Push the Docker image to GitHub Container Registry

Steps:

4.

6.

- 1. Create a github repo
- 2. Clone it
- 3. Create a shell script file

```
entrypoint.sh

1 #!/bin/bash

2 echo "Hello World!"
```

5. Create a docker file for image building

```
Dockerfile > ...
1  FROM alpine
2  RUN apk add --no-cache bash
3  WORKDIR /app
4  COPY entrypoint.sh .
5  RUN chmod +x entrypoint.sh
6  ENTRYPOINT [ "/app/entrypoint.sh" ]
```

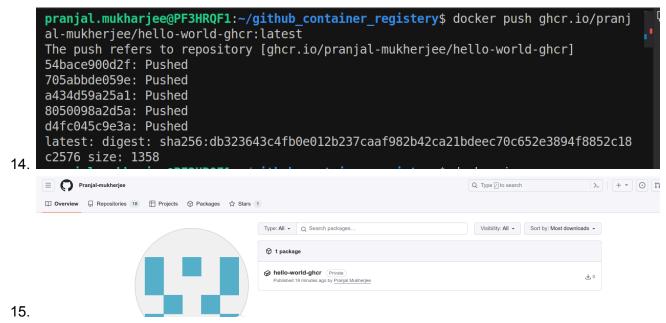
7. Login to Github container registry to push ur image

```
pranjal.mukharjee@PF3HRQF1:~/github_container_registery$ docker login --username P
ranjal-mukherjee --password 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 ghcr.io
```

- 9. If we do not mention ghcr.io then it will login to docker container register(docker hub)
- 10. Build you image using the registry name / author name / image name:tag

```
pranjal.mukharjee@PF3HRQF1:~/github_container_registery$ docker build -t ghcr.io/p
ranjal-mukherjee/hello-world-ghcr:latest .
```

- 12. Author name should be in lowercase
- 13. Push the image to github container registry

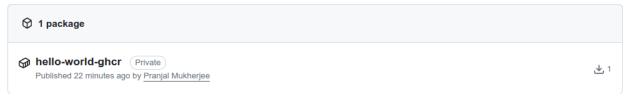


16. Now remove the images from ur local and pull them from github

```
pranjal.mukharjee@PF3HRQF1:~/github container registery$ docker rmi 17b --force
    Untagged: ghcr.io/pranjal-mukherjee/hello-world-ghcr:latest
    Untagged: ghcr.io/pranjal-mukherjee/hello-world-ghcr@sha256:db323643c4fb0e012b237c
    aaf982b42ca21bdeec70c652e3894f8852c18c2576
    Deleted: sha256:17b4310c1aaf596fc3d5e55c6e665a3f25815c97d3865f4ca1324ab7678b71d4
    Deleted: sha256:55a2fec9e91b58e642239e13f9260d888a05ddfaf7707c43a941b68d9df023c1
    Deleted: sha256:7f2bdf2edf79c11f264ba0650473be6be4d79fbff5d436ac5a9a6600f3780a7f
    Deleted: sha256:1863c8ce63ade455049c69f283ae4c4fd27b1274da8b071b7468053c03836153
    Deleted: sha256:a80700a562fba9c9745a5a9a24c2fb02224014d2d5c64b52b12534eef0b188bd
    Deleted: sha256:74894c778399f13395a270718c8f63cf8762bb2b722c1f3240d9746d9591ac5b
    Deleted: sha256:b7e145a4739562e251164be2ce40490375b16929a8b16596c2f72859a14e0f3c
    Deleted: sha256:cd586024d33fd45c404e314b80ebcd6d32ab92ab8a2bbe5203075d9100888780
    Deleted: sha256:772452eeefbbb04b28a58a1d3890e09e0cc32edc0975aae4c1ff834c147091b4
    pranjal.mukharjee@PF3HRQF1:~/github container registery$ docker container ls
                            COMMAND CREATED STATUS
    CONTAINER ID
                   IMAGE
                                                          PORTS
    pranjal.mukharjee@PF3HRQF1:~/github container registery$ docker container ls -a
17. CONTAINER ID TMAGE
                                COMMAND
```

```
pranjal.mukharjee@PF3HRQF1:~/github_container_registery$ docker run ghcr.io/pranj
al-mukherjee/hello-world-ghcr:latest
Unable to find image 'ghcr.io/pranjal-mukherjee/hello-world-ghcr:latest' locally
latest: Pulling from pranjal-mukherjee/hello-world-ghcr
4abcf2066143: Already exists
21c079a77f65: Pull complete
92d00488a6d6: Pull complete
eeb358a3a922: Pull complete
a6643b565743: Pull complete
Digest: sha256:db323643c4fb0e012b237caaf982b42ca21bdeec70c652e3894f8852c18c2576
Status: Downloaded newer image for ghcr.io/pranjal-mukherjee/hello-world-ghcr:late
st
Hello World!
pranjal.mukharjee@PF3HRQF1:~/github_container_registery$
```

19. Now package has been downloaded for the first time



21. To ensure that we are downloading the correct image we can use the digest key also after the image name like this

22.

20.

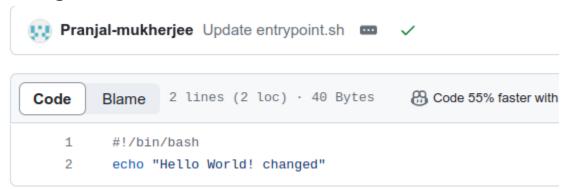
```
23. docker pull
ghcr.io/NAMESPACE/IMAGE_NAME@sha256:82jf9a84u29hiasldj289498
uhois8498hjs29hkuhs
```

24. Writing a github actions yml file so that whenever the code for package is changes , new build is triggered

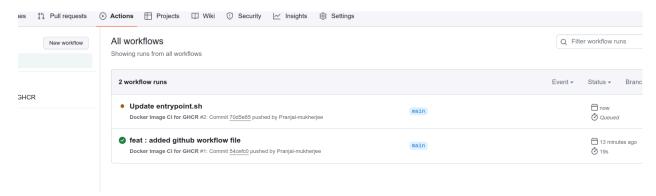
uses: source code of repo is pulled into the actions runner

Now if we change anything in source code and commit the action will trigger everytime and new image will be built for that and will publish in github container automatically

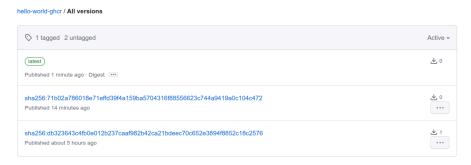
Changes



Workflow triggering again



New version came



Now again I ran docker run command to see the changes

```
pranjal.mukharjee@PF3HRQF1:~/github_container_registery$ docker run ghcr.io/pranjal-mu
kherjee/hello-world-ghcr:latest
Unable to find image 'ghcr.io/pranjal-mukherjee/hello-world-ghcr:latest' locally
latest: Pulling from pranjal-mukherjee/hello-world-ghcr
4abcf2066143: Already exists
7455d70e98ab: Pull complete
537dd265dccc: Pull complete
868d4d63714a: Pull complete
02ff15a1340b: Pull complete
Digest: sha256:c380c73a3104421e8404bbe31c696d7a04dc5319e3f5bd2a956a70422c41524a
Status: Downloaded newer image for ghcr.io/pranjal-mukherjee/hello-world-ghcr:latest
Hello World! changed
```