Preparations

Hardware

Processor: Intel Core i3 CPU or higher

Hard disk: 64G hard disk or higher

RAM: 4GB RAM or higher

Software

Operating system: Linux64-bit operating system (Ubuntu 18.04+ / Debian 9+)

Network

IP address: one public IP address

Bandwidth: related to the video encoding rate, e.g.: encoding rate 4Mbps, bandwidth will be 8Mbps

Server Login

Login to the server by remote terminal software, Xshell is recommended.

https://www.netsarang.com/zh/xshell-download/

Download link of Xshell: <u>https://www.netsarang.com/zh/xshell-download/</u>

(1) After downloading and installing, enter the server IP address in the new session, and choose"SSH" protocol. The port number is 22 by default. Click "OK" when finished.

Properties of America				?	×
Category:					
Connection Authentication Login Prompts Login Scripts SSH SECURITY Tunneling SFTP TELNET RLOGIN SERIAL Proxy Keep Alive Terminal Keyboard VT Modes Advanced Keyboard VT Modes Advanced Advanced Advanced Currace Bell Logging File Transfer X/YMODEM ZMODEM	Connection General <u>N</u> ame: Protocol:	kilolink platform			
	<u>H</u> ost: Port Number: Description:	43.130.44.152 22	~ ~ ~		
	Reconnect Reconnect <u>a</u> utoma Inter <u>v</u> al: TCP Options Use Nagle's algorit	atically if connection is t	erminated unexpec	tedly	
		Connect	OK	Cancel	

(2) Enter the username and password in the pop-up dialog box, and login as the root user. Enter the command in the Xshell terminal: sudo su



Coturn Server Installation

(1) Install docker to create a working directory, and enter the command in the Xshell terminal: mkdir /data.

(2) Create and open the turnserver.conf file in the data directory, enter the command in the Xshell terminal: vi /data/ turnserver.conf.

(3) Enter the following content in the turnserver.conf file, the fields in the form should be set according to the actual situation, and other fields can be just by default.

```
listening-port=3478
listening-ip=" 43.130.44.152"
alt-listening-port=0
relay-ip=" 43.130.44.152"
external-ip=" 10.0.4.5"
realm=demo
no-tls
no-dtls
mobility
no-cli
verbose
```

fingerprint
lt-cred-mech
stale-nonce=3600
min-port=5000
max-port=9500
user="admin:kiloview"

Field	Description
listening-port	Listening port is 3478 by default, no need to modify it generally.
listening-ip	Server Public IP address
relay-ip	Server Public IP address
external-ip	Enter ifconfig in the terminal to check the network card of eth0



(4) Install and run the docker

<1> Install the docker, enter the command in the Xshell terminal command line:



Wait for Docker Engine's Client and Server to complete the installation.

Client: Docker En	gine - Community
Version:	20.10.8
API version:	1.41
Go version:	gol.16.6
Git commit:	3967b7d
Built:	Fri Jul 30 19:54:27 2021
OS/Arch:	linux/amd64
Context:	default
Experimental:	true
Server: Docker En	gine - Community
Engine:	
Version:	20.10.8
API version:	1.41 (minimum version 1.12)
Go version:	gol.16.6
Git commit:	75249d8
Built:	Fri Jul 30 19:52:33 2021
OS/Arch:	linux/amd64
Experimental:	false
containerd:	
Version:	1.4.9
GitCommit:	e25210fe30a0a703442421b0f60afac609f950a3
runc:	
Version:	1.0.1
GitCommit:	v1.0.1-0-g4144b63
docker-init:	
Version:	0.19.0
GitCommit:	de40ad0

<2> Run the docker, enter the command in the Xshell terminal command line:

```
docker run -d --name coturn --restart=always --network=host \
-v /data/turnserver.conf:/etc/coturn/turnserver.conf \
```

instrumentisto/coturn

root@VM-4-5-ubuntu:/data# docker run -dname coturnrestart=alwaysnetwork=host \
<pre>> -v /data/turnserver.conf:/etc/coturn/turnserver.conf \</pre>
> instrumentisto/coturn
Unable to find image 'instrumentisto/coturn:latest' locally
latest: Pulling from instrumentisto/coturn
801bfaa63ef2: Pull complete
6632f8d51ce2: Pull complete
0790e8d398d5: Pull complete
elflf9ld740d: Pull complete
Digest: sha256:6c25f154177c9e9fccc3ba6f28455ad3b0a869f00be0562853a327b5f7b6069a
Status: Downloaded newer image for instrumentisto/coturn:latest
07319b3d296f8f6dfe01df2af331e4b287ee8e74c5f5a9d48b1fde936a9dbdf7

