

To test and run OpenSwitch, you can follow these steps:

To start the FreeSwitch service, use the command

```
docker-compose up -d
```

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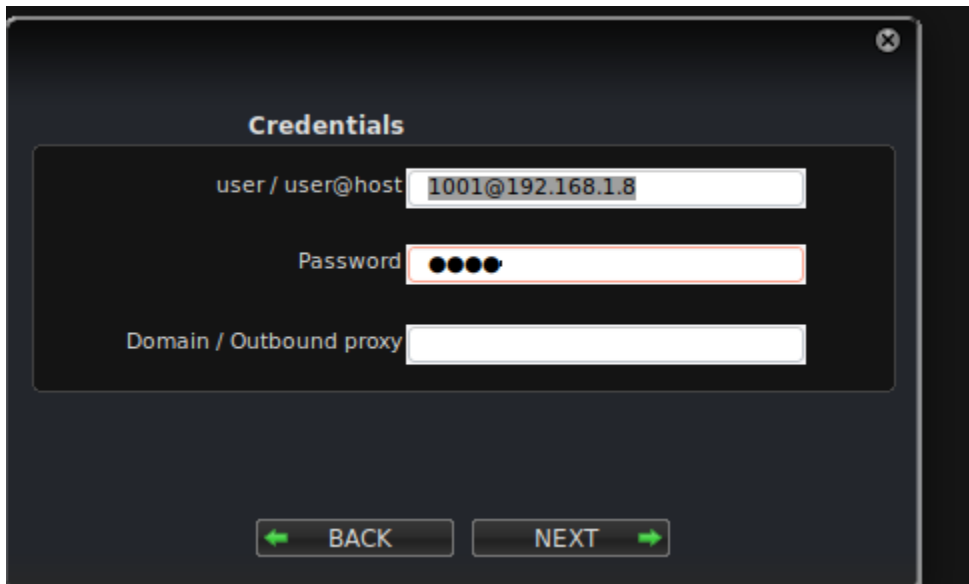
Test it with sip client such as zoiper :

