

GitHub - b23r0/rsocx: A bind/reverse Socks5 proxy server.

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A high performance Socks5 proxy server with bind/reverse support

Features

- Async
- Single executable
- Linux/Windows/Mac/BSD support
- Support reverse mode(Not bind any port in client)

Build & Run

```
$> cargo build --release
```

Installation

```
$> cargo install rsocx
```

Usage

Bind Mode

You can run a socks5 proxy and listen port at 1080

```
$> ./rsocx -l 0.0.0.0:1080
```

Reverse Mode

First listen a port waiting for slave connection

```
$> ./rsocx -t 0.0.0.0:8000 -s 0.0.0.0:1080
```

then reverse connect to master in slave

```
$> ./rsocx -r 127.0.0.1:8000
```

Benchmark

Simple load test through `proxychains4` visit to Tornado's `helloworld` case in LAN.

```

import grequests
import time
start = time.time()
req_list = [grequests.get('http://192.168.0.222:8888') for i in range(1000)]
res_list = grequests.map(req_list)
print(time.time()-start)

```

Test Envoriment

Envoriment	Value
Proxy OS	Windows11
CPU	i7-9700k
Target OS	Ubuntu20.04
Network	LAN
Target Server	Tornado(Python)
Test Count	1k
Socks5 client	Proxychains4

Test Result

Project	Language	Base	Take Time
rsocx	Rust	Async-std	12.90s
rsocx(reverse)	Rust	Aysnc-std	24.65s
merino	Rust	Tokio	12.37s
go-socks5	Golang	goroutine	12.31s
simple-socks	Nodejs	async	13.71s
asio5	C++	Boost::Asio	12.37s
esocks	Java	Thread-Pool	25.06s

(Test Date : 13 Nov 2021)

Socks5 Protocol Support

- IPV6 Support

- SOCKS5 Authentication Methods
 - NOAUTH
 - USERPASS
- SOCKS5 Commands
 - CONNECT
 - BIND
 - ASSOCIATE

Reference

- <https://github.com/ajmwagar/merino>
- <https://github.com/yldzsw/v2socks>

Source: <https://github.com/b23r0/rsocx>