Flask配置

```
uname -r
```

3.10以上

```
Linux ljx 3.10.0-862.el7.x86_64 #1 SMP Fri Apr 20 16:44:24 UTC 2018 x86_64 x86_64 x86_64 GNU
Linux
[root@ljx ~]#
```

```
yum update -y
yum remove docker \
                docker-client \
                docker-client-latest \
                docker-common \
                docker-latest \
                docker-latest-logrotate \
                docker-logrotate \
                docker-engine



yum install  yum-utils -y

yum-config-manager \
    --add-repo \
    http://mirrors.aliyun.com/docker-ce/linux/centos/docker-ce.repo
     yum-config-manager \
    --add-repo \
    http://mirrors.aliyun.com/docker-ce/linux/centos/docker-ce.repo

yum -y install docker-ce docker-ce-cli containerd.io
```

```
已安装:
  containerd.io.x86_64 0:1.6.9-3.1.el7                docker-ce.x86_64 3:20.10.21-3.el7
  docker-ce-cli.x86_64 1:20.10.21-3.el7
作为依赖被安装:
  audit-libs-python.x86_64 0:2.8.5-4.el7
  checkpolicy.x86_64 0:2.5-8.el7
  container-selinux.noarch 2:2.119.2-1.911c772.el7_8
  docker-ce-rootless-extras.x86_64 0:20.10.21-3.el7
  docker-scan-plugin.x86_64 0:0.21.0-3.el7
  fuse-overlayfs.x86_64 0:0.7.2-6.el7_8
  fuse3-libs.x86_64 0:3.6.1-4.el7
  libcgroup.x86_64 0:0.41-21.el7
  libsemanage-python.x86_64 0:2.5-14.el7
  policycoreutils-python.x86_64 0:2.5-34.el7
  python-IPy.noarch 0:0.75-6.el7
  setools-libs.x86_64 0:3.3.8-4.el7
  slirp4netns.x86_64 0:0.4.3-4.el7_8

作为依赖被升级:
  audit.x86_64 0:2.8.5-4.el7
  audit-libs.x86_64 0:2.8.5-4.el7
  libselinux.x86_64 0:2.5-15.el7
  libselinux-python.x86_64 0:2.5-15.el7
  libselinux-utils.x86_64 0:2.5-15.el7
  libsemanage.x86_64 0:2.5-14.el7
  libsepol.x86_64 0:2.5-10.el7
  policycoreutils.x86_64 0:2.5-34.el7
  selinux-policy.noarch 0:3.13.1-268.el7_9.2
  selinux-policy-targeted.noarch 0:3.13.1-268.el7_9.2

完毕!
[root@ljx ~]#
```

```
docker version
```

```
[root@ljx ~]# docker version
Client: Docker Engine - Community
 Version:           20.10.21
 API version:       1.41
 Go version:        go1.18.7
 Git commit:        baeda1f
 Built:             Tue Oct 25 18:04:24 2022
 OS/Arch:           linux/amd64
 Context:           default
 Experimental:      true
Cannot connect to the Docker daemon at unix:///var/run/docker.sock. Is the docker daemon runn
ing?
[root@ljx ~]#
```

```
mkdir -p /etc/docker
tee /etc/docker/daemon.json <<-'EOF'
{
"registry-mirrors": ["https://dgxy4fzg.mirror.aliyuncs.com"]
}
EOF
```

```
[root@ljx yum.repos.d]# tee /etc/docker/daemon.json <<-'EOF'
> {
> "registry-mirrors": ["https://dgxy4fzg.mirror.aliyuncs.com"]
> }
> EOF
{
"registry-mirrors": ["https://dgxy4fzg.mirror.aliyuncs.com"]
}
```

```
systemctl daemon-reload
systemctl restart docker
systemctl enable docker
```

```
[root@ljx yum.repos.d]# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; vendor preset: disabled)
   Active: active (running) since 一 2022-10-31 00:14:53 CST; 11s ago
     Docs: https://docs.docker.com
 Main PID: 3274 (dockerd)
   CGroup: /system.slice/docker.service
           └─3274 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

10月 31 00:14:52 ljx dockerd[3274]: time="2022-10-31T00:14:52.870680432+08:00" level=i...rpc
10月 31 00:14:52 ljx dockerd[3274]: time="2022-10-31T00:14:52.870691603+08:00" level=i...rpc
10月 31 00:14:52 ljx dockerd[3274]: time="2022-10-31T00:14:52.882515347+08:00" level=i...t."
