◆ Docker 安装 Tomcat

Docker 安装 Redis →

Docker 安装 Python

方法一、docker pull python:3.5

查找Docker Hub上的python镜像

| runoob@runoob:~/python\$ docke | r search python | | | |
|--------------------------------|---------------------------------------|-------|----------|-----------|
| IAME | DESCRIPTION | STARS | OFFICIAL | AUTOMATED |
| python | Python is an interpreted, | 982 | [OK] | |
| kaggle/python | Docker image for Python | 33 | | [OK] |
| azukiapp/python | Docker image to run Python | 3 | | [OK] |
| vimagick/python | mini python | | 2 | [OK] |
| tsuru/python | Image for the Python | 2 | | [OK] |
| pandada8/alpine-python | An alpine based python image | | 1 | [OK] |
| 1science/python | Python Docker images based on \dots | 1 | | [OK] |
| lucidfrontier45/python-uwsgi | Python with uWSGI | 1 | | [OK] |
| orbweb/python | Python image | 1 | | [OK] |
| pathwar/python | Python template for Pathwar levels | 1 | | [OK] |
| rounds/10m-python | Python, setuptools and pip. | 0 | | [OK] |
| ruimashita/python | ubuntu 14.04 python | 0 | | [OK] |
| tnanba/python | Python on CentOS-7 image. | 0 | | [OK] |

这里我们拉取官方的镜像,标签为3.5

runoob@runoob:~/python\$ docker pull python:3.5

等待下载完成后,我们就可以在本地镜像列表里查到REPOSITORY为python,标签为3.5的镜像。

| runoob@runoob:~/ | python\$ docker | <pre>images python:3.5</pre> | | |
|------------------|-----------------|------------------------------|------------|----------|
| REPOSITORY | TAG | IMAGE ID | CREATED | SIZE |
| ython | 3.5 | 045767ddf24a | 9 days ago | 684.1 MB |

方法二、通过 Dockerfile 构建

创建Dockerfile

首先,创建目录python,用于存放后面的相关东西。

runoob@runoob:~\$ mkdir -p ~/python ~/python/myapp

myapp目录将映射为python容器配置的应用目录

进入创建的python目录,创建Dockerfile

```
FROM buildpack-deps:jessie
# remove several traces of debian python
RUN apt-get purge -y python.*
# http://bugs.python.org/issue19846
# > At the moment, setting "LANG=C" on a Linux system *fundamentally breaks Python 3*, and that's not 0
Κ.
ENV LANG C.UTF-8
# gpg: key F73C700D: public key "Larry Hastings <larry@hastings.org>" imported
ENV GPG KEY 97FC712E4C024BBEA48A61ED3A5CA953F73C700D
ENV PYTHON VERSION 3.5.1
# if this is called "PIP_VERSION", pip explodes with "ValueError: invalid truth value '<VERSION>'"
ENV PYTHON_PIP_VERSION 8.1.2
RUN set -ex \
       && curl -fSL "https://www.python.org/ftp/python/${PYTHON_VERSION%%[a-z]*}/Python-$PYTHON_VERSIO
N.tar.xz" -o python.tar.xz \
        && curl -fSL "https://www.python.org/ftp/python/${PYTHON_VERSION%%[a-z]*}/Python-$PYTHON_VERSIO
N.tar.xz.asc" -o python.tar.xz.asc \
       && export GNUPGHOME="$(mktemp -d)" \
        && gpg --keyserver ha.pool.sks-keyservers.net --recv-keys "$GPG KEY" \
        && gpg --batch --verify python.tar.xz.asc python.tar.xz \
       && rm -r "$GNUPGHOME" python.tar.xz.asc \
       && mkdir -p /usr/src/python \
       && tar -xJC /usr/src/python --strip-components=1 -f python.tar.xz \
       && rm python.tar.xz \
       && cd /usr/src/python \
       && ./configure --enable-shared --enable-unicode=ucs4 \
       && make -j$(nproc) \
        && make install \
       && ldconfig \
       && pip3 install --no-cache-dir --upgrade --ignore-installed pip==$PYTHON_PIP_VERSION \
        && find /usr/local -depth \
                \(\
                    \( -type d -a -name test -o -name tests \) \
                    \( -type f -a -name '*.pyc' -o -name '*.pyo' \) \
                \) -exec rm -rf '{}' + \
        && rm -rf /usr/src/python ~/.cache
# make some useful symlinks that are expected to exist
RUN cd /usr/local/bin \
       && ln -s easy_install-3.5 easy_install \
```

```
&& ln -s idle3 idle \
&& ln -s pydoc3 pydoc \
&& ln -s python3 python \
&& ln -s python3-config python-config

CMD ["python3"]
```

通过Dockerfile创建一个镜像,替换成你自己的名字

```
runoob@runoob:~/python$ docker build -t python:3.5 .
```

创建完成后,我们可以在本地的镜像列表里查找到刚刚创建的镜像

使用python镜像

在~/python/myapp目录下创建一个 helloworld.py 文件, 代码如下:

```
#!/usr/bin/python
print("Hello, World!");
```

运行容器

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命令说明:

- -v \$PWD/myapp:/usr/src/myapp:将主机中当前目录下的myapp挂载到容器的/usr/src/myapp
- -w /usr/src/myapp:指定容器的/usr/src/myapp目录为工作目录

python helloworld.py:使用容器的python命令来执行工作目录中的helloworld.py文件

输出结果:

Hello, World!

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