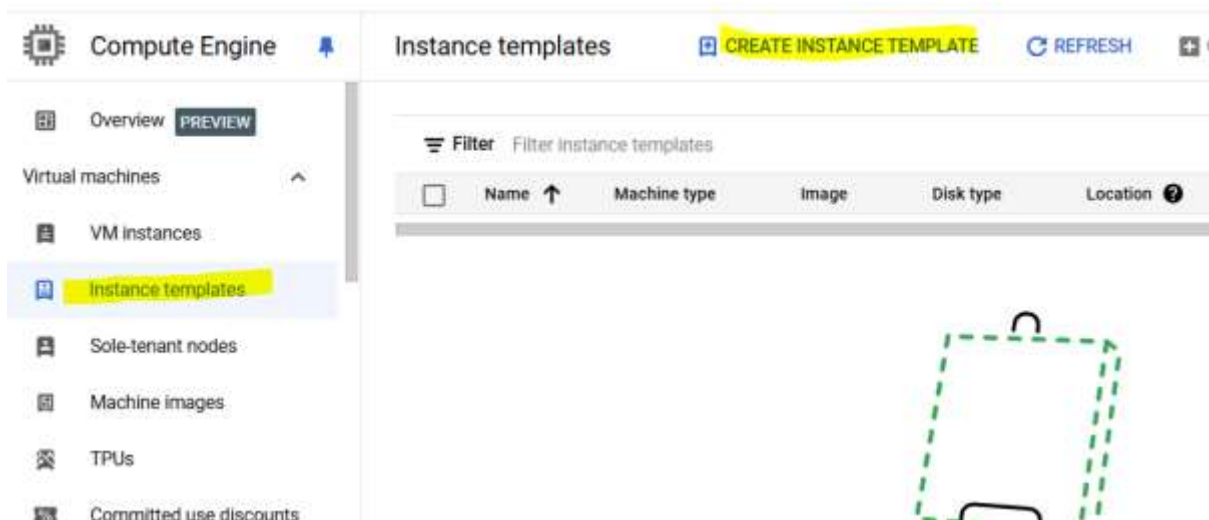
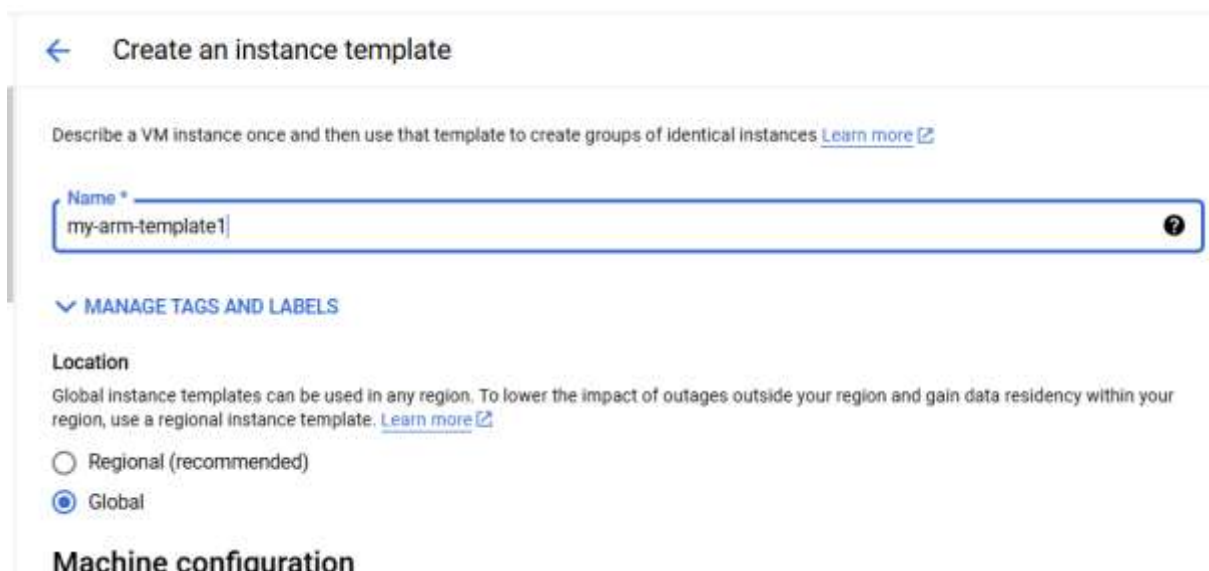


In this lab we will see option for creating an Instance template and how we can use it to create a new instance.

