拉库发布指南

代码结构解读

代码编译

编译前置条件

容器: 10.125.224.174:8001/tafimage/wemap_image:v20190319165951822

各种lib: wemap_libs

代码目录: /data/database_server

编译流程

将 wemap_libs 解压到/data/wemap_libs目录下,代码解压到任意路径即可,执行makefile进行编译。

⚠注意: 10.125.224.174:8001/tafimage/wemap_image:v20190319165951822 docker中GLIBC 版本较低,且不支持c++11,如需c++11可自行选择容器,wemap_libs使用方法不变。

镜像制作

镜像制作基于当前线上镜像,替换bin目录下main文件,然后commit成新镜像

拉取线上镜像

线上镜像地址: http://csighub.oa.com/tencenthub/repo/detail/laku group/laku server/images

测试镜像地址: http://csighub.oa.com/tencenthub/repo/detail/laku_group/laku_server_test/image

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如果不能查看请联系: philbertliu, leanzhang

制作镜像

通过如下命令运行镜像,其中tag指线上的版本,测试镜像则运行 laku server test:tag

docker run -dit -v /data/wemap_libs:/data/wemap_libs/
csighub.tencentyun.com/laku group/laku server:tag /bin/bash

如下图:

[root@VM_115_124_centos ~]# docker run -dit -v /data/wemap_libs:/data/wemap_libs/ csighub.tencentyun.com/laku_group/laku_server:0506-mu ltilaku /bin/bash def448ee387edfb900172bb51b8a96928f7e13d8705e37e9927cbd6874191f5e

可通过 docker ps 查看目前运行的容器

[root@VM 115 124 centos ~]# docker ps				
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
PORTS	NAMES			
def448ee387e	csighub.tencentyun.com/laku_group/laku_server:0506-multilaku	"/bin/bash"	40 seconds ago	Up 39 secon
ds	xenodochial_jang			
987787d30004	e61	"/bin/bash"	21 hours ago	Up 21 hours
	pensive_hopper			
1cf9a781af09	csighub.tencentyun.com/admin/tlinux2.2-bridge-tcloud-underlay:latest	"/usr/sbin/initStart"	5 weeks ago	Up 5 weeks
	optimistic_northcutt			
e296a512a05d	64e	"bash"	6 weeks ago	Up 3 weeks
e296a512a05d	64e	"bash"	6 weeks ago	Up 3 weeks

def448....是我们的容器唯一ID,只要前缀唯一就可确定容器,如下我用def来确定刚启动的容器

替换main文件: docker cp PATH_TO_MAIN CONTAINER:PATH_TO_MAIN

[root@VM_115_124_centos ~/project/c++/laku_maindeal_code/LakuServer]# docker cp /root/project/c++/laku_maindeal_code/LakuServer/main def:/data/database_server/bin/main

进入镜像: docker exec -it def /bin/bash

tar-compile

[root@VM_115_124_centos ~]# docker exec -it def /bin/bash

[root@def448ee387e /]#

此时我们成功进入镜像

进入代码bin目录: cd /data/database_server/bin

比较md5和stat信息: 确认无误后exit容器

```
[root@VM_115_124_centos ~/project/c++/laku_maindeal_code/LakuServer]# md5sum main
ccf45934866fb735364a41a9418abf55 main
[root@vM_115_124_centos ~/project/c++/laku_maindeal_code/LakuServer]# stat main
 File: 'main'
 Size: 11885642
                      Blocks: 23216
                                        IO Block: 4096
                                                        regular file
                                      Links: 1
____root) Gid: ( 0/ root)
Device: fc01h/64513d Inode: 5141901
Access: (0.755/-rwxr-xr-x) Hid: (0.755/-rwxr-xr-x)
Access: 2020-04-22 10:30:55.000000000 +0800
Modify: 2020-04-22 10:30:55.000000000 +0800
Change: 2020-05-08 15:11:03.235348999 +0800
Birth: -
[root@VM_115_124_centos ~/project/c++/laku_maindeal_code/LakuServer]# docker exec -it def /bin/bash
[root@def448ee387e /]# cd /data/database_server/bin/
[root@def448ee387e /data/database_server/bin]# ls
backup_svr.py backuplog clean_disk.sh l5sys.so main main.sh stop.sh
[root@def448ee387e /data/database_server/bin]# md5sum main
ccf45934866fb735364a41a9418abf55 main
[root@def448ee387e /data/database_server/bin]# stat main
 File: 'main'
 Size: 11885642
                     Blocks: 23216
                                        IO Block: 4096
                                                        regular file
Access: 2020-04-22 10:30:55.000000000 +0800
Modify: 2020-04-22 10:30:55.000000000 +0800
Change: 2020-05-08 15:11:39.115348999 +0800
Birth: -
```

commit容器为镜像: docker commit CONTAINER [REPOSITORY[:TAG]]

