

Kiloview Intercom Server Deployment (KIS)

1. Installation Environment

Requirements

1.1. Hardware environment

Processor: Intel Core i3 CPU or higher

Hard disk: 32G Hard disk or higher

Memory: 2GB RAM or higher

1.2. Software environment

Ubuntu 18.04+ / Debian 9+

1.3. Network environment

1.3.1. IP and bandwidth requirements

IP address: if all the calling device is under local network, the voice intercom server doesn' t need a public network IP, otherwise it needs a public network IP address.

Bandwidth: According to the numbers of simultaneous calling users, the bandwidth requirements of different user quantity as below:



Numbers of simultaneous user	Bandwidth requirements (Mbps)
10	7
20	30
30	70

Ways of calculation: 64kbps×(The square of the user quantity – user quantity)/0.8

Note: Considering the hardware and maintenance costs of the server, as well as subsequent updating the version of cloud platform, it is recommended to lease the server from the cloud server provider, such as Alibaba Cloud, Tencent Cloud, Huawei Cloud, etc.

1.3.2. Port requirement

The voice intercom device need establish calling by voice intercom server port, so it is necessary to open all the corresponding ports.

Below port needs to be open:

TCP port: 443 and 81

UDP port: 50000-55000

2. Deployment process



2.1. Login to server

You can use remote terminal software to login to the server, Xshell tool or Putty is

recommended.

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

Putty download website: http://putty.cs.utah.edu/download.html

2.1.1. Xshell tool

(1) After downloaded and installed Xshell, enter IP address of the server in the new session property and use SSH protocol to communicate. The default port is22, click "Ok" after input completed.

New Session Properties			?	×
<u>C</u> ategory:				
	Connection			
Authentication	General			
Login Prompts Login Scripts	<u>N</u> ame:	New Session		
⊟ SSH	Protocol:	SSH 🗸	-1	
Security	Host:			
Tunneling SFTP	_			
TELNET	Port Number:	22		
···· RLOGIN	Description:			
SERIAL Proxy				
Keep Alive				
Terminal	Reconnect			
···· Keyboard ···· VT Modes	Reconnect au	tomatically if connection is terminated unexp	ectedly	
Advanced	Interval:	0 🚖 sec Limit: 0	in min	
Appearance	Inter val.		T	
Margins	TCP Options			
	Use Nagle's a	laorithm		
Logging		gonain		
File Transfer X/YMODEM				
ZMODEM				
		OK	Cancel	



(2) Enter the user name and password in the pop up dialog box, if you are not a

root user, it is recommended to switch to the root environment before

operation.

sudo su -		
	root <mark>@/M-4</mark> -13-debian:~#	

2.1.2. Putty tool

(1) After downloaded and installed Putty, enter IP address of the server in the

Putty configuration and select connection type as "SSH" . The default port is 22,

click "open" after input completed

⊡- Session	Basic options for your PuTTY session			
Logging Terminal Keyboard Bell Features	Specify the destination you want to co Host <u>N</u> ame (or IP address)	onnect to Port 22		
 Window Appearance Behaviour Translation Selection Colours Connection Data Proxy Telnet Rlogin SSH Serial 	 ○ Raw ○ Telnet ○ Rlogin ● Load, save or delete a stored session Saved Sessions Default Settings 	SSH O Serjal		
		Sa <u>v</u> e Delete		
	Close window on exit: Always Never Only of the other of the other of the other oth	on clean exit		



(2) Enter the user name and password in the pop-up dialog box, if you are not a

root user, it is recommended to switch to the root environment before operation.



2.2. The Container Installation Environment

2.2.1. Online installation

If your Docker version is 17.06 or above, you can skip this. You can check the

current Docker version No. by inputting "docker version" in the terminal.

curl -fsSL https://get.docker.com | bash



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2.2.2. Set Docker server to start automatically.

systemctl enable docker.service

root@VM-4-13-debian:~# systemctl enable docker.service Synchronizing state of docker.service with SysV service script with /lib/systemd/systemd-sysv-install. Executing: /lib/systemd/systemd-sysv-install enable docker root@VM-4-13-debian:~#

2.3. Pull the intercom server image file

docker pull kiloview/kvaudiosvr



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root@VM-4-13-debian:~# docker pull kiloview/kvaudiosvr
Using default tag: latest
latest: Pulling from kiloview/kvaudiosvr
all25296b23d: Pull complete
3c742a4a0f38: Pull complete
4c5ea3b32996: Pull complete
1b4be91ead68: Pull complete
94aedc679f71: Pull complete
6dclfbbe22c3: Pull complete
ac5dc32b3952: Pull complete
5e9e50be0c9e: Pull complete
9c4elef1bd57: Pull complete
62db47f7bb55: Pull complete
8f22e6fc9a52: Pull complete
Digest: sha256:5195fd35cf1f7b8d353617be3eff5ce9faa3927cc9c9f59b83b9164fdb0a4199
Status: Downloaded newer image for kiloview/kvaudiosvr:latest
docker.io/kiloview/kvaudiosvr:latest
root@VM-4-13-debian:~#

If accessing to hub.docker.com is slower, you can follow below instead.

