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| 1、安装最新版本 Docker 依赖版本环境  上传CentOS7-Base-163.repo至/etc/yum.repos.d  [root@localhost yum.repos.d]# yum clean all  [root@localhost yum.repos.d]# yum makecache  [root@localhost yum.repos.d]# cd ~  [root@localhost ~]# yum install -y yum-utils device-mapper-persistent-data lvm2  [root@localhost ~]# yum-config-manager --add-repo <https://download.docker.com/linux/centos/docker-ce.repo>  2、安装Docker并设置为开机自动启动  [root@localhost ~]# yum -y install docker-ce  [root@localhost ~]# systemctl start docker  [root@localhost ~]# systemctl enable docker  [root@localhost ~]# systemctl status docker  3、通过检查 Docker 版本查看 Docker 服务  [root@localhost ~]# docker version  图1 docker版本信息   1. 查看镜像信息   ###用户可以使用 docker images 命令查看下载到本地的所有镜像  [root@localhost ~]# docker images  图2 查看本地所有镜像   1. 给镜像添加标签   ###为了在后续工作中使用镜像， 可以用 docker tag 命令来为本地的镜像添加新的标签。  [root@localhost ~]# docker tag nickistre/centos-lamp:latest lamp:lamp    图3 添加标签的镜像   1. 删除镜像   ###可以使用 docker rmi 命令删除多余的镜像。删除镜像的操作有两种方法： 使用镜像的标签删除镜像； 使用镜像的 ID 删除镜像。  [root@localhost ~]# docker rmi lamp:lamp |
| 图4 删除镜像  ###当一个镜像有多个标签的时候，docker rmi 命令只是删除该镜像多个标签中的一个指定标签，不会影响镜像文件。但当该镜像只剩下一个标签的时候，再使用删除命令就会彻底删除该镜像。  例如： 删除 nickistre/centos-lamp 镜像， 它会删除整个镜像文件的所有层。  [root@localhost ~]# docker rmi nickistre/centos-lamp:latest  Untagged: nickistre/centos-lamp:latest  Untagged: nickistre/centos-lamp@sha256:6012dff0d5f805342d65e8eb3cae4e83e75bce16980915b165ef55d64866e91d  Deleted: sha256:0b8d572d1c7d20f8b2e86bb92517dd3a9e8f935194c7f48af5dc84984e7c5f44  Deleted: sha256:ac1f500d470a0d21ed6ed9e2132d86b5d636721d2d3301c9932136dc0d03c18e  Deleted: sha256:39595439de2a48c9d23506f76ad810902e3944f2cec2eb730b5a17ba48888bdb  Deleted: sha256:ef99b0f2358f87fb0a8d835835a1f15e557257397ca38db499165725d002a221  Deleted: sha256:82c70ac1157f6619be0415859d8d4201c5c7eef31a189214aa9924819d5b9a3a  Deleted: sha256:bad51cc6d300486ffcbdfd227eda325e5da3c176fd05d2036f581ec87a24956c  Deleted: sha256:09a51d85abc0e82c8ac8d8990fafab6cfedc80c7a2152e6fbac0fea31c9ae550  Deleted: sha256:26ab098c4e7de9c0f5d2bdb84d0e89ff3d8c6693594605dcbb005f93428176a0  Deleted: sha256:5638af005abf6a9991c71e49a784ebc43b606867207c9557fad3eb319e1f5e57  Deleted: sha256:95eabe3b5d839ad6652938d67818f09e6e7a8d1dc94a5da3be5d9fa0726280ce  Deleted: sha256:cd4013e7fada12e92334ba2f85618175ce5b8521011146c9bb04209cb6cd4b1a  Deleted: sha256:33ebf7adc5511801e6ec775de4b00ff7d54a7e9b01c91969afe139ba460c7659  Deleted: sha256:64b87534723ca654a93a98d53374157d5aa68384f29390676103c46f56af7f44  Deleted: sha256:1f12d6f0a489a1ddc36f2208ec4e1334434cd5f54c7ab3db125ec88f716bdfc6  5、存出镜像和载入镜像  ###当需要把一台机器上的镜像迁移到另一台机器上的时候，需要将镜像保存成为本地文件，  这一过程叫做存出镜像， 可以使用 docker save 命令进行存出操作。 之后就可以拷贝该文件  到其他机器。  [root@localhost ~]# docker pull nickistre/centos-lamp  Using default tag: latest  latest: Pulling from nickistre/centos-lamp  f9f73d801f05: Pull complete  31a920671517: Pull complete  21c34a1a7bde: Pull complete  dc05bf237fc1: Pull complete  001edf96df50: Pull complete  273de3312284: Pull complete  09e0c479c5d6: Pull complete  3274b3252b64: Pull complete  8affd66070d7: Pull complete  b3d0f4e847ac: Pull complete  1b0c18851735: Pull complete  557b86c40b14: Pull complete  bdf3abef29b4: Pull complete  8fab0cd5d21a: Pull complete  4f198432c128: Pull complete  Digest: sha256:6012dff0d5f805342d65e8eb3cae4e83e75bce16980915b165ef55d64866e91d  Status: Downloaded newer image for nickistre/centos-lamp:latest  [root@localhost ~]# docker save -o lamp nickistre/centos-lamp  ###从文件 lamp 中载入镜像到本地镜像库中。  [root@localhost ~]# docker load <lamp  或者用  [root@localhost ~]# docker load -i lamp  [root@localhost ~]# docker images  REPOSITORY TAG IMAGE ID CREATED SIZE  nickistre/centos-lamp latest 0b8d572d1c7d 12 months ago 547MB |
| 1. 创建docker容器   [root@localhost ~]# docker create tangrf123/lamp:centos7    图5 创建容器   1. 启动docker容器   [root@localhost ~]# docker start b35f21244a4e  [root@localhost ~]# docker ps -a |grep b35f21244a4e  b35f21244a4e tangrf123/lamp:centos7 "supervisord -n" About a minute ago Up 32 seconds 22/tcp, 80/tcp, 443/tcp thirsty\_blackwell  ###或使用shell脚本同时创建并启动docker容器  [root@localhost ~]# docker run tangrf123/lamp:centos7 /bin/bash -c ls -l  bin  boot  dev  etc  home  lib  lib64  lost+found  media  mnt  opt  proc  root  sbin  selinux  srv  sys  tmp  usr  var  [root@localhost ~]# docker ps -a  CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  da42951c53e8 tangrf123/lamp:centos7 "/bin/bash -c ls -l" 19 seconds ago Exited (0) 17 seconds ago pedantic\_lewin  b35f21244a4e tangrf123/lamp:centos7 "supervisord -n" 13 minutes ago Up 12 minutes 22/tcp, 80/tcp, 443/tcp thirsty\_blackwell   1. 终止容器运行   [root@localhost ~]# docker ps -a  CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  397a88d8a7ae tang/lamp:centos7 "/bin/bash -c 'while…" About a minute ago Up About a minute 22/tcp, 80/tcp, 443/tcp friendly\_jang  [root@localhost ~]# docker stop 397a88d8a7ae  [root@localhost ~]# docker ps -a  CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  397a88d8a7ae tang/lamp:centos7 "/bin/bash -c 'while…" About a minute ago Exited (137) 12 seconds ago friendly\_jang  10、容器的进入  需要进入容器进行相应操作时， 可以使用 docker exec 命令进入运行着的容器。  [root@localhost ~]# docker ps -a  CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  b35f21244a4e tangrf123/lamp:centos7 "supervisord -n" 22 minutes ago |
| Up 20 minutes 22/tcp, 80/tcp, 443/tcp thirsty\_blackwell  [root@localhost ~]# docker exec -it b35f21244a4e /bin/bash  [root@b35f21244a4e /]# ls  bin dev home lib64 media opt root selinux supervisord.log sys usr  boot etc lib lost+found mnt proc sbin srv supervisord.pid tmp var  [root@b35f21244a4e /]# ifconfig  eth0 Link encap:Ethernet HWaddr 02:42:AC:11:00:02  inet addr:172.17.0.2 Bcast:172.17.255.255 Mask:255.255.0.0  UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  RX packets:24 errors:0 dropped:0 overruns:0 frame:0  TX packets:0 errors:0 dropped:0 overruns:0 carrier:0  collisions:0 txqueuelen:0  RX bytes:2650 (2.5 KiB) TX bytes:0 (0.0 b)  lo Link encap:Local Loopback  inet addr:127.0.0.1 Mask:255.0.0.0  UP LOOPBACK RUNNING MTU:65536 Metric:1  RX packets:0 errors:0 dropped:0 overruns:0 frame:0  TX packets:0 errors:0 dropped:0 overruns:0 carrier:0  collisions:0 txqueuelen:1000  RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)  [root@b35f21244a4e /]# exit  exit |