engine is installed.

Recommended First Steps

1. Open the **Engines** sub-tab and confirm both engines show a green installed status

2. Enter at least one target URL in the **URL Configuration** area

3. Add 5–6 referer URLs (use the **Add Referers** button for quick organic search or social referers)

4. Add proxies if required (leave blank for direct connections)

5. Review the **Page Visit Behavior** sub-tab — defaults are safe to use as-is

6. Click **Start Traffic** and watch the live log

7. Save your configuration as a named **Campaign** for next time

---

3. Traffic Setup Tab

This is the main configuration tab. It is divided into the Campaign Manager bar at the top, URL / Referer / Proxy input areas, Profile sub-tabs, and Duration settings.

3.1 Campaign Manager

The Campaign bar runs across the top of the Traffic Setup tab. It saves the entire application configuration — every setting across all sub-tabs — as a named campaign profile.

Control	Description
Campaign dropdown	Lists all saved campaigns. Selecting one instantly loads all its settings.
New	Clears the URL, referer, and proxy fields and resets all settings to defaults.
Save	Prompts for a name and saves every current setting as a campaign JSON file. Overwrites if name exists.
Delete	Asks for confirmation then permanently deletes the selected campaign file.

Tip: OverRider remembers the last-used campaign and restores it automatically on startup. Campaign files are stored as JSON in `%APPDATA%\OverRider\campaigns\`.

3.2 URL Configuration

- Enter the target website URLs in the **Target URLs** box, one per line
- Both HTTP and HTTPS are supported
- Multiple URLs are cycled through during traffic generation

3.3 Referer Configuration

- Enter referer URLs manually in the **Referer URLs** box, one per line
- Click **Add Referers** to open the referer generator (Organic Search or Organic Social)
- Traffic without a referer appears as *direct* in analytics

Tip: Use at least 5–6 different referers to make traffic appear from diverse sources.

3.4 Proxy Configuration

Enter proxies in the **Proxies** text area, one per line. Supported formats:

- `ip:port` — unauthenticated proxy

- `username:password@ip:port` — authenticated proxy

Supported protocols: HTTP, HTTPS, SOCKS5

Button	Description
Load from File	Import a proxy list from a text file (one proxy per line)
Save to File	Export the current proxy list to a text file
Load from DB	Load previously saved proxies from the built-in database
Save to DB	Save the current proxy list to the built-in database for reuse

Note: If no proxies are entered, traffic is sent directly from your machine's IP address.

3.5 Duration Configuration

Setting	Range	Description
Number of Threads	1–100	How many concurrent browser sessions run simultaneously
Traffic Simulation	Visits / Time	Stop after a set number of visits, or run for a set duration
Number of Visits	1–1,000,000	Total visits to complete (active when Visits Based is selected)
Duration (HH:MM)	Any time	Total run time in hours and minutes (active when Time Based is selected)

4. Profile Sub-Tabs

The four sub-tabs below the URL/Proxy section control engine selection, device fingerprints, language/timezone, and page behaviour settings.

4.1 Engines Sub-Tab

Select which browser engine to use and check installation status.

Engine	Technology	Best For
Engine-1 (default)	Puppeteer / Chrome	High-speed traffic generation with lower resource usage
Engine-2	Playwright / Chromium	Higher success rate on complex or protected sites

- **Green / Installed:** Engine is ready to use

- **Red / Not Available:** Click Install to download and set up the engine

Important: OverRider checks engine availability on startup and again when you click Start Traffic. If the selected engine is not installed, traffic will not start.

4.2 Device Profiles Sub-Tab

Filter the pool of realistic hardware and browser fingerprints assigned to each visit. All options are enabled by default. The profile count at the bottom shows how many unique fingerprints match the current filters.

Device Types

- Desktop, Mobile, Tablet

Operating Systems

- Windows, Linux, macOS, Android, iOS

Browsers

- Chrome, Firefox, Safari, Edge

CPU Cores

- 4, 6, 8, 10, 12, 16 cores

RAM

- 4 GB, 6 GB, 8 GB, 12 GB, 16 GB, 32 GB, 64 GB

Screen Resolutions

- 1366×768 (HD), 1440×900, 1536×864, 1920×1080 (Full HD), 2560×1440 (2K), 3840×2160 (4K)
- Mobile (360–414 px wide), Tablet (800–1848 px wide)

Fingerprint Protection

Option	Effect
Canvas Fingerprinting Protection	Adds subtle noise to the Canvas API to prevent canvas-based fingerprinting
WebRTC IP Leak Protection	Blocks WebRTC to prevent your real IP address from leaking through the browser
WebGL Spoofing	Spoofs the GPU vendor and renderer strings to match the selected device profile

Tip: Keep all three fingerprint protection options enabled for the most authentic sessions.

