

Deployment Guide

Kilolink Bonding Platform Deployment (For Linux System)

(2021-9 version)

1 Preparations

(1) Hardware

Processor: Intel Core i3 CPU or higher

Hard disk: 64G hard disk or higher

RAM: 4GB RAM or higher

(2) Software

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

(3) Network

IP address: one public IP address

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

Port: The server needs to use the following ports. If there is a firewall in the server's network, the related ports need to be opened.

Port	Protocols
81	TCP
3478	TCP+UDP
60000	UDP
60001	UDP
5000-5100	TCP+UDP
30000-30050	TCP+UDP



Note

- (1) 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) KiloLink 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 during live streaming. So if there are no special requirements, it is recommended to open all the ports of your server.

2 Server Login

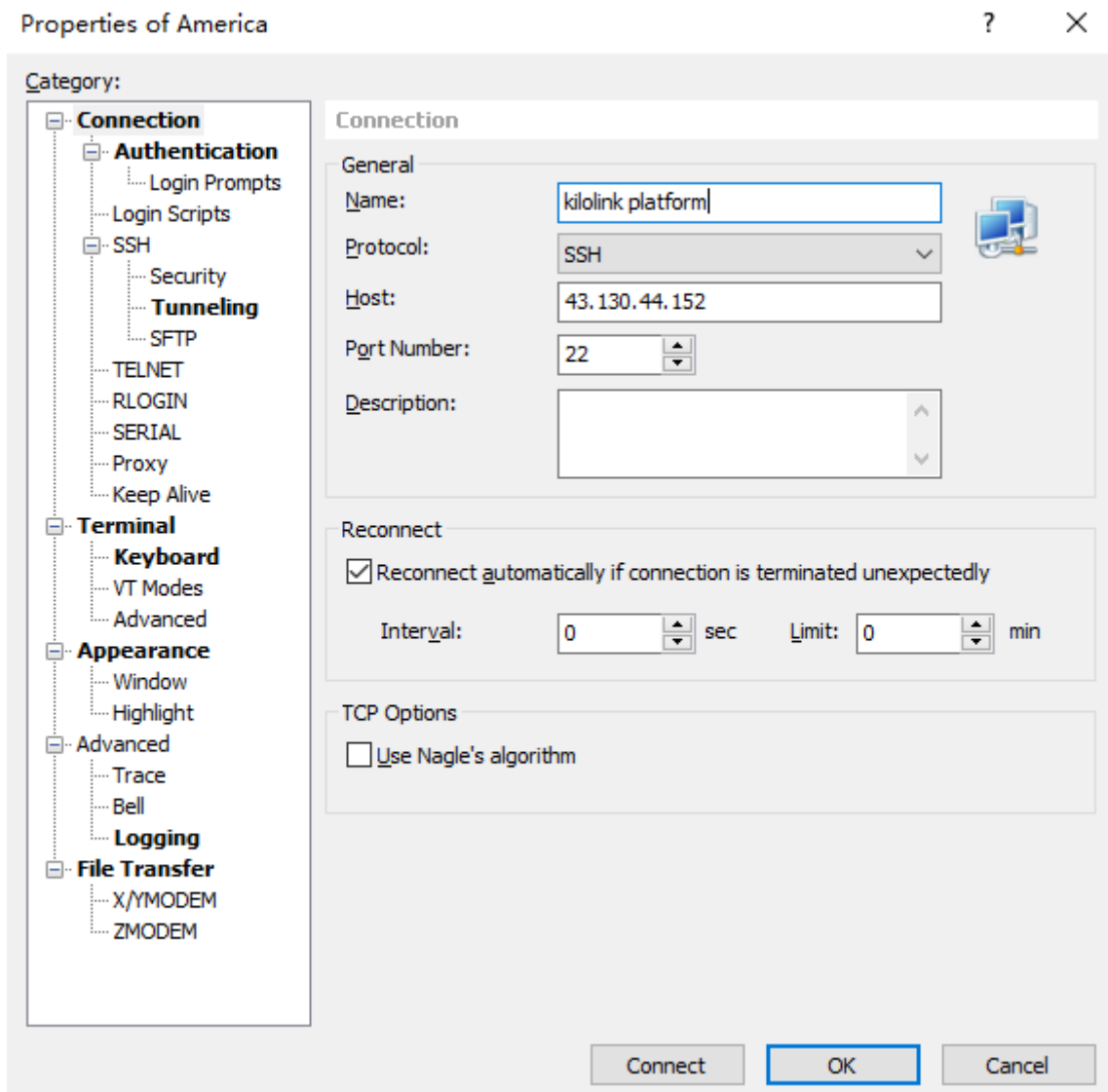
Login to the server by remote terminal software, Xshell and PuTTY are recommended.

