



ROITRAINING
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Cheat Sheet: Container Registry

Using a Container Registry

- In the GCP console, go to **Container Registry**
 - Enable the API if needed
- Click on **Settings** on left
 - Enable Vulnerability Scanning
- In Cloud Shell
 - From external folder, run the following command:

```
gcloud builds submit --tag gcr.io/$GOOGLE_CLOUD_PROJECT/external-image:v1.0.0 .
```

- Type Y if asked to enable API

- From internal folder, run the following command

```
gcloud builds submit --tag gcr.io/$GOOGLE_CLOUD_PROJECT/internal-image:v1.0.0 .
```

Investigate Vulnerability Scanning

- In the GCP console, go to **Container Registry**
 - Locate your containers
 - Click on a container image and investigate the vulnerability scanner findings
 - If the scanner is not done, check back in a few minutes

Remove all Local Containers and Images

- If you have any previous containers running you will need to stop them
 - Or you will get a port number already in use error
- Below are a few commands to help you stop any containers:
 - List all docker processes with: **docker ps -a**
 - Stop and remove all docker processes
docker stop <container_id>
docker rm <container_id>
 - List and delete all the local docker images
docker images
docker rmi <image-id>

Running the Containers from the Registry

- In CloudShell run the case study directly from the container registry
 - Refer back to the last activity for the docker run commands
 - Use the URL to the image in the registry for the image names
 - For example, your run commands will look similar to:

```
docker run -d -p 8082:8082 gcr.io/$GOOGLE_CLOUD_PROJECT/internal-image:v1.0.0
```

```
docker run -d -p 8080:8080 -e SERVER='http://localhost:8082' --network="host"  
gcr.io/$GOOGLE_CLOUD_PROJECT/external-image:v1.0.0
```

Optional - Using a Container Registry (Docker Hub)

- Go to Docker Hub (<https://hub.docker.com>)
 - Create an account
- Rebuild your Docker images using your Docker ID
 - From external folder
 - `docker build -t your-docker-hub-id/external:v1.0 .`
 - From internal folder
 - `docker build -t your-docker-hub-id/internal:v1.0 .`
- In Cloud Shell
 - `docker login`
 - `docker push your-docker-hub-id/internal:v1.0`
 - `docker push your-docker-hub-id/external:v1.0`