Exercise 6

<u>Understanding Registry Servers</u>

Q1.
Inspect the information regarding an image "docker.io/rapidfort/haproxy-official" without actually pulling the image.

Q2.
Inspect the information regarding an image "quay.io/startx/mariadb" without actually pulling the image.

Q3.
Create an account on "hub.docker.com"
Create an account on "redhat.com" (if you don't already have it)
Create an account on "quay.io" (Red Hat is necessary for this)

Login to all these registry servers using Podman:
 - docker.io
 - registry.access.redhat.com
 - quay.io

Q4.
Pull any image from any registry server of your choice.
Retag the image to "my-project:1.0" (make sure to tag it properly)
Push this image to your Docker account.
Go the hub.docker.io to verify that the upload is successful.

Q5.
Pull any image from any registry server of your choice.
Retag the image to "image-new:master" (make sure to tag it properly)
Push this image to your Quay account and verify that the upload is successful.

Solutions

Q1.

```
[root@localhost ~]# skopeo inspect docker://docker.io/rapidfort/haproxy-official
{
    "Name": "docker.io/rapidfort/haproxy-official",
    "Digest": "sha256:3aad05ebaa4da0b7908b94466a2f26efe2b64100318360ac4c3883f685dbf5b5",
    "RepoTags": [
        "2.2-bullseye",
        "2.2.25-bullseye",
        "2.2.26-bullseye",
        "2.2.27-bullseye",
        "2.2.28-bullseye",
        "2.2.28-bullseye-rfstub",
        "2.2.29-bullseye",
        "2.2.30-bullseye",
        "2.2.31-bullseye",
        "2.4-bullseye",
        "2.4.19-bullseye",
        "2.4.20-bullseye",
        "2.4.21-bullseye",
        "2.4.21-bullseye-rfstub",
        "2.4.22-bullseye",
        "2.4.23-bullseye",
        "2.4.24-bullseye",
        "2.5-bullseye",
        "2.5.10-bullseye",
        "2.5.11-bullseye",
        "2.5.11-bullseye-rfstub",
```

Q2.

```
[root@localhost ~]# skopeo inspect docker://quay.io/startx/mariadb
{
    "Name": "quay.io/startx/mariadb",
    "Digest": "sha256:f45209ea0eaa2544c4f5b784534686a17e99174207b7489543186c4b0fb34a00",
    "RepoTags": [
        "fc30",
        "fc31",
        "fc29",
        "fc28",
        "fc27",
        "startx",
        "fc32",
        "centos6",
        "sha256-ba47f7e30bdfc2ff33f2dab2c76fb9272953e1450eda74b776820bcce6b43d08.sig",
        "sha256-809793e48cb44ae9fac2626e231ae22c03d49bfbe8c4e0794e6bfe2b9009617f.sig",
        "sha256-1e3ba1b7412ad553e5fc54b2d19314ba23fbbbabd7122c7ae64a7d30069f05e8.sig",
        "sha256-13b6d310446b984bab8e4fdbfb8c1ac8fc14cb58d8dfd27f00c7cad1f5705694.sig",
        "sha256-f9c1ad05aac651d6eef2d900b557e875dd3d7f3cfc3cce7e93035955093b5194.sig",
        "sha256-f22d08caf21a612b25577eeeb437518589d263c7c15a8008e9c19137b2814392.sig",
        "sha256-d06b84dd07b9dce52b73794e5406ccb7c7209e7135e468dc3c38786e3a935ac9.sig",
        "sha256-760b93878f5b774c5ee7aa55fe9c4f5e1cd211404206437d24386192093e3790.sig",
        "sha256-51acc8717a9ef942cb17e1b5088e9388b10ba1422f6b6b73c61e83800ed5b63c.sig",
        "sha256-5c29df302105b8ea0a06e3ce9e0f6c5bb545ce835322c9a8895654c125e16b96.sig",
        "sha256-34604748ab52535a30a91918eff2556958fd526485211363855f57221bd5659e.sig",
        "sha256-fc2f44e7e2c4fc07279d286883a7b4f192be06e0ea8501df7b40c1ff5cd4945d.sig",
        "sha256-ee404e709cceb7a72c2169d11947bc4c5ec62206125be46b31bca8928494eca2.sig",
```

Q3.

hub.docker.com/signup

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docker

Create your account

Signing up for Docker is fast and free.

Email

Username

Password

☐ Send me occasional product updates and announcements.

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Sign up

By creating an account I agree to the Subscription Service Agreement, Privacy Policy, Data Processing Terms.