10月 31 00:14:53 ljx dockerd[3274]: time="2022-10-31T00:14:53.340616038+08:00" level=i...ss"
10月 31 00:14:53 ljx dockerd[3274]: time="2022-10-31T00:14:53.442426237+08:00" level=i...ng"
10月 31 00:14:53 ljx dockerd[3274]: time="2022-10-31T00:14:53.523933307+08:00" level=i...e."
10月 31 00:14:53 ljx dockerd[3274]: time="2022-10-31T00:14:53.622028980+08:00" level=i....21
10月 31 00:14:53 ljx dockerd[3274]: time="2022-10-31T00:14:53.638400474+08:00" level=i...on"
10月 31 00:14:53 ljx systemd[1]: Started Docker Application Container Engine.
10月 31 00:14:53 ljx dockerd[3274]: time="2022-10-31T00:14:53.679526254+08:00" level=i...ck"
Hint: Some lines were ellipsized, use -l to show in full.
[root@ljx yum.repos.d]#
```

```
curl -L "https://github.com/docker/compose/releases/download/1.25.4/docker-
compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
```

```
[root@ljx yum.repos.d]# curl -L "https://github.com/docker/compose/releases/download/1.25.4/d
ocker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
  0     0    0     0    0     0      0      0 --:--:--  0:00:01 --:--:--     0
  5 16.3M    5  943k    0     0  12576      0  0:22:45  0:01:16  0:21:29  8554
```

```
chmod +x /usr/local/bin/docker-compose

ln -s /usr/local/bin/docker-compose /usr/bin/docker-compose

docker-compose --version
```

```
ln: 无法创建符号链接 /usr/bin/docker-compose : 文件已存在
[root@ljx ~]# docker-compose --version
docker-compose version 1.25.4, build 8d51620a
[root@ljx ~]#
```

#安装python3

```
whereis python
cd /usr/bin/
ll python*
```

```
Cannot connect to the Docker daemon at unix:///var/run/docker.sock. Is the docker daemon runn
ing?
[root@ljx ~]# whereis python
python: /usr/bin/python /usr/bin/python2.7 /usr/lib/python2.7 /usr/lib64/python2.7 /etc/pyth
n /usr/include/python2.7 /usr/share/man/man1/python.1.gz
[root@ljx ~]# cd /usr/bin/
[root@ljx bin]# ll python*
lrwxrwxrwx. 1 root root     7 10月 30 23:38 python -> python2
lrwxrwxrwx. 1 root root     9 10月 30 23:38 python2 -> python2.7
-rwxr-xr-x. 1 root root 7216 4月  11 2018 python2.7
[root@ljx bin]#
```

```
yum install zlib-devel bzip2-devel openssl-devel ncurses-devel sqlite-devel
readline-devel tk-devel gcc make  wget -y
```

```
已安装:
  bzip2-devel.x86_64 0:1.0.6-13.el7                ncurses-devel.x86_64 0:5.9-14.20130511.el7_4
  openssl-devel.x86_64 1:1.0.2k-25.el7_9           readline-devel.x86_64 0:6.2-11.el7
  sqlite-devel.x86_64 0:3.7.17-8.el7_7.1           tk-devel.x86_64 1:8.5.13-6.el7
  wget.x86_64 0:1.14-18.el7_6.1                    zlib-devel.x86_64 0:1.2.7-20.el7_9