1. Download image file

wget https://www.kiloview.com/downloads/Tools/.server/kvaudiosvr.tar

2. Decompress and load voice intercom image to Docker.

docker load < kvaudiosvr.tar

2.4. Create and run the container

docker run -d --restart always -e MINPORT=50000 -e MAXPORT=55000 --name

kvaudiosvr --privileged=true --net=host kiloview/kvaudiosvr:latest

root@kiloview-	virtual-machine:/home/kilovi	ew# docker run -dre	estart alwavs -e	MINPORT=50000 -	e MAXPORT=:	55000name kvaudiosvrprivi
	net=host kiloview/kvaudiosvr:					p
55ec472a382e1	9ed693efc78758913f2e21795184	991fa77066593ae4bdbab5	5			
root@kiloview-	<pre>virtual-machine:/home/kilovi</pre>	ew# docker ps				
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
55ec472a382e	kiloview/kvaudiosvr:latest			Up 4 seconds		kvaudiosvr
912fb8245534	kiloview/klnkserver	"/start_server.sh"	6 days ago	Up 39 seconds		klnkserver
root@kiloview-	<pre>virtual-machine:/home/kilovie</pre>	2W#				



2.5. Login to the server

https://server IP:443		
← → C @ https://43.129.196.4:443		0 * 8 :
KROVIEV.		
	Login	
	Logn	

Initial user name and password are admin, please modify it in time.

3. Common questions about KIS deployment

3.1. After deployed KIS, login to the server by IP and port, after entering

password, it prompts that unable to connect system service.

Solutions: "unable to connect system service" error. Firstly, you need delete previously KIS docker deployed, and use below command to re-image "docker pull kiloview/kvaudiosvr", and then run the following command.

Step a. Stop KIS container: docker stop kvaudiosvr

Step b. Delete KIS container: docker rm kvaudiosvr

Step c. Delete KIS image: docker rmi kvaudiosvr



Step d. Recreate and run container: docker run -d --restart always -e

MINPORT=50000 -e MAXPORT=55000 --name kvaudiosvr --privileged=true --

net=host kiloview/kvaudiosvr:latest

root@kiloview-virtual-machine:/home/kilovie leged=truenet=host kiloview/kvaudiosvr: latest: Pulling from kiloview/kvaudiosvr all25296b23d: Already exists 3c742a40453B: Already exists 4c5ea3b32996: Already exists 1b4be9lead68: Already exists 94aedc59771: Already exists 6dc1fbbe22c3: Already exists 6dc3ba952: Pull complete 5e9e50be0c9e: Pull complete 9c4e1ef1bd57: Pull complete	latest	estart always -e MINP0)RT=50000 ∙e MAXPORT=	-55000na	me kvaudiosvrprivi
62db47f7bb55: Pull complete 8f22e6fc9a52: Pull complete					
Digest: sha256:5195fd35cf1f7b8d353617be3eff		83b9164fdb0a4199			
Status: Downloaded newer image for kiloview 30310e98c3fba373aa82a5d5ce5a1f1818771301251		0			
root@kiloview-virtual-machine:/home/kilovie		<u> </u>			
CONTAINER ID IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
30310e98c3fb kiloview/kvaudiosvr:latest	"/start_server.sh"	About a minute ago	Up About a minute		kvaudiosvr

3.2. After deployed KIS, unable to make a normal voice call.

Solution: You need use below port for the server, if there is firewall in the network

environment of the server, the corresponding ports must be open.

TCP port: 443 and 81

UDP port: 50000-55000

3.3. KIS and Kilolink are simultaneously deployed in the same server, and one

of which cannot work normally.

As both KIS server and Kilolink server need work with 81 port, which will cause KIS or Kilolink to fail to login.

The default login method of Kilolink: IP + 81(port)

Solutions: Modify the default login port 81 of Kilolink to other port.



Step a: enter container: docker exec -it klnkserver bash

Step b: open the file: vi /usr/local/openresty/nginx/conf/nginx.conf

Modify "server-listen" in the file to 8081, save and exit.

Step c: restart Nginx: /usr/local/openresty/nginx/sbin/nginx -s reload



Note: After modified, the method of KIS login is "https: IP+443 port" .

The method of Kilolink login is "IP+8081 port" .



For more questions, please contact us via:

https://www.kiloview.com/en/support



Please scan with browser.

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