

Deployment Manual

KiloLink Server Free (Linux System)

(2022-5 version)



1 KiloLink Server Free Deployment

1.1 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: Plan according to the network situation, it is recommended to configure at least 4Mbps.

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. Therefore, please make sure below ports are open.

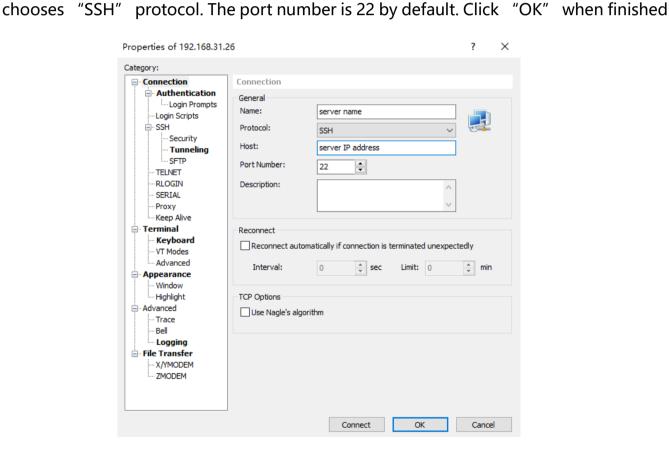
Port	Protocol
83	TCP
50000	UDP



1.2 Logging In

Login to the server by remote terminal software, Xshell or PuTTy is recommended Xshell download link: https://www.netsarang.com/zh/xshell-download/
PuTTy download link: 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



(2) Enter the username and password in the pop-up dialog box, the users need "sudo" to obtain management authorization or login as the root user. Enter the following commands in the terminal:

sudo su -



1.3 Deployment steps

1.1.1 Step 1: Install docker

Enter the command in the terminal window:

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 >/d
ev/null'
+ sh -c 'curl from the committee of the committee
 ev/nucl
+ sh -c 'curl -fsSL "https://download.docker.com/linux/ubuntu/gpg" | gpg --dearmor --yes -o /usr/share/keyr
ings/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 'DBBIAN_FRONTEND=noninteractive apt-get install -y -qq --no-install-recommends docker-ce-cli docker-scan-plugin docker-ce >/dev/null'
+ version.gte 20.10
+ '[' -z '' ']'
+ return 0
+ sh -c 'DBBIAN_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: g01.16.6
Git commit: 3967b7d
Built: Fri Jul 30 19:54:27 2021
     + sh -c 'curl -fsSL "https://download.docker.com/linux/ubuntu/gpg" | gpg --dearmor --yes -o /usr/share/keyr
       Git commit:
Built:
                                                                                                                Fri Jul 30 19:54:27 2021
                                                                                                               linux/amd64
default
       OS/Arch:
Context:
       Experimental:
       Gerver: Docker Engine - Community
       Engine:
                                                                                                             20.10.8
1.41 (minimum version 1.12)
gol.16.6
75249d8
Fri Jul 30 19:52:33 2021
              Version:
          API version:
Go version:
Git commit:
Built:
OS/Arch:
         Experimental:
containerd:
                                                                                                                false
           Version:
GitCommit:
                                                                                                                1.4.9
e25210fe30a0a703442421b0f60afac609f950a3
         runc:
Version:
                                                                                                                1.0.1
v1.0.1-0-g4144b63
         docker-init:
                                                                                                                0.19.0
de40ad0
               GitCommit:
```

1.1.2 Step 2: Pull images

docker pull kiloview/kilolinkserverfree



```
root@kiloview-1:/home/kiloview# docker pull kiloview/kilolinkserverfree
Using default tag: latest
latest: Pulling from kiloview/kilolinkserverfree
11323ed2c653: Pull complete
dfe9cf35b9cb: Pull complete
62343e59dad9: Pull complete
a372c8f42a33: Pull complete
fd7b6b6f1fdd: Pull complete
05332eaaf212: Pull complete
Digest: sha256:2bf8e5825439ee2c72f520belac0b28b75a92e45cf1c58ee67441ce08b859fd2
Status: Downloaded newer image for kiloview/kilolinkserverfree:latest
docker.io/kiloview/kilolinkserverfree:latest
root@kiloview-1:/home/kiloview#
```

1.1.3 Step 3: Run container

Enter the command in the terminal window:

```
docker create --restart=always --name kilolinkserverfree -e KLNKPORT=50000 -v
```

/data:/data --privileged --user root --network host kiloview/kilolinkserverfree

```
root@kiloview-1:/home/kiloview# docker create --restart=always --name kilolinkserverfree -e KLNKPORT=60000 -v /data:/data --privileged --u ser root --network host kiloview/kilolinkserverfree 093504f01528b99fe40ecb7d4c2cc2f74d52ac733449ce7d078eda77e82ad48c root@kiloview-1:/home/kiloview#
```



Note

The host mode is used by default, so the host IP is used for deployment by default.

1.1.4 Step 4: Enable docker

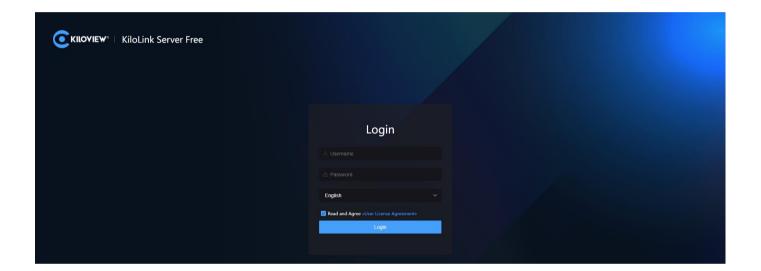
docker start kilolinkserverfree