作为依赖被安装:
  dejavu-fonts-common.noarch 0:2.33-6.el7          dejavu-sans-fonts.noarch 0:2.33-6.el7
  expat-devel.x86_64 0:2.1.0-15.el7_9              fontconfig-devel.x86_64 0:2.13.0-4.3.el7
  freetype-devel.x86_64 0:2.8-14.el7_9.1           keyutils-libs-devel.x86_64 0:1.5.8-3.el7
  krb5-devel.x86_64 0:1.15.1-54.el7_9              libX11-devel.x86_64 0:1.6.7-4.el7_9
  libXau-devel.x86_64 0:1.0.8-2.1.el7              libXft-devel.x86_64 0:2.3.2-2.el7
  libXrender-devel.x86_64 0:0.9.10-1.el7           libcom_err-devel.x86_64 0:1.42.9-19.el7
  libkadm5.x86_64 0:1.15.1-54.el7_9                libpng-devel.x86_64 2:1.5.13-8.el7
  libselinux-devel.x86_64 0:2.5-15.el7             libsepol-devel.x86_64 0:2.5-10.el7
  libsmartcols.x86_64 0:2.23.2-65.el7_9.1          libuuid-devel.x86_64 0:2.23.2-65.el7_9.1
  libverto-devel.x86_64 0:0.2.5-4.el7              libxcb-devel.x86_64 0:1.13-1.el7
  pcre-devel.x86_64 0:8.32-17.el7                  tcl.x86_64 1:8.5.13-8.el7
  tcl-devel.x86_64 1:8.5.13-8.el7                  tk.x86_64 1:8.5.13-6.el7
  xorg-x11-proto-devel.noarch 0:2018.4-1.el7

更新完毕:
  gcc.x86_64 0:4.8.5-44.el7                         make.x86_64 1:3.82-24.el7

作为依赖被升级:
  cpp.x86_64 0:4.8.5-44.el7                         e2fsprogs.x86_64 0:1.42.9-19.el7
  e2fsprogs-libs.x86_64 0:1.42.9-19.el7            expat.x86_64 0:2.1.0-15.el7_9
  fontconfig.x86_64 0:2.13.0-4.3.el7               freetype.x86_64 0:2.8-14.el7_9.1
  gcc-c++.x86_64 0:4.8.5-44.el7                     gcc-gfortran.x86_64 0:4.8.5-44.el7
  krb5-libs.x86_64 0:1.15.1-54.el7_9               libX11.x86_64 0:1.6.7-4.el7_9
  libX11-common.noarch 0:1.6.7-4.el7_9             libblkid.x86_64 0:2.23.2-65.el7_9.1
  libcom_err.x86_64 0:1.42.9-19.el7                libgcc.x86_64 0:4.8.5-44.el7
  libgfortran.x86_64 0:4.8.5-44.el7                libgomp.x86_64 0:4.8.5-44.el7
  libmount.x86_64 0:2.23.2-65.el7_9.1              libpng.x86_64 2:1.5.13-8.el7
  libquadmath.x86_64 0:4.8.5-44.el7                libquadmath-devel.x86_64 0:4.8.5-44.el7
  libss.x86_64 0:1.42.9-19.el7                     libstdc++.x86_64 0:4.8.5-44.el7
  libstdc++-devel.x86_64 0:4.8.5-44.el7            libuuid.x86_64 0:2.23.2-65.el7_9.1
  libxcb.x86_64 0:1.13-1.el7                       openssl.x86_64 1:1.0.2k-25.el7_9
  openssl-libs.x86_64 1:1.0.2k-25.el7_9            readline.x86_64 0:6.2-11.el7
  sqlite.x86_64 0:3.7.17-8.el7_7.1                 util-linux.x86_64 0:2.23.2-65.el7_9.1
  zlib.x86_64 0:1.2.7-20.el7_9

完毕!
