



How to setup no-IP DDNS on iSite Router

DESCRIPTION

HTTP API is available to use on all SilverNet routers. Users can follow the below steps to invoke control and manage devices directly.

REQUIREMENT

- SilverNet Router/CPE
- Linux system

CONFIGURATION

1. Install Curl software to Linux System

```
sudo apt install curl
```

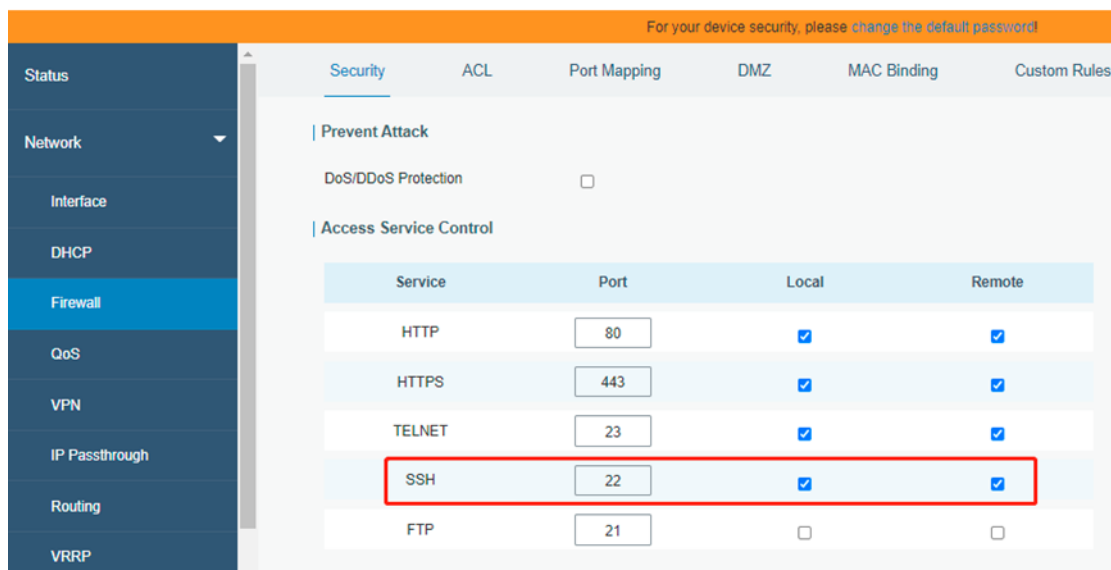
Check install result:

```
curl -V
```

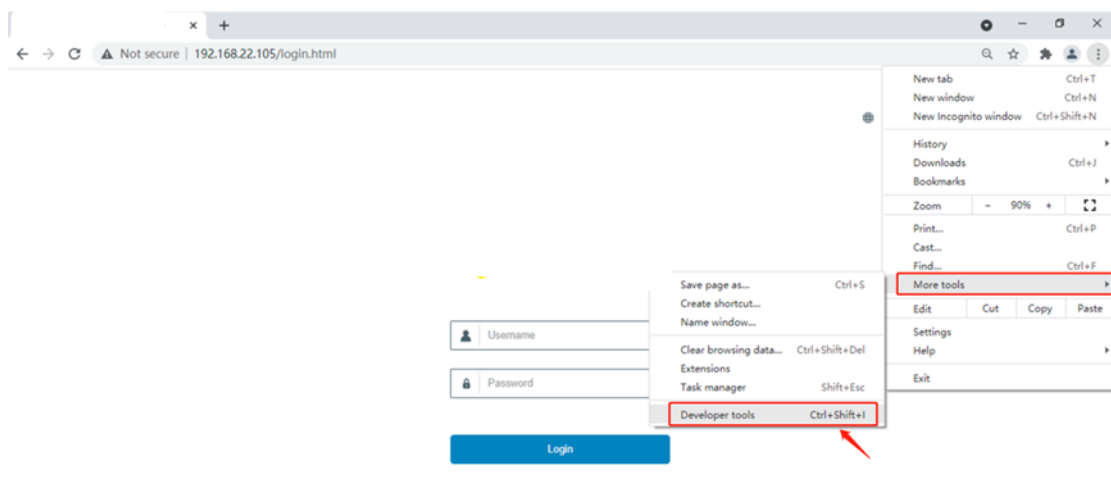
If curl software has been installed correctly, you can get software version later.

