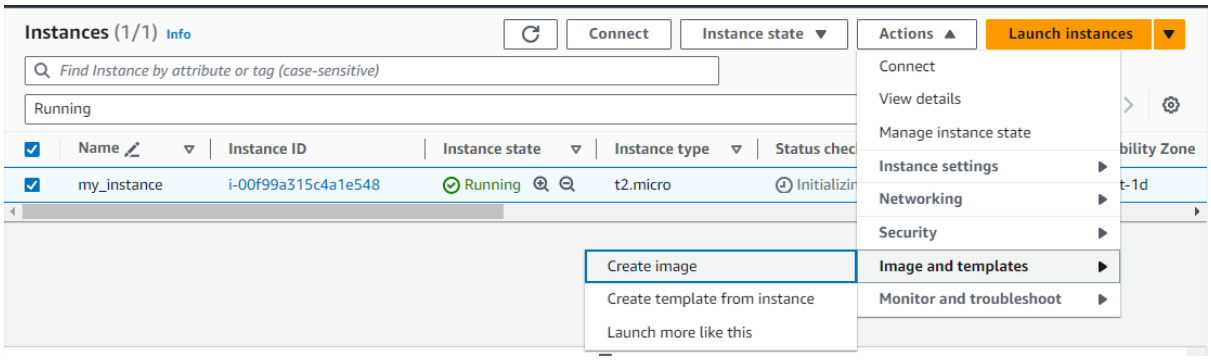
Creating Ami

(Note: we create new Ami with the help of existing instance.)

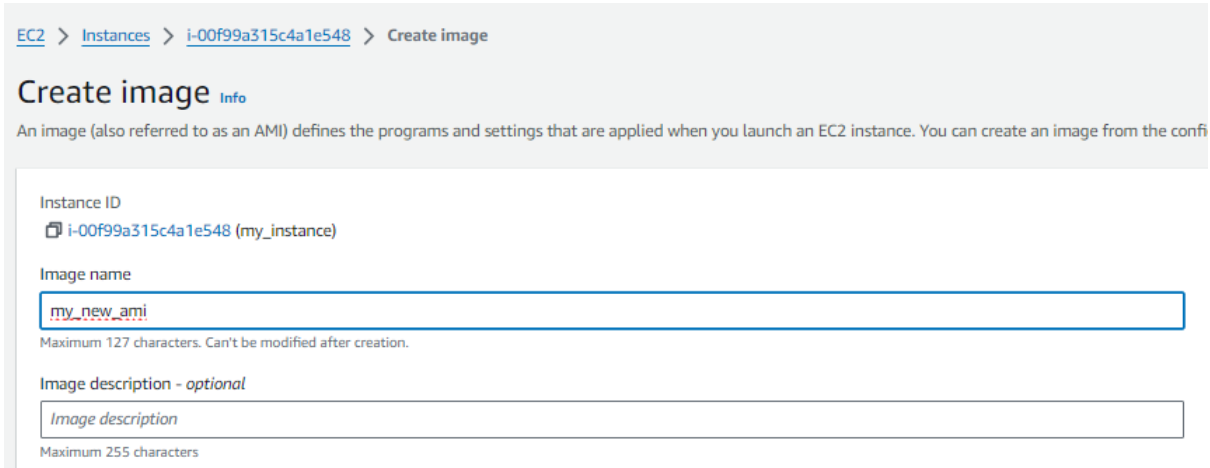
In Amazon Web Services (AWS), an AMI stands for Amazon Machine Image. It is a pre-configured virtual machine image that contains the necessary information to launch an instance, which is a virtual server in the cloud. An AMI includes an operating system, application server, and applications, along with any additional configurations required to run the desired software.

In simple word Ami means backup of existing Instance which will also help to create the new instance next time.

1. **Select the instance** which you want to create the Ami. Click on **Action** and click on **create image** option.

