



## Zoraxy

General purpose request (reverse) proxy and forwarding tool for networking noobs. Now written in Go!

*Zoraxy v3 HTTP proxy config is not compatible with the older v2. If you are looking for the legacy version of Zoraxy, take a look at the v2 branch*

### Features

- Simple to use interface with detail in-system instructions
- Reverse Proxy (HTTP/2)
  - Virtual Directory
  - WebSocket Proxy (automatic, no set-up needed)
  - Basic Auth
  - Alias Hostnames
  - Custom Headers
- Redirection Rules
- TLS / SSL setup and deploy
  - ACME features like auto-renew to serve your sites in https
  - SNI support (and SAN certs)
- Blacklist / Whitelist by country or IP address (single IP, CIDR or wildcard for beginners)
- Global Area Network Controller Web UI (ZeroTier not included)
- TCP Tunneling / Proxy
- Integrated Up-time Monitor
- Web-SSH Terminal
- Utilities

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- CIDR IP converters
    - mDNS Scanner
    - IP Scanner
  - Others
    - Basic single-admin management mode
    - External permission management system for easy system integration
    - SMTP config for password reset

## Downloads

Windows /Linux (amd64) /Linux (arm64)

For other systems or architectures, please see Release

## Build from Source

Requires Go 1.22 or higher

```
1 git clone https://github.com/tobychui/zoraxy
2 cd ./zoraxy/src/
3 go mod tidy
4 go build
5
6 sudo ./zoraxy -port=:8000
```

## Usage

Zoraxy provides basic authentication system for standalone mode. To use it in standalone mode, follow the instructions below for your desired deployment platform.

### Standalone Mode

Standalone mode is the default mode for Zoraxy. This allows a single account to manage your reverse proxy server, just like a home router. This mode is suitable for new owners to homelabs or makers starting growing their web services into multiple servers.

#### Linux

```
1 sudo ./zoraxy -port=:8000
```

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**Windows** Download the binary executable and double click the binary file to start it.

**Raspberry Pi** The installation method is same as Linux. If you are using a Raspberry Pi 4 or newer models, pick the arm64 release. For older version of Pis, use the arm (armv6) version instead.

**Other ARM SBCs or Android phone with Termux** The installation method is same as Linux. For other ARM SBCs, please refer to your SBC's CPU architecture and pick the one that is suitable for your device.

**Docker** See the /docker folder for more details.

### Start Paramters

```
1 Usage of zoraxy:
2   -autorenew int
3       ACME auto TLS/SSL certificate renew check interval (seconds) (
4           default 86400)
5   -fastgeoip
6       Enable high speed geoip lookup, require 1GB extra memory (Not
7       recommend for low end devices)
8   -info
9       Show information about this program in JSON
10  -log
11     Log terminal output to file (default true)
12  -mdns
13     Enable mDNS scanner and transponder (default true)
14  -noauth
15     Disable authentication for management interface
16  -port string
17     Management web interface listening port (default ":8000")
18  -sshlb
19     Allow loopback web ssh connection (DANGER)
20  -version
21     Show version of this server
22  -webfm
23     Enable web file manager for static web server root folder (
24         default true)
25  -webroot string
26     Static web server root folder. Only allow chnage in start
27     paramters (default "./www")
28  -ztauth string
29     ZeroTier authtoken for the local node
30  -ztport int
31     ZeroTier controller API port (default 9993)
```

