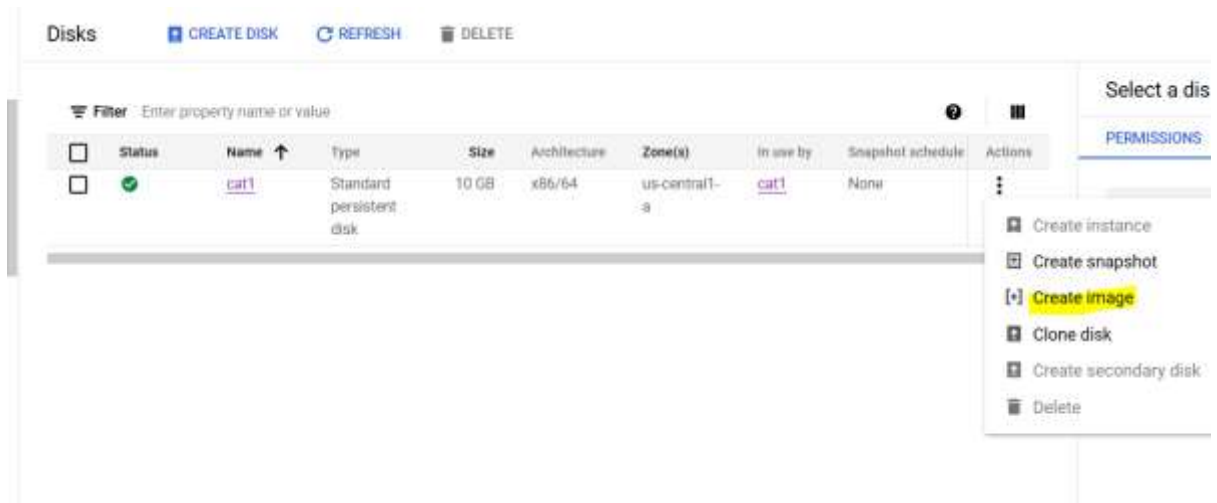


In this lab we will setup an Instance group and will also create a new instance using it.

Instance Group: -

- 1) Go to disks, create an image of the boot volume of cat1



- 2) Make sure that you are using the keep instance running option. Click on create.

←

Create an image

to previous page

Name *

cat1-image

?

Name is permanent

Source *

Disk

▼

?

Source disk *

cat1

▼

?

Location ?

☐ Multi-regional

☒ Regional

Select location

us-central1 (Iowa)

▼

Family

?

