

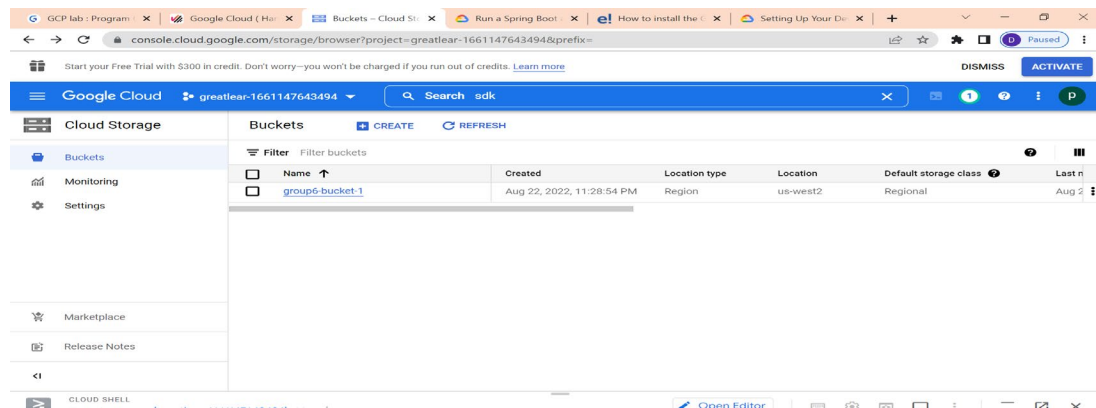
STEPS TO DEPLOY ON VM INSTANCE: -

- 1) Run your spring Boot application in the IDE that you have chosen.
- 2) Open the Google cloud project and note the Project ID and Project Number for further references.

Cloud storage bucket creation:

- 1) Create a bucket named “group6-bucket-1”

Command: - `gsutil mb -c regional -l us-west2 gs://group6-bucket-1`



- 2) Upload the application to cloud storage

Command: `gsutil cp ShopForHome/* gs://group6-bucket-1`

- 3) **Creating user data script / startup script**

script: -

```
#!/bin/sh
```

```
gsutil cp gs://group6-bucket-1
```

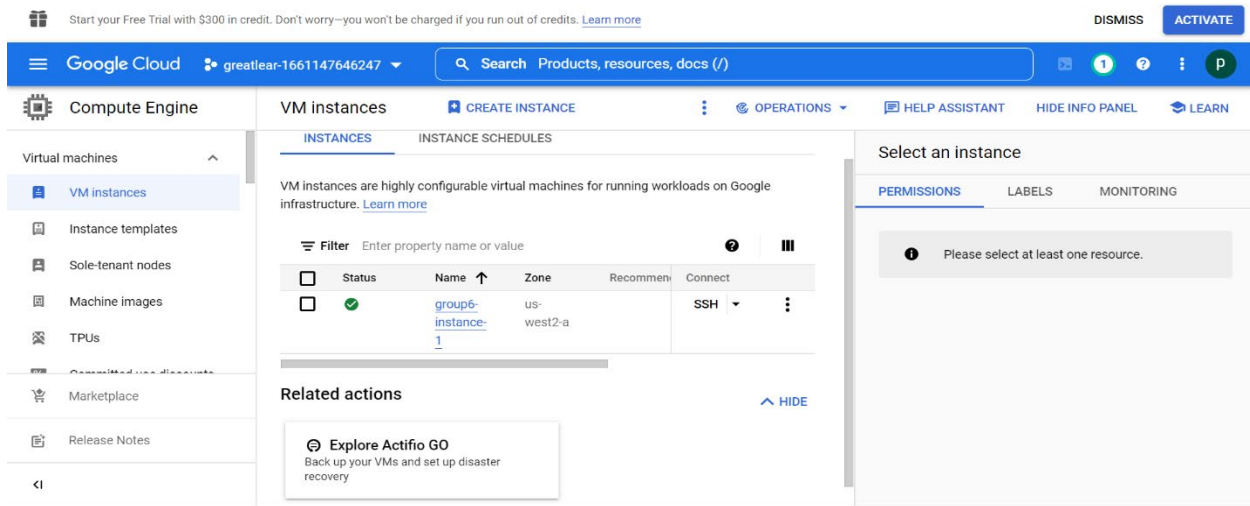
```
apt-get update
```

```
apt-get -y --force-yes install openjdk-8-jdk
```

```
update-alternatives --set java /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java
```

```
java -jar demo.jar
```

4) Create an instance in VM named “group6-instance-1”