- 1) Under compute engine, go to Instance Template and click create instance template



- 2) Give template a name, like my-arm-template, change location to Global



← Create an instance template

Describe a VM instance once and then use that template to create groups of identical instances [Learn more](#)

Name *
my-arm-template1

MANAGE TAGS AND LABELS

Location
Global instance templates can be used in any region. To lower the impact of outages outside your region and gain data residency within your region, use a regional instance template. [Learn more](#)

☐ Regional (recommended)
☒ Global

Machine configuration

- 3) Change shape to T2A

<input type="radio"/>	C3D	Consistently high performance	4 - 300	8 - 2,000 GB	AMD Genoa	\$2
<input type="radio"/>	E2	Low cost, day-to-day computing	0.25 - 32	1 - 128 GB	Based on availability	Th
<input type="radio"/>	N2	Balanced price & performance	2 - 128	2 - 864 GB	Intel Cascade and Ice Lake	Pay
<input type="radio"/>	N2D	Balanced price & performance	2 - 224	2 - 896 GB	AMD EPYC	
<input checked="" type="radio"/>	T2A	Scale-out workloads	1 - 48	4 - 192 GB	Ampere Altra Arm	
<input type="radio"/>	T2D	Scale-out workloads	1 - 60	4 - 240 GB	AMD EPYC Milan	
<input type="radio"/>	N1	Balanced price & performance	0.25 - 96	0.6 - 624 GB	Intel Skylake	

Machine type

Choose a machine type with preset amounts of vCPUs and memory that suit most workloads.

t2a-standard-1 (1 vCPU, 4 GB memory)



vCPU
1

Memory
4 GB

4) Change boot disk type to “New SSD persistent disk”

5) Keep the rest all default and click create

Compute Engine

Instance templates

Create instance template Refresh Create VM Create instance group

Instance templates are saved VM configurations used to create identical VMs, either individually or as part of managed instance groups. [Learn more](#)

Filter: Filter instance templates

<input type="checkbox"/>	Name ↑	Machine type	Image	Disk type	Location	Placement	Actions
<input type="checkbox"/>	my-arm-template-12351	t2a-standard-1	debian-12-bookworm-arm64-v20250415	SSD persistent disk	global	No policy	

6) Now we will create a VM from this template, for this go to the VM Instance page and click create instance

Compute Engine

VM instances

CREATE INSTANCE IMPORT VM REFRESH

INSTANCES OBSERVABILITY INSTANCE SCHEDULES

VM instances

Filter: Enter property name or value

<input type="checkbox"/>	Status	Name ↑	Zone	Recommendations	In use by	Internal IP
<input type="checkbox"/>		cat1	us-central1-a			10.128.0

