Renan Yoshida Avelan
101536279

```
→ lab11-Docker docker build --tag=hellodocker .
[+] Building 6.9s (9/9) FINISHED                                                                                                          docker:default
 => [internal] load build definition from Dockerfile                                                                                                0.0s
 => => transferring dockerfile: 545B                                                                                                                 0.0s
 => [internal] load metadata for docker.io/library/python:2.7-slim                                                                                  0.5s
 => [internal] load .dockerignore                                                                                                                    0.0s
 => => transferring context: 2B                                                                                                                      0.0s
 => [1/4] FROM docker.io/library/python:2.7-slim@sha256:6c1ffdff499e29ea663e6e67c9b6b9a3b401d554d2c9f061f9a45344e3992363                             2.8s
 => => resolve docker.io/library/python:2.7-slim@sha256:6c1ffdff499e29ea663e6e67c9b6b9a3b401d554d2c9f061f9a45344e3992363                             0.0s
 => => sha256:6c1ffdff499e29ea663e6e67c9b6b9a3b401d554d2c9f061f9a45344e3992363 1.86kB / 1.86kB                                                       0.0s
 => => sha256:b68d40df862ac07e8955ea0fc0c5454cb4245b6165e79bc8ea2cc69170d9ba62 1.16kB / 1.16kB                                                       0.0s
 => => sha256:eeb27ee6b89303f04a917e457eda70d032b1574ec80d0b4ea410d478a714538f 7.95kB / 7.95kB                                                       0.0s
 => => sha256:123275d6e508d282237a22fefa5aef822b719a06496444ea89efa65da523fc4b 27.10MB / 27.10MB                                                     0.9s
 => => sha256:dd1cd66375238ded36eeaea07567a1997f7fd76611a517119ec39fee9b9e887f 2.75MB / 2.75MB                                                       0.3s
 => => sha256:0c4e6d630f2cb5403efb04352c40ed72f1884355253a0cc15486c4e6ca998111 19.66MB / 19.66MB                                                     0.5s
 => => sha256:13e9cd8f0ea14403e44c745ea5212658b6600021f6beb6fc484f2570db89b143 2.18MB / 2.18MB                                                       0.6s
 => => extracting sha256:123275d6e508d282237a22fefa5aef822b719a06496444ea89efa65da523fc4b                                                            0.9s
 => => extracting sha256:dd1cd66375238ded36eeaea07567a1997f7fd76611a517119ec39fee9b9e887f                                                            0.1s
 => => extracting sha256:0c4e6d630f2cb5403efb04352c40ed72f1884355253a0cc15486c4e6ca998111                                                            0.5s
 => => extracting sha256:13e9cd8f0ea14403e44c745ea5212658b6600021f6beb6fc484f2570db89b143                                                            0.1s
 => [internal] load build context                                                                                                                   0.0s
 => => transferring context: 1.53kB                                                                                                                  0.0s
 => [2/4] WORKDIR /app                                                                                                                               0.6s
 => [3/4] COPY . /app                                                                                                                                0.1s
 => [4/4] RUN pip install --trusted-host pypi.python.org -r requirements.txt                                                                         2.6s
 => exporting to image                                                                                                                               0.1s
 => => exporting layers                                                                                                                              0.1s
 => => writing image sha256:a567b2b9c92eb4bf5dce1f6e086084ed51197de37f2c5918334874cb7c01e2bf                                                         0.0s
 => => naming to docker.io/library/hellodocker                                                                                                       0.0s

1 warning found (use docker --debug to expand):
- LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 12)
→ lab11-Docker docker images
```