- **Install zoiper**

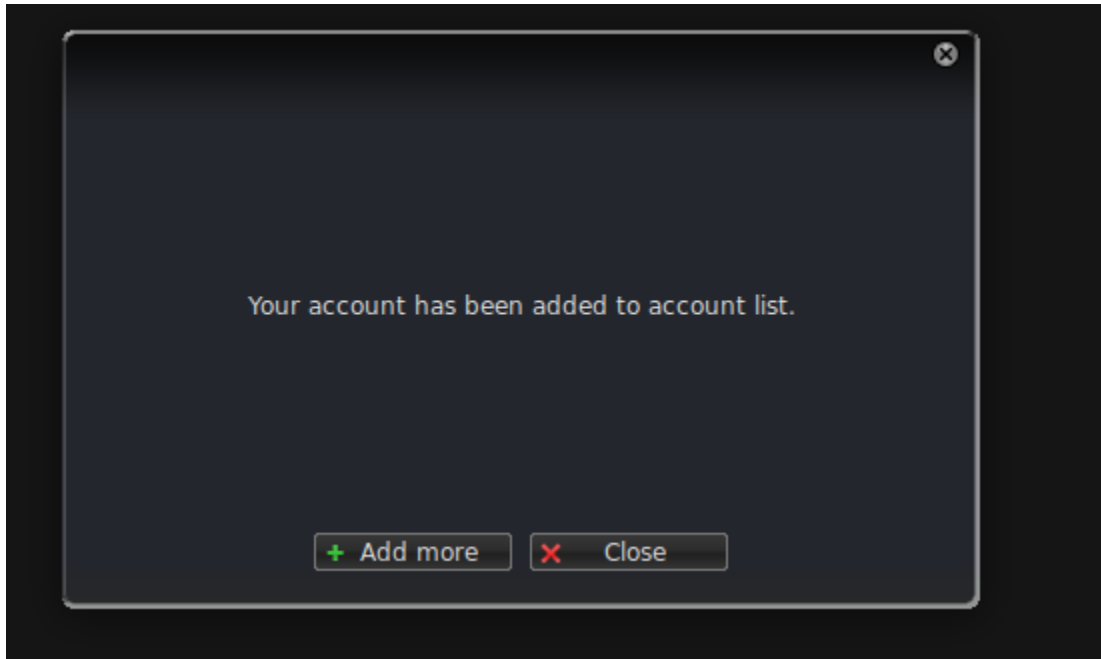
username : 1001

pass: 1234

host: ur public ip



The screenshot shows a 'Credentials' dialog box with a dark background. It contains three input fields: 'user / user@host' with the value '1001@192.168.1.8', 'Password' with four black dots, and 'Domain / Outbound proxy' which is empty. At the bottom, there are two buttons: 'BACK' with a left arrow and 'NEXT' with a right arrow.



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**Fs\_cli:**

To interact with the FreeSwitch server, you can use the **fs\_cli** command-line interface. It allows you to manage and control various aspects of the FreeSwitch system. To access it, log in to the container or service by running:

```
docker-compose exec -it freeswitch /bin/bash
```

Once inside the container, run the command :

**fs\_cli** .... to start the FreeSwitch CLI.

To check the number of registrations, use the command

**show registrations**

The output will display the registered users, realms, tokens, URLs, expiration times, network IP addresses, network ports, network protocols, hostnames, and metadata.

```

2023-08-02 10:45:17.478242 78.93% [CONSOLE] mod_voicemail.c:4068 Event Thread Started
freemswitch@freemswitch> show registrations
reg_user,realm,token,url,expires,network_ip,network_port,network_proto,hostname,metadata
1001,192.168.1.8,0001NM14ZjHAKDkYnJZiZjlkZDYwZjZAKjFmZy5Njk.,sofia/internal/sip:1001@192.168.1.8:41983;rinstance=846244b675c6073
b;transport=TCP,1090976908,192.168.1.8,51760,tcp,freeswitch,
1 total.
freemswitch@freemswitch>

```

## To check SIP traffic, you can use the following tools:

SNGREP: NGREP is a command-line tool for displaying SIP message flow in the terminal. It can capture SIP packets and save them in PCAP files for further analysis with tools like SNGREP, Tcpdump, or Wireshark.

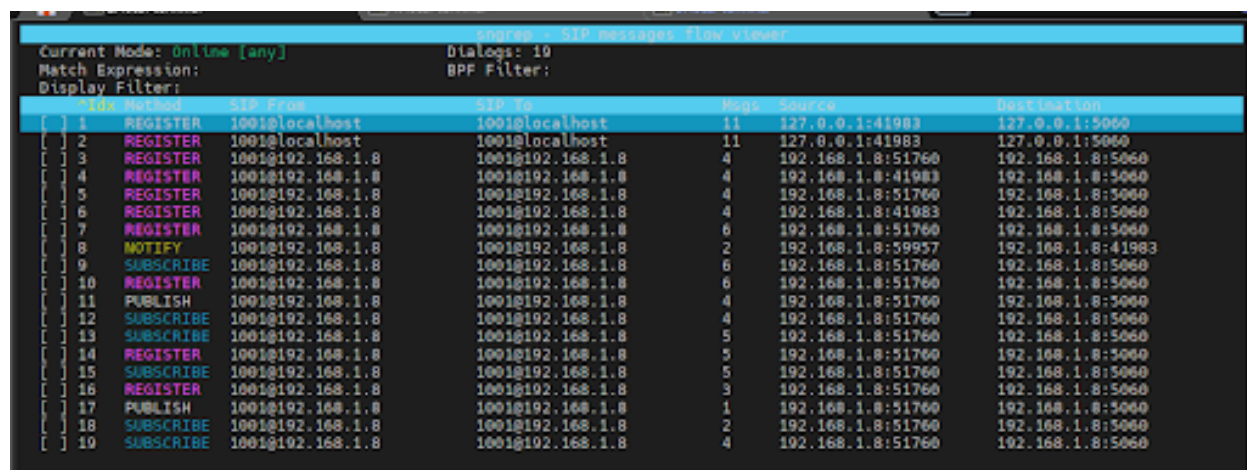
SNGREP is a powerful tool for troubleshooting SIP problems. It allows you to see the SIP messages exchanged between endpoints, identify any issues with SIP signaling, view SIP dialogs, and track call progress.

