

NAME: VATSAL MANVAR

SUBJECT: CLOUD COMPUTING

PRACTICAL: 6

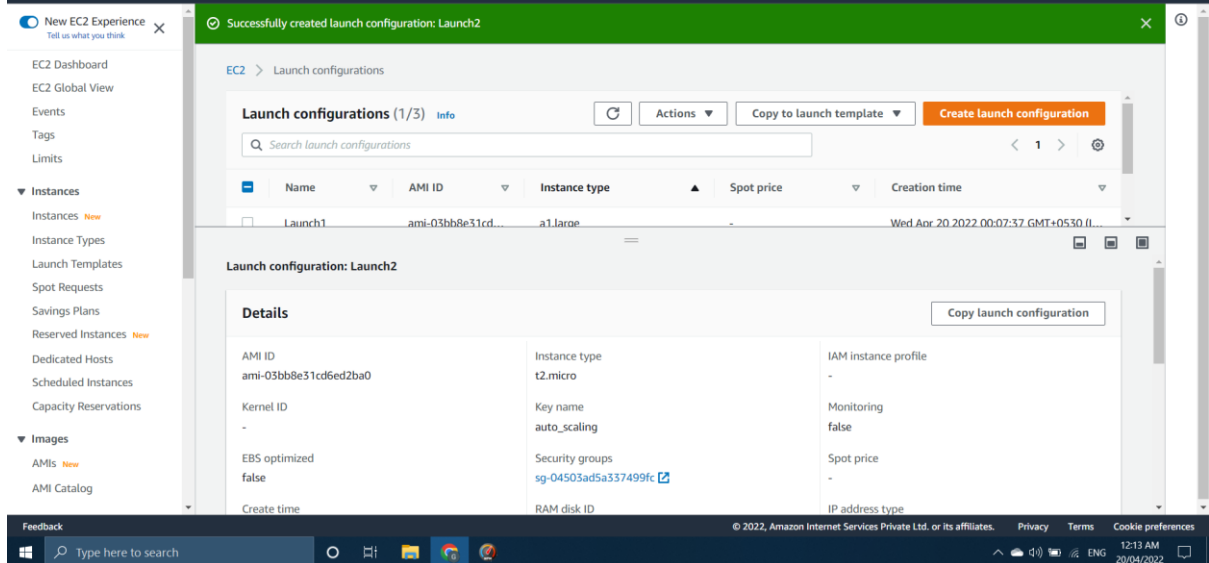
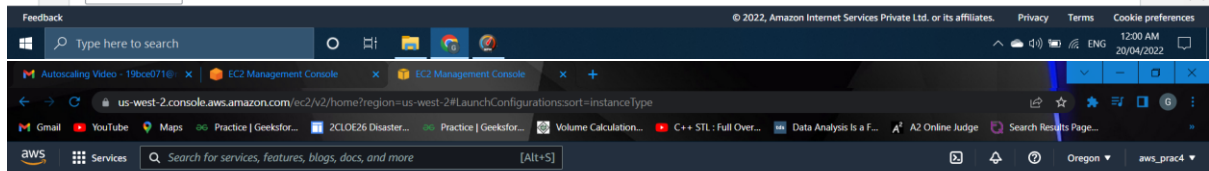
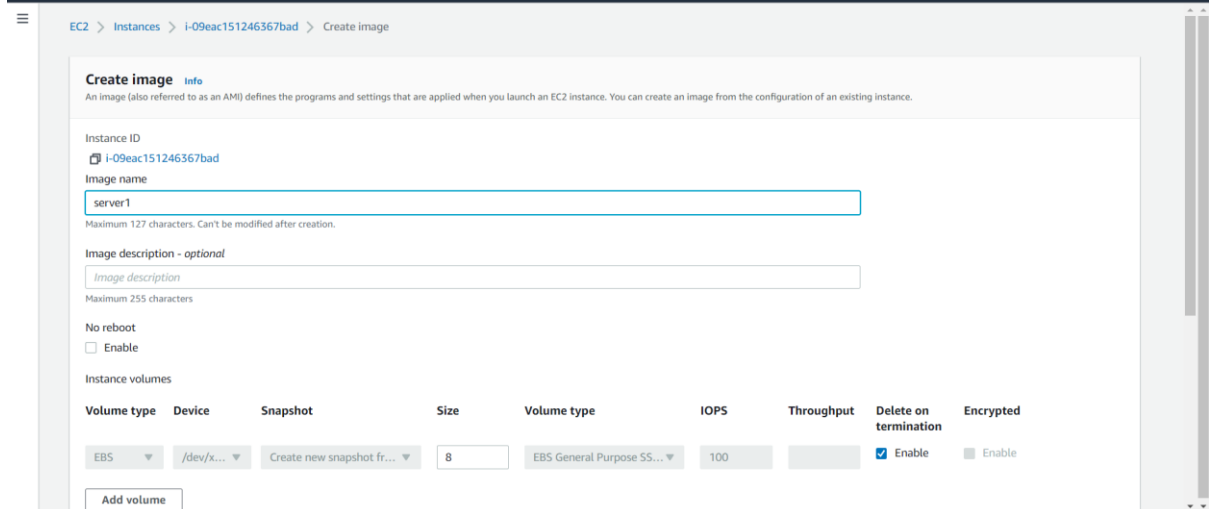
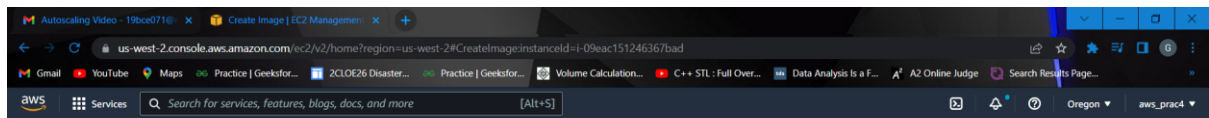
ROLL NO: 19BCE120

