

Leading Innovator and Solution Provider of IP-Based Video Transmission

Deployment and Notice

Kiloview Intercom System (KIS) Deployment Instruction V1.0

(2022-04-14 free version)

KIS Deployment

1 Sever environment preparation

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

Operating System: Ubuntu 18.04+ / Debian 9+

2 Network environment

2.1 Network Environment requirement

Internet application tools and image file

IP address: If all of the calling devices are on the same LAN, the voice intercom server

does not require a pubic IP address. Otherwise, it requires.

Bandwidth: The following table provides the bandwidth needs for various scales based on

the number of simultaneous call users.

Number of simultaneous users	Bandwidth requirements (Mbps)
10	7

20	30
30	70

Way of calculation: 64kbps* (The square of user quantity-user quantity)/0.8

Note: Due to the hardware and maintenance costs of the server, as well as the version update of the cloud platform, it is recommended to rent the cloud-based server such as AWS server.

2.2 Port requirement

The devices need to establish calls through the ports of KIS server, so all ports on the voice

intercom server need to be opened.

The following ports need to be opened:

TCP port: 433 and 81

UDP port: 50000-55000

3 Deployment process

3.1 Login to the server

You can use remote terminal software to login to the server, Xshell tool is recommended.

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

2.1.1 After downloaded and installed Xshell, enter the server's IP address in the new session property and use SSH protocol to communicate. The default port is 22 and click "OK" after input completed.

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(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@W_4-13-debian:~#

3.2 The container Installation Environment

If your Docker version is 17.06 or above, you can check the current Docker version number

by inputting "docker version" in the terminal.

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



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:~#

3.3 Pull the intercom server image file

docker pull kiloview/kvaudiosvr

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

3.3.3 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 -dr	estart always -e	MINPORT=50000 -	e MAXPORT=	55000 name kvaudiosvr p	riv
leged=true	et=host kiloview/kvaudiosvr:	latest					
55ec472a382e1b	9ed693efc78758913f2e21795184	991fa77066593ae4bdbab	5				
root@kiloview-	virtual-machine:/home/kilovi	ew# 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/kilovi	ew#					

4 Login to the server

https://server IP:443

KILOVIEW [®] Kiloview Intercom Server		e
	Login	
	Password Remember Password	
	English V	
	Read and Agree «User License Agreement» Login	

The default username and password are admin, please change them in time.

5 Deployment FAQs and Solutions

5.1 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



5.2 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

5.3 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" .



Kiloview official technical support website, please visit

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



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