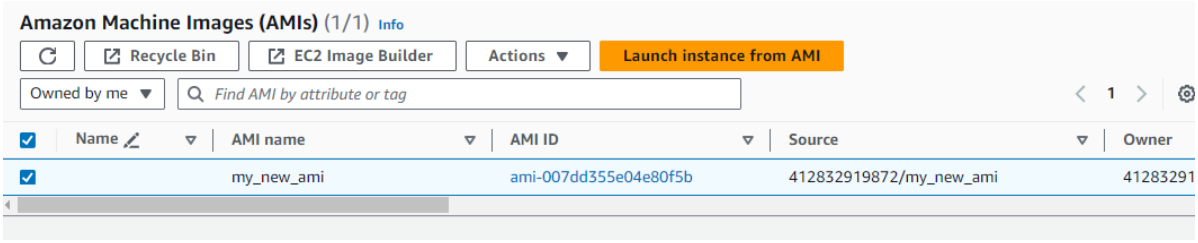


2. Give name and description as per your choice

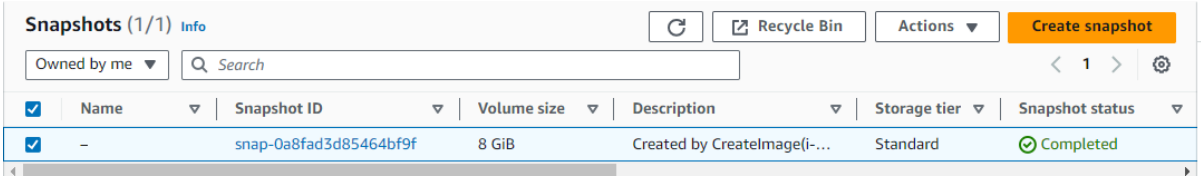


3. **Scroll down and click on create image…**

4. New Ami is successfully created
   (Ami stores the configuration or information about the instance)

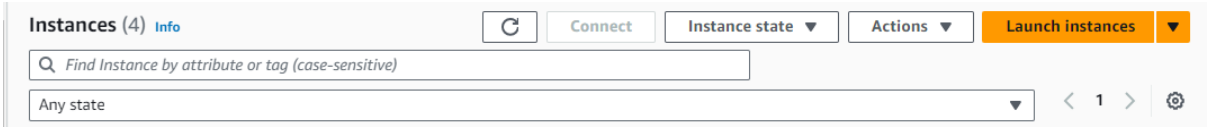