[root@ljx bin]#
```

```
wget https://www.python.org/ftp/python/3.9.6/Python-3.9.6.tar.xz
```

```
[root@ljx bin]# wget https://www.python.org/ftp/python/3.9.6/Python-3.9.6.tar.xz
--2022-10-31 00:11:31--  https://www.python.org/ftp/python/3.9.6/Python-3.9.6.tar.xz
正在解析主机 www.python.org (www.python.org)... 151.101.108.223, 2a04:4e42:8c::223
正在连接 www.python.org (www.python.org)|151.101.108.223|:443... 已连接。
已发出 HTTP 请求，正在等待回应... 200 OK
长度: 19051972 (18M) [application/octet-stream]
正在保存至: "Python-3.9.6.tar.xz"

 1% [                                                    ] 358,526      13.7KB/s 剩余 20m 41s
```

```
xz -d Python-3.9.6.tar.xz
tar -xf Python-3.9.6.tar
cd Python-3.9.6
```

```
[root@ljx bin]# xz -d Python-3.9.6.tar.xz
[root@ljx bin]# tar -xf Python-3.9.6.tar
[root@ljx bin]# cd Python-3.9.6
[root@ljx Python-3.9.6]#
```

```
./configure prefix=/usr/local/python3
```

```
checking langinfo.h presence... yes
checking for langinfo.h... yes
checking libintl.h usability... yes
checking libintl.h presence... yes
checking for libintl.h... yes
checking process.h usability... no
checking process.h presence... no
checking for process.h... no
checking pthread.h usability... yes
checking pthread.h presence... yes
checking for pthread.h... yes
checking sched.h usability... yes

checking sched.h usability... yes
checking sched.h presence... yes
checking for sched.h... yes
checking shadow.h usability... yes
checking shadow.h presence... yes
checking for shadow.h... yes
checking signal.h usability... yes
checking signal.h presence... yes
checking for signal.h... yes
checking stropts.h usability... no
checking stropts.h presence... no
checking for stropts.h... no
checking termios.h usability... yes
checking termios.h presence... yes
checking for termios.h... yes
checking utime.h usability... yes
checking utime.h presence... yes
checking for utime.h... yes
checking poll.h usability... yes
checking poll.h presence... yes
checking for poll.h... yes
checking sys/devpoll.h usability... no
checking sys/devpoll.h presence... no
checking for sys/devpoll.h... no
checking sys/epoll.h usability... yes
checking sys/epoll.h presence... yes
checking for sys/epoll.h... yes
checking sys/poll.h usability... yes
checking sys/poll.h presence... yes
checking for sys/poll.h... yes
checking sys/audioio.h usability... no
checking sys/audioio.h presence... 
```

```
make && make install
```

```
/usr/bin/install -c -m 644 ./Lib/importlib/_bootstrap.py /usr/local/python3/lib/python3.9/importlib
/usr/bin/install -c -m 644 ./Lib/importlib/_common.py /usr/local/python3/lib/python3.9/importlib
/usr/bin/install -c -m 644 ./Lib/importlib/__init__.py /usr/local/python3/lib/python3.9/importlib
/usr/bin/install -c -m 644 ./Lib/importlib/machinery.py /usr/local/python3/lib/python3.9/importlib
/usr/bin/install -c -m 644 ./Lib/importlib/metadata.py /usr/local/python3/lib/python3.9/importlib
/usr/bin/install -c -m 644 ./Lib/importlib/resources.py /usr/local/python3/lib/python3.9/importlib
/usr/bin/install -c -m 644 ./Lib/importlib/util.py /usr/local/python3/lib/python3.9/importlib

/usr/bin/install -c -m 644 ./Lib/importlib/_bootstrap.py /usr/local/python3/lib/python3.9/importlib
/usr/bin/install -c -m 644 ./Lib/importlib/_common.py /usr/local/python3/lib/python3.9/importlib
/usr/bin/install -c -m 644 ./Lib/importlib/__init__.py /usr/local/python3/lib/python3.9/importlib
/usr/bin/install -c -m 644 ./Lib/importlib/machinery.py /usr/local/python3/lib/python3.9/importlib
/usr/bin/install -c -m 644 ./Lib/importlib/metadata.py /usr/local/python3/lib/python3.9/importlib
/usr/bin/install -c -m 644 ./Lib/importlib/resources.py /usr/local/python3/lib/python3.9/importlib