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sso.redhat.com/auth/realms/redhat-external/login-actions/registration?client_id=https%3A%2F%2Fwww.redhat.com%2Fwapps%2Fugc-oidc&tab_id=BUg7s91Hkn4

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* All fields required

Login information

Choose a Red Hat login *

Your login is a user ID for accessing your account across all Red Hat sites. It must be at least 5 characters and **cannot be changed once created.**

docker

Q4.

```
[root@localhost ~]# podman pull docker.io/httpd
Trying to pull docker.io/library/httpd:latest...
Getting image source signatures
Copying blob 053327351b4a done
Copying blob ce95f18e49ae done
Copying blob de42e9dfbbe1 done
Copying blob 9d28e265584b done
Copying blob a803e7c4b030 done
Copying config 359570977a done
Writing manifest to image destination
Storing signatures
359570977af25b6ec87f2e0ee1e103e3826bade6175784cf98b04337278b1006
[root@localhost ~]# podman tag docker.io/library/httpd:latest docker.io/dtg2468/my-project:1.0
[root@localhost ~]# podman login docker.io
Username: dtg2468
Password:
Login Succeeded!
[root@localhost ~]# podman push docker.io/dtg2468/my-project:1.0
Getting image source signatures
Copying blob 9d28e265584b skipped: already exists
Copying blob 053327351b4a skipped: already exists
Copying blob a803e7c4b030 skipped: already exists
Copying blob ce95f18e49ae skipped: already exists
Copying blob de42e9dfbbe1 skipped: already exists
Copying config 359570977a done
Writing manifest to image destination
Storing signatures
[root@localhost ~]#
```
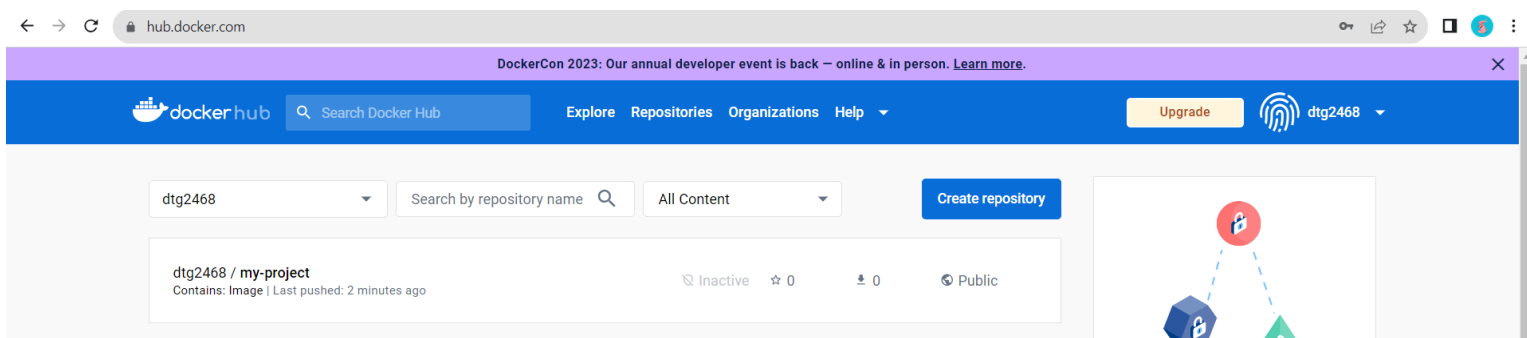
Q5.

```
[root@localhost ~]# podman login quay.io
Authenticating with existing credentials for quay.io
Existing credentials are invalid, please enter valid username and password
Username (dtg2468):
Password:
Login Succeeded!
[root@localhost ~]# podman pull quay.io/centos/centos
Trying to pull quay.io/centos/centos:latest...
Getting image source signatures
Copying blob 7a0437f04f83 skipped: already exists
Copying config 300e315adb done
Writing manifest to image destination
Storing signatures
300e315adb2f96afe5f0b2780b87f28ae95231fe3bdd1e16b9ba606307728f55
[root@localhost ~]# podman tag quay.io/centos/centos:latest quay.io/dtg2468/image-new:master
[root@localhost ~]# podman push quay.io/dtg2468/image-new:master
Getting image source signatures
Copying blob 7a0437f04f83 skipped: already exists
Copying config 300e315adb done
Writing manifest to image destination
Storing signatures
[root@localhost ~]#
```

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Repositories

➕ Create New Repository

1 - 5 of 5   ‹ ›   Filter Repositories...

REPOSITORY NAME	LAST MODIFIED	ACTIVITY ↓	STAR
D dtg2468 / do180-custom-httpd	08/20/2022	📊	☆
D dtg2468 / new	08/23/2022	📊	☆
D dtg2468 / myhttpd	08/24/2022	📊	☆
D dtg2468 / my_nginx	09/13/2023	📊	☆
D dtg2468 / image-new	Today at 1:21 PM	📊	☆

Users and Organizations

D dtg2468

➕ Create New Organization