

Lab Assignment-8

ECSE373L: Cloud Infrastructure and Services

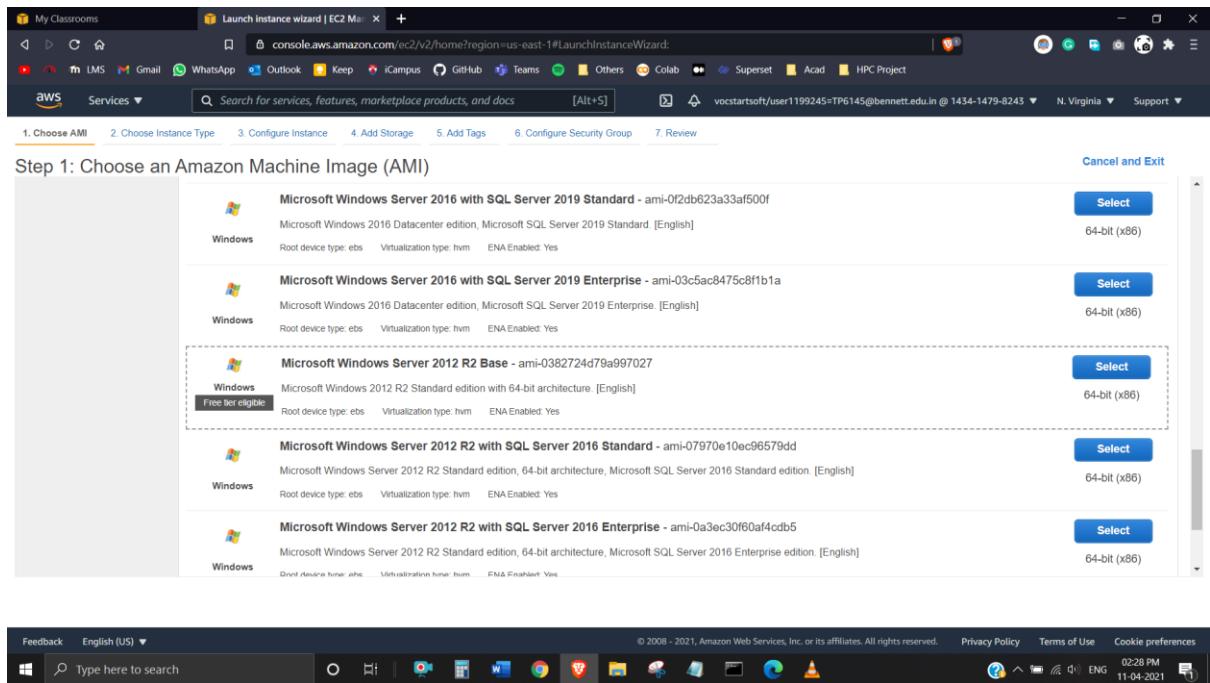
Name: Tanvi Penumudy

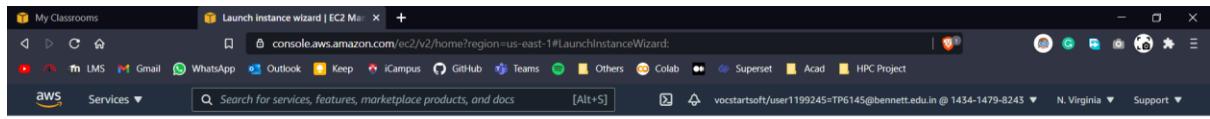
Enroll no: E18CSE187

Batch: EB02

AWS Educate Console Name: vocstartsoft/user1199245=TP6145@bennett.edu.in

Lab Implementations (Step-by-Step):





Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances Launch into Auto Scaling Group

Purchasing option Request Spot Instances

Network Subnet

Auto-assign Public IP Enable

Placement group Add Instance to placement group

Capacity Reservation

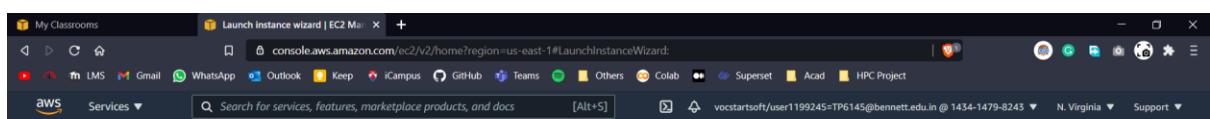
Domain join directory

IAM role

Shutdown behavior

Stop - Hibernate behavior Enable hibernation as an additional stop behavior

Enable termination protection Protect against accidental termination



Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group

Select an existing security group

Security group name:

