内网安装docker环境

- 在为期两天的部署过程当中遇到的一些问题和docker环境的部署的记录

防火墙

- 切记：首先关闭防火墙，不然容器访问会报错，血的教训！！！
- 执行 `systemctl stop firewalld.service`
- 永久禁用防火墙，执行 `systemctl disable firewalld.service`
- 如果是先安装的docker,再停止防火墙，切记要重启docker！！！！，执行 `systemctl restart docker`

离线 - 内网环境

- 从 `https://download.docker.com/linux/static/stable/x86_64/` 下载docker压缩包

Index of linux/static/stable/x86_64/

```
../
docker-17.03.0-ce.tgz                              2020-08-04 23:42:52 26.5 MiB
docker-17.03.1-ce.tgz                              2020-08-04 21:57:13 26.5 MiB
docker-17.03.2-ce.tgz                              2020-08-04 21:57:13 26.5 MiB
docker-17.06.0-ce.tgz                              2020-08-04 23:42:52 28.3 MiB
docker-17.06.1-ce.tgz                              2020-08-04 23:42:53 28.3 MiB
docker-17.06.2-ce.tgz                              2020-08-04 23:42:54 28.3 MiB
docker-17.09.0-ce.tgz                              2020-08-04 23:42:54 29.0 MiB
docker-17.09.1-ce.tgz                              2020-08-04 23:42:55 29.0 MiB
docker-17.12.0-ce.tgz                              2020-08-04 23:42:55 32.7 MiB
docker-17.12.1-ce.tgz                              2020-08-04 23:42:56 32.7 MiB
docker-18.03.0-ce.tgz                              2020-08-04 23:42:57 37.0 MiB
docker-18.03.1-ce.tgz                              2020-08-04 23:42:58 37.0 MiB
docker-18.06.0-ce.tgz                              2020-08-04 23:42:58 41.8 MiB
docker-18.06.1-ce.tgz                              2020-08-04 23:42:59 41.8 MiB
docker-18.06.2-ce.tgz                              2020-08-04 23:43:00 41.8 MiB
docker-18.06.3-ce.tgz                              2020-08-04 23:43:09 41.8 MiB
docker-18.09.0.tgz                                 2020-08-04 23:43:10 44.9 MiB
docker-18.09.1.tgz                                 2020-08-04 23:43:10 45.8 MiB
docker-18.09.2.tgz                                 2020-08-04 23:43:11 45.8 MiB
docker-18.09.3.tgz                                 2020-08-04 23:43:12 45.8 MiB
docker-18.09.4.tgz                                 2020-08-04 23:43:13 45.8 MiB
docker-18.09.5.tgz                                 2020-08-04 23:43:15 45.8 MiB
docker-18.09.6.tgz                                 2020-08-04 23:43:15 45.8 MiB
docker-18.09.7.tgz                                 2020-08-04 23:43:16 45.8 MiB
docker-18.09.8.tgz                                 2020-08-04 23:43:17 45.8 MiB
docker-18.09.9.tgz                                 2020-08-04 23:43:23 53.7 MiB
docker-19.03.0.tgz                                 2020-08-04 23:43:24 60.3 MiB
docker-19.03.1.tgz                                 2020-08-04 23:43:25 60.3 MiB
docker-19.03.10.tgz                                2020-08-04 23:43:29 57.9 MiB
docker-19.03.11.tgz                                2020-08-04 23:43:30 57.9 MiB
docker-19.03.12.tgz                                2020-09-17 02:18:45 57.9 MiB
docker-19.03.13.tgz                                2020-10-22 19:52:49 59.3 MiB
docker-19.03.14.tgz                                2020-12-01 21:01:38 59.5 MiB
docker-19.03.15.tgz                                2021-03-02 20:51:12 59.5 MiB
docker-19.03.2.tgz                                 2020-08-04 23:43:32 60.4 MiB
docker-19.03.3.tgz                                 2020-08-04 23:43:34 60.3 MiB
docker-19.03.4.tgz                                 2020-08-04 23:43:35 60.3 MiB
docker-19.03.5.tgz                                 2020-08-04 23:43:36 60.3 MiB
docker-19.03.6.tgz                                 2020-08-04 23:43:37 60.7 MiB
docker-19.03.7.tgz                                 2020-08-04 23:43:38 60.7 MiB
docker-19.03.8.tgz                                 2020-08-04 23:43:39 60.7 MiB
docker-19.03.9.tgz                                 2020-08-04 23:43:40 57.9 MiB
docker-20.10.0.tgz                                 2020-12-11 16:52:47 65.7 MiB
docker-20.10.1.tgz                                 2020-12-15 05:11:49 65.7 MiB
docker-20.10.10.tgz                                2021-10-26 06:58:41 60.4 MiB
docker-20.10.11.tgz                                2021-12-12 11:58:29 60.4 MiB
docker-20.10.12.tgz                                2021-12-13 14:41:02 60.4 MiB
docker-20.10.13.tgz                                2022-03-24 02:14:27 61.3 MiB
docker-20.10.14.tgz                                2022-03-24 02:48:35 61.3 MiB
```