5. Snapshot of the image is also created
   (Snapshot is an actual backup of the volume or storage)

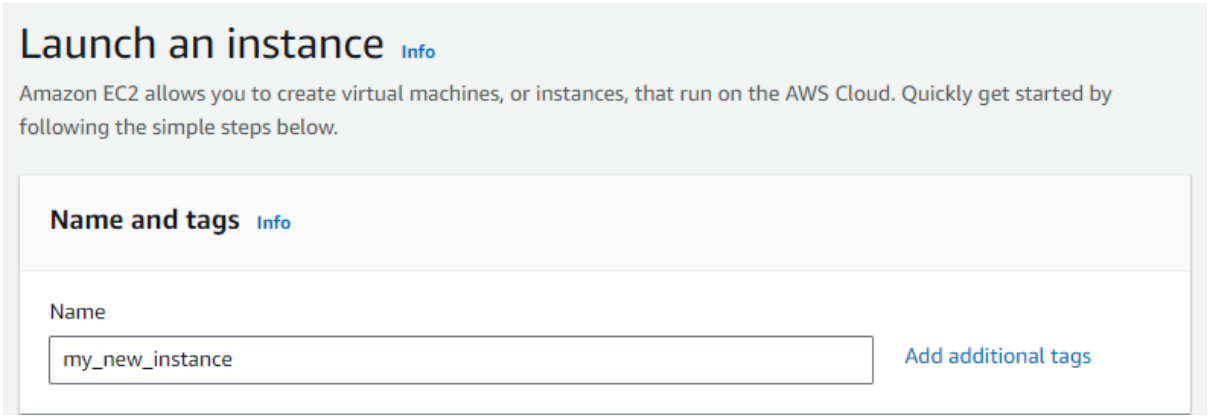


Creating Instance using Ami :-

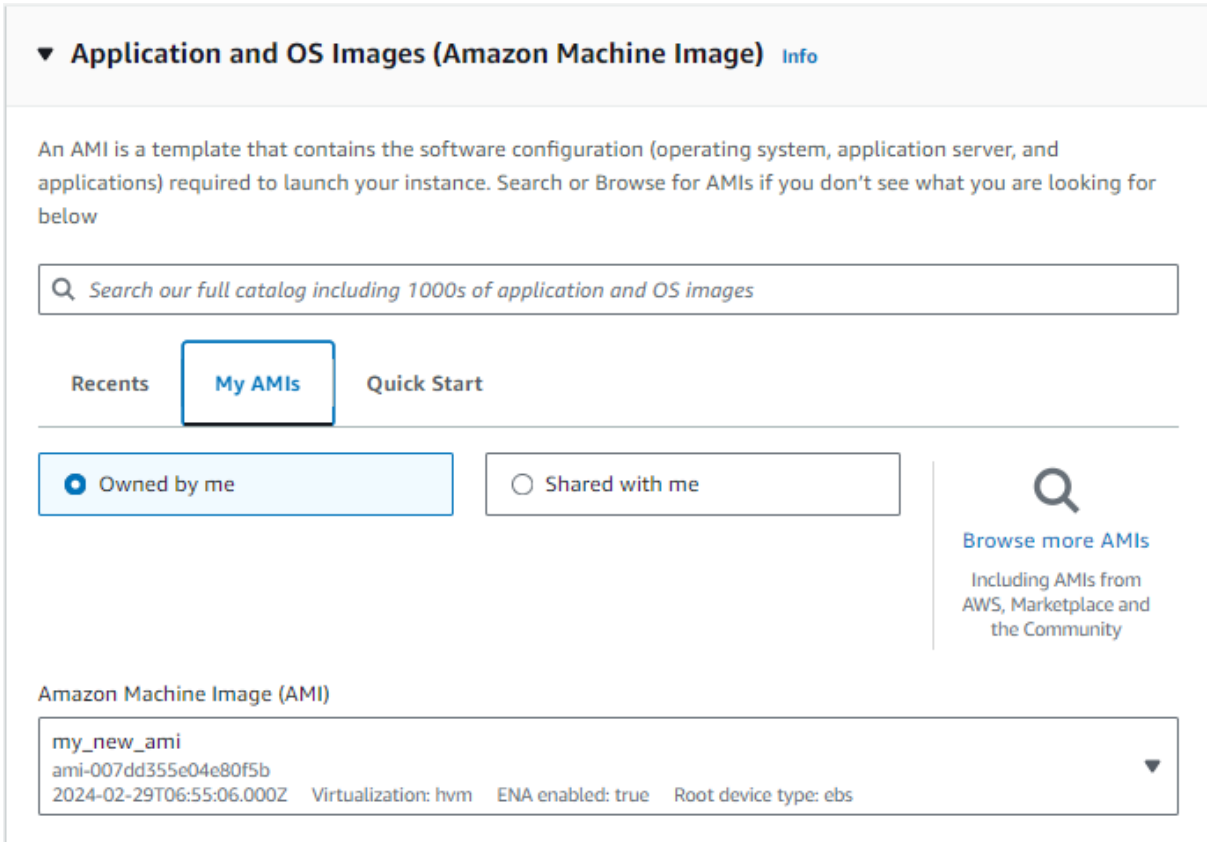
1. Click on launch instance



2. Give name as per your choice

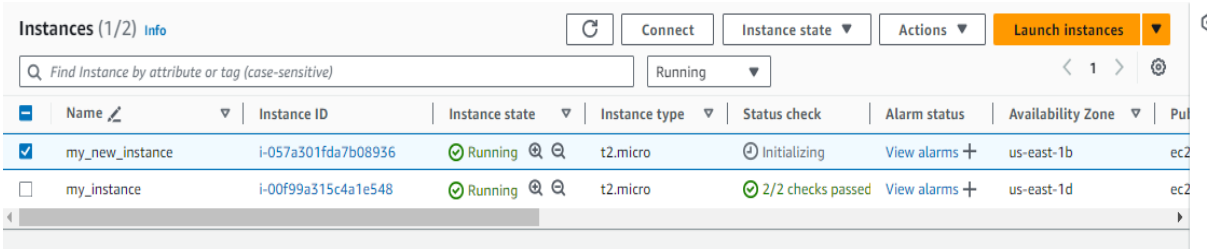


3. Select your **own Ami**