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

Download link of PuTTY:

<https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html>

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



(2) Enter the username and password in the pop-up dialog box, the users need sudo to

obtain management rights or login as the root user.

3 Deployment steps

(1) Create a working directory, and enter the command in the Xshell terminal:

```
mkdir /data
```

```
root@VM-4-13-ubuntu:/home# mkdir /data
root@VM-4-13-ubuntu:/home# █
```

(2) Install docker and enter the command in the Xshell terminal:

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

```
root@VM-4-13-ubuntu:/home# curl -fsSL https://get.docker.com | bash
# Executing docker install script, commit: 93d2499759296ac1f9c510605fef85052a2c32be
+ sh -c 'apt-get update -qq >/dev/null'
+ sh -c 'DEBIAN_FRONTEND=noninteractive apt-get install -y -qq apt-transport-https ca-certificates curl >/dev/null'
+ sh -c 'curl -fsSL "https://download.docker.com/linux/ubuntu/gpg" | gpg --dearmor --yes -o /usr/share/keyrings/docker-archive-keyring.gpg'
+ sh -c 'echo "deb [arch=amd64 signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu focal stable" > /etc/apt/sources.list.d/docker.list'
+ sh -c 'apt-get update -qq >/dev/null'
+ sh -c 'DEBIAN_FRONTEND=noninteractive apt-get install -y -qq --no-install-recommends docker-ce-cli docker-compose-plugin docker-ce >/dev/null'
+ version_gte 20.10
+ '[' -z '' ']'
+ return 0
+ sh -c 'DEBIAN_FRONTEND=noninteractive apt-get install -y -qq docker-ce-rootless-extras >/dev/null'
+ sh -c 'docker version'
Client: Docker Engine - Community
 Version:           20.10.8
 API version:       1.41
 Go version:        gol1.16.6
 Git commit:        3967b7d
 Built:             Fri Jul 30 19:54:27 2021
 OS/Arch:           linux/amd64
 Context:           default
 Experimental:      true

Server: Docker Engine - Community
 Engine:
  Version:           20.10.8
  API version:       1.41 (minimum version 1.12)
  Go version:        gol1.16.6
  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
```

(3) Run the klnkserver docker and enter the command in the Xshell terminal:

```
docker run -d --restart=always --name klnkserver \
```

```
-e PLATFORMIP=43.129.196.4 \
```

```
--privileged --user root \
```

```
--network host \
```

```
kiloview/klnkserver
```



Note

PLATFORMIP is the public IP of the server, please configure it according to the actual situation.

```
root@VM-4-13-ubuntu:/home# docker run -d --restart=always --name klnkserver \
> -e PLATFORMIP=43.129.196.4 \
> --privileged --user root \
> --network host \
> kiloview/klnkserver
Unable to find image 'kiloview/klnkserver:latest' locally
latest: Pulling from kiloview/klnkserver
a1125296b23d: Pull complete
3c742a4a0f38: Pull complete
4c5ea3b32996: Pull complete
1b4be91ead68: Pull complete
8e6fcd5cf9fe: Pull complete
f11054f19bf7: Pull complete
48ecca84458e: Pull complete
6174f548d4d0: Pull complete
02e3594f5e51: Pull complete
527ed309cb91: Pull complete
7238d58ee7d3: Pull complete
591973d08f34: Pull complete
Digest: sha256:2601ee10be5dcfeb41ca782f4e8a4e04a8e6d0c589d989a2ffb1ca44d23ef078
Status: Downloaded newer image for kiloview/klnkserver:latest
d932757e10d0c8ffdd97b05c8164fb89e550a3ef5340b243d5649a176c5ea5a6
root@VM-4-13-ubuntu:/home#
```

4 Login Verification

Enter “Server IP address: 81 “in the browser (Google is recommended) and the port number in the browser to enter the login webpage of the bonding platform. The username and the password both are **admin** by default.

