

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 Scripts	<u>N</u> ame:	New Session		
⊡·SSH	Protocol:	SSH ~		
Security	Host:			
SFTP	Port Number:			
··· TELNET	Port Number.	22		
RLOGIN	Description:			
Proxy				
Keep Alive				
- Terminal	Reconnect			
···· VT Modes	Reconnect <u>a</u> u	utomatically if connection is terminated unexpe	ectedly	
Advanced	Inter <u>v</u> al:	0 sec Limit: 0	🌲 min	
Appearance Margins				
	TCP Options			
Trace	Use Nagle's a	lgorithm		
En 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 PuT	TY session
Logging - Terminal Keyboard Bell	Specify the destination you want to o Host <u>N</u> ame (or IP address)	connect to <u>P</u> ort 22
- Window	O Ra <u>w</u> O <u>T</u> elnet O Rlogin (€) <u>S</u> SH ◯ Se <u>r</u> ia
Appearance Behaviour Translation Selection	Load, save or delete a stored session Sav <u>e</u> d Sessions	n
Colours	Default Settings	Load
- Data - Proxy - Telnet - Rlogin		Save
		<u>D</u> elete
⊛- SSH Serial	Close window on e <u>x</u> it:	y 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



Kiloview intercom Server Deployment V1.0

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
6dc1fbbe22c3: 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/kilovie	w# docker run -dre	stårt always -e	MINPORT=50000 -e	MAXPORT=5	5000name kvaudiosvrpri
leged=truen	et=host kiloview/kvaudiosvr:l	atest				
55ec472a382e1b	9ed693efc78758913f2e217951849	91fa77066593ae4bdbab5				
root@kiloview-	virtual-machine:/home/kilovie	w# docker ps				
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
55ec472a382e	kiloview/kvaudiosvr:latest	"/start_server.sh"	6 seconds ago	Up 4 seconds		kvaudiosvr
912fb8245534	kiloview/klnkserver	"/start_server.sh"	6 days ago	Up 39 seconds		klnkserver
root@kiloview-	virtual-machine:/home/kilovie	W#				



2.5. Login to the server

https://server IP:443		
← → C ⊗ https://43.128.196.4.443		0 * 8 :
C KROVIEW-		
	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/kiloview# docker run -drestart always -e MINPORT=50000 -e MAXPORT=55000name kvaudiosvrprivi
leged=truenet=host kiloview/kvaudiosvr:latest
Jnable to find image 'kiloview/kvaudiosvr:latest' locally
latest: Pulling from kiloview/kvaudiosvr
all25296b23d: Älready exists
3c742a4a0f38: Already exists
4c5ea3b32996: Already exists
lb4be9lead68: Already exists
94aedc679f71: Already exists
5dc1fbbe22c3: Already exists
ac5dc32b3952: Pull complete
5e9e50be0c9e: Pull complete
Oc4elef1bd57: Pull complete
52db47f7bb55: Pull complete
3f22e6fc9a52: Pull complete
Digest: sha256:5195fd35cf1f7b8d353617be3eff5ce9faa3927cc9c9f59b83b9164fdb0a4199
Status: Downloaded newer image for kiloview/kvaudiosvr:latest
30310e98c3fba373aa82a5d5ce5a1f1818771301251e1dac67090894981c0900
root@kiloview-virtual-machine:/home/kiloview# docker ps
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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