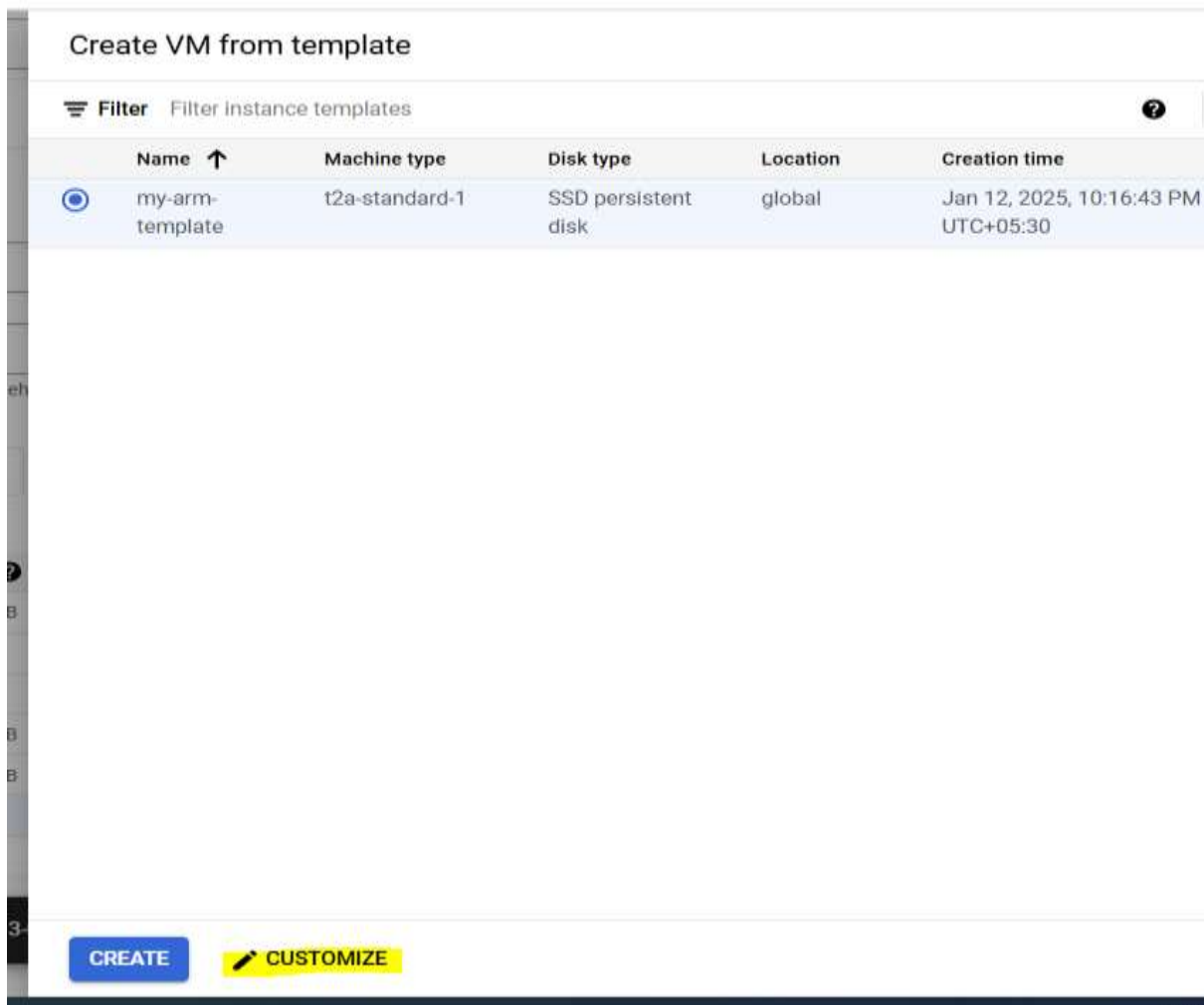
Related actions

7) Click the **Create VM from option** and select Instance templates

The screenshot shows the 'Create an instance' wizard in the Google Cloud Platform console. The left sidebar contains a list of configuration steps: Machine configuration (selected), OS and storage, Networking, Observability, Security, and Advanced. The main content area shows the 'CREATE VM FROM...' button, which is highlighted with a red box. Below this button, the 'Instance templates' option is highlighted with a yellow box. The 'Presets' section lists four options: 'Low cost' (2 vCPUs + 1 GB memory Intel or AMD), 'Web server' (2 vCPUs + 4 GB memory Intel or AMD), 'Application server' (2 vCPUs + 8 GB memory Intel), and 'In-memory database' (4 vCPUs + 8 GB memory Intel). The right sidebar shows the 'Zone' dropdown set to 'Any' and a table for selecting vCPUs and memory.

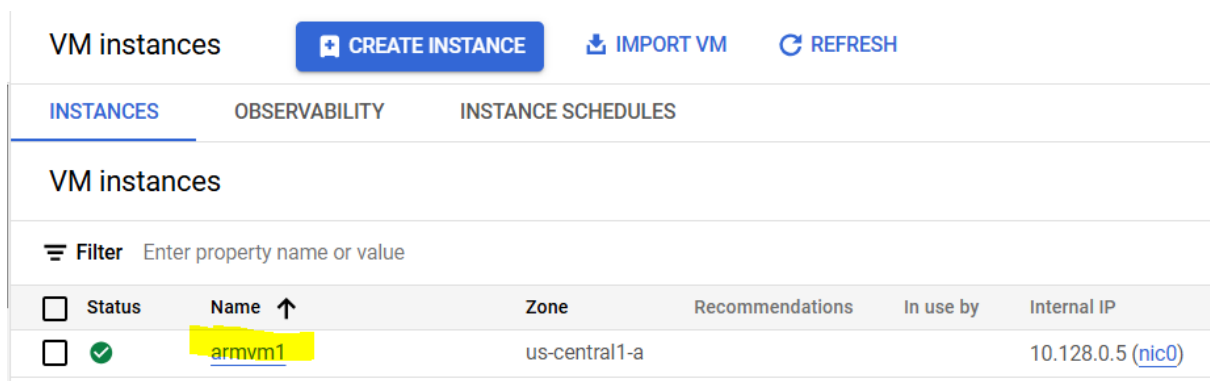
	Memory optimized	Storage optimized
Low cost	2 - 192	2 - 192
Web server	2 - 192	2 - 192
Application server	2 - 192	2 - 192
In-memory database	2 - 192	2 - 192

8) Select template which we created above and click customize



9) Update the name as per requirement, now if you check, you will find that all configurations like shape and boot volume type are the same as we selected in the template. Click create

10) VM is created as per the details we provided



11) Here, you can see that we can also establish a connection with our VM.



The image shows a web browser window titled "SSH-in-browser". The address bar contains the URL: `ssh.cloud.google.com/v2/ssh/projects/still-kit-459403-e2/zones/us-central1-a/instances/my-arm-template-20250512-042112?authuser=0...`. Below the address bar, there are icons for "UPLOAD FILE", "DOWNLOAD FILE", and a settings gear. The main content area is a terminal window with a black background and white text. The terminal output shows the Linux system information: `Linux my-arm-template-20250512-042112 6.1.0-33-cloud-arm64 #1 SMP Debian 6.1.133-1 (2025-04-10) aarch64`. This is followed by a message about Debian GNU/Linux being free software and the warranty disclaimer. The prompt `pulkit_k2711@my-arm-template-20250512-042112:~$` is shown at the bottom.

```
ssh.cloud.google.com/v2/ssh/projects/still-kit-459403-e2/zones/us-central1-a/instances/my-arm-template-20250512-042112?authuser=0...
ssh.cloud.google.com/v2/ssh/projects/still-kit-459403-e2/zones/us-central1-a/instances/my-arm-template-20250512-042112?...
SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE
Linux my-arm-template-20250512-042112 6.1.0-33-cloud-arm64 #1 SMP Debian 6.1.133-1 (2025-04-10) aarch64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
pulkit_k2711@my-arm-template-20250512-042112:~$
```