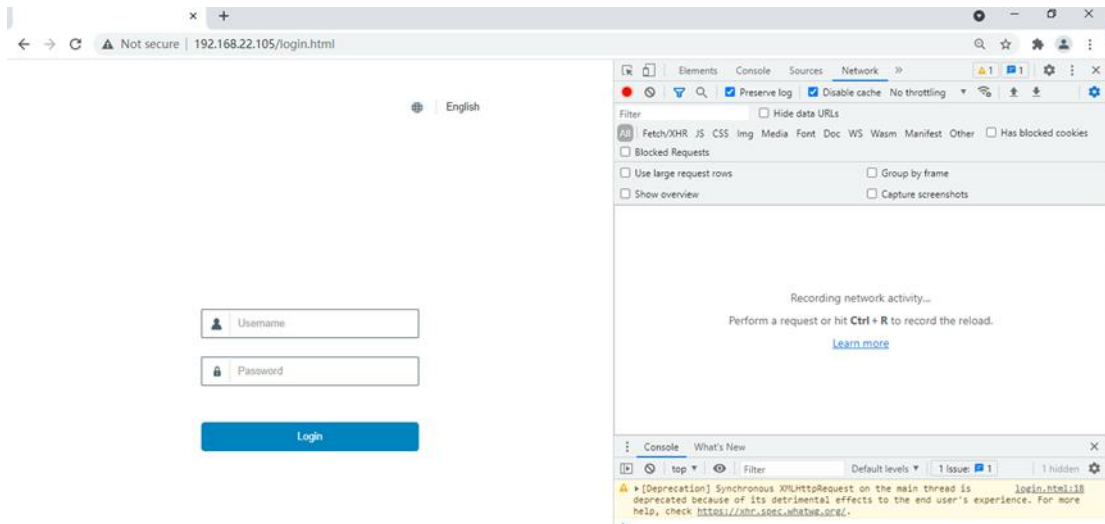
```
nancy@ubuntu:~$ curl -V
curl 7.47.0 (x86_64-pc-linux-gnu) libcurl/7.47.0 GnuTLS/3.4.10 zlib/1.2.8 libidn/1.32 librtmp/2.3
Protocols: dict file ftp ftps gopher http https imap imaps ldap ldaps pop3 pop3s rtmp rtsp smb smbs smtp smtps telnet tftp
Features: AsynchDNS IDN IPv6 Largefile GSS-API Kerberos SPNEGO NTLM NTLM_WB SSL libz TLS-SRP UnixSockets
```

2. Access SilverNet iSite web GUI, go to **Network > Firewall > Security**, enable **SSH** access service, and **Save** it.

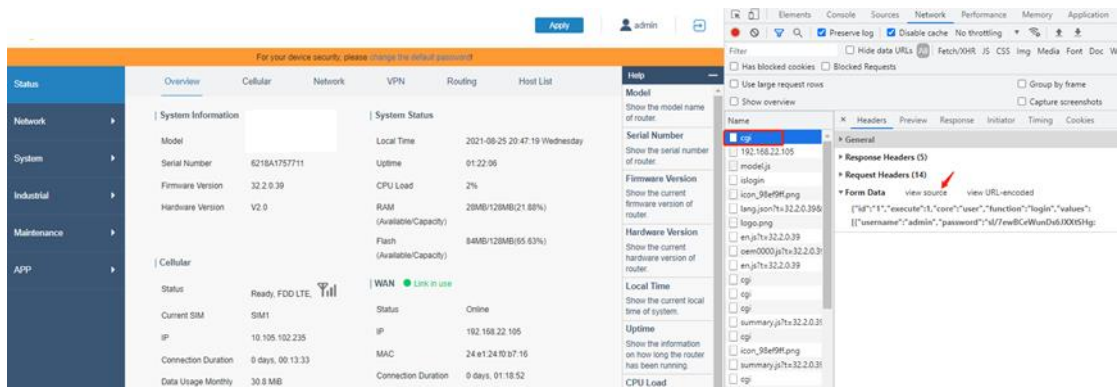


3. Access routers web GUI to get “cgi” message to get API token key.
- 1) Open a Google browser, access routers IP address.
- 2) Click **Main Menu> More Tools >Developer Tools** to open developer Tool.

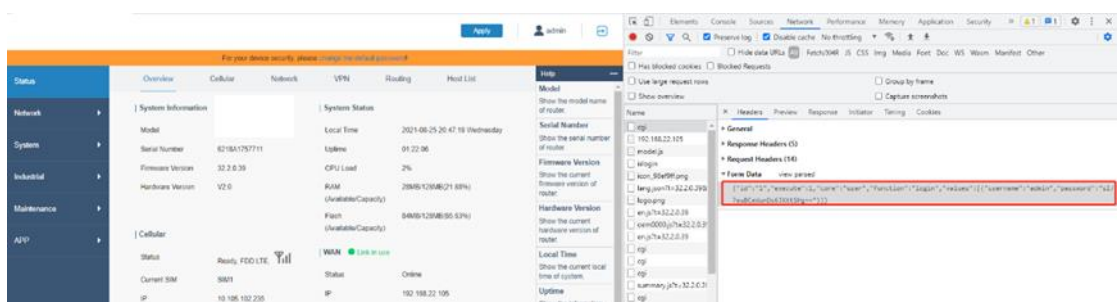




- 3) Fill in account and password to login to the router. Then we will get a “cgi” message on the right textbox. Click **View Source**.



- 4) Copy the current cgi content.



