

Build a Website on Google Cloud: Challenge Lab

GSP319



Introduction

In a challenge lab you're given a scenario and a set of tasks. Instead of following step-by-step instructions, you will use the skills learned from the labs in the course to figure out how to complete the tasks on your own! An automated scoring system (shown on this page) will provide feedback on whether you have completed your tasks correctly.

When you take a challenge lab, you will not be taught new Google Cloud concepts. You are expected to extend your learned skills, like changing default values and reading and researching error messages to fix your own mistakes.

To score 100% you must successfully complete all tasks within the time period!

This lab is recommended for students who have enrolled in the [Build a Website on Google Cloud](#) quest. Are you ready for the challenge?

01:26:29

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[Open Google Cloud console](#)

Username

student-01-3ec6a77d7c



Password

FJPyDlwN1JZx



Project ID

qwiklabs-gcp-04-3373b



Lab Zone

us-east1-c



Monolith Identifier

fancy-monolith-795



Task 1. Download the monolith code and build your container

1. Log in to your new project and open up Cloud Shell.
2. First things first, you'll need to [clone your team's git repo](#). There's a `setup.sh` script in the root directory of the project that you'll need to run to get your monolith container built up.
3. After running the `setup.sh` script, ensure your Cloud Shell is running its latest version of nodeJS:

```
nvm install --lts
```

There will be a few different projects that can be built and pushed.

4. Push the monolith build (conveniently located in the `monolith` directory) up to the Artifact Registry. There's a Dockerfile located in the `~/monolith-to-microservices/monolith` folder which you can use to build the application container.

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Password: FJPyD1wN1JZx

Project ID: qwiklabs-gcp-04-3373b

Lab Zone: us-east1-c

Monolith Identifier: fancy-monolith-795

the Artifact Registry. There's a Dockerfile located in the `~/monolith-to-microservices/monolith` folder which you can use to build the application container.

5. You will have to run Cloud Build (in that monolith folder) to build it, then push it up to Artifact Registry.

6. Name your artifact as follows:

- Repo: `gcr.io/${GOOGLE_CLOUD_PROJECT}`
- Image name: `fancy-monolith-795`
- Image version: 1.0.0

Hint:

Make sure that you submit a build named `fancy-monolith-795` with a version of "1.0.0".

Click *Check my progress* to verify the objective.

Download the monolith code and build your container

Check my progress

Assessment Completed!

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https://console.cloud.google.com/home/dashboard?project=qwiklabs-gcp-04-3373bd5bb12a&pli=1&cloudshell=true

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CLOUD SHELL Terminal (qwiklabs-gcp-04-3373bd5bb12a) X + Open Editor

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

Welcome to Cloud Shell! Type "help" to get started, or type "gemini" to try prompting with Gemini CLI.
Your Cloud Platform project in this session is set to **qwiklabs-gcp-04-3373bd5bb12a**.
Use `gcloud config set project [PROJECT_ID]` to change to a different project.

```
student_01_3ec6a77d7cc4@cloudshell:~ (qwiklabs-gcp-04-3373bd5bb12a)$ git clone https://github.com/gугglecodeлabs/monolith-to-microservices.git cd ~/monolith-to-microservices ./setup.sh cd ~/monolith-to-microservices/monolith npm start gcloud services enable cloudbuild.googleapis.com gcloud builds submit --tag gcr.io/${GOOGLE_CLOUD_PROJECT}/fancy-monolith-795:1.0.0 .
fatal: Too many arguments.

usage: git clone [<options>] [--] <repo> [<dir>]

-v, --[no-]verbose      be more verbose
-q, --[no-]quiet        be more quiet
--[no-]progress         force progress reporting
--[no-]reject-shallow   don't clone shallow repository
-n, --no-checkout       don't create a checkout
--checkout              opposite of --no-checkout
--[no-]bare              create a bare repository
--[no-]mirror            create a mirror repository (implies bare)
-l, --[no-]local         to clone from a local repository
--no-hardlinks          don't use local hardlinks, always copy
--hardlinks              opposite of --no-hardlinks
-s, --[no-]shared        setup as shared repository
--[no-]recurse-submodules[=<pathspec>]
                      initialize submodules in the clone
--[no-]recursive ...    alias of --reurse-submodules
-j, --[no-]jobs <n>     number of submodules cloned in parallel
--[no-]template <template-directory>
                      directory from which templates will be used
--[no-]reference <repo>
                      reference repository
--[no-]reference-if-able <repo>
                      reference repository
--[no-]dissociate       use --reference only while cloning
-o, --[no-]origin <name>
                      use <name> instead of 'origin' to track upstream
-b, --[no-]branch <branch>
student_01_3ec6a77d7cc4@cloudshell:~ (qwiklabs-gcp-04-3373bd5bb12a)$ git clone https://github.com/gугglecodeлabs/monolith-to-microservices.git
```

