

**XZB-1248/Spark:** ✨ Spark is a web-based, cross-platform and full-featured Remote Administration Tool (RAT) written in Go that allows you control all your devices anywhere. Spark是一个Go编写的，网页UI、跨平台以及多功能的远程控制和监控工具，你可以随时随地监控和控制所有设备。

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 [github.com/XZB-1248/Spark](https://github.com/XZB-1248/Spark)

XZB-1248

[\[English\]](#) [\[中文\]](#) [\[API Document\]](#) [\[API文档\]](#)

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## Spark

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**Spark** is a free, safe, open-source, web-based, cross-platform and full-featured RAT (Remote Administration Tool) that allow you to control all your devices via browser anywhere.

We **won't** collect any data, thus the server will never self-upgrade. Your clients will only communicate with your server forever.

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repo size 29.8 MB

issues 16 open

issues 28 closed

downloads 4.1k

downloads@latest 1.4k

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## Disclaimer

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**THIS PROJECT, ITS SOURCE CODE, AND ITS RELEASES SHOULD ONLY BE USED FOR EDUCATIONAL PURPOSES.**

**ALL ILLEGAL USAGE IS PROHIBITED!**

**YOU SHALL USE THIS PROJECT AT YOUR OWN RISK.**

**THE AUTHORS AND DEVELOPERS ARE NOT RESPONSIBLE FOR ANY DAMAGE CAUSED BY YOUR MISUSE OF THIS PROJECT.**

**YOUR DATA IS PRICELESS. THINK TWICE BEFORE YOU CLICK ANY BUTTON OR ENTER ANY COMMAND.**

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## Quick start

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## binary

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- Download executable from [releases](#).
  - Following [this](#) to complete configuration.
  - Run executable and browse to <http://IP:Port> to access the web interface.
  - Generate a client and run it on your target device.
  - Enjoy!
- 

## Configuration

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Configuration file `config.json` should be placed in the same directory as the executable file.  
Example:

```
{
  "listen": ":8000",
  "salt": "123456abcdefg",
  "auth": {
    "username": "password"
  },
  "log": {
    "level": "info",
    "path": "./logs",
    "days": 7
  }
}
```

- `listen` required, format: `IP:Port`
  - `salt` required, length  $\leq 24$ 
    - after modification, you need to re-generate all clients
  - `auth` optional, format: `username:password`
    - hashed-password is highly recommended
    - format: `$algorithm$hashed-password`, example: `$sha256$123456abcdefg`
    - supported algorithms: `sha256`, `sha512`, `bcrypt`
    - if you don't follow the format, password will be treated as plain-text
  - `log` optional
    - `level` optional, possible value: `disable`, `fatal`, `error`, `warn`, `info`, `debug`
    - `path` optional, default: `./logs`
    - `days` optional, default: `7`
- 

## Features

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Feature/OS	Windows	Linux	MacOS
Process manager	✓	✓	✓
Kill process	✓	✓	✓
Network traffic	✓	✓	✓
File explorer	✓	✓	✓
File transfer	✓	✓	✓
File editor	✓	✓	✓
Delete file	✓	✓	✓
Code highlight	✓	✓	✓
Desktop monitor	✓	✓	✓
Screenshot	✓	✓	✓
OS info	✓	✓	✓
Terminal	✓	✓	✓
* Shutdown	✓	✓	✓
* Reboot	✓	✓	✓
* Log off	✓	✗	✓
* Sleep	✓	✗	✓
* Hibernate	✓	✗	✗
* Lock screen	✓	✗	✗

- Blank cell means the situation is not tested yet.
- The Star symbol means the function may need administration or root privilege.

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## Screenshots

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Generate client

Hostname	Username	Ping	CPU Usage	RAM Usage	Disk Usage	OS	Arch	RAM	MAC	LAN	WAN	Uptime	Network	Operations
LOCALHOST	1248	0ms				windows	amd64	7.85 GB	00:00:00:00:00:00	0.0.0.0	0.0.0.0	22h 53m	2.2 Kbps I / 4.4 Kbps L	Terminal Process Explorer ...

- Run
- Desktop
- Screenshot
- Lock
- Logoff
- Hibernate
- Suspend
- Restart
- Shutdown
- Offline

Generate client

Hostname	Username	Ping	CPU Usage	RAM Usage	Disk Usage	OS	Arch	RAM	MAC	LAN	WAN	Uptime	Network	Operations
LOCALHOST	1248	0ms				windows	amd64	7.85 GB	00:00:00:00:00:00	0.0.0.0	0.0.0.0	22h 53m	2.2 Kbps I / 4.4 Kbps L	Terminal Process Explorer ...

```
Terminal
CTRL ESC TAB [ ] [ ] [ ] [ ] Function Keys ...
root@localhost:/#
```



Desktop 95.14 KB/s FPS: 5

127.0.0.1:3000

Spark

Hostname	Username	Ping	CPU Usage	RAM Usage	Disk Usage	OS	Arch	RAM	MAC	LAN	WAN	Uptime	Traffic	Operations
LOCALHOST	1248	0ms	<div style="width: 10%;"></div>	<div style="width: 20%;"></div>	<div style="width: 10%;"></div>	windows	amd64	7.85 GB	00:00:00:00:00:00	192.168.1.5	127.0.0.1	9h 5m	0 Kbps ↑ / 1.6 Kbps ↓	Terminal ProcMgr Explorer ...

Operations: Screenshot, Desktop, Lock, Logoff, Hibernate, Suspend, Restart, Shutdown, Offline

Spark - 个人 - Mic...

