#### Experiment 2

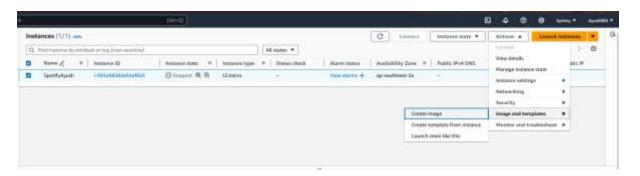
Aws solutions

Creating Scaling Policies for Amazon EC2 Auto Scaling

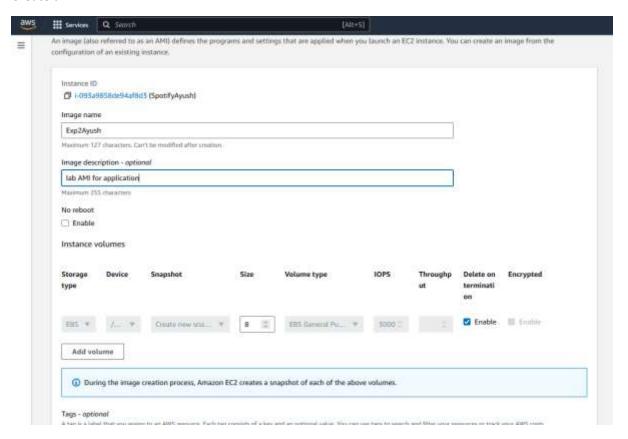
#### 22BRS1117

#### Ayush Raj

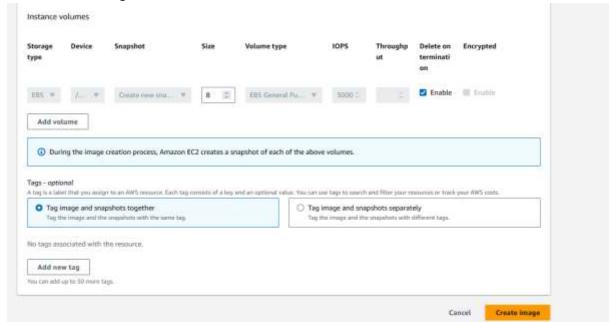
1. The first step is click on instance, then from instance, click on actions, from actions click on Image and templates, from there click on Create Image



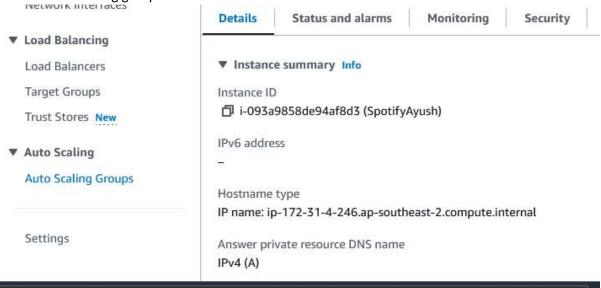
#### 2. Create an AMI



#### 3. Click on create image

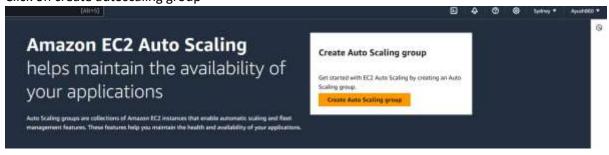


### 4. Click on auto scaling groups

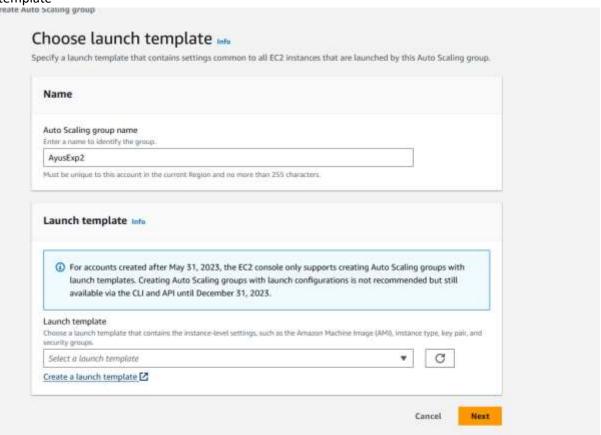


https://ap-southeast-2.console.aws.amazon.com/ec2/home?region=ap-southeast-2#AutoScalingGroups:

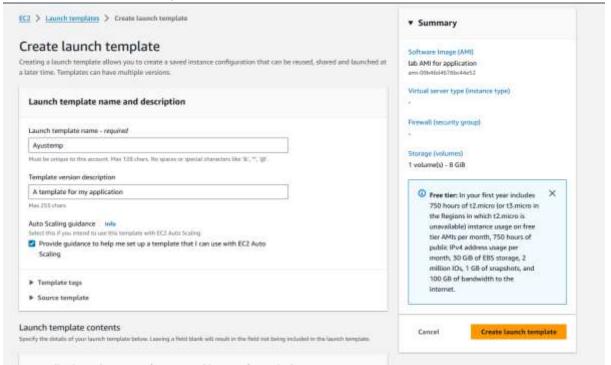
5. Click on create autoscaling group



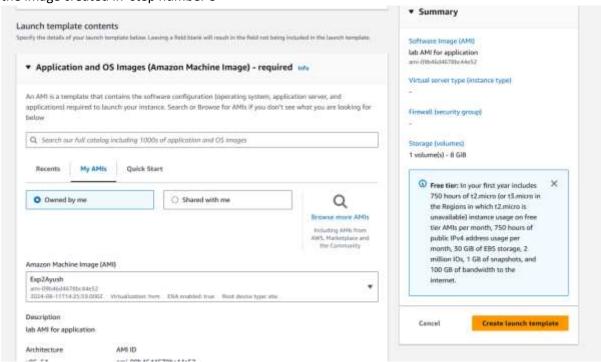
6. After this we get to see auto scaling group name and also there we have to create a launch template



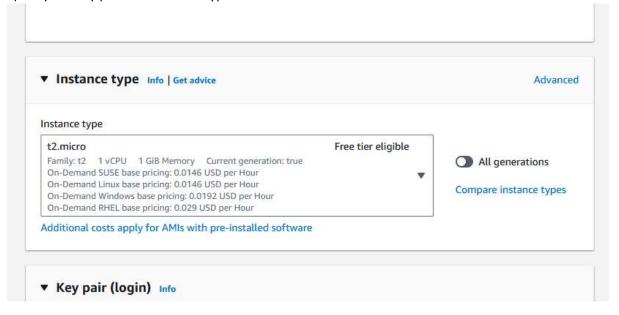
7. Click on create a launch template

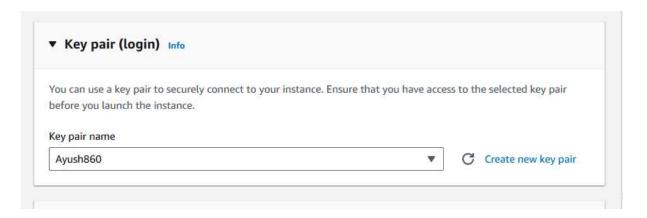


8. Give the template name and then we will be asked to specify an image ....there we will select the image created in step number 3