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Dashboard – qwiklabs-gcp-04-3 +

https://console.cloud.google.com/home/dashboard?project=qwiklabs-gcp-04-3373bd5bb12a&pli=1&cloudshell=true

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Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

42c19088ad00: Preparing
15105a698caa: Preparing
3b0a7b2c467a: Preparing
48b6be82c49c: Preparing
be322b479aee: Preparing
d41bcd3a037b: Preparing
fe0d845e767b: Preparing
f25ec1d93a58: Preparing
794ce8b1b516: Preparing
3220beed9b06: Preparing
684f82921421: Preparing
9af5f53e8f62: Preparing
684f82921421: Waiting
9af5f53e8f62: Waiting
3220beed9b06: Layer already exists
be322b479aee: Layer already exists
fe0d845e767b: Layer already exists
f25ec1d93a58: Layer already exists
d41bcd3a037b: Layer already exists
794ce8b1b516: Layer already exists
48b6be82c49c: Pushed
3b0a7b2c467a: Pushed
42c19088ad00: Pushed
9af5f53e8f62: Layer already exists
684f82921421: Layer already exists
15105a698caa: Pushed
1.0.0: digest: sha256:8d2862607eab68159bb712d8b64e3526d7b5560d2192477ba1aad28d7bf61733 size: 2841
DONE

ID: 8192142f-3f1f-40d8-958f-62a02fe51902
CREATE_TIME: 2025-11-27T15:26:02+00:00
DURATION: 50s
SOURCE: gs://qwiklabs-gcp-04-3373bd5bb12a_cloudbuild/source/1764257157.963682-7700fb23122e401fb989b2027687a1d0.tgz
IMAGES: gcr.io/qwiklabs-gcp-04-3373bd5bb12a/fancy-monolith-795:1.0.0
STATUS: SUCCESS
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/monolith (qwiklabs-gcp-04-3373bd5bb12a) \$

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Password
FJPyD1wN1JZx 

Project ID
qwiklabs-gcp-04-3373b 

Lab Zone
us-east1-c 

Monolith Identifier
fancy-monolith-795 

Task 2. Create a kubernetes cluster and deploy the application

Now that you have the image created and sitting in the Artifact Registry, it's time to create a cluster to deploy it to.

You've been told to deploy all of your resources in the `us-east1-c` zone, so first you'll need to create a GKE cluster for it. Start with a 3 node cluster to begin with.

1. Create your cluster as follows:

- Cluster name: `fancy-prod-900`
- Region: `us-east1`
- Node count: 3

Hint:

Make sure your cluster is named `fancy-prod-900`, and is in the running state in `us-east1`.

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Username

student-01-3ec6a77d7c



Password

FJPyD1wN1JZx



Project ID

qwiklabs-gcp-04-3373b



Lab Zone

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Monolith Identifier

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- Node count: 3

Hint:

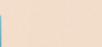
Make sure your cluster is named **fancy-prod-900**, and is in the running state in **us-east1**.

Now that you've built up an image, and have a cluster up and running, it's time to deploy your application.

You'll need to deploy the image that you've built onto your cluster. This will get your application up and running, but it can't be accessed until you expose it to the outside world. Your team has told you that the application runs on port 8080, but you will need to expose this on a more consumer-friendly port 80.

2. Create and expose your deployment as follows:

- Cluster name: **fancy-prod-900**
- Container name: **fancy-monolith-795**
- Container version: 1.0.0
- Application port: 8080
- Externally accessible port: 80

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Username

student-01-3ec6a77d7c



Password

FJPyD1wN1JZx



Project ID

qwiklabs-gcp-04-3373b



Lab Zone

us-east1-c



Monolith Identifier

fancy-monolith-795



You should see the following:

Fancy Store

Home

Products

Orders

Welcome to the Fancy Store!

Take a look at our wide variety of products.

Hint:

Make sure your deployment is named **fancy-monolith-795**, and that you have exposed the service on port 80, and mapped it to port 8080.

Click *Check my progress* to verify the objective.

Create a kubernetes cluster and deploy the application

[Check my progress](#)**Assessment Completed!**

Now that you can build and deploy your Fancy Store monolith application, you're ready to start breaking it down into microservices!

