

## 部署指导

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# KiloLink Server Free (linux 系统)

(2022-4 版)

## 1.服务器环境准备

### (1) 硬件环境

处理器：英特尔酷睿 i3 CPU 或更高

硬盘：64G 硬盘或更高

内存：4GB RAM 或更高

### (2) 软件环境

操作系统：Linux64 位操作系统 (Ubuntu 18.04+ / Debian 9+)

### (3) 网络环境

IP 地址：1 个公网 IP 地址

带宽：**根据网络情况进行规划，建议最低配置 4Mbps。**

端口：服务器需使用以下端口，如果服务器的网络环境中存在防火墙，需开放相应端口

端口	协议
83	TCP
50000	UDP

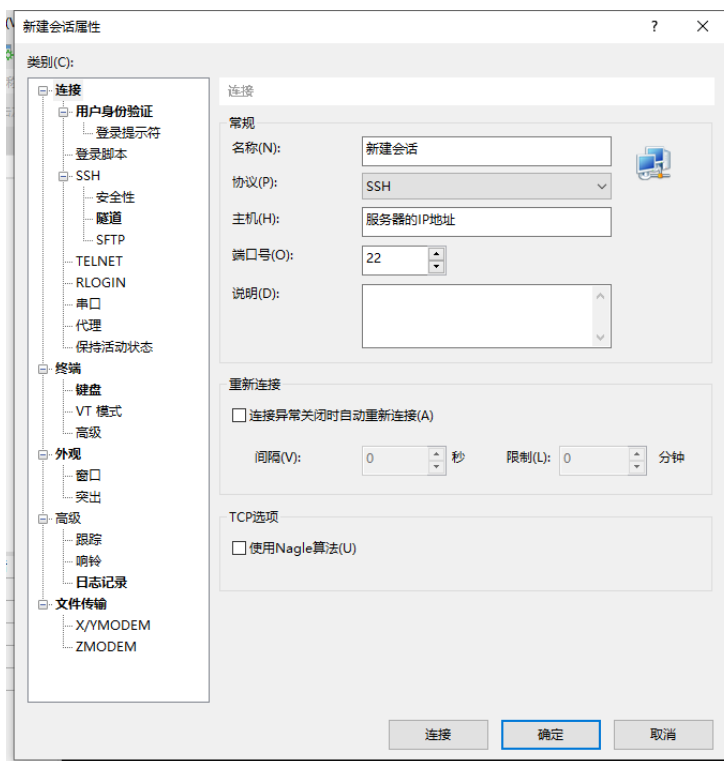
## 2. 登录服务器

采用远程终端软件登录服务器，建议采用 Xshell 或者 PuTTY 工具。

Xshell 下载链接：<https://www.netsarang.com/zh/xshell-download/>

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

(1) 下载并安装后，在新建会话属性中输入服务器 IP 地址，采用 SSH 协议通信，端口号默认为 22，输入完成后，点击[确定]按钮；



(2) 在弹出的对话框中输入用户名和密码，普通用户需要 sudo 获取管理权限，或以 root 身份登录。

```
sudo su
```

### 3.部署过程

(1)安装容器, 在终端窗口中输入:

```
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:   go1.16.6
 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:   go1.16.6
  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
```

(2) 拉取镜像 kiloview/kilolinkserverfree

```
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#
    
```

(3) 运行 kilolinkserverfree 容器，在终端窗口中输入：

```

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#
    
```