IMAGE	ID	DISK USAGE	CONTENT SIZE	EXTRA
api-gateway:latest	f648bb4c2972	483MB	0B	U
comp3095-student_wellness_hub-event-service:latest	c26d407bfd35	319MB	0B	
comp3095-student_wellness_hub-goal-tracking-service:latest	ff668f2888af	303MB	0B	
comp3095-student_wellness_hub-wellness-resource-service:latest	60bc32b6937f	335MB	0B	
dpage/pgadmin4:latest	ca58f4842a04	532MB	0B	U
gcr.io/k8s-minikube/kicbase:v0.0.48	c6b5532e987b	1.31GB	0B	U
hello-world:latest	1b44b5a3e06a	10.1kB	0B	U
hellodocker:latest	a567b2b9c92e	159MB	0B	
inventory-service:latest	01e7d55a01e1	504MB	0B	U
mongo-express:latest	870141b735e7	182MB	0B	U
mongo:5.0	beb911888cf2	748MB	0B	
mongo:7	ad5e46b29e1a	834MB	0B	
mongo:latest	eff94de2e019	909MB	0B	U
nutrition_tracker-web:latest	040cf5f1a455	539MB	0B	U
order-service:latest	92932cada496	418MB	0B	U
postgres:16	4d79c308564d	451MB	0B	
postgres:16-alpine	24a90047f2d2	275MB	0B	U
postgres:latest	194f5f2a900a	456MB	0B	U
product-service:1.0	c34559ae032e	355MB	0B	
product-service:latest	5554f6f177a0	367MB	0B	U
redis:7	bdb47db47a6a	117MB	0B	
redis:7.4.3	ce466e2d8c6f	117MB	0B	
redis:latest	017b1c12abf9	137MB	0B	U
redislabs/redisinsight:1.14.0	64a3d4d7e868	1.26GB	0B	U
testcontainers/ryuk:0.12.0	a926383422af	15.8MB	0B	

🔵 Info → 🔵 U In Use
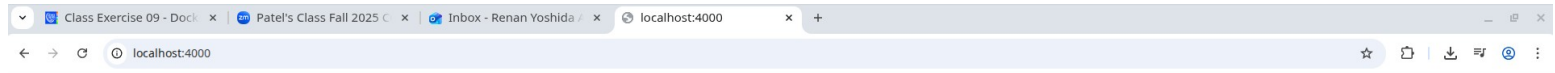
Hello World!

Hostname: 76be403ad3bd
Visits: *cannot connect to Redis, counter disabled*

```
→ lab11-Docker
→ lab11-Docker
→ lab11-Docker docker run -p 4000:80 hellodocker

 * Serving Flask app "app" (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: off
 * Running on http://0.0.0.0:80/ (Press CTRL+C to quit)
172.17.0.1 - - [14/Nov/2025 23:53:04] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [14/Nov/2025 23:53:04] "GET /favicon.ico HTTP/1.1" 404 -
```

Hello Renan!