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CLOUD SHELL Terminal (qwiklabs-gcp-04-3373bd5bb12a) X + Open Editor

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

DURATION: 50S
SOURCE: gs://qwiklabs-gcp-04-3373bd5bb12a/_cloudbuild/source/1764257157.963682-7700fb23122e401fb989b2027687a1d0.tgz
IMAGES: gcr.io/qwiklabs-gcp-04-3373bd5bb12a/fancy-monolith-795:1.0.0
STATUS: SUCCESS
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/monolith (qwiklabs-gcp-04-3373bd5bb12a)\$
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/monolith (qwiklabs-gcp-04-3373bd5bb12a)\$
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/monolith (qwiklabs-gcp-04-3373bd5bb12a)\$
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/monolith (qwiklabs-gcp-04-3373bd5bb12a)\$
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/monolith (qwiklabs-gcp-04-3373bd5bb12a)\$ gcloud config set compute/zone us-east1-c
gcloud services enable container.googleapis.com
gcloud container clusters create fancy-prod-900 --num-nodes 3

kubectl create deployment fancy-monolith-795 --image=gcr.io/\${GOOGLE_CLOUD_PROJECT}/fancy-monolith-795:1.0.0
kubectl expose deployment fancy-monolith-795 --type=LoadBalancer --port 80 --target-port 8080
Updated property [compute/zone].
Operation "operations/acf.p2-1062235323010-94c9ee46-0605-437d-954a-d52fb64ed46e" finished successfully.
Note: Your Pod address range ('--cluster-ipv4-cidr') can accommodate at most 1008 node(s).
Creating cluster fancy-prod-900 in us-east1-c... Cluster is being health-checked (Kubernetes Control Plane is healthy)...done.
Created [<https://container.googleapis.com/v1/projects/qwiklabs-gcp-04-3373bd5bb12a/zones/us-east1-c/clusters/fancy-prod-900>].
To inspect the contents of your cluster, go to: https://console.cloud.google.com/kubernetes/workload_gcloud/us-east1-c/fancy-prod-900?project=qwiklabs-gcp-04-3373bd5bb12a
kubeconfig entry generated for fancy-prod-900.
NAME: fancy-prod-900
LOCATION: us-east1-c
MASTER_VERSION: 1.33.5-gke.1201000
MASTER_IP: 34.26.47.241
MACHINE_TYPE: e2-medium
NODE_VERSION: 1.33.5-gke.1201000
NUM_NODES: 3
STATUS: RUNNING
STACK_TYPE: IPV4
deployment.apps/fancy-monolith-795 created
service/fancy-monolith-795 exposed
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/monolith (qwiklabs-gcp-04-3373bd5bb12a)\$
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/monolith (qwiklabs-gcp-04-3373bd5bb12a)\$
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/monolith (qwiklabs-gcp-04-3373bd5bb12a)\$
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/monolith (qwiklabs-gcp-04-3373bd5bb12a)\$

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ENG IN 09:11 PM 27-11-2025



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student-01-3ec6a77d7c 

Password

FJPyD1wN1JZx 

Project ID

qwiklabs-gcp-04-3373b 

Lab Zone

us-east1-c 

Monolith Identifier

fancy-monolith-795 

Task 3. Create new microservices

There are 3 services that need to be broken out into their own containers. Since you are moving all of the services into containers, you need to track the following information for each service:

- The root folder of the service (where you will build the container)
- The repository you will upload the container to
- The name & version of the container artifact

Create a containerized version of your microservices

Below is the set of services which need to be containerized.

1. Navigate to the source roots mentioned below, and upload the artifacts that are created to the Artifact Registry with the metadata indicated:

Orders	Service root folder: ~/monolith-to-microservices/microservices/src/orders GCR Repo: gcr.io/\${GOOGLE_CLOUD_PROJECT}
--------	--

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Username: student-01-3ec6a77d7c

Password: FJPyD1wN1JZx

Project ID: qwiklabs-gcp-04-3373b

Lab Zone: us-east1-c

Monolith Identifier: fancy-monolith-795

Below is the set of services which need to be containerized.

1. Navigate to the source roots mentioned below, and upload the artifacts that are created to the Artifact Registry with the metadata indicated:

Orders Microservice	Service root folder: ~/monolith-to-microservices/microservices/src/orders GCR Repo: gcr.io/\${GOOGLE_CLOUD_PROJECT} Image name: fancy-orders-537 Image version: 1.0.0
Products Microservice	Service root folder: ~/monolith-to-microservices/microservices/src/products GCR Repo: gcr.io/\${GOOGLE_CLOUD_PROJECT} Image name: fancy-products-158 Image version: 1.0.0

2. Once these microservices have been containerized, and their images uploaded to Artifact Registry, you should deploy and expose these services.