4.3 Language & Timezone Sub-Tab

Select which browser language and timezone combinations are used in sessions. Entries are organised by region.

- Regions: North America, Europe, Asia-Pacific, Middle East & Africa, Latin America

- The bold blue checkbox at the top of each region selects or deselects the entire region

- Individual checkboxes show format: *Language (Timezone) [UTC offset]*

- The stats label at the bottom shows how many combinations are currently active

Tip: Enable multiple regions to simulate geographically diverse visitor traffic.

4.4 Page Visit Behavior Sub-Tab

Resource Loading

Setting	Default	Description
Load Images	On	Download and render page images
Load CSS	On	Download and apply stylesheets
Load JavaScript	On	Execute page scripts (required for most modern sites)

Tip: Disabling images can significantly speed up visits and reduce bandwidth usage.

Timing Settings

Setting	Default	Range	Description
Page Load Wait	30 s	1–120 s	Maximum time to wait for a page to fully load
Min Stay Time	45 s	1–300 s	Minimum time the browser stays on a page before moving on
Max Stay Time	300 s	1–600 s	Maximum time the browser stays on a page

Human-Like Behavior Settings

Setting	Default	Description
Enable Page Scrolling	On	Simulates realistic scroll behaviour with variable speed and pauses
Enable Mouse Movement	On	Moves the cursor along natural asymmetric Bezier curves with per-step hand-tremor jitter. Speed varies per move (fast, normal, or slow) to closely replicate real human behaviour.
Enable Mouse Clicks on Links	On	Clicks random links during a visit to simulate deeper browsing sessions

Link Click Options

These settings become active when **Enable Mouse Clicks on Links** is turned on.

Setting	Default	Description
Click Internal Links	On	Follow links that stay within the same website
Click External Links	Off	Follow links that go to other websites
Link Navigation	Same Page	Same Page: navigate and return | New Tab: open in background tab | Mixed: random
Clicked Link Stay Time	30–90 s	Min/Max seconds to stay on a page reached by clicking a link
Delay Between Clicks	15–60 s	Min/Max seconds to wait between clicking multiple links on the same visit
Max Link Depth	2	How many levels deep the browser navigates via link clicks (1–3)
Time Buffer for Clicks	15 s	Skip link clicking if fewer than this many seconds remain in a session

5. Logs & Results Tab

Real-Time Statistics

The statistics panel at the top updates continuously during a traffic session:

Metric	Description
Elapsed Time	How long the current session has been running
Total Requests	Total number of page visit attempts
Successful	Number of visits that completed without error
Failed	Number of visits that encountered an error or timeout
Requests/sec	Current visit throughput rate
Success Rate	Percentage of visits that succeeded
Avg Response	Average page load time across all completed visits
Active Threads	Number of browser sessions currently running

Live Traffic Log

The log panel streams activity in real time. You do not have to wait for a visit to finish — each step (page load, scroll, mouse move, link click) appears immediately as it happens.

- ✓ prefix — step completed successfully
- ✗ prefix — step failed or produced an error
- Each log line includes the thread worker ID for easy tracking

Results Table

A detailed record of every completed visit. Columns:

Column	Description
URL	The target page that was visited
Status	Success or failure result
Response Time (ms)	Time for the initial server response
Total Time (ms)	Total time from start to completion of the visit
Engine	Which browser engine was used (Engine-1 or Engine-2)
Thread ID	Worker thread number
Proxy	Proxy used for this visit (or Direct)
User Agent	Browser user agent string used
Device Type	Device fingerprint category (Desktop / Mobile / Tablet)
Referer	Referer URL sent with this visit
Timestamp	Date and time of the visit

Click **Export Results** to save the entire table as a CSV file.