Hostname: 8c46b34f41db
Visits: *cannot connect to Redis, counter disabled*

```
1/1   +   Tilix: docker run -p 4000:80 hellodocker

=> => transferring context: 2B                                                           0.0s
=> [1/4] FROM docker.io/library/python:2.7-slim@sha256:6c1ffdff499e29ea663e6e67c9b6b9a3b401d554d2c9f061f9a45344e  0.0s
=> [internal] load build context                                                         0.0s
=> => transferring context: 635B                                                         0.0s
=> CACHED [2/4] WORKDIR /app                                                              0.0s
=> [3/4] COPY . /app                                                                      0.6s
=> [4/4] RUN pip install --trusted-host pypi.python.org -r requirements.txt              3.6s
=> exporting to image                                                                     0.1s
=> => exporting layers                                                                    0.1s
=> => writing image sha256:6c11eb30a2f41bdd715c6f28d660f04f54b739d643f80b631d524d91a3901451  0.0s
=> => naming to docker.io/library/hellodocker                                             0.0s

1 warning found (use docker --debug to expand):
- LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 12)
→ lab11-Docker docker run -p 4000:80 hellodocker

* Serving Flask app "app" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on http://0.0.0.0:80/ (Press CTRL+C to quit)
172.17.0.1 - - [14/Nov/2025 23:55:57] "GET / HTTP/1.1" 200 -
```

```
1/1   +                     Tilix: user@user-Aspire-A515-45:~/Desktop/week11_devops_lab/DevOps_Kubernetes_exercise9-main

→ DevOps_Kubernetes_exercise9-main kubectl rollout status deployment/nginx          → DevOps_Kubernetes_exercise9-main kubectl get svc nginx-nodeport
deployment "nginx" successfully rolled out                                          NAME            TYPE       CLUSTER-IP      EXTERNAL-IP   PORT(S)        AGE
→ DevOps_Kubernetes_exercise9-main kubectl get pods -l app=nginx -o wide            nginx-nodeport  NodePort   10.105.246.171  <none>        80:30080/TCP   9m26s
NAME                   READY   STATUS    RESTARTS   AGE   IP            NODE       NOMINATED NODE   READINESS GATES   → DevOps_Kubernetes_exercise9-main
nginx-86d96fd495-2d4hs   1/1   Running   0          20m   10.244.0.8    minikube   <none>           <none>
nginx-86d96fd495-4f7fq   1/1   Running   0          20m   10.244.0.10   minikube   <none>           <none>
nginx-86d96fd495-m2rbw   1/1   Running   0          20m   10.244.0.9    minikube   <none>           <none>
→ DevOps_Kubernetes_exercise9-main kubectl get svc nginx-nodeport
NAME            TYPE       CLUSTER-IP      EXTERNAL-IP   PORT(S)        AGE
nginx-nodeport  NodePort   10.105.246.171  <none>        80:30080/TCP   6m28s
→ DevOps_Kubernetes_exercise9-main docker context use default
default
Current context is now "default"
→ DevOps_Kubernetes_exercise9-main minikube service nginx-nodeport --url

http://192.168.49.2:30080
→ DevOps_Kubernetes_exercise9-main curl http://$\(minikube ip):30080
zsh: parse error near `)'
→ DevOps_Kubernetes_exercise9-main curl http://$(minikube ip):30080

<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>

<p><em>Thank you for using nginx.</em></p>
</body>
</html>
→ DevOps_Kubernetes_exercise9-main minikube dashboard --url
  Verifying dashboard health ...
  Launching proxy ...
  Verifying proxy health ...
http://127.0.0.1:36259/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/
^C
→ DevOps_Kubernetes_exercise9-main minikube dashboard --url
  Verifying dashboard health ...
  Launching proxy ...
  Verifying proxy health ...
http://127.0.0.1:36849/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/
```

Class Exercise 09 - Dock   Inbox - Renan Yoshida   Kubernetes Dashboard   +

127.0.0.1:36849/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/#/workloads?namespace=default

kubernetes   default   Search   +

☰ Workloads

Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets

Service
Ingresses (N)
Ingress Classes
Services (N)

Config and Storage
Config Maps (N)
Persistent Volume Claims (N)
Secrets (N)
Storage Classes

Cluster
Cluster Role Bindings
Cluster Roles

Running: 1 ———   Running: 3 ———   Running: 1 ———

Deployments   Pods   Replica Sets

Deployments

	Name	Images	Labels	Pods	Created ↑	
●	nginx	nginx:1.25-alpine	-	3 / 3	22 minutes ago	⋮

Pods

	Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created ↑	
●	nginx-86d96fd495-2d4hs	nginx:1.25-alpine	app: nginx / pod-template-hash: 86d96fd495	minikube	Running	0	-	-	22 minutes ago	⋮
●	nginx-86d96fd495-4f7fq	nginx:1.25-alpine	app: nginx / pod-template-hash: 86d96fd495	minikube	Running	0	-	-	22 minutes ago	⋮
●	nginx-86d96fd495-m2rbw	nginx:1.25-alpine	app: nginx / pod-template-hash: 86d96fd495	minikube	Running	0	-	-	22 minutes ago	⋮

Replica Sets

	Name	Images	Labels	Pods	Created ↑	
●	nginx-86d96fd495	nginx:1.25-alpine	app: nginx pod-template-hash: 86d96fd495	3 / 3	22 minutes ago	⋮

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

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Commercial support is available at nginx.com.

Thank you for using nginx.