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[Open Google Cloud console](#)

Username

student-01-3ec6a77d7c 

Password

FJPyD1wN1JZx 

Project ID

qwiklabs-gcp-04-3373b 

Lab Zone

us-east1-c 

Monolith Identifier

fancy-monolith-795 

GCR Repo: gcr.io/\$GOOGLE_CLOUD_PROJECT

Image name: fancy-products-158

Image version: 1.0.0

- Once these microservices have been containerized, and their images uploaded to Artifact Registry, you should deploy and expose these services.

Hint: Make sure that you submit a build named **fancy-orders-537** with a version of "1.0.0", AND a build named **fancy-products-158** with a version of "1.0.0".

Click *Check my progress* to verify the objective.

Create a containerized version of orders and product Microservices

[Check my progress](#)

Assessment Completed!

Task 4. Deploy the new microservices

Deploy these new containers following the same process that you followed for the

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Don't show again Dismiss

```
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/monolith (qwiklabs-gcp-04-3373bd5bb12a)$  
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/monolith (qwiklabs-gcp-04-3373bd5bb12a)$  
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/monolith (qwiklabs-gcp-04-3373bd5bb12a)$  
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/monolith (qwiklabs-gcp-04-3373bd5bb12a)$ cd ~/monolith-to-microservices/microservices/src/orders  
gcloud builds submit --tag gcr.io/${GOOGLE_CLOUD_PROJECT}/fancy-orders-537:1.0.0 .  
  
cd ~/monolith-to-microservices/microservices/src/products  
gcloud builds submit --tag gcr.io/${GOOGLE_CLOUD_PROJECT}/fancy-products-158:1.0.0 .  
Creating temporary archive of 8 file(s) totalling 24.3 KiB before compression.  
Some files were not included in the source upload.  
  
Check the gcloud log [/tmp/tmp.yhWMIvQWEz/logs/2025.11.27/15.45.14.989673.log] to see which files and the contents of the  
default gcloudignore file used (see '$ gcloud topic gcloudignore' to learn  
more).  
  
Uploading tarball of [...] to [gs://qwiklabs-gcp-04-3373bd5bb12a_cloudbuild/source/1764258315.242672-fc55c0a059a24badaac38db727ceec82.tgz]  
Created [https://cloudbuild.googleapis.com/v1/projects/qwiklabs-gcp-04-3373bd5bb12a/locations/global/builds/415b916b-fd4e-4e30-b8d5-5a08c397ab07].  
Logs are available at [ https://console.cloud.google.com/cloud-build/builds/415b916b-fd4e-4e30-b8d5-5a08c397ab07?project=1062235323010 ].  
Waiting for build to complete. Polling interval: 1 second(s).  
----- REMOTE BUILD OUTPUT -----  
starting build "415b916b-fd4e-4e30-b8d5-5a08c397ab07"  
  
FETCHSOURCE  
Fetching storage object: gs://qwiklabs-gcp-04-3373bd5bb12a_cloudbuild/source/1764258315.242672-fc55c0a059a24badaac38db727ceec82.tgz#1764258316209993  
Copying gs://qwiklabs-gcp-04-3373bd5bb12a_cloudbuild/source/1764258315.242672-fc55c0a059a24badaac38db727ceec82.tgz#1764258316209993...  
/ [1 files] [ 8.9 KiB/ 8.9 KiB]  
Operation completed over 1 objects/8.9 KiB.  
BUILD  
Already have image (with digest): gcr.io/cloud-builders/gcb-internal  
Sending build context to Docker daemon 33.28kB  
Step 1/7 : FROM node:16  
16: Pulling from library/node  
311da6c465ea: Pulling fs layer  
7e9bf114588c: Pulling fs layer  
ffd9397e94b7: Pulling fs layer  
513d77925604: Pulling fs layer
```

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Search

9:30 AM 27-11-2025

ENG IN

09:22 PM

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6ad854e85c0a: Preparing
868f93c06209: Preparing
939bafc0ccc4: Preparing
a217af1f5738: Preparing
be322b479aeee: Preparing
d41bcd3a037b: Preparing
fe0d845e767b: Preparing
f25ec1d93a58: Preparing
794ce8b1b516: Preparing
3220beed9b06: Preparing
684f82921421: Preparing
9af5f53e8f62: Preparing
684f82921421: Waiting
9af5f53e8f62: Waiting
d41bcd3a037b: Layer already exists
794ce8b1b516: Layer already exists
f25ec1d93a58: Layer already exists
be322b479aeee: Layer already exists
3220beed9b06: Layer already exists
fe0d845e767b: Layer already exists
684f82921421: Layer already exists
9af5f53e8f62: Layer already exists
a217af1f5738: Pushed
6ad854e85c0a: Pushed
939bafc0ccc4: Pushed
868f93c06209: Pushed
1.0.0: digest: sha256:d13794395c915735400f545055d8a75571ee79474a24dae5c703e56692c47dec size: 2838
DONE