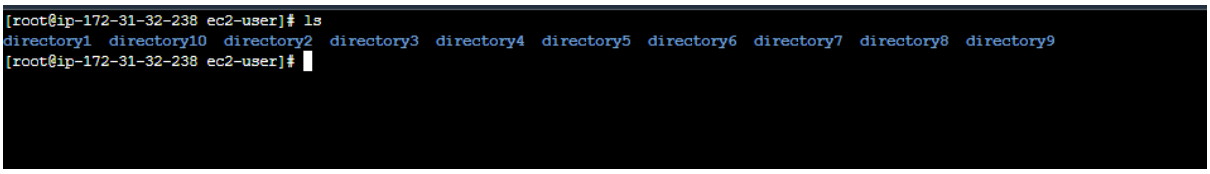


4. Select key value pairs and click on **Create instance**

5. Select newly created instance and click on **connect**

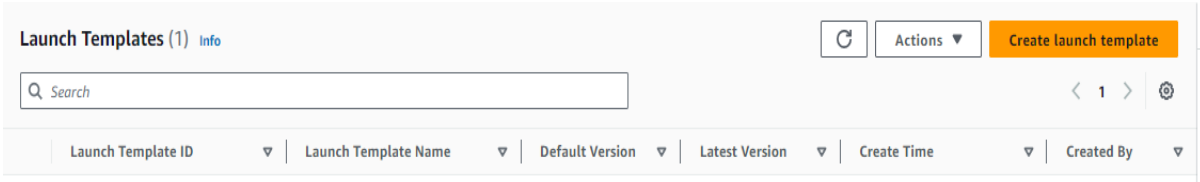


6. We can see that whatever configuration are done in **first instance** is copied in **newly created instance.**(in this case we created 10 directories)