### 注意

默认使用 host 模式，因此默认使用主机 IP 进行部署。

(4) 启动 docker

```

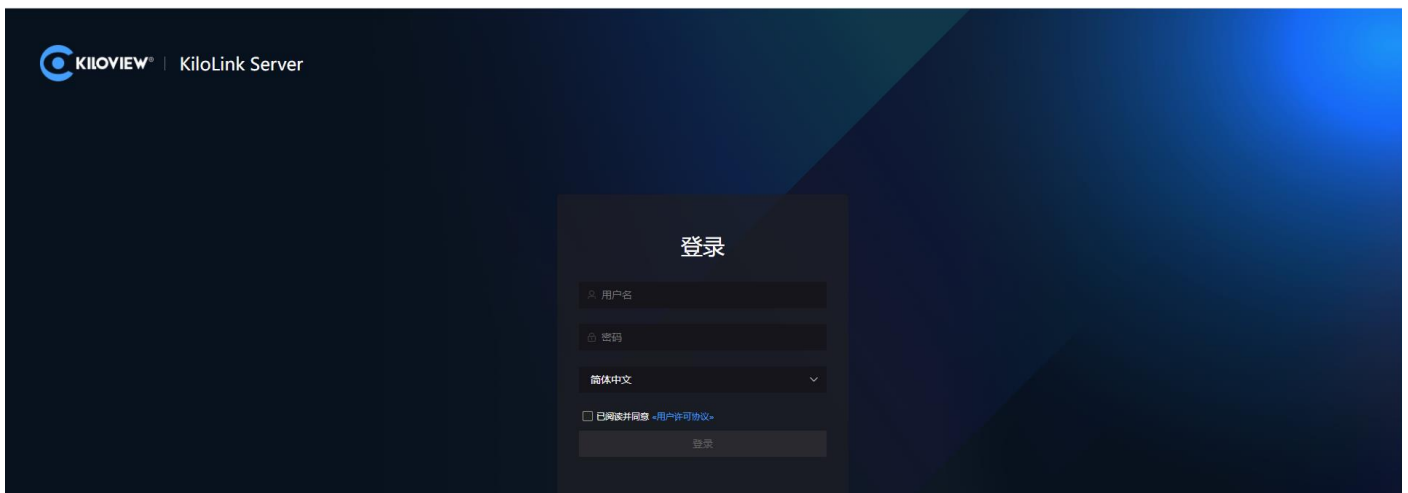
docker start kilolinkserverfree
    
```

```

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

## 4. 登录验证

在浏览器（推荐使用 google）地址栏中输入“服务器 IP 地址: 83”，回车后显示聚合服务器的登录界面，默认用户名为：admin，密码为：Kiloview001



### 注意

- (1) 服务器登录的默认端口号已经调整为 83;
- (2) 设备版本需要更新到支持 kiloLink server free 的最新版本;
- (3) 设备端的连接服务器的端口号为 50000.

## 4.部署常见问题及解决方法

### 4.1 如果在部署过程中遇到错误提示

解决方法:

请先检查操作系统版本, 目前仅支持 Linux64 位操作系统 Linux64-bit operating system  
(Ubuntu 18.04+ / Debian 9+)

(1) 查询 linux 位数: `getconf LONG_BIT`

```
Last login: Wed Oct 13 21:13:30 2021 from  
ubuntu@VM-4-5-ubuntu:~$ getconf LONG_BIT  
64  
ubuntu@VM-4-5-ubuntu:~$
```

(2) 查询 linux 版本号: `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:~$
```

## 4.2 安装 docker 长时间未响应

解决方法:

docker 安装过程较为缓慢, 需要耐心等待。可以使用命令 “docker version” 查看以及确认是否安装成功 docker。

```
root@ndi:~/cp_data3# docker version
Client: Docker Engine - Community
Version: 20.10.6
API version: 1.41
Go version: go1.13.15
Git commit: 370c289
Built: Fri Apr 9 22:47:17 2021
OS/Arch: linux/amd64
Context: default
Experimental: true

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



### 4.3 拉取镜像失败

```

root@ndi:~# 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
Unable to find image 'nicolargo/glances:latest' locally
latest: Pulling from nicolargo/glances
e1acd0be300c: Pulling fs layer
ecc7ff4d2622: Pulling fs layer
dae1d9fd74c1: Pulling fs layer
87bc5aa6fc42: Waiting
76f124aca9af: Waiting
9c408e9c51a4: Waiting
c125888d0329: Waiting
342605496b7f: Waiting
docker: error pulling image configuration: Get https://production.cloudflare.docker.com/registry-v2/docker/registry/v2/blobs/sha256/b3/b39a65d9d3bba1f746dd5c3fde71c65ab5f7113448ee923d459547969d65e222/data?verify=1636450334-W9x0k2Bd05e30Mj14
08f7x27Biy0he4k3D: dial tcp 194.18.124.25:443: i/o timeout.
See 'docker run --help'.
root@ndi:~# 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
Unable to find image 'nicolargo/glances:latest' locally
latest: Pulling from nicolargo/glances
docker: error parsing HTTP 408 response body: invalid character '<' looking for beginning of value: "<html><body><h1>408 Request Time-out</h1>\nYour browser didn't send a complete request in time.\n</body></html>\n\n".
See 'docker run --help'.
root@ndi:~#
    
```

#### 解决方法:

镜像拉取需要通过 internet 获取镜像文件，如果网络延迟较高或者无法连接 internet,请检查网络是否通畅，通过 ping 一个外部网站（如：百度）检查。

```

# This is the network config written by 'subiquity'
network
ethernets:
  eno1:
    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
    
```

## 4.4 命令执行过程中报 “no such file or directory” 错误

```
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
```

解决方法：

命令从文本文件复制到命令窗口时，带入了格式符，导致命令发生了变化。遇到这样的情况，请手动输入对应命令。



KiloLink Server Free 官方在线文档，请访问

<https://www.kiloview.com/cn/support/docs/kilolink-server-free>



Kiloview 官方技术支持网站，请访问

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



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