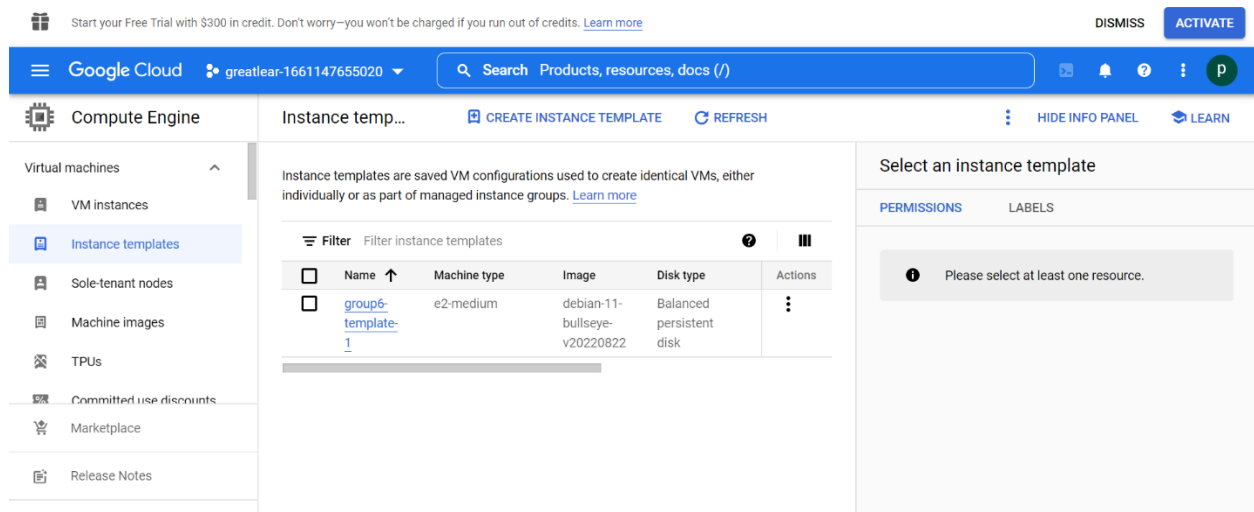


The screenshot shows the Google Cloud Console interface for VM instances. The left sidebar lists 'Virtual machines' with 'VM instances' selected. The main content area is titled 'VM instances' and includes a 'CREATE INSTANCE' button. Below this, there's a table of instances. One instance, 'group6-instance-1', is listed with a status of 'Running' (green checkmark), name 'group6-instance-1', zone 'us-west2-a', and a 'Connect' button labeled 'SSH'. A 'Filter' bar is above the table. Below the table, there's a 'Related actions' section with a card for 'Explore Actifio GO'. On the right, a 'Select an instance' panel is open, showing a message: 'Please select at least one resource.'

Status	Name	Zone	Recommend	Connect
Running	group6-instance-1	us-west2-a		SSH

5) Create an instance group

a) create an instance template named “group6-template-1”



The screenshot shows the Google Cloud Console interface for instance templates. The left sidebar lists 'Virtual machines' with 'Instance templates' selected. The main content area is titled 'Instance temp...' and includes a 'CREATE INSTANCE TEMPLATE' button and a 'REFRESH' button. Below this, there's a table of instance templates. One template, 'group6-template-1', is listed with a name 'group6-template-1', machine type 'e2-medium', image 'debian-11-bullseye-v20220822', and disk type 'Balanced persistent disk'. A 'Filter' bar is above the table. On the right, a 'Select an instance template' panel is open, showing a message: 'Please select at least one resource.'

Name	Machine type	Image	Disk type	Actions
group6-template-1	e2-medium	debian-11-bullseye-v20220822	Balanced persistent disk	

b) create an instance group named “group6-instancegrp-1”

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Compute Engine Instance groups CREATE INSTANCE GROUP REFRESH DELETE HELP ASSISTANT LEARN

Virtual machines

- VM instances
- Instance templates
- Sole-tenant nodes
- Machine images
- TPUs
- Committed use discounts
- Marketplace
- Release Notes

Instance groups are collections of VM instances that use load balancing and automated services, like autoscaling and autohealing. [Learn more](#)

Filter Enter property name or value

Status	Name	Instances	Template	Group type	Creation time	Recommendation	Autoscaling
<input checked="" type="checkbox"/>	group6-instancegrp-1	2	group6-template-1	Managed	Aug 23, 2022, 4:43:18 PM UTC+05:30		On: Target C utilization ?

c) Get the names and external IP addresses of the created instances:

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CLOUD SHELL Terminal (greatlear-1661147655020) Open Editor

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to greatlear-1661147655020.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
priyanka_c50d8422_867a_4c91_83be@cloudshell:~ (greatlear-1661147655020) $ gcloud compute instances list
NAME: group6-instancegrp-1-5w2k
ZONE: us-west2-b
MACHINE_TYPE: e2-medium
PREEMPTIBLE:
INTERNAL_IP: 10.168.0.3
EXTERNAL_IP: 35.235.118.51
STATUS: RUNNING

NAME: group6-instance-3
ZONE: us-west2-a
MACHINE_TYPE: e2-medium
PREEMPTIBLE:
INTERNAL_IP: 10.168.0.2
EXTERNAL_IP: 35.236.112.153
STATUS: RUNNING

NAME: group6-instancegrp-1-74s6
ZONE: us-west2-a
MACHINE_TYPE: e2-medium
PREEMPTIBLE:
INTERNAL_IP: 10.168.0.4
EXTERNAL_IP: 34.102.78.51
STATUS: RUNNING
priyanka_c50d8422_867a_4c91_83be@cloudshell:~ (greatlear-1661147655020) $
```

6) create a Load Balancer:

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 Network services


 Load balancing


 Cloud DNS


 Cloud CDN


 Cloud NAT

 Traffic Director

 Service Directory

 Cloud Services

 Marketplace

 Release Notes

Load balancing

+ CREATE LOAD BALANCER

REFRESH

DELETE



HELP ASSISTANT

LOAD BALANCERS

BACKENDS

FRONTENDS

Filter Enter property name or value

<input type="checkbox"/>	Name	Load balancer type 	Protocols	Region	Backends	
<input type="checkbox"/>	group6-bal1	Network (target pool-based)	TCP	us-west2	1 target pool (3 instances)	

To view or delete load balancing resources like forwarding rules and target proxies, go to the [load balancing components view](#).