

1) Create a Linux vm and host a sample website

<https://github.com/learning-zone/website-templates>

Create a container registry

```
docker run -d -p 8080:80 nginx:latest
docker ps
```

```
git clone https://github.com/learning-zone/website-templates
```

```
docker cp contact.html a63b9b298b11:/usr/share/nginx/html/
docker cp courses.html a63b9b298b11:/usr/share/nginx/html/
docker cp css a63b9b298b11:/usr/share/nginx/html/
docker cp fonts a63b9b298b11:/usr/share/nginx/html/
docker cp img a63b9b298b11:/usr/share/nginx/html/
docker cp index.html a63b9b298b11:/usr/share/nginx/html/
docker cp js a63b9b298b11:/usr/share/nginx/html/
docker cp portfolio.html a63b9b298b11:/usr/share/nginx/html/
docker cp pricing.html a63b9b298b11:/usr/share/nginx/html/
docker cp readme.txt a63b9b298b11:/usr/share/nginx/html/
docker cp about.html a63b9b298b11:/usr/share/nginx/html/
```

```
docker commit a63b9b298b11 ajay:version1
docker images
docker tag ajay:version1 us.gcr.io/tarkshyas-1635697093258/ajay:version1
docker push us.gcr.io/tarkshyas-1635697093258/ajay:version1
```

Container registry created with name ajay

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Container Registry | Repositories

Transition to Artifact Registry

Artifact Registry is the recommended service for managing container images. Container Registry is still supported but will only receive critical security fixes. Learn more about options to transition to Artifact Registry.

[TRY ARTIFACT REGISTRY](#) [LEARN MORE](#)

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Name ↑	Hostname ?	Visibility ?
ajay	us.gcr.io	Private
app-engine-tmp	asia.gcr.io	Private
appengine	asia.gcr.io	Private
monolith	gcr.io	Private

Recommended for you

- [Overview of Container Registry](#)
- [Pushing and pulling images](#)
- [Configuring access control](#)

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Now create a vm and deploy container

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← Create an instance HELP ASSISTANT

To create a VM instance, select one of the options:

- New VM instance**
Create a single VM instance from scratch
- New VM instance from template
Create a single VM instance from an existing template
- New VM instance from machine image
Create a single VM instance from an existing machine image
- Marketplace
Deploy a ready-to-go solution onto a VM instance

Name * Instance-1

Labels ?
[+ ADD LABELS](#)

Region * us-central1 (Iowa) ? Zone * us-central1-a ?
Region is permanent Zone is permanent

Monthly estimate
\$7.11
That's about \$0.01 hourly
You have \$22,010.98 free trial credits remaining
Pay for what you use: No upfront costs and per second billing
[✓ DETAILS](#)

Machine configuration

Machine family

[GENERAL-PURPOSE](#) [COMPUTE-OPTIMIZED](#) [MEMORY-OPTIMIZED](#) [GPU](#)

Machine types for common workloads, optimized for cost and flexibility

Series E2

CPU platform selection based on availability

Machine type e2-micro (2 vCPU, 1 GB memory)

	vCPU	Memory
	1 shared core	1 GB

Configure container

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Configure container

Restart policy Always ?

☐ Run as privileged ?
☐ Allocate a buffer for STDIN ?
☐ Allocate a pseudo-TTY ?

Command ?

Arguments ?
[+ ADD ARGUMENT](#)


Environment variables ?
[+ ADD VARIABLE](#)

Volume mounts ?
Use to mount directories (host path), tmpfs and additional disks to container.
[ADD VOLUME](#)

[SELECT](#) [CANCEL](#)

Boot disk ?

DE

Type	New balanced persistent disk
Size	10 GB
Image	 Container-Optimized OS 93-16623.39.30 stable

CHANGE

Identity and API access ?

Vm created

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VM instances are highly configurable virtual machines for running workloads on Google infrastructure. [Learn more](#)

Filter Enter property name or value

	Status	Name	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input type="checkbox"/>	<input checked="" type="checkbox"/>	instance-1	us-central1-a			10.128.0.3 (nic0)	34.132.234.182	SSH

http://34.132.234.182

34.132.234.182

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