22:50 2022/7/12



Hostname	Username	Ping	CPU Usage	RAM Usage	Disk Usage	OS	WAN	Uptime	Traffic	Operations
LOCALHOST	1248	0ms	<div style="width: 10%;"></div>	<div style="width: 20%;"></div>	<div style="width: 10%;"></div>	windows	127.0.0.1	1h 24m	0 Kbps ↑ / 0 Kbps ↓	Terminal ProcMgr Explorer ...

Process Manager

Process	Pid	Kill
msedge.exe	10952	Kill
BridgeCommunication.exe	10868	Kill
explorer.exe	10592	Kill
WeChat.exe	10540	Kill
WeChatAppEx.exe	10284	Kill
msedge.exe	10168	Kill
msedge.exe	10080	Kill
dllhost.exe	10016	Kill

Spark

Hostname	Username	Ping	CPU Usage	RAM Usage
LOCALHOST	1248	0ms		

File Explorer

Please enter

Selected 0 item(s), 25 item(s) in total

Name	Size	Modify Time	
<input type="checkbox"/> boot	-	-	Download ...
<input type="checkbox"/> dev	-	-	Download ...
<input type="checkbox"/> etc	-	-	Download ...
<input type="checkbox"/> home	-	-	Download ...
<input type="checkbox"/> lost+found	-	-	Download ...
<input type="checkbox"/> media	-	-	Download ...
<input type="checkbox"/> mnt	-	-	Download ...
<input type="checkbox"/> opt	-	-	Download ...

Network	Operations
2.2 Kbps ↑ / 1.0 Kbps ↓	Terminal ProcMgr Explorer ...

Generate client

Spark

Hostname	Username	Ping	CPU Usage	RAM Usage	Disk Usage	OS	Arch	RAM	MAC	LAN	WAN	Uptime	Traffic	Operations
LOCALHOST	1248	0ms				windows	amd64	7.85 GB	00:00:00:00:00:00	192.168.1.5	127.0.0.1	7h 11m	0 Kbps ↑ / 0 Kbps ↓	Terminal ProcMgr Explorer ...

Intel(R) Core(TM) i5-9300H CPU @ 2.40GHz  
 CPU Usage: 2.07%  
 Logical Processors: 8  
 Physical Processors: 4

Generate client

```
Save Search Replace Font Theme

1 #
2 # Sample configuration file for the Samba suite for Debian GNU/Linux.
3 #
4 #
5 # This is the main Samba configuration file. You should read the
6 # smb.conf(5) manual page in order to understand the options listed
7 # here. Samba has a huge number of configurable options most of which
8 # are not shown in this example
9 #
10 # Some options that are often worth tuning have been included as
11 # commented-out examples in this file.
12 # - When such options are commented with ";", the proposed setting
13 # differs from the default Samba behaviour
14 # - When commented with "#", the proposed setting is the default
15 # behaviour of Samba but the option is considered important
16 # enough to be mentioned here
17 #
18 # NOTE: Whenever you modify this file you should run the command
19 # "testparm" to check that you have not made any basic syntactic
20 # errors.
21
22 #----- Global Settings -----
23
24 [global]
25
26 ## Browsing/Identification ##
27
28 # Change this to the workgroup/NT-domain name your Samba server will part of
29 workgroup = WORKGROUP
30
31 ##### Networking #####
32
33 # The specific set of interfaces / networks to bind to
34 # This can be either the interface name or an IP address/netmask;
35 # interface names are normally preferred
36 ; interfaces = 127.0.0.0/8 eth0
37
38 # Only bind to the named interfaces and/or networks; you must use the
39 # 'interfaces' option above to use this.
40 # It is recommended that you enable this feature if your Samba machine is
41 # not protected by a firewall or is a firewall itself. However, this
```

## Development

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### note

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There are three components in this project, so you have to build them all.

Go to [Quick start](#) if you don't want to make yourself boring.

- Client
- Server
- Front-end

If you want to make client support OS except linux and windows, you should install some additional C compiler.

For example, to support android, you have to install [Android NDK](#).

### tutorial

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```
# Clone this repository.
$ git clone https://github.com/XZB-1248/Spark
$ cd ./Spark

# Here we're going to build front-end pages.
$ cd ./web
# Install all dependencies and build.
$ npm install
$ npm run build-prod

# Embed all static resources into one single file by using statik.
$ cd ..
$ go install github.com/rakyll/statik
$ statik -m -src="./web/dist" -f -dest="./server/embed" -p web -ns web

# Now we should build client.
# When you're using unix-like OS, you can use this.
$ mkdir ./built
$ go mod tidy
$ go mod download
$ ./scripts/build.client.sh

# Finally we're compiling the server side.
$ mkdir ./releases
$ ./scripts/build.server.sh
```

Then create a new directory with a name you like.  
Copy executable file inside `releases` to that directory.  
Copy the whole `built` directory to that new directory.  
Copy configuration file mentioned above to that new directory.  
Finally, run the executable file in that directory.

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## Dependencies

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Spark contains many third-party open-source projects.

Lists of dependencies can be found at `go.mod` and `package.json`.

Some major dependencies are listed below.

## Back-end

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- [Go \(License\)](#)
- [gin-gonic/gin \(MIT License\)](#)



- [imroc/req](#) (MIT License)
- [kbinani/screenshot](#) (MIT License)
- [shirou/gopsutil](#) (License)
- [gorilla/websocket](#) (BSD-2-Clause License)
- [orcaman/concurrent-map](#) (MIT License)

## Front-end

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- [React](#) (MIT License)
- [Ant-Design](#) (MIT License)
- [axios](#) (MIT License)
- [xterm.js](#) (MIT License)
- [crypto-js](#) (MIT License)

## Acknowledgements

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- [natpass](#) (MIT License)
  - Image difference algorithm inspired by natpass.
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## Stargazers over time

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rate limited, please try again later

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## License

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BSD-2 License