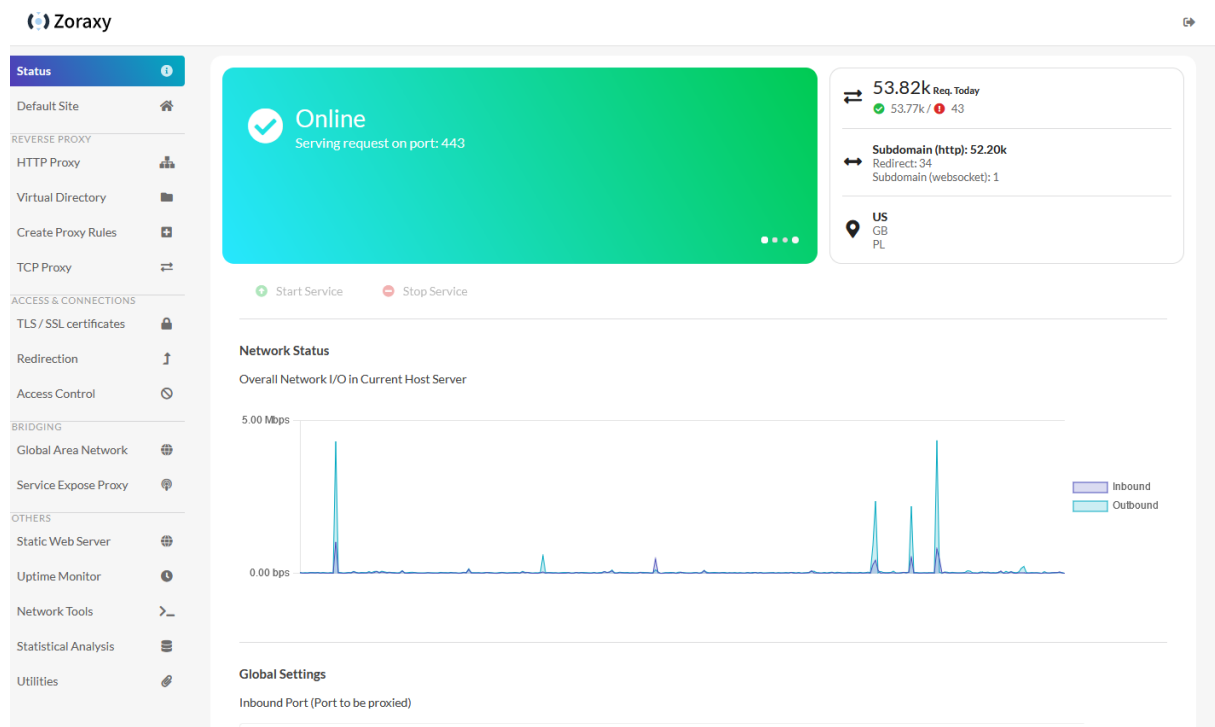
## External Permission Management Mode

If you already have an upstream reverse proxy server in place with permission management, you can use Zoraxy in noauth mode. To enable noauth mode, start Zoraxy with the following flag:

```
1 ./zoraxy -noauth=true
```

*Note: For security reasons, you should only enable no-auth if you are running Zoraxy in a trusted environment or with another authentication management proxy in front.*

## Screenshots



Status

Default Site

REVERSE PROXY

HTTP Proxy

Virtual Directory

Create Proxy Rules

TCP Proxy

ACCESS & CONNECTIONS

TLS / SSL certificates

Redirection

Access Control

BRIDGING

Global Area Network

Service Expose Proxy

OTHERS

Static Web Server

Uptime Monitor

Network Tools

Statistical Analysis

Utilities

HTTP Proxy

Proxy HTTP server with HTTP or HTTPS for multiple hosts. If you are only proxying for one host / domain, use Default Site instead.

Host	Destination	Basic Auth	Actions
	127.0.0.1:8080/download	<input type="checkbox"/> Require TLS Proxy target require HTTPS connection <input type="checkbox"/> Skip Verification Check this if proxy target is using self signed certificates	<input checked="" type="checkbox"/> Require Basic Auth <span>Edit Credentials</span>
	127.0.0.1:8080/tech		
	127.0.0.1:8081		
	127.0.0.1:8081		
	127.0.0.1:8089		
	192.168.0.164		
	192.168.195.41:8080		
	192.168.196.15:8082		
	192.168.196.210:3000		
	localhost:8000		

Refresh

More screenshots on the [wikipage Screenshots!](#)

## FAQ

There is a [wikipage](#) with Frequently-Asked-Questions!

## Global Area Network Controller

This project also compatible with ZeroTier. However, due to licensing issues, ZeroTier is not included in the binary.

To use Zoraxy with ZeroTier, assuming you already have a valid license, install ZeroTier on your host and then run Zoraxy in sudo mode (or Run As Administrator if you are on Windows). The program will automatically grab the authtoken in the correct location on your host.

If you prefer not to run Zoraxy in sudo mode or you have some weird installation profile, you can also pass in the ZeroTier auth token using the following flags::

```
1 ./zoraxy -ztauth="your_zerotier_authtoken" -ztpport=9993
```

The ZeroTier auth token can usually be found at `/var/lib/zerotier-one/authtoken.secret` or `C:\ProgramData\ZeroTier\One\authtoken.secret`.

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This allows you to have an infinite number of network members in your Global Area Network controller. For more technical details, see [here](#).

## Web SSH

Web SSH currently only supports Linux based OSes. The following platforms are supported: - linux/amd64 - linux/arm64 - linux/armv6 (experimental) - linux/386 (experimental)

## Loopback Connection

Loopback web SSH connection, by default, is disabled. This means that if you are trying to connect to an address like 127.0.0.1 or localhost, the system will reject your connection for security reasons. To enable loopback for testing or development purpose, use the following flags to override the loopback checking:

```
1 ./zoraxy -ssh1b=true
```

## Sponsor This Project

If you like the project and want to support us, please consider a donation. You can use the links below - tobychui (Primary author) - PassiveLemon (Docker compatibility maintainer)

## License

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