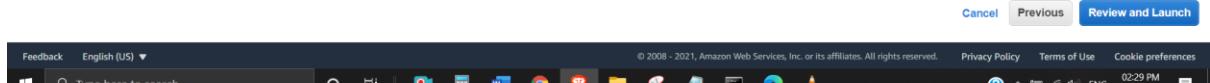
E18CSE187Lab8

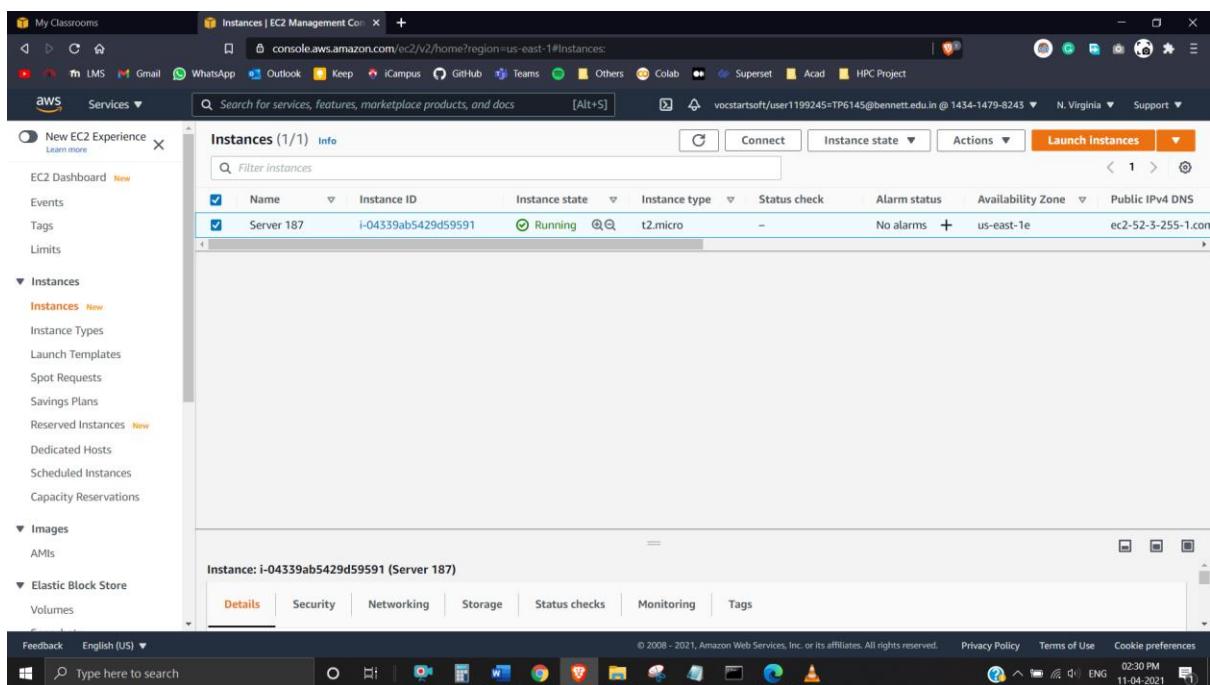
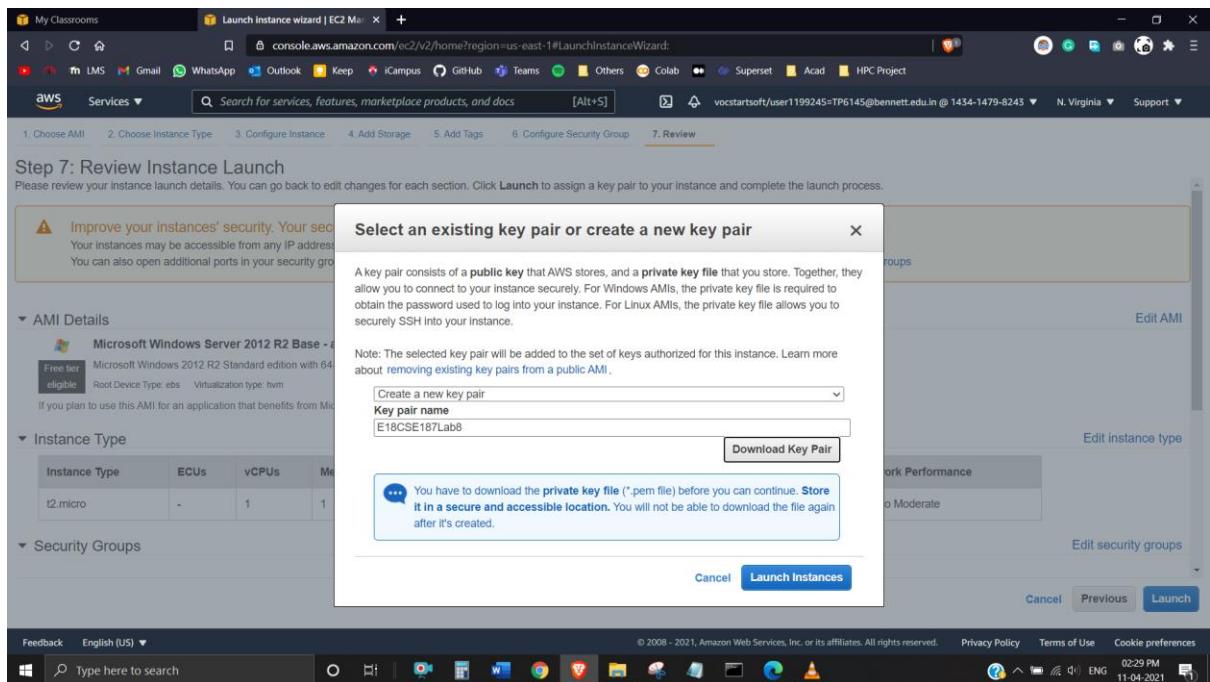
Description: launch-wizard-1 created 2021-04-11T14:27:49.000+05:30

Type	Protocol	Port Range	Source	Description
RDP	TCP	3389	Anywhere	0.0.0.0/0, ::/0 e.g. SSH for Admin Desktop
HTTP	TCP	80	Anywhere	0.0.0.0/0, ::/0 e.g. SSH for Admin Desktop

Warning

Rules with source of 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.