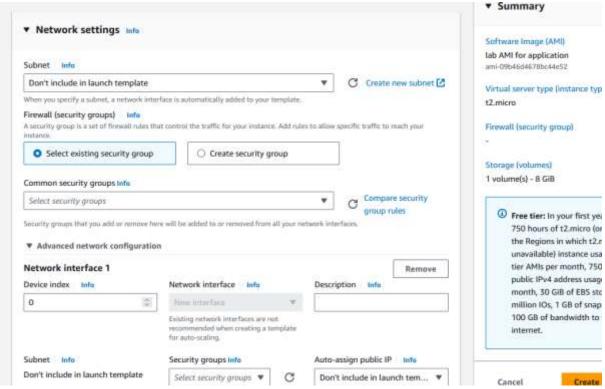


9. Specify the key pair and instance type

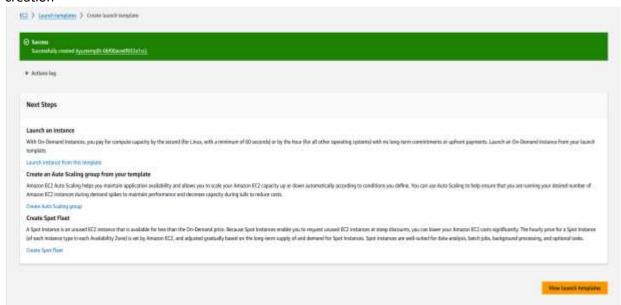




10. Further we do the network settings



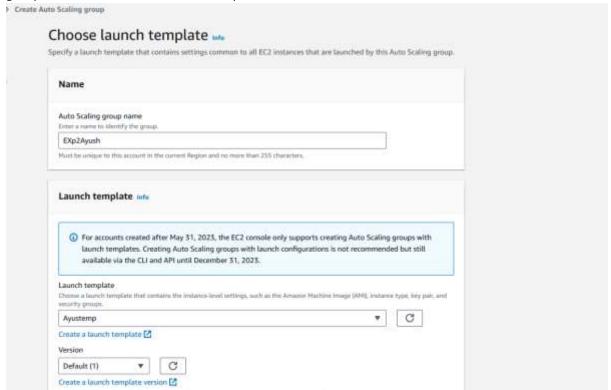
11. Now click on create launch template, after creating we will get a notification of successful creation



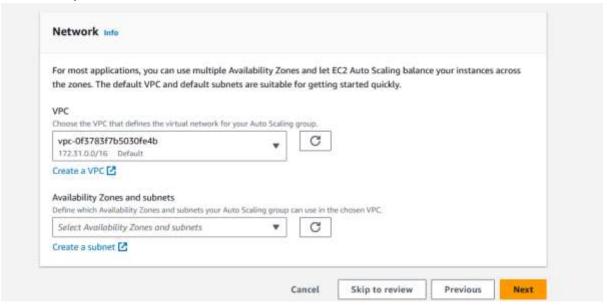
12. We can see the launch template created



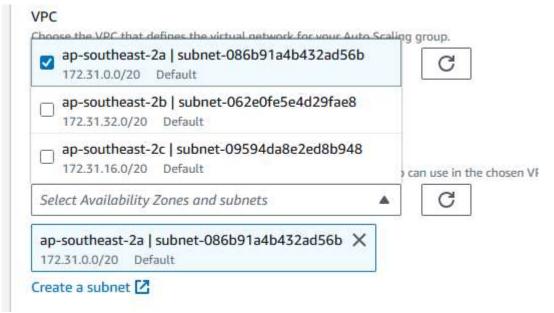
13. Now go back to create auto scaling groups there we will give a name to our auto scaling group and use the created launch template



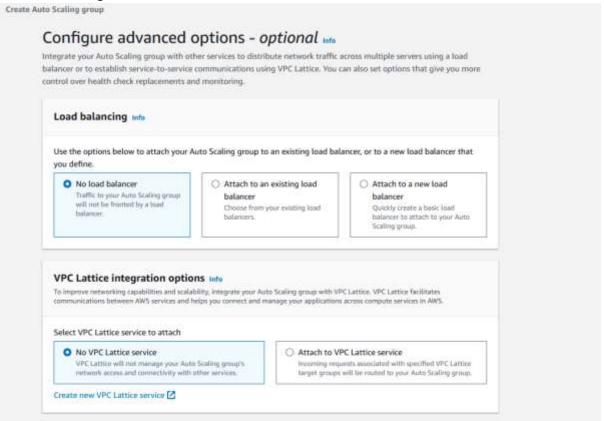
#### 14. Define the vpc and subnet zones



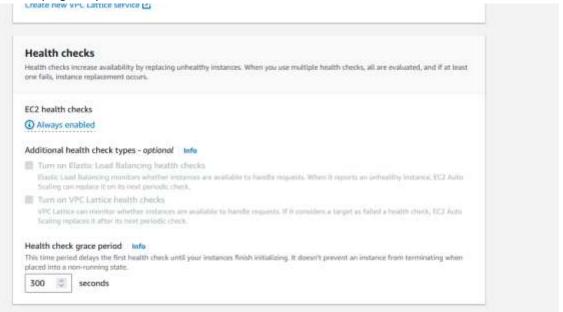
#### 15. Choose subnet zone



#### 16. Additional settings



#### 17. Health checkup, grace period



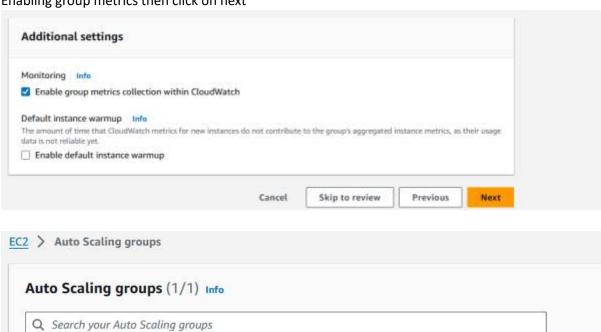
18. Enabling group metrics then click on next