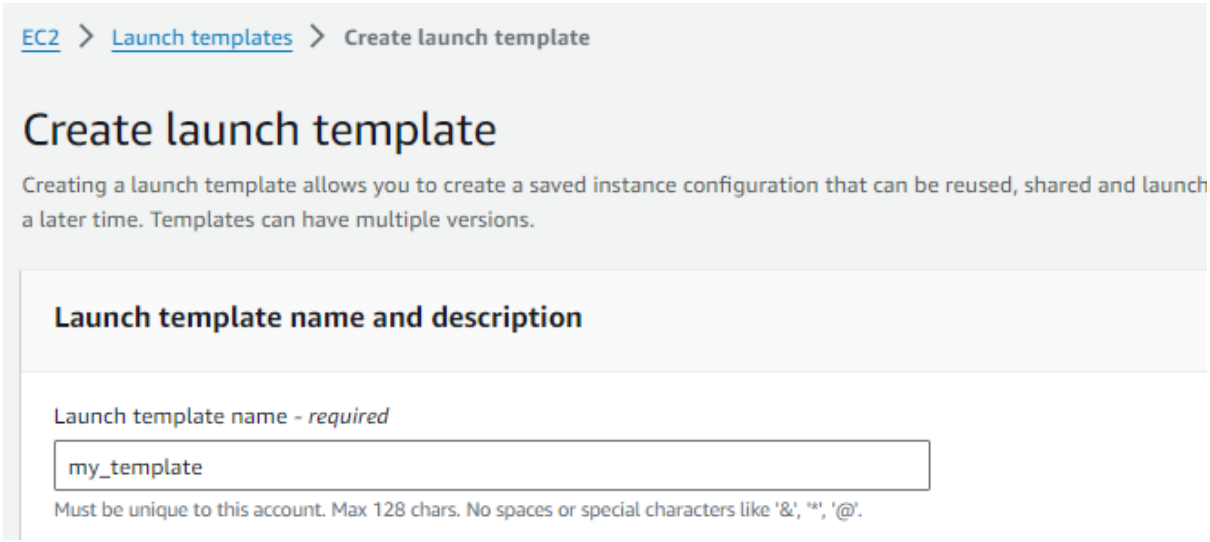


Creating Launch Templates:-

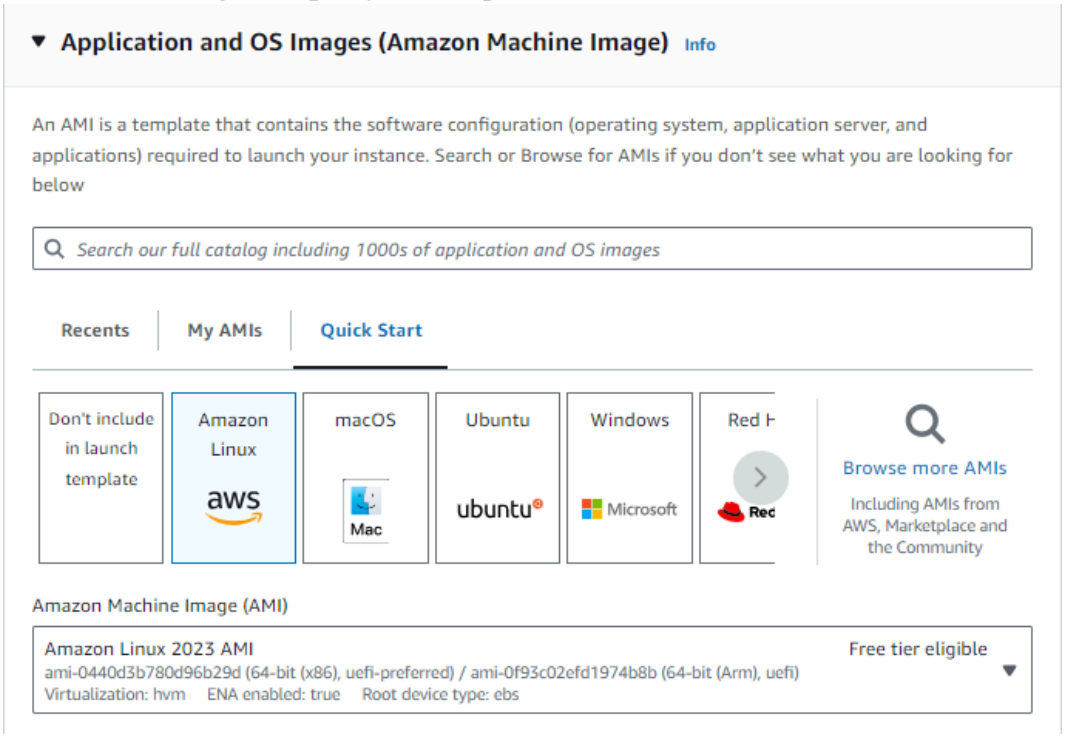
1. Click on create launch template