- 将文件解压，执行 `tar -zxvf docker-18.06.3-ce.tgz`
- 将解压出来的文件复制到 `/usr/bin`，执行 `docker cp docker/** /usr/bin`
- 进入 `/etc/systemd/system`，创建docker.service文件，插入一下内容

```
1  [Unit]
2  Description=Docker Application Container Engine
```

```
 3   Documentation=https://docs.docker.com
 4   After=network-online.target firewalld.service
 5   Wants=network-online.target
 6
 7   [Service]
 8   Type=notify
 9   # the default is not to use systemd for cgroups because the delegate issues still
10   # exists and systemd currently does not support the cgroup feature set required
11   # for containers run by docker
12   ExecStart=/usr/bin/dockerd --selinux-enabled=false --insecure-registry=自己服务器IP
13   ExecReload=/bin/kill -s HUP $MAINPID
14   # Having non-zero Limit*s causes performance problems due to accounting overhead
15   # in the kernel. We recommend using cgroups to do container-local accounting.
16   LimitNOFILE=infinity
17   LimitNPROC=infinity
18   LimitCORE=infinity
19   # Uncomment TasksMax if your systemd version supports it.
20   # Only systemd 226 and above support this version.
21   #TasksMax=infinity
22   TimeoutStartSec=0
23   # set delegate yes so that systemd does not reset the cgroups of docker containers
24   Delegate=yes
25   # kill only the docker process, not all processes in the cgroup
26   KillMode=process
27   # restart the docker process if it exits prematurely
28   Restart=on-failure
29   StartLimitBurst=3
30   StartLimitInterval=60s
31
32   [Install]
33   WantedBy=multi-user.target
```

- 重新加载文件，执行 `systemctl daemon-reload`
- 设置docker开机启动，执行 `systemctl enable docker.service`
- 安装完毕，最后查看docker是否起来，执行 `systemctl status docker`

安装docker-compose环境

离线 - 内网环境

- 从 `https://github.com/docker/compose/releases/` 选择对应的版本，下载压缩包

1.29.2

List of PRs / issues for this release

Miscellaneous

- Remove prompt to use `docker compose` in the `up` command
- Bump `py` to `1.10.0` in `requirements-indirect.txt`

▾ Assets 11

⬡ **docker-compose-Darwin-x86_64** 加速下载		9.94 MB
⬡ **docker-compose-Darwin-x86_64.sha256** 加速下载		95 Bytes
⬡ **docker-compose-Darwin-x86_64.tgz** 加速下载		9.96 MB
⬡ **docker-compose-Darwin-x86_64.tgz.sha256** 加速下载		99 Bytes
⬡ **docker-compose-Linux-x86_64** 加速下载		12.1 MB
⬡ **docker-compose-Linux-x86_64.sha256** 加速下载		94 Bytes
⬡ **docker-compose-Windows-x86_64.exe** 加速下载		9.96 MB
⬡ **docker-compose-Windows-x86_64.exe.sha256** 加速下载		101 Bytes
⬡ **run.sh** 加速下载		2.52 KB

- 将下载下来的文件拷贝到 `/usr/lcoal/bin` 目录下，修改为docker-compose。执行 `mv docker-compose-Linux-x86_64 /usr/local/bin/docker-compose`
- 赋予权限，执行 `chmod 777 docker-compose`
- 执行 `docker-compose version`，如果报错，显示未找到 `docker-compose` 命令
- 执行 `ln -s /usr/local/bin/docker-compose /usr/bin/docker-compose`
  - 警告：不要使用相对地址，一定要使用绝对地址。血的教训！！！
  - ⚠️：如果看到软连接的目录或者命令显示红色，一直在跳动，说明没执行成功，或者执行的对象不存在，请检查命令
- 再次执行 `docker-compose version`，就可以查看到docker-compose的版本了