- 5) Paste step 3 “cgi” content to below command. Remember to change IP “192.168.22.105” to your device IP address.

```
curl -H "Content-Type:application/x-www-form-urlencoded" -c ./cookie.txt -X POST --  
data '{"id":"1","execute":1,"core":"user","function":"login","values":{"username":"admin","password":"sl/7ewE
```

Then we will get below response, which means that it receives and saves token key.

```
nancy@ubuntu:~$ curl -H "Content-type:application/x-www-form-urlencoded" -c /cookie.txt -X POST -data '{"id":"1","execute":"i","core":"user","function":"login","values":{"username":"admin","password":"sI7ewBcEwUmDs6jXtXh9"}'}' http://192.168.22.105/cgi/{"id":"1","model":"UR32","pn":"L00AU0011110AU000000000","oem":"0000","rtver":"32.2.0.39","status":0,"result":{"ysrole":"4","ystimeout":0}}
```

6) After getting the token key successfully, users can invoke API of the router remotely.

Here are some related common API commands listed below for reference. Users can get other API commands by repeating the above steps.

Note:

Remember to replace device-specific content in the below command.

1) Make router send SMS to phone number "17799999999", SMS content is "123456".

```
curl -H "Content-Type:application/x-www-form-urlencoded" -b ./cookie.txt -X POST --data
{'id':27,'execute':1,'core':"yruo_sms",'function':"send",'values':{'base':"yruo_sms",'index':1,'value':{'des
http://192.168.22.105/cgi
```

```
nancy@ubuntu:~$ curl -H "Content-Type:application/x-www-form-urlencoded" -X POST -d '{"id":27,"execute":1,"core":"yruo_sms","function":"send","values":{"base":"yruo_sms","index":1,"value":{"destination":"177","","content":"123456"},"http":{"url":"http://192.168.22.105/cgi-bin/123456","id":27,"model":"UR32","pn":"L06A00011111A0A000000000","oem":"","ptnr":"","rtver":"32.2.0.39","status":0,"result":{"}}}'
```

2) Query router SMS send history.

```
curl -H "Content-Type:application/x-www-form-urlencoded" -b ./cookie.txt -X POST --data
{"id":7,"execute":1,"core":"yruo sms","function":"query_outbox","values":{"base":"query_outbox","limit":10,"
```

[illegible]

3) Query router received SMS history.

```
curl -H "Content-Type:application/x-www-form-urlencoded" -X POST -b ./cookie.txt --data
{"id":6,"execute":1,"core":"yruo sms","function":"query inbox","values":{"base":"query inbox","limit":10,"sta
```

```
nancy@ubuntu:~$ curl -H "Content-Type:application/x-www-form-urlencoded" -X POST -b ./cookie.txt --data '{"id":6,"execute":1,"core":"yruo_sms","function":"query_inbox","values":[{"base":"query_inbox","limit":10,"start":0,"language":"en","key":"time","order":0,"start_date":"","end_date":"","from":""}]}' http://192.168.22.105/cgi
```

4) Query router cellular traffic consumption.

```
curl -H "Content-Type:application/x-www-form-urlencoded" -b ./cookie.txt -X POST --data '{"id":97,"execute":1,"core":"yruo_status","function":"get","values":[{"base":"yruo_celluar"}]}' http://192.168.22.105/cgi
```

```
nancy@ubuntu:~$ curl -H "Content-Type:application/x-www-form-urlencoded" -b ./cookie.txt -X POST --data '{"id":97,"execute":1,"core":"yruo_status","function":"get","values":[{"base":"yruo_celluar"}]}' http://192.168.22.105/cgi
```

5) Change log severity level to "Debug" level.

```
curl -H "Content-Type:application/x-www-form-urlencoded" -b ./cookie.txt -X POST --data '{"id":14,"execute":1,"core":"yruo_log","function":"set","values":[{"base":"log_settings","index":1,"value":{"loglevel":8}}]}' http://192.168.22.105/cgi
```

```
root@ubuntu:/home/harry# curl -H "Content-Type:application/x-www-form-urlencoded" -b ./cookie.txt -X POST --data '{"id":14,"execute":1,"core":"yruo_log","function":"set","values":[{"base":"log_settings","index":1,"value":{"loglevel":8}}]}' http://192.168.22.105/cgi
```

6) Reboot the router.

```
curl -H "Content-Type:application/x-www-form-urlencoded" -b ./cookie.txt -X POST --data '{"id":6,"execute":1,"core":"yruo_upgrade","function":"reboot","values":{}}' http://192.168.22.105/cgi
```

```
root@ubuntu:/home/harry# curl -H "Content-Type:application/x-www-form-urlencoded" -b ./cookie.txt -X POST --data '{"id":6,"execute":1,"core":"yruo_upgrade","function":"reboot","values":{}}' http://192.168.22.105/cgi
```

Note: When using related SMS API, please confirm that the SIM card can send and receive message.