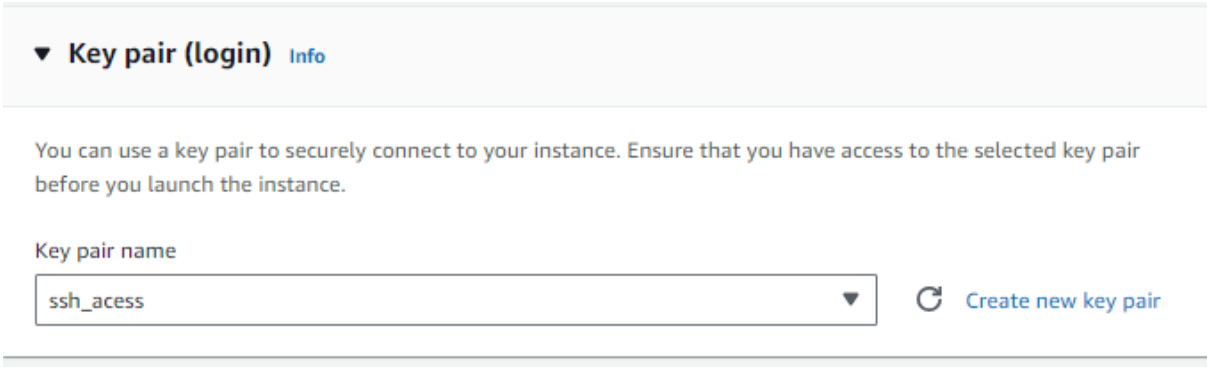
2. Specify the name as per your choice



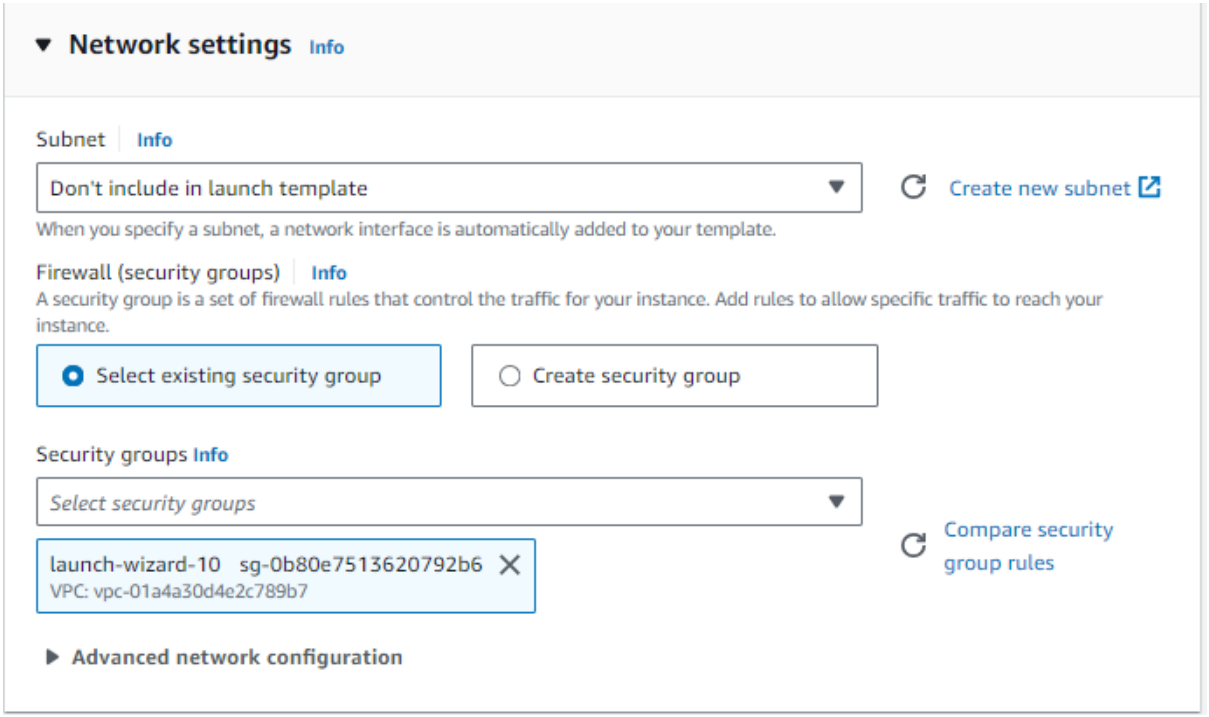
3. Select the image as per your requirement