ID: bee661c8-0e72-4530-b7f5-5d190ce6c335
CREATE_TIME: 2025-11-27T15:46:14+00:00
DURATION: 1M16S
SOURCE: gs://qwiklabs-gcp-04-3373bd5bb12a_cloudbuild/source/1764258372.449632-54b8779ed51c477d8d43803a7b6236e5.tgz
IMAGES: gcr.io/qwiklabs-gcp-04-3373bd5bb12a/fancy-products-158:1.0.0
STATUS: SUCCESS
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/microservices/src/products (qwiklabs-gcp-04-3373bd5bb12a)\$ kubectl create deployment fancy-orders-537 --image=gcr.io/\${GOOGLE_CL

9+ 13°C Clear Search

ENG IN 09:23 PM 27-11-2025

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Build a Website on Google Cloud: Challenge Lab 

Task 4. Deploy the new microservices

End Lab 00:53:28

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[Open Google Cloud console](#)

Username

student-01-3ec6a77d7c 

Password

FJPyD1wN1JZx 

Project ID

qwiklabs-gcp-04-3373b 

Lab Zone

us-east1-c 

Monolith Identifier

fancy-monolith-795 

Deploy these new containers following the same process that you followed for the `fancy-monolith-795` monolith. Note that these services will be listening on different ports, so make note of the port mappings in the table below.

1. Create and expose your deployments as follows:

Orders Microservice	Cluster name: fancy-prod-900 Container name: fancy-orders-537 Container version: 1.0.0 Application port: 8081 Externally accessible port: 80
Products Microservice	Cluster name: fancy-prod-900 Container name: fancy-products-158 Container version: 1.0.0 Application port: 8082

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Project ID
 

Lab Zone
 

Monolith Identifier
 

NOTE: Please make note of the IP address of both the Orders and Products services once they have been exposed, you will need them in future steps.

2. You can verify that the deployments were successful and that the services have been exposed by going to the following URLs in your browser:

http://ORDERS_EXTERNAL_IP/api/orders

http://PRODUCTS_EXTERNAL_IP/api/products

You will see each service return a JSON string if the deployments were successful.

Hint: Make sure your deployments are named fancy-orders-537 and fancy-products-158, and that you see the services exposed on port 80.

Click *Check my progress* to verify the objective.

Deploy the new microservices



[Check my progress](#)

Assessment Completed!

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684f82921421: Preparing
9af5f53e8f62: Preparing
684f82921421: Waiting
9af5f53e8f62: Waiting
d41bcd3a037b: Layer already exists
794ce8b1b516: Layer already exists
f25ec1d93a58: Layer already exists
be322b479aee: Layer already exists
3220beed9b06: Layer already exists
fe0d845e767b: Layer already exists
684f82921421: Layer already exists
9af5f53e8f62: Layer already exists
a217af1f5738: Pushed
6ad854e85c0a: Pushed
939bafc0ccc4: Pushed
868f93c06209: Pushed
1.0.0: digest: sha256:d13794395c915735400f545055d8a75571ee79474a24dae5c703e56692c47dec size: 2838
DONE

ID: bee661c8-0e72-4530-b7f5-5d190ce6c335
CREATE_TIME: 2025-11-27T15:46:14+00:00
DURATION: 1M16S
SOURCE: gs://qwiklabs-gcp-04-3373bd5bb12a_cloudbuild/source/1764258372.449632-54b8779ed51c477d8d43803a7b6236e5.tgz
IMAGES: gcr.io/qwiklabs-gcp-04-3373bd5bb12a/fancy-products-158:1.0.0
STATUS: SUCCESS
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/microservices/src/products (qwiklabs-gcp-04-3373bd5bb12a)\$ kubectl create deployment fancy-orders-537 --image=gcr.io/\${GOOGLE_CLOUD_PROJECT}/fancy-orders-158:1.0.0
kubectl expose deployment fancy-orders-537 --type=LoadBalancer --port 80 --target-port 8081

kubectl create deployment fancy-products-158 --image=gcr.io/\${GOOGLE_CLOUD_PROJECT}/fancy-products-158:1.0.0
kubectl expose deployment fancy-products-158 --type=LoadBalancer --port 80 --target-port 8082
deployment.apps/fancy-orders-537 created
service/fancy-orders-537 exposed
deployment.apps/fancy-products-158 created
service/fancy-products-158 exposed
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/microservices/src/products (qwiklabs-gcp-04-3373bd5bb12a)\$