6. Control Buttons

Button	Shortcut	Description
Start Traffic	Ctrl+S	Validates all settings, checks engine availability, then starts the simulation
Stop Traffic	Ctrl+T	Sends stop signal to all running worker threads. Active sessions may take a moment to close cleanly.
Clear Log	—	Clears the live traffic log panel (does not affect the results table)

Button	Shortcut	Description
Export Results	—	Saves the current results table to a CSV file for analysis and reporting

7. Menu Bar

Traffic Menu

Item	Shortcut	Action
Start Traffic	Ctrl+S	Start the traffic simulation
Stop Traffic	Ctrl+T	Stop the traffic simulation
Exit	Ctrl+Q	Close the application

Help Menu

Item	Shortcut	Action
User Guide	F1	Open the user guide dialog
Keyboard Shortcuts	Ctrl+K	View all keyboard shortcuts
Check for Updates	—	Check for a newer version of OverRider
About	—	View version, license, and contact information
Activate License	—	Enter or change your license key

8. Keyboard Shortcuts

Action	Shortcut
Start Traffic	**Ctrl + S**
Stop Traffic	**Ctrl + T**
Exit Application	**Ctrl + Q**
User Guide	**F1**
Keyboard Shortcuts	**Ctrl + K**
Navigate between fields	**Tab**

Action	Shortcut
Switch between tabs	**Ctrl + Tab**
Close dialogs	**Escape**

9. Best Practices

Campaigns

- Create a separate named campaign for each client or project
- Name campaigns clearly (e.g. *Client-A Monthly SEO* or *Site Load Test Q1*)
- OverRider restores the last-used campaign automatically on startup

Threading

- Start with 5–10 threads and increase gradually while monitoring the success rate
- Higher thread counts require more system RAM and CPU — monitor system resources
- If success rate drops below 80%, reduce thread count or switch to Engine-2

Referers & Traffic Sources

- Use at least 5–6 different referers for realistic, diverse traffic attribution
- Mix organic search, social, and direct (blank referer) sources for natural-looking analytics
- Use the **Add Referers** button to generate realistic search engine referer URLs quickly

Proxies

- Use residential or rotating proxies for the best success rate and lowest detection risk
- Rotate proxies regularly to avoid IP-based rate limiting
- Avoid free proxies — they are slow, unreliable, and often blocked

Device Profiles & Language

- Keep all device type, OS, browser, and hardware filters enabled for maximum diversity
- Enable multiple language/timezone regions to simulate geographically spread visitors
- Keep all three fingerprint protection options enabled at all times

Page Behaviour

- Keep Mouse Movement, Scrolling, and Link Clicks enabled for the most authentic sessions

- Set stay times to match the typical engagement time for your target website

- Use Max Link Depth 2 (default) for a good balance between realism and speed

Monitoring

- Watch the Live Log at the start of each session to confirm visits are succeeding

- Check the Success Rate stat — if it falls significantly, investigate errors in the log

- Export results after each session to keep records for client reporting

- Check for updates regularly via Help > Check for Updates

---

10. Troubleshooting

Browser Executable Not Available

If you see a message like *"browser executable is not available at C:\..."* when starting traffic, the engine folder needs to be cleared and reinstalled:

- **Engine-1 fix:** Press Win+R, enter `%USERPROFILE%\.cache`, press Enter. Delete the `puppeteer` folder. Then go to the Engines sub-tab and click **Install** for Engine-1.

- **Engine-2 fix:** Press Win+R, enter `%LOCALAPPDATA%`, press Enter. Delete the `ms-playwright` folder. Then go to the Engines sub-tab and click **Install** for Engine-2.

Common Issues

Problem	Likely Cause	Solution
Traffic does not start — engine alert appears	Selected engine browser is not installed	Go to the Engines sub-tab and click Install next to the engine showing Not Available
High failure rate	Proxy failures, network errors, or target site blocking	Check the live log for specific error messages. Replace bad proxies. Reduce thread count. Switch engine.
Analytics shows no traffic	Referer not set correctly, or GA4 not configured	Verify referer URLs are correct. Confirm GA4 is implemented on the target page.
Sessions are very slow	Too many threads, slow proxies, or heavy pages	Reduce threads. Try faster proxies. Uncheck Load Images.

Problem	Likely Cause	Solution
Campaign settings not saving	Campaign data folder permissions issue	Check that %APPDATA%\OverRider\campaigns\ exists and is writable.
Page load timeout errors	Page Load Wait is too short for slow pages	Increase the Page Load Wait value in Page Visit Behavior settings (default 30 s).

Need Additional Help?

Contact our technical support team for assistance with OverRider.

Email: support@overrider.io