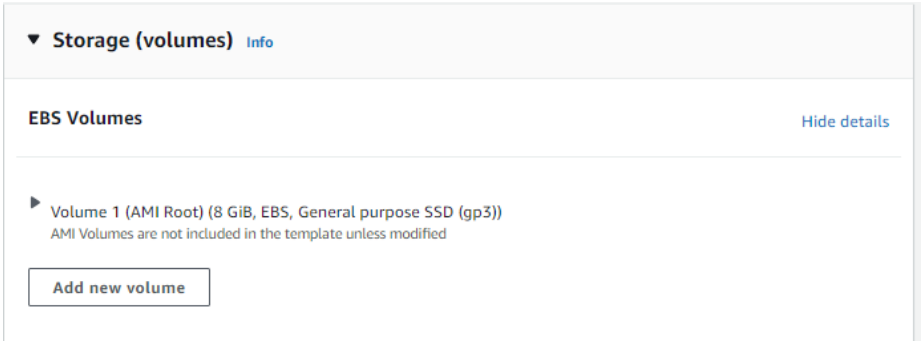
4. Select the key value pair



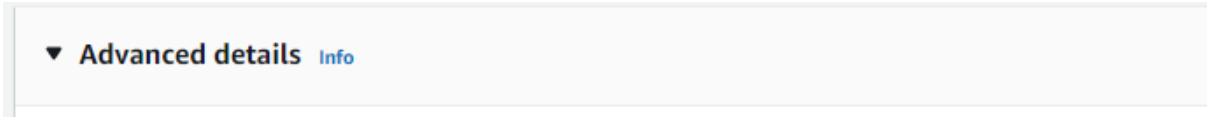
5. Select security group as per your requirement



6. Select EBS volume as per your requirement



7. Click on advance details and scroll at the end

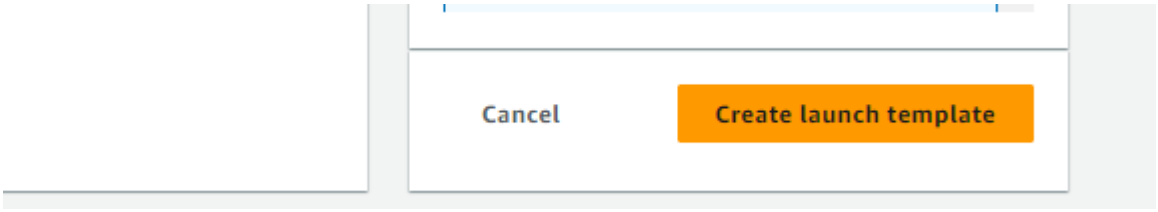


8. Add this script in user data

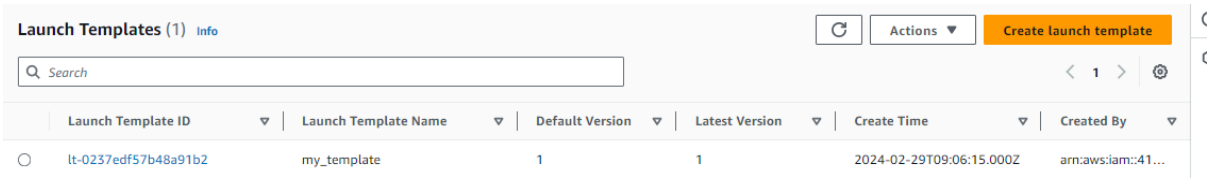
```
#!/bin/bash

sudo -i
yum install httpd -y
systemctl start httpd
systemctl enable httpd
echo "this is my website" >> /var/www/html/index.html
```