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 Assessment completed

00:50:46

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Username

student-01-3ec6a77d7c



Password

FJPyD1wN1JZx



Project ID

qwiklabs-gcp-04-3373b



Lab Zone

us-east1-c



Monolith Identifier

fancy-monolith-795



Task 5. Configure and deploy the Frontend microservice

Now that you have extracted both the Orders and Products microservice, you need to configure the Frontend service to point to them, and get it deployed.

Reconfigure Frontend

1. Use the nano editor to replace the local URL with the IP address of the new Products microservices:

```
cd ~/monolith-to-microservices/react-app  
nano .env
```

When the editor opens, your file should look like this:

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End Lab 00:50:29

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Username
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Password
FJPyD1wN1JZx 

Project ID
qwiklabs-gcp-04-3373b 

Lab Zone
us-east1-c 

Monolith Identifier
fancy-monolith-795 

When the editor opens, your file should look like this:

```
REACT_APP_ORDERS_URL=http://localhost:8081/api/orders
REACT_APP_PRODUCTS_URL=http://localhost:8082/api/products
```

2. Replace the `REACT_APP_PRODUCTS_URL` to the new format while replacing with your Orders and Product microservice IP addresses so it matches below:

```
REACT_APP_ORDERS_URL=http://<ORDERS_IP_ADDRESS>/api/orders
REACT_APP_PRODUCTS_URL=http://<PRODUCTS_IP_ADDRESS>/api/products
```

3. Press **CTRL+O**, press **ENTER**, then **CTRL+X** to save the file in the `nano` editor.

4. Now rebuild the frontend app before containerizing it:

```
npm run build
```

Task 6. Create a containerized[Previous](#)[Next](#)

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GNU nano 7.2 .env

```
REACT_APP_ORDERS_URL=http://35.190.146.80:80/api/orders
REACT_APP_PRODUCTS_URL=http://35.229.54.62:80/api/products
```

[Read 2 lines]

Help Write Out Where Is Cut Execute Undo Set Mark To Bracket Previous Back
Exit Read File Replace Paste Go To Line Redo Copy Where Was Next Forward

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Search

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Build a Website on Google Cloud: Challenge Lab

End Lab 00:43:56

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Open Google Cloud console

Username: student-01-3ec6a77d7c

Password: FJPyD1wN1JZx

Project ID: qwiklabs-gcp-04-3373b

Lab Zone: us-east1-c

Monolith Identifier: fancy-monolith-795

Task 6. Create a containerized version of the Frontend microservice

With the Orders and Products microservices now containerized and deployed, and the Frontend service configured to point to them, the final step is to containerize and deploy the Frontend.

Use Cloud Build to package up the contents of the Frontend service and push it up to Artifact Registry.

- Service root folder: ~/monolith-to-microservices/microservices/src/frontend
- Repo: gcr.io/\${GOOGLE_CLOUD_PROJECT}
- Image name: fancy-frontend-536
- Image version: 1.0.0

This process may take a few minutes, so be patient.

Hint: Make sure that you submit a build named **fancy-frontend-536** with a version of "1.0.0".

Click *Check my progress* to verify the objective.

Create a containerized version of the Frontend microservice

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Frontend service configured to point to them, the final step is to containerize and deploy the Frontend.

00:43:00

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Username

student-01-3ec6a77d7c



Password

FJPyD1wN1JZx



Project ID

qwiklabs-gcp-04-3373b



Lab Zone

us-east1-c



Monolith Identifier

fancy-monolith-795



Use Cloud Build to package up the contents of the Frontend service and push it up to Artifact Registry.

- Service root folder: ~/monolith-to-microservices/microservices/src/frontend
- Repo: gcr.io/\${GOOGLE_CLOUD_PROJECT}
- Image name: fancy-frontend-536
- Image version: 1.0.0

This process may take a few minutes, so be patient.

Hint: Make sure that you submit a build named `fancy-frontend-536` with a version of "1.0.0".

Click [Check my progress](#) to verify the objective.