[root@VM_115_124_centos ~/project/c++/laku_maindeal_code/LakuServer]# docker commit def csighub.tencentyun.com/laku_group/laku_server_test:test sha256:13498f1207813db3cf8fcb4141c80b7844fc5e381adede23c3ee792d9e75940a

查看镜像: docker images

```
csighub.tencentyun.com/laku_group/laku_server_test test 13498f120781 5 minutes ago 6.78GB
```

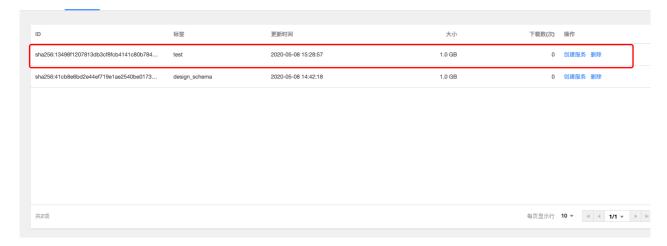
登陆csighub: docker login -uleanzhang csighub.tencentyun.com leanzhang换成自己的ID

```
[root@VM_115_124_centos ~/project/c++/laku_maindeal_code/LakuServer]# docker login -uleanzhang csighub.tencentyun.com
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store
Login Succeeded
```

push镜像到仓库: docker push NAME[:TAG]

```
[root@VM_115_124_centos ~/project/c++/laku_maindeal_code/LakuServer]# docker push csighub.tencentyun.com/laku_group/laku_server_test:test
The push refers to repository [csighub.tencentyun.com/laku_group/laku_server_test]
8ffd4e830354: Pushed
28056065017b: Mounted from laku_group/laku_server
f7fcd335a261: Layer already exists
7043cd9b8e95: Layer already exists
ac1749d3d1b9: Layer already exists
b03df13f47cc: Layer already exists
fa23ce176954: Layer already exists
2563feaab189: Layer already exists
641ba5f3772e: Layer already exists
db13750e1b12: Layer already exists
d9061e5b9ec5: Layer already exists
7be7ce685941: Laver already exists
983de30476aa: Layer already exists
05d38b44fedd: Layer already exists
4a1e23f15ac4: Layer already exists
d5bcaa39b0d4: Laver already exists
45067e6c7428: Layer already exists
3a8767ee1d4d: Layer already exists
b430d9e41796: Layer already exists
348b7164a660: Layer already exists
0879bfdb64aa: Layer already exists
```

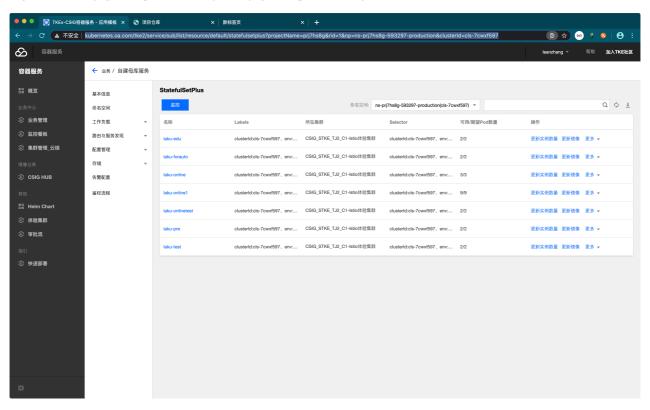
去仓库查看: http://csighub.oa.com/tencenthub/repo/detail/laku_group/laku_server_test/images



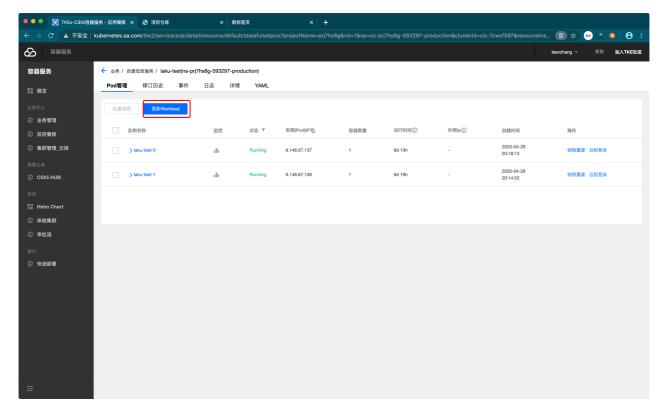
镜像制作完毕!