## AUTO SCALING

The screenshot displays the AWS Management Console interface. The top section shows the 'Create image' page for an EC2 instance. The instance ID is 'i-09eac151246367bad'. The image name is 'server1'. The image description is 'new\_server'. The instance volumes section shows a single volume of type 'EBS' with a size of '8' and a volume type of 'EBS General Purpose SS...'. The 'Delete on termination' checkbox is checked.

The bottom section shows the 'Amazon Machine Images (AMIs)' list. The table contains the following data:

Name	AMI ID	AMI name	Source	Owner	Visibility
-	ami-03bb8e31cd6ed2ba0	server1	962981917005/server1	962981917005	Private
-	ami-04c725e02b32de3a8	img-ins1	962981917005/img-ins1	962981917005	Private



Autoscaling Video - 19bc071e... x EC2 Management Console x EC2 Management Console x +

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#CreateLaunchConfiguration:

Select an existing security group

### Security groups

Copy to new View rules

Search security groups

	Security group ID	Name	VPC ID	Description
<input type="checkbox"/>	sg-0182a107ae73f9404	launch-wizard-2	vpc-046debc8790f46609	launch-wizard-2 created 2022-04-09T17:59:32.394+05:30
<input type="checkbox"/>	sg-01e66e601ceca4cd3	launch-wizard-7	vpc-046debc8790f46609	launch-wizard-7 created 2022-04-09T18:44:13.780+05:30
<input type="checkbox"/>	sg-01fd51f6a59ff1654	launch-wizard-6	vpc-046debc8790f46609	launch-wizard-6 created 2022-04-09T18:41:39.985+05:30
<input checked="" type="checkbox"/>	sg-04503ad5a337499fc	AutoScaling-Security-Group-1	vpc-046debc8790f46609	AutoScaling-Security-Group-1 (2022-04-09T13:28:14.907Z)
<input type="checkbox"/>	sg-0483d7024b8002088	launch-wizard-1	vpc-046debc8790f46609	launch-wizard-1 created 2022-04-06T10:52:04.567+05:30
<input type="checkbox"/>	sg-04cfe378f91c0859c	AutoScaling-Security-Group-2	vpc-046debc8790f46609	AutoScaling-Security-Group-2 (2022-04-19T18:35:17.839Z)
<input type="checkbox"/>	sg-0571bbc5965caf6ab	launch-wizard-4	vpc-046debc8790f46609	launch-wizard-4 created 2022-04-09T18:33:05.654+05:30

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

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Type here to search

Autoscaling Video - 19bc071e... x EC2 Management Console x EC2 Management Console x +

us-west-2.console.aws.amazon.com/ec2/autoscaling/home?region=us-west-2#/create

configuration

Step 2 Choose instance launch options

Step 3 (optional) Configure advanced options

Step 4 (optional) Configure group size and scaling policies

Step 5 (optional) Add notifications

Step 6 (optional) Add tags

Step 7 Review

### Network info

For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.

VPC

Choose the VPC that defines the virtual network for your Auto Scaling group.

vpc-046debc8790f46609  
172.31.0.0/16 Default

Create a VPC

Availability Zones and subnets

Define which Availability Zones and subnets your Auto Scaling group can use in the chosen VPC.