Create a containerized version of the Frontend microservice

[Check my progress](#)

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Don't show again Dismiss

```
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/react-app (qwiklabs-gcp-04-3373bd5bb12a)$ gcloud builds submit --tag gcr.io/${GOOGLE_CLOUD_PROJECT}/fancy-frontend-536:1.0.0 .
Creating temporary archive of 25 file(s) totalling 2.4 MiB before compression.
Uploading tarball of [...] to [gs://qwiklabs-gcp-04-3373bd5bb12a_cloudbuild/source/1764259227.245201-3c8f21e0f8874c209046d80196c879b9.tgz]
Created [https://cloudbuild.googleapis.com/v1/projects/qwiklabs-gcp-04-3373bd5bb12a/locations/global/builds/cea79e14-cbb2-4327-a764-3356d067c2c6].
Logs are available at [ https://console.cloud.google.com/cloud-build/builds/cea79e14-cbb2-4327-a764-3356d067c2c6?project=1062235323010 ].
Waiting for build to complete. Polling interval: 1 second(s).

----- REMOTE BUILD OUTPUT -----
starting build "cea79e14-cbb2-4327-a764-3356d067c2c6"

FETCHSOURCE
Fetching storage object: gs://qwiklabs-gcp-04-3373bd5bb12a_cloudbuild/source/1764259227.245201-3c8f21e0f8874c209046d80196c879b9.tgz#1764259229792558
Copying gs://qwiklabs-gcp-04-3373bd5bb12a_cloudbuild/source/1764259227.245201-3c8f21e0f8874c209046d80196c879b9.tgz#1764259229792558...
/ [1 files] [ 1.4 MiB/ 1.4 MiB]
Operation completed over 1 objects/1.4 MiB.

BUILD
Already have image (with digest): gcr.io/cloud-builders/gcb-internal
Sending build context to Docker daemon 2.543MB
Step 1/7 : FROM node:16
16: Pulling from library/node
311da6c465ea: Pulling fs layer
7e9bf114588c: Pulling fs layer
ffd9397e94b7: Pulling fs layer
513d77925604: Pulling fs layer
ae3b95bbaa61: Pulling fs layer
0e421f66aff4: Pulling fs layer
ca266fd61921: Pulling fs layer
ee7d78be1eb9: Pulling fs layer
ca266fd61921: Waiting
ee7d78be1eb9: Waiting
ae3b95bbaa61: Verifying Checksum
ae3b95bbaa61: Download complete
ca266fd61921: Verifying Checksum
ca266fd61921: Download complete
7e9bf114588c: Verifying Checksum
```

9+ 13°C Clear

Search

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```
b1b72cd7cfea: Preparing  
b2ae9b8f7d36: Preparing  
9b71d40f879b: Preparing  
48ca06794cf8: Preparing  
be322b479aee: Preparing  
d41bcd3a037b: Preparing  
fe0d845e767b: Preparing  
f25ec1d93a58: Preparing  
794ce8b1b516: Preparing  
3220beed9b06: Preparing  
684f82921421: Preparing  
9af5f53e8f62: Preparing  
684f82921421: Waiting  
9af5f53e8f62: Waiting  
d41bcd3a037b: Layer already exists  
3220beed9b06: Layer already exists  
fe0d845e767b: Layer already exists  
f25ec1d93a58: Layer already exists  
be322b479aee: Layer already exists  
794ce8b1b516: Layer already exists  
684f82921421: Layer already exists  
9af5f53e8f62: Layer already exists  
9b71d40f879b: Pushed  
48ca06794cf8: Pushed  
b1b72cd7cfea: Pushed  
b2ae9b8f7d36: Pushed  
1.0.0: digest: sha256:17e8e84b5d81d4ca6c2e0198c33407ce6baff832bc701aa5b60b890a9e500f35 size: 2841  
DONE
```