发布镜像

前往项目地址: http://kubernetes.oa.com/tke2/service/sub/list/resource/default/statefulsetplus?p rojectName=prj7hs8g&rid=1&np=ns-prj7hs8g-593297-production&clusterId=cls-7cwxf597



选择对应环境: 这里test举例



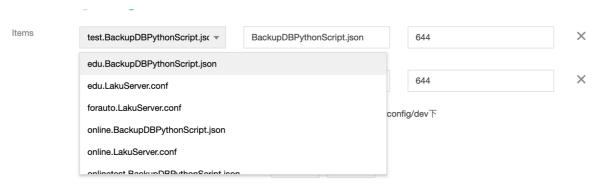
选择更新方式:



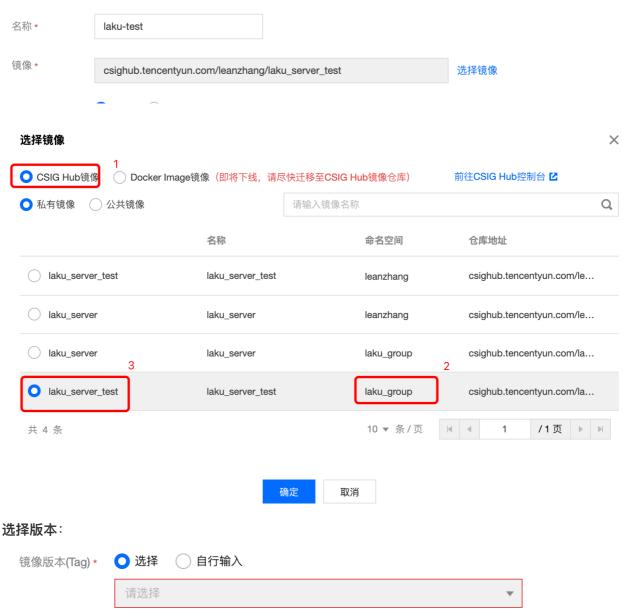
选择配置:



这里有个小bug要所有的框全部重新填写一下,第一栏选配置,第二栏填写挂载到容器的名称,第三行 为权限



选择刚上传镜像:

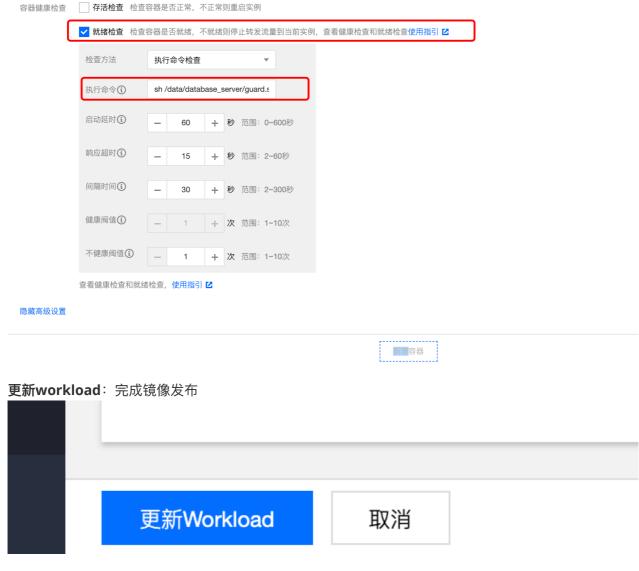




设定健康检查脚本: 执行命令选择自己的脚本, 脚本返回0位健康, 非0为异常会触发报警

快速升级

显示高级设置



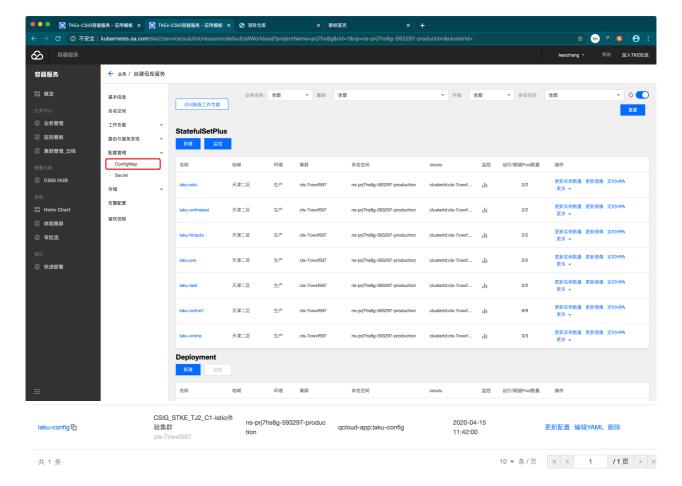
stke相关问题

配置挂载

看我们的main.sh文件可知,我们的配置文件是从/etc/laku_config拷贝过来的,为什么没有直接挂载到/data/database_server/config目录下是因为stke的挂载是全路径覆盖形式的,也就是说我们挂载到/data/database_server/config下面的话会导致/data/database_server下面只有config,其他的文件被清理。

配置更新

按照stke标准我们的配置全部放在项目的ConfigMap中,如需更新从更新配置入口进入,编辑yaml不是一个很好的选择,一个标点出错会导致整个配置不可用。现在ConfigMap的配置支持热加载,对应容器内进程重启即可



开机自启动脚本

项目初始镜像选择 csighub.tencentyun.com/admin/tlinux2.2-bridge-tcloud-underlay:latest 所有的自启动脚本放在 /etc/kickStart.d 下面即可

由于该镜像自带了很多工具,所以也会产生比较多的进程,不过对整体影响不大