Description

CREATE

CANCEL

EQUIVALENT CODE

Pricing summary

Your free trial credit will

3) Go to instance template>create instance template

⚙️

Compute Engine

📌

Overview

PREVIEW

Virtual machines

VM instances

Instance templates

Sole-tenant nodes

Instance templates

+

CREATE INSTANCE TEMPLATE

↺

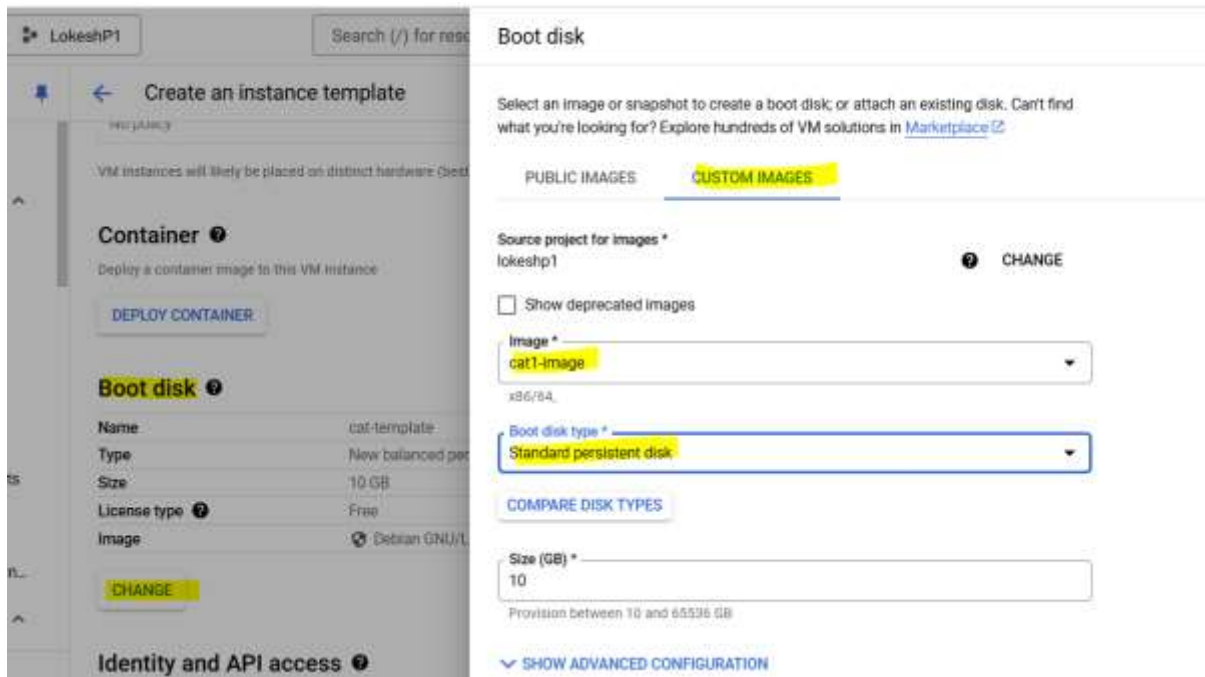
REFRESH

Filter

Filter instance templates

<input type="checkbox"/>	Name ↑	Machine type	Image	Disk type	Loc

- 4) Give it a name, keep regional and E2 family shape (already be default)
- 5) Scroll down. Click change under boot disk, select custom images, change disk type to standard persistent disk and select cat1 image created above



6) Allow http and https traffic



7) Expand advanced option, go to Management and paste below startup script

Note:- make sure to update username in script

```
#!/bin/bash
```

```
export ASPNETCORE_ENVIRONMENT=Production
```

```
cd /home/{USERNAME}/catalog
```

```
dotnet catalog.dll
```

Management

Description, deletion protection, reservations, and automation

Description

Reservations

Automatically use created reservation

Use an existing reservation when creating an instance from this template

Automation

Startup script

```
export ASPNETCORE_ENVIRONMENT=Production
cd /home/lokeshdrall11/catalog
dotnet catalog.dll
```

You can choose to specify a startup script that will run when your instance boots up or restarts. Startup scripts can be used to install software and updates, and to ensure that services are running within the virtual machine. [Learn more](#)

8) Click create

9) Go to the instance group and click Create Instance Group

Navigation menu (/) / Instance groups

- Storage Pools
- Snapshots
- Images
- Async Replication
- Instance groups
- Health checks
- VM Manager
- Patch
- OS policies
- Bare Metal Solution
- Servers
- Marketplace

Instance G

Instance groups let you organize VM instances on a backend service. You can group existing instances or create new instances from an instance template.

CREATE INSTANCE GROUP

10) Give name and select the template

Set up automatic management for a group of stateless VMs, including updates, regional deployments, load balancing, autoscaling, and autohealing. [Learn more](#)

Name *

cat-group



Name is permanent

Description

Instance template *

cat-template



e2-medium, cat1-image, us-central1

Number of instances

Based on autoscaling configuration

- 11) Explore other options like location, autoscaling, but keep them default
- 12) Click create
- 13) Now, once instance group is created, it will start creating the minimum number of instances that we gave, 1, while creating it

Sooner, it will create a new instance, check it under the instance page. Try accessing the ReadIt app via the IP of this new VM. It should work.