```
ID: cea79e14-cbb2-4327-a764-3356d067c2c6  
CREATE_TIME: 2025-11-27T16:00:31+00:00  
DURATION: 30s  
SOURCE: gs://qwiklabs-gcp-04-3373bd5bb12a_cloudbuild/source/1764259227.245201-3c8f21e0f8874c209046d80196c879b9.tgz  
IMAGES: gcr.io/qwiklabs-gcp-04-3373bd5bb12a/fancy-frontend-536:1.0.0  
STATUS: SUCCESS  
student_01_3ec6a77d7cc4@cloudshell:~/monolith-to-microservices/microservices/src/frontend (qwiklabs-gcp-04-3373bd5bb12a) $
```

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End Lab
00:42:05

Assessment Completed!

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Build a Website on Google Cloud: Challenge Lab



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Username

student-01-3ec6a77d7c



Password

FJPyD1wN1JZx



Project ID

qwiklabs-gcp-04-3373b



Lab Zone

us-east1-c



Monolith Identifier

fancy-monolith-795



Task 7. Deploy the Frontend microservice

Deploy this container following the same process that you followed for the "Orders" and "Products" microservices.

1. Create and expose your deployment as follows:

- Cluster name: fancy-prod-900
- Container name: fancy-frontend-536
- Container version: 1.0.0
- Application port: 8080
- Externally accessible port: 80

2. You can verify that the deployment was successful and that the microservices have been properly exposed by hitting the following the IP address of the frontend service in your browser: ?

You will see the Fancy Store homepage, with links to the Products and Orders pages powered by your new microservices.

Lab instructions and tasks

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Build a Website on Google Cloud > Build a Website on Google Cloud: Challenge Lab

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Build a Website on Google Cloud: Challenge Lab

1. Create and expose your deployment as follows.

- Cluster name: fancy-prod-900
- Container name: fancy-frontend-536
- Container version: 1.0.0
- Application port: 8080
- Externally accessible port: 80

2. You can verify that the deployment was successful and that the microservices have been properly exposed by hitting the following the IP address of the frontend service in your browser:?:

You will see the Fancy Store homepage, with links to the Products and Orders pages powered by your new microservices.

Click *Check my progress* to verify the objective.

Deploy the Frontend microservice

 [Check my progress](#)

Assessment Completed!

80/100

Lab instructions and tasks

GSP319

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Task 2. Create a kubernetes cluster and deploy the application

Task 3. Create new microservices

Task 4. Deploy the new microservices

Task 5. Configure and deploy the Frontend

Dashboard – quiklabs-gcp-04-337... Kubernetes clusters – Kubernetes fancy-orders-537 – Deployment detail fancy-products-158 – Deployment de +

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Kubernetes Engine / Clusters

All Fleets No fleets in the current project

Resource Management

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- Clusters **Clusters**
- Workloads
- AI/ML **New**
- Teams
- Applications
- Secrets & ConfigMaps
- Storage
- Object Browser
- Upgrades **New**
- Marketplace
- Release Notes

Kubernetes clusters + Create + Deploy Refresh Attach cluster New

Overview Utilization Observability Cost Optimization

Health ② 100% healthy Upgrade ② 100% up to date Estimated monthly cost ② \$0.00 / month · 0%
No recommendations No recommendations No recommendations

Filter Enter property name or value

Status	Name ↑	Location	Number of nodes	Total vCPUs	Total memory	Notifications	Labels
<input type="checkbox"/>	<input checked="" type="checkbox"/> fancy-prod-900	us-east1-c	3	6	12 GB	–	⋮

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Kubernetes Engine / Workloads

All Fleets No fleets in the current project

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Workloads Refresh Deploy Create Job Delete

Cluster Namespace Reset Save

Overview Observability Cost Optimization

Filter Is system object : False Filter workloads

<input type="checkbox"/>	Name ↑	Status	Type	Pods	Node type	Namespace	Cluster
<input type="checkbox"/>	fancy-frontend-536	✓ OK	Deployment	1/1	User-managed	default	fancy-prod-900
<input type="checkbox"/>	fancy-monolith-795	✓ OK	Deployment	1/1	User-managed	default	fancy-prod-900
<input type="checkbox"/>	fancy-orders-537	✓ OK	Deployment	1/1	User-managed	default	fancy-prod-900
<input type="checkbox"/>	fancy-products-158	✓ OK	Deployment	1/1	User-managed	default	fancy-prod-900

Air: Poor Tomorrow

Search

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Kubernetes Engine / Deployment: fancy-frontend-536 / Deployment overview

All Fleets

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Resource Management

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Deployment d... ← Refresh Edit Delete Actions kubectl Show info panel

↓ Revision	Name	Status	Summary	Created on	Pods running/Pods total
1	fancy-frontend-536-86dbb5c755	✓ OK	fancy-frontend-536: gcr.io/qwiklabs-gcp-04-3373bd5bb12a/fancy-frontend-536:1.0.0	Nov 27, 2025, 9:34:29 PM	1/1

Managed pods

Filter Filter pods

Revision	Name	Status	Restarts	Created on ↑
1	fancy-frontend-536-86dbb5c755-jp57k	✓ Running	0	Nov 27, 2025, 9:34:29 PM

Exposing services

Name ↑ Type Endpoints

fancy-frontend-536	Load balancer	34.26.52.49:80
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Fancy Store

Home

Products

Orders

Welcome to the Fancy Store!

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