(5) Get the version image

<1> Get the management container version image, enter the command in the Xshell terminal command line: docker pull kiloview/polymaster

```
root@VM-4-5-ubuntu:/data# docker pull kiloview/polymaster
Using default tag: latest
latest: Pulling from kiloview/polymaster
all25296b23d: Pull complete
3c742a4a0f38: Pull complete
4c5ea3b32996: Pull complete
1b4be91ead68: Pull complete
94aedc679f71: Pull complete
6dc1fbbe22c3: Pull complete
f7549a5c15da: Pull complete
6ab7654f2ad6: Pull complete
0a4863586013: Pull complete
bbe78b70d686: Pull complete
11677d749cec: Pull complete
591973d08f34: Pull complete
Digest: sha256:25be0f1c2c537aad419c02bc84ebd2d8b48b22bdab1a71d79547507ca807c6fa
Status: Downloaded newer image for kiloview/polymaster:latest
docker.io/kiloview/polymaster:latest
root@VM-4-5-ubuntu:/data#
```

<2> Get the worker container version image, enter the command in the Xshell terminal command line: docker pull kiloview/polyworker

```
root@VM-4-5-ubuntu:/data# docker pull kiloview/polyworker
Using default tag: latest
latest: Pulling from kiloview/polyworker
all25296b23d: Already exists
3c742a4a0f38: Already exists
4c5ea3b32996: Already exists
1b4be91ead68: Already exists
70d24a33f756: Pull complete
bef07455c3e2: Pull complete
a920fc4b7308: Pull complete
0018af2afe89: Pull complete
17f549731699: Pull complete
752c839f9b80: Pull complete
3fa398f7b559: Pull complete
Digest: sha256:809edbbbf86f7eb1fe7bc9c31bfdb698e9922f14ec20abb2627fe301a81dd3f5
Status: Downloaded newer image for kiloview/polyworker:latest
docker.io/kiloview/polyworker:latest
root@VM-4-5-ubuntu:/data#
```

(6) Run the master container, enter the command in the Xshell terminal command line, the fields in the form should be set according to the actual situation, and other fields can be just by default.

docker run -d --restart=always --name polymaster \

```
-p 60000:81 \
-v /var/run/docker.sock:/var/run/docker.sock \
-v /usr/bin/docker:/usr/bin/docker \
-e PLATFORMIP=43.130.44.152 \
-e STARTPORT=60000 \
-e FWDPORT=10000 \
-e FWDNUM=10 \
-e TUNIP=43.130.44.152 \
```

```
-e TUNPORT=3478 \setminus
```

```
-e TUNUSER=admin \setminus
```

```
-e TUNPASS=kiloview \setminus
```

```
-e TUNREALM=demo \setminus
```

```
-v /data:/data \
```

--privileged --user root \setminus

kiloview/polymaster

Field	Description
-р 60000	60000 is the server management/API Http port, which can be modified
PLATFORMIP	Server Public IP address
TUNIP	Server Public IP address
TUNPORT	The default port is 3478, which should be the same as the listening-port in the turnserver.conf file

root@VM-4-5-ubuntu:/home/ubuntu# docker run -d --restart=always --name polymaster \ -p 60000:81 \ -v /var/run/docker.sock:/var/run/docker.sock \ -v /usr/bin/docker:/usr/bin/docker \ -e PLATFORMIP=43.130.44.152 \ -e STARTPORT=60000 \ -e FWDPORT=10000 \ -e FWDNUM=10 \ -e TUNIP=43.130.44.152 \ -e TUNPORT=3478 \ -e TUNUSER=admin \ -e TUNPASS=kiloview \ -e TUNREALM=demo \ > -v /data:/data \ > --privileged --user root \ > kiloview/polymaster 436cf4442c074215b86957fb3fd253842de0c1f294daf6311943be384305fb1c root@VM-4-5-ubuntu:/home/ubuntu#

Note : The 4G bonding server will use many ports. If there is a firewall during deployment, the related ports need to be opened in the firewall. Kiloview uses AES256 encryption to ensure security in live streaming. If there are no special requirements, it is recommended to open all the ports of the 4G bonding server. If port restrictions are necessary, please contact kiloview support team for assistance at: support@kiloview.com.

Login the 4G bonding platform

Enter the server IP and the port number in the browser to enter the login webpage of the bonding platform.

← → C ▲ 不安全 43.130.44.152:60000/login			👷 🏚 🖓 😭 😫 🗄
			l i
			l i
			i i
		1	
	Login		
	Usemame		
			l i
	Password		
	Login		

The username and the password both are admin by default, please modify them after your first login.