

Google Cloud Platform (GCP)

Instance Template

Steps:

1. ?? VM Instance (via web)
2. ?? VM Instance
3. ?? Custom Image for VM Instance (via web)
4. ?? Instance Template for Custom Image (via web)
 - Boot Disk: Custom Image
 - Region: Global (Recommend)
5. ? Instance Template ????? VM Instances?via CLI or web?

```
# sets up the authentication
gcloud init

# create new VM instances with the template named vm1-template
gcloud compute instances create --zone "Zone" --source-instance-template vm1-template vm2 vm3
vm4 vm5 vm6 vm7 vm8
gcloud compute instances list
```

????????? VM

- [Getting started on GCP with Terraform](#)
- [Creating groups of unmanaged instances](#)

Quotas

- https://cloud.google.com/compute/quotas#understanding_vm_cpu_and_ip_address_quotas
- https://docs.aws.amazon.com/general/latest/gr/aws_service_limits.html
- <https://docs.microsoft.com/en-us/azure/azure-subscription-service-limits#service-specific-limits>

Active Cloud Shell

Cloud Shell is a virtual machine that is loaded with development tools. It offers a persistent 5GB home directory and runs on the Google Cloud. Cloud Shell provides command-line access to your Google Cloud resources.

Tip: Cloud Shell includes GCP SDK, docker, gcloud, and docker.

How to activate Cloud Shell?

```
gcloud auth list
```

```
ACTIVE: *
```

```
ACCOUNT: alang.hsu@gmail.com
```

To set the active account, run:

```
$ gcloud config set account `ACCOUNT`
```

```
gcloud config list project
```

```
[core]
```

```
project = <project_ID>
```

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