/usr/bin/install -c -m 644 ./Lib/importlib/util.py /usr/local/python3/lib/python3.9/importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/abc.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/fixtures.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/__init__.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/__main__.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/stubs.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_abc.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_api.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_files.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_lazy.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_locks.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_main.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_metadata_api.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_namespace_pkgs.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_open.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_path.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_pkg_import.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_read.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_resource.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_spec.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_threaded_import.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_util.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_windows.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/test_zip.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/threaded_import_hangers.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/util.py /usr/local/python3/lib/python3.9/test/test_importlib
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/builtin/__init__.py /usr/local/python3/lib/python3.9/test/test_importlib/builtin
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/builtin/__main__.py /usr/local/python3/lib/python3.9/test/test_importlib/builtin
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/builtin/test_finder.py /usr/local/python3/lib/python3.9/test/test_importlib/builtin
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/builtin/test_loader.py /usr/local/python3/lib/python3.9/test/test_importlib/builtin
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/data/example-21.12-py3.6.egg /usr/local/python3/lib/python3.9/test/test_importlib/data
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/data/example-21.12-py3-none-any.whl /usr/local/python3/lib/python3.9/test/test_importlib/data
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/data/__init__.py /usr/local/python3/lib/python3.9/test/test_importlib/data
/usr/bin/install -c -m 644 ./Lib/test/test_importlib/data01/binary.file /usr/local/python3/lib/python3.9/test/test_importlib/data01
```

```
yum install zlib zlib-devel -y
mv /usr/bin/python /usr/bin/python.bak
ln -s /usr/local/python3/bin/python3.9 /usr/bin/python3
python3 -V
```

```
[root@ljx Python-3.9.6]# yum install zlib zlib-devel -y
已加载插件: fastestmirror
Loading mirror speeds from cached hostfile
 * base: mirrors.aliyun.com
 * extras: mirrors.aliyun.com
 * updates: mirrors.aliyun.com
软件包 zlib-1.2.7-20.el7_9.x86_64 已安装并且是最新版本
软件包 zlib-devel-1.2.7-20.el7_9.x86_64 已安装并且是最新版本
无须任何处理
[root@ljx Python-3.9.6]# mv /usr/bin/python /usr/bin/python.bak
[root@ljx Python-3.9.6]# ln -s /usr/local/python3/bin/python3.9 /usr/bin/python3
[root@ljx Python-3.9.6]# python3 -V
Python 3.9.6
[root@ljx Python-3.9.6]#
```

```
vi /usr/bin/yum
vi /usr/libexec/urlgrabber-ext-down
#! /usr/bin/python2
```

python 2/3

```
[root@ljx Python-3.9.6]# python2
Python 2.7.5 (default, Apr 11 2018, 07:36:10)
[GCC 4.8.5 20150623 (Red Hat 4.8.5-28)] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>>
[1]+  已停止                  python2
[root@ljx Python-3.9.6]# python3
Python 3.9.6 (default, Oct 31 2022, 00:33:54)
[GCC 4.8.5 20150623 (Red Hat 4.8.5-44)] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
[2]+  已停止                  python3
[root@ljx Python-3.9.6]#
```

#安装python-pip

```
yum -y install epel-release -y
yum -y install python-pip -y
yum -y install python3-pip -y
pip3 install --upgrade pip
```



```
pip3 install docker-compose
```



```
docker-compose version
```



```
yum install git -y
git clone https://hub.yzuu.cf/docker/awesome-compose.git
```

```
完毕!