✓

✓

Name

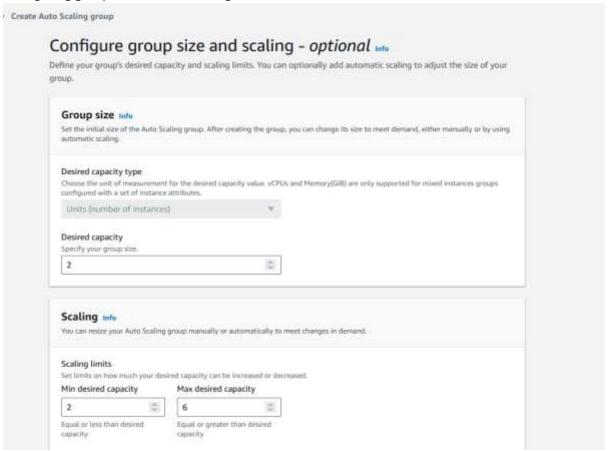
EXp2Ayush



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Ayustemp | Version Default

# 19. Configuring group size and autoscaling



<ul> <li>No scaling policies         Your Auto Scaling group will remain at its initial size and will not dynamically resize to meet demand.     </li> </ul>	<ul> <li>Target tracking scaling policy</li> <li>Choose a CloudWatch metric and target value and let the scaling policy adjust the desired capacity in proportion to the metric's value.</li> </ul>
caling policy name	
arget Tracking Policy	
etter scaling performance. Average CPU utilization	high. If using EC2 metrics, consider enabling detailed monitoring for   ▼
arget value	
60	
stance warmup   Info	
stance warmup Info	
300 seconds	
Disable scale in to create only a scale-out policy	ment events. This includes health checks, instance refreshes, maximum

# 20. Maintenance policy to nopollicy

#### Instance maintenance policy Info

Control your Auto Scaling group's availability during instance replacement events. This includes health checks, instance refreshes, maximum instance lifetime features and events that happen automatically to keep your group balanced, called rebalancing events.

#### Choose a replacement behavior depending on your availability requirements

#### Mixed behavior

#### No policy

For rebalancing events, new instances will launch before terminating others. For all other events, instances terminate and launch at the same time.

#### Prioritize availability

#### Launch before terminating

Launch new instances and wait for them to be ready before terminating others. This allows you to go above your desired capacity by a given percentage and may temporarily increase costs.

#### Control costs

# Terminate and launch

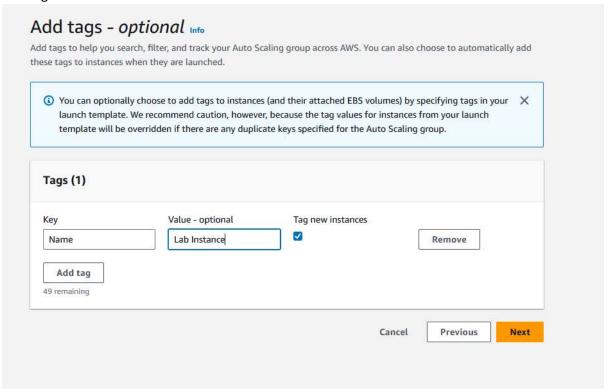
Terminate and launch instances at the same time. This allows you to go below your desired capacity by a given percentage and may temporarily reduce availability.

#### Flexible

# O Custom behavior

Set custom values for the minimum and maximum amount of available capacity. This gives you greater flexibility in setting how far below and over your desired capacity EC2 Auto Scaling goes when replacing instances.

## 21. Add tags



# 22. There will be a preview just click on next



#### 23. We saw the results