```
root@kiloview-1:/home/kiloview# docker start kilolinkserverfree kilolinkserverfree root@kiloview-1:/home/kiloview#
```



1.1.5 Step 5: Login authentication

Enter "IP address of server: 83" in the browser (Google is recommended), press enter to display the login interface of the KiloLink Server. The username is *admin*, password is *Kiloview001* by default.





Note

- (1) The default port of the server login has been adjusted to 83.
- (2) The device version needs to be updated to the latest version that supports KiloLink Server Free.
- (3) The port number of the device is 50000.



2 General questions and solutions

2.1 If there is an error message during the deployment process.

Solution:

2.2 An error hint during the deployment

Solution:

Please check the version of your operation system, currently, it only supports Linux64-bit operating system (Ubuntu 18.04+ / Debian 9+)

1) Check Linux digits: getconf LONG BIT

```
ubuntu@VM-4-5-ubuntu:~$ getconf LONG_BIT
64
ubuntu@VM-4-5-ubuntu:~$
```

2) Check the version number of the Linux: cat /proc/version

```
ubuntu@VM-4-5-ubuntu:~$ cat /proc/version
Linux version 5.4.0-77-generic (buildd@lgw01-amd64-028) (gcc version 9.3.0 (Ubuntu 9.3.0-17ubuntu1~20.04))
#86-Ubuntu SMP Thu Jun 17 02:35:03 UTC 2021
ubuntu@VM-4-5-ubuntu:~$
```



2.3 No response for a long time for the installation of the docker

Solution:

The process of the installation is relatively slow, please wait patiently. You can use the command "docker version" to check and confirm whether the installation is successful.

```
root@ndi:~/cp_data3# docker version
Client: Docker Engine - Community
Version: 20.10.6
 API version:
                     1.41
                     go1.13.15
370c289
 Go version:
 Git commit:
                     Fri Apr 9 22:47:17 2021
linux/amd64
 Built:
 OS/Arch:
 Context:
                     default
 Experimental:
                     true
Server: Docker Engine - Community
 Engine:
  Version:
                     20.10.6
                     1.41 (minimum version 1.12)
gol.13.15
  API version:
 Go version:
  Git commit:
                     8728dd2
                     Fri Apr 9 22:45:28 2021
linux/amd64
  Built:
  OS/Arch:
 Experimental:
                     false
 containerd:
  Version:
                     1.4.4
                     05f951a3781f4f2c1911b05e61c160e9c30eaa8e
 GitCommit:
 runc:
  Version:
                     1.0.0-rc93
                     12644e614e25b05da6fd08a38ffa0cfe1903fdec
 GitCommit:
 docker-init:
  Version:
                     0.19.0
  GitCommit:
                     de40ad0
 root@ndi:~/cp data3#
```



2.4 Fail to pull the image

```
rootendi:/# docker run -d --name status --restart-always -v /var/run/docker.sock:/var/run/docker.sock:ro --pid host --network host -e GLANCES_OPT="-w" nicolargo/glances
latest: Polling from nicolargo/glances
elacddbe380c: Polling fs layer
encolargo/glances
elacddbe380c: Polling fs layer
elacddbe380cpolling
elacddbe380cpolling
elacddbe380cpolling
elacddbe380cpolling
elacddbe380cpolling
elacddbe380cpolling
elacddbe380cpolling
elacddbe380cpolling
elac
```

Solution:

To pull the image, you need to get the image files via the internet. If the network delay is high or you cannot connect to the internet, please check whether the network is smooth by pinging an external website.

```
# This is the network config written by 'subiquity'
network:
    ethernets:
    enol:
        addresses:
        - 192.168.28.120/24
        gateway4: 192.168.28.254
        nameservers:
        addresses:
        - 8.8.8.8
    enp3s0f0:
        addresses:
        - 192.168.0.114/24
        gateway4: 192.168.0.1
    enp3s0f1:
        addresses:
        - 192.168.2.115/24
        gateway4: 192.168.2.1
    version: 2
```



2.5 "No such file or directory" error reported during command execution

Digest: sha256:174396f08a6900a9bf92afb07724b219648f2e7da9c34ca464778ee38e118f59
Status: Downloaded newer image for kiloview/klnkserver:1220
docker.io/kiloview/klnkserver:1220
root@OMNI-STREAM:/home/shaan# docker run -d --restart=always --name klnkserver -e PLATFORMIP=170.20.67.233 --privileged
--user root --network host kiloview/klnkserver:1220
bash: docker run -d --restart=always --name klnkserver -e PLATFORMIP=170.20.67.233 --privileged --user root --network ho
st kiloview/klnkserver:1220: No such file or directory

Solution:

When you copy the command from the file, it may include the form character and cause the command to change. Please enter the corresponding command manually.

For more questions, please contact us via:

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





Please scan with browser.

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