[root@ljx Python-3.9.6]# git clone https://hub.yzuu.cf/docker/awesome-compose.git
正克隆到 'awesome-compose'...
remote: Enumerating objects: 2353, done.
remote: Counting objects: 100% (18/18), done.
remote: Compressing objects: 100% (16/16), done.
remote: Total 2353 (delta 0), reused 15 (delta 0), pack-reused 2335
接收对象中: 100% (2353/2353), 5.91 MiB | 276.00 KiB/s, done.
处理 delta 中: 100% (1059/1059), done.
[root@ljx Python-3.9.6]#
```

```
[root@ljx awesome-compose]# ls
angular                       fastapi            minecraft               nginx-golang-mysql            plex                   react-nginx            vuejs
apache-php                    flask              nextcloud-postgres      nginx-golang-postgres         portainer              react-rust-postgres    wireguard
aspnet-mssql                  flask-redis        nextcloud-redis-mariadb nginx-nodejs-redis            postgresql-pgadmin     README.md              wordpress-mysql
awesome-compose.jpg           gitea-postgres     nginx-aspnet-mysql      nginx-wsgi-flask              prometheus-grafana     sparkjava
CONTRIBUTING.md               icon_devenvs.svg   nginx-flask-mongo       official-documentation-samples react-express-mongodb sparkjava-mysql
django                        LICENSE            nginx-flask-mysql       open_in_new.svg               react-express-mysql    spring-postgres
elasticsearch-logstash-kibana MAINTAINERS        nginx-golang           pihole-cloudflared-DoH        react-java-mysql       traefik-golang
[root@ljx awesome-compose]#
```

mkdir flask-ljx

vim app.py

```python
from flask import Flask
from redis import Redis

app = Flask(__name__)
redis = Redis(host='redis', port=6379)

@app.route('/')
def hello():
    count = redis.incr('hits')
    return 'Hello World! 该页面已被访问 {} 次。\n'.format(count)

if __name__ == "__main__":
    app.run(host="0.0.0.0", debug=True)
```


vim Dockerfile

```dockerfile
FROM python:3.6-alpine
ADD . /code
WORKDIR /code
RUN pip3 install redis flask
CMD ["python", "app.py"]
```

```
FROM python:3.6-alpine
ADD . /code
WORKDIR /code
RUN pip install redis flask
CMD ["python", "app.py"]
~
~
~
```

vim docker-compose.yml

```
version: '3'
services:

  web:
    build: .
    ports:

    - "5000:5000"

  redis:
    image: "redis:alpine"
```

```
version: '3'
services:

  web:
    build: .
    ports:
     - "5000:5000"

  redis:
    image: "redis:alpine"
~
~
~
```

后台启动

```
docker-compose up -d
```

```
[root@ljx flask-ljx]# docker-compose up -d
/usr/local/lib/python3.6/site-packages/paramiko/transport.py:33: CryptographyDeprecationWarning: Python 3.6 is no longer supported by the Python core team. Therefore, support for it is depr
ecated in cryptography and will be removed in a future release.