Select Availability Zones and subnets

us-west-2a | subnet-0540a34df693ae7c0  
172.31.16.0/20 Default

us-west-2b | subnet-0adb1ee25b795a2af  
172.31.32.0/20 Default

us-west-2c | subnet-017c1f9ebfb667766  
172.31.0.0/20 Default

us-west-2d | subnet-038b412e7507f018d  
172.31.48.0/20 Default

Create a subnet

Amazon Machine Images (AMIs) (1/3) info

Owned by me

Recycle Bin EC2 Image Builder Actions Launch instance from AMI

Search

Name	AMI ID	AMI name	Source	Owner	Visibility
Myimg001	ami-03a951eb07ba36762	Myimg001	962981917005/Myimg001	962981917005	Private
server1	ami-03a951eb07ba36762	server1	962981917005/server1	962981917005	Private
img-ins1	ami-03a951eb07ba36762	img-ins1	962981917005/img-ins1	962981917005	Private

AMI ID: ami-03a951eb07ba36762

Details Permissions Storage Tags

Property	Value
AMI ID	ami-03a951eb07ba36762
Image type	machine
Platform details	Linux/UNIX
Root device type	EBS
AMI name	Myimg001
Owner account ID	962981917005
Architecture	x86_64
Usage operation	RunInstances
Root device name	/dev/xvda
Status	Pending
Source	962981917005/Myimg001
Virtualization type	hvm

Feedback

Type here to search

us-west-2.console.aws.amazon.com/ec2autoscaling/home?region=us-west-2#/details

Services Search for services, features, blogs, docs, and more [Alt+S]

New EC2 Experience Tell us what you think

EC2 Dashboard EC2 Global View Events Tags Limits

Instances Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances New Dedicated Hosts Scheduled Instances Capacity Reservations

Images AMIs New Elastic Block Store

The old Auto Scaling groups console is no longer available. We will keep improving the new console based on your feedback.

Auto Scale your Amazon EC2 Instances Ahead of Demand Explore how the new predictive scaling policy of EC2 Auto Scaling helps you improve availability for your applications. Learn More

EC2 > Auto Scaling groups

Auto Scaling groups (2) Edit Delete Create an Auto Scaling group

Search your Auto Scaling groups

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availability
LaunchAuto1	launch	1	-	1	1	1	us-west-
autoscalinggp...	launch	1	-	1	1	2	us-west-

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchConfigurations:

Successfully created launch configuration: Newconfiguration

EC2 > Launch configurations

Launch configurations (4) Info

Search launch configurations

	Name	AMI ID	Instance type	Spot price	Creation time
<input type="checkbox"/>	Newconfiguration	ami-03a951eb07...	t2.micro	-	Wed Apr 20 2022 08:36:26 GMT+0530 (Indi...
<input type="checkbox"/>	Launch2	ami-03bb8e31cd...	t2.micro	-	Wed Apr 20 2022 00:13:05 GMT+0530 (Indi...
<input type="checkbox"/>	Launch1	ami-03bb8e31cd...	a1.large	-	Wed Apr 20 2022 00:07:37 GMT+0530 (Indi...
<input type="checkbox"/>	launch	ami-04c725e02b...	t2.micro	-	Sat Apr 09 2022 19:01:53 GMT+0530 (India...

Select a launch configuration above

Instance scale-in protection

Instance scale-in protection

☐ Enable instance protection from scale in

Step 5: Add notifications Edit

Notifications

No notifications

Step 6: Add tags Edit

Tags (0)

Key	Value	Tag new instances
No tags		

Cancel Create Auto Scaling group

Step 5 (optional)  
Add notifications

Step 6 (optional)  
Add tags

Step 7  
Review

### Step 2: Choose instance launch options

Network

VPC  
vpc-046debc8790f46609

Availability Zone	Subnet	
us-west-2a	subnet-0540a34df693ae7c0	172.31.16.0/20
us-west-2b	subnet-0adb1ee25b795a2af	172.31.32.0/20
us-west-2c	subnet-017c1f9ebfb667766	172.31.0.0/20
us-west-2d	subnet-038b412e7507f018d	172.31.48.0/20

### Step 3: Configure advanced options

Load balancing

Instances (1/8) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D...
-	i-061cd43087f73994	Running	t2.micro	2/2 checks passed	No alarms	us-west-2a	ec2-54-191-94...
Server	i-038dadb6696c6438d	Running	t2.micro	2/2 checks passed	No alarms	us-west-2c	ec2-34-214-21...
-	i-04d40c4f0655a81d8	Stopped	t2.micro	-	No alarms	us-west-2c	-
-	i-0a26cdda0d3fbd3e3	Stopped	t2.micro	-	No alarms	us-west-2c	-

#### Instance: i-038dadb6696c6438d (Server)

Percent

Count

Count

Count

Count

Network in (bytes)

Network out (by...)

Network packets in (count)

Network packets out (count)