To use SNGREP, log in to the container by running:

```
docker-compose exec -it freeswitch /bin/bash
```

Then, to view SIP traffic, run:

```
sngrep
```



	Seq	Method	SIP From	SIP To	Msgs	Source	Destination
[ ]	1	REGISTER	1001@localhost	1001@localhost	11	127.0.0.1:41983	127.0.0.1:5060
[ ]	2	REGISTER	1001@localhost	1001@localhost	11	127.0.0.1:41983	127.0.0.1:5060
[ ]	3	REGISTER	1001@192.168.1.8	1001@192.168.1.8	4	192.168.1.8:51760	192.168.1.8:5060
[ ]	4	REGISTER	1001@192.168.1.8	1001@192.168.1.8	4	192.168.1.8:41983	192.168.1.8:5060
[ ]	5	REGISTER	1001@192.168.1.8	1001@192.168.1.8	4	192.168.1.8:51760	192.168.1.8:5060
[ ]	6	REGISTER	1001@192.168.1.8	1001@192.168.1.8	4	192.168.1.8:41983	192.168.1.8:5060
[ ]	7	REGISTER	1001@192.168.1.8	1001@192.168.1.8	6	192.168.1.8:51760	192.168.1.8:5060
[ ]	8	NOTIFY	1001@192.168.1.8	1001@192.168.1.8	2	192.168.1.8:59957	192.168.1.8:41983
[ ]	9	SUBSCRIBE	1001@192.168.1.8	1001@192.168.1.8	6	192.168.1.8:51760	192.168.1.8:5060
[ ]	10	REGISTER	1001@192.168.1.8	1001@192.168.1.8	6	192.168.1.8:51760	192.168.1.8:5060
[ ]	11	PUBLISH	1001@192.168.1.8	1001@192.168.1.8	4	192.168.1.8:51760	192.168.1.8:5060
[ ]	12	SUBSCRIBE	1001@192.168.1.8	1001@192.168.1.8	4	192.168.1.8:51760	192.168.1.8:5060
[ ]	13	SUBSCRIBE	1001@192.168.1.8	1001@192.168.1.8	5	192.168.1.8:51760	192.168.1.8:5060
[ ]	14	REGISTER	1001@192.168.1.8	1001@192.168.1.8	5	192.168.1.8:51760	192.168.1.8:5060
[ ]	15	SUBSCRIBE	1001@192.168.1.8	1001@192.168.1.8	5	192.168.1.8:51760	192.168.1.8:5060
[ ]	16	REGISTER	1001@192.168.1.8	1001@192.168.1.8	3	192.168.1.8:51760	192.168.1.8:5060
[ ]	17	PUBLISH	1001@192.168.1.8	1001@192.168.1.8	1	192.168.1.8:51760	192.168.1.8:5060
[ ]	18	SUBSCRIBE	1001@192.168.1.8	1001@192.168.1.8	2	192.168.1.8:51760	192.168.1.8:5060
[ ]	19	SUBSCRIBE	1001@192.168.1.8	1001@192.168.1.8	4	192.168.1.8:51760	192.168.1.8:5060

To stop the FreeSwitch service, use the command:

```
docker-compose down -d
```

**My devops repo :**

-  <https://github.com/vishalk17/devops>

**My telegram channel:**

-  [https://t.me/vishalk17\\_devops](https://t.me/vishalk17_devops)

**Contact:**

**Telegram :**  t.me/vishalk17

**vishalk17 My youtube Channel :**

-  **YouTube** <https://www.youtube.com/@vishalk17>