  from cryptography.hazmat.backends import default_backend
Creating network "flask-ljx_default" with the default driver
Building web
Sending build context to Docker daemon  8.704kB
Step 1/5 : FROM python:3.6-alpine
3.6-alpine: Pulling from library/python
59bf1c3509f3: Pull complete
8786870f2876: Pull complete
acb0e804800e: Pull complete
52bedcb3e853: Pull complete
b064415ed3d7: Pull complete
Digest: sha256:579978dec4602646fe1262f02b96371779bfb0294e92c91392707fa999c0c989
Status: Downloaded newer image for python:3.6-alpine
 ---> 3a9e80fa4606
Step 2/5 : ADD . /code
 ---> de57eba013a8
Step 3/5 : WORKDIR /code
 ---> Running in 3cf13fe56004
Removing intermediate container 3cf13fe56004
 ---> 5a0b296c4d37
Step 4/5 : RUN pip install redis flask
 ---> Running in bc4074a30aec
Collecting redis
  Downloading redis-4.3.4-py3-none-any.whl (246 kB)
Collecting flask
  Downloading Flask-2.0.3-py3-none-any.whl (95 kB)
Collecting packaging>=20.4
  Downloading packaging-21.3-py3-none-any.whl (40 kB)
Collecting deprecated>=1.2.3
  Downloading Deprecated-1.2.13-py2.py3-none-any.whl (9.6 kB)
Collecting async-timeout>=4.0.2
  Downloading async_timeout-4.0.2-py3-none-any.whl (5.8 kB)
Collecting importlib-metadata>=1.0
  Downloading importlib_metadata-4.8.3-py3-none-any.whl (17 kB)
Collecting typing-extensions
  Downloading typing_extensions-4.1.1-py3-none-any.whl (26 kB)
Collecting Jinja2>=3.0
  Downloading Jinja2-3.0.3-py3-none-any.whl (133 kB)
Collecting Werkzeug>=2.0
  Downloading Werkzeug-2.0.3-py3-none-any.whl (289 kB)
Collecting click>=7.1.2
  Downloading click-8.0.4-py3-none-any.whl (97 kB)
Collecting itsdangerous>=2.0
  Downloading itsdangerous-2.0.1-py3-none-any.whl (18 kB)
```

```
[root@ljx flask-ljx]# docker-compose up -d
/usr/local/lib/python3.6/site-packages/paramiko/transport.py:33: CryptographyDeprecationWarning: Python 3.6 is no longer supported by the Python core team. Therefore, support for it is depr
ecated in cryptography and will be removed in a future release.
  from cryptography.hazmat.backends import default_backend
Creating network "flask-ljx_default" with the default driver
Creating flask-ljx_redis_1 ... done
Creating flask-ljx_web_1   ... done
[root@ljx flask-ljx]# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED         STATUS         PORTS                                       NAMES
37cb0cd112b9   flask-ljx_web  "python app.py"          6 seconds ago   Up 5 seconds   0.0.0.0:5000->5000/tcp, :::5000->5000/tcp   flask-ljx_web_1
cfa144c6bf9a   redis:alpine   "docker-entrypoint.s…"   6 seconds ago   Up 5 seconds   6379/tcp                                    flask-ljx_redis_1
[root@ljx flask-ljx]#
```

```
curl localhost:5000
```

```
[root@ljx flask-ljx]# curl localhost:5000
Hello World! 该页面已被访问 1 次。
[root@ljx flask-ljx]# curl localhost:5000
Hello World! 该页面已被访问 2 次。
[root@ljx flask-ljx]# curl localhost:5000
Hello World! 该页面已被访问 3 次。
[root@ljx flask-ljx]# curl localhost:5000
Hello World! 该页面已被访问 4 次。
[root@ljx flask-ljx]# curl localhost:5000
Hello World! 该页面已被访问 5 次。
[root@ljx flask-ljx]#
```

停止

```
docker-compose down
```

```
[root@ljx flask-ljx]# docker-compose down
/usr/local/lib/python3.6/site-packages/paramiko/transport.py:33: CryptographyDeprecationWarning: Python 3.6 is no longer supported by the Python core team. Therefore, support for it is dep
ecated in cryptography and will be removed in a future release.
  from cryptography.hazmat.backends import default_backend
Stopping flask-ljx_web_1   ... done
Stopping flask-ljx_redis_1 ... done
Removing flask-ljx_web_1   ... done
Removing flask-ljx_redis_1 ... done
Removing network flask-ljx_default
[root@ljx flask-ljx]#
```

查询容器列表

```
docker-compose ps
```

查询日志 (查询所有日志，可以辅助排查个别容器启动失败问题)

```
docker-compose logs
```