9. Click on **create launch template**

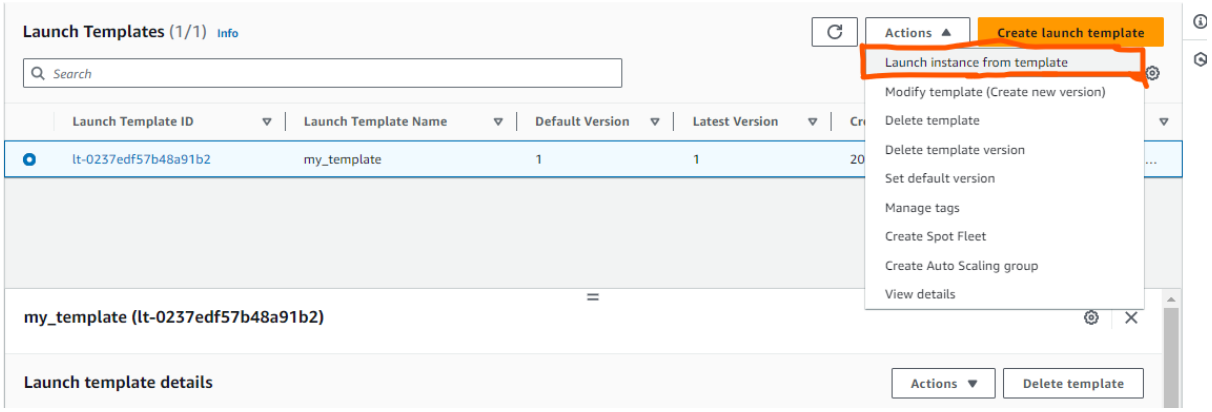


10. Template created successfully

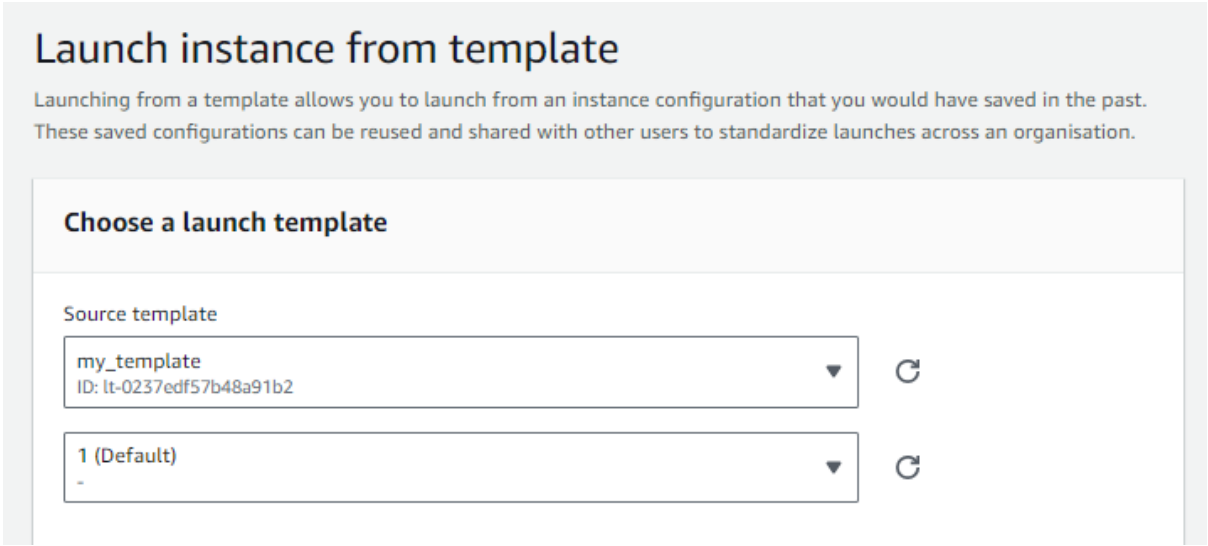


Launching Instance using template:-

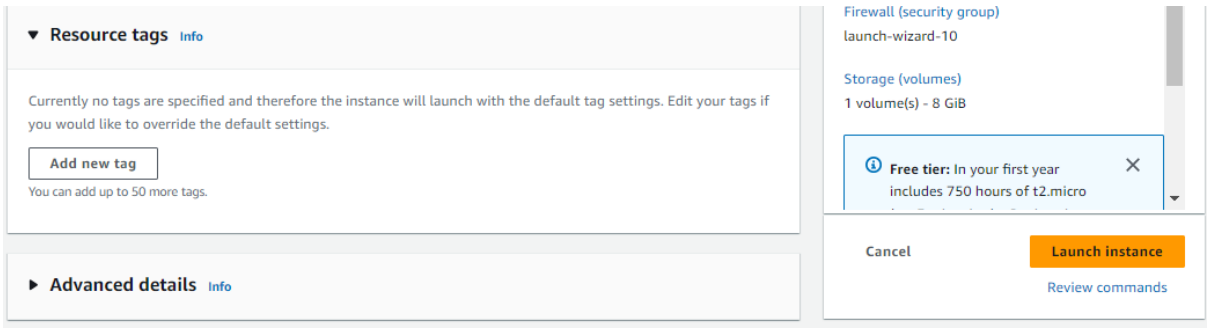
1. Select the template and click on **actions** and select **launch instance from template** option.



2. Choose the template



3. Do modification as per your requirement and click on **Launch Instance**



4. Instance created successfully in 2 steps