My Classrooms Create Image | EC2 Management

console.aws.amazon.com/ec2/v2/home?region=us-east-1#CreateImage:instanceId=i-04339ab5429d59591

Services ▾

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EC2 Instances i-04339ab5429d59591 Create image

Create image Info

An image (also referred to as an AMI) defines the programs and settings that are applied when you launch an EC2 instance. You can create an image from the configuration of an existing instance.

Instance ID **i-04339ab5429d59591** (Server 187)

Image name **ImageE18CSE187Lab8**

Maximum 127 characters. Can't be modified after creation.

Image description - optional **Creating an AMI of EC2**

Maximum 255 characters

No reboot Enable

Instance volumes

Volume type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted
EBS	/dev/s...	Create new snapshot fr...	30	EBS General Purpose S5...	100		<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable

Add volume

Feedback English (US) ▾

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My Classrooms Instances | EC2 Management Con

console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:

New EC2 Experience Learn more

EC2 Dashboard 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

Elastic Block Store Volumes

Successfully created ami-0b3b25cde2b6ce0fc from instance i-04339ab5429d59591.

Instances (1/1) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Server 187	i-04339ab5429d59591	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1e	ec2-52-3-255-1.com

Details Security Networking Storage Status checks Monitoring Tags

Feedback English (US) ▾

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My Classrooms AMIs | EC2 Management Console

console.aws.amazon.com/ec2/v2/home?region=us-east-1#Images:sort=name

New EC2 Experience Learn more

EC2 Dashboard **New**

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

Elastic Block Store

- Volumes
- Snapshots **Snapshots**
- Lifecycle Manager

Feedback English (US) ▾

Search Type here to search

AMI Name: ImageE18CSE187Lab8

AMI ID: ami-0b3b25cde2b6ce0fc

Owner: 143414798243

Status: pending

Source: 143414798243/ImageE18CSE187Lab8

State Reason: -

Details Permissions Tags

Edit

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The screenshot shows the AWS EC2 Management Console. On the left, there's a navigation sidebar with links for My Classrooms, EC2 Dashboard, Instances, Images, and other services like LMS, Gmail, WhatsApp, etc. The main area is titled 'AMIs | EC2 Management Console' and shows a table of AMIs. One row is selected, showing details: Name: ImageE18CSE187Lab8, AMI ID: ami-0b3b25cde2b6ce0fc, Owner: 143414798243, Status: pending, Source: 143414798243/ImageE18CSE187Lab8. Below the table, there's a modal window for the selected AMI, displaying its details, permissions, and tags. The bottom of the screen shows the Windows taskbar with various pinned icons.

My Classrooms Snapshots | EC2 Management Console

console.aws.amazon.com/ec2/v2/home?region=us-east-1#Snapshots:sort=snapshotId

New EC2 Experience Learn more

EC2 Dashboard **New**

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

Elastic Block Store

- Volumes
- Snapshots **Snapshots**
- Lifecycle Manager

Feedback English (US) ▾

Search Type here to search

Snapshot ID: snap-0646dc39f3feef01

Size: 30 GiB

Description: Created by CreateImage(i-04339ab5429d59591) for ami-0b3b2...

Status: completed

Started: April 11, 2021 at 2:37:05 PM UTC+5:30

Progress: 100%

Capacity: 30 GiB

Encryption: Not Encrypted

KMS Key ID:

Details Permissions Tags

Feedback English (US) ▾

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The screenshot shows the AWS EC2 Management Console. The left sidebar includes 'My Classrooms', 'EC2 Dashboard', 'Instances', 'Images', and 'Elastic Block Store' sections. The main area is titled 'Snapshots | EC2 Management Console'. It displays a table of snapshots, with one entry highlighted: Snapshot ID: snap-0646dc39f3feef01, Size: 30 GiB, Description: Created by CreateImage(i-04339ab5429d59591) for ami-0b3b2..., Status: completed, Started: April 11, 2021 at 2:37:05 PM UTC+5:30, Progress: 100%. A modal window for this snapshot is open, showing its details, permissions, and tags. The bottom of the screen features the Windows taskbar.

My Classrooms AMIs | EC2 Management Console

console.aws.amazon.com/ec2/v2/home?region=us-east-1#images:sort=name

AWS Services

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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

- Volumes
- Snapshots
- Lifecycle Manager

Network & Security

- Security Groups **New**
- CloudWatch Metrics

Feedback English (US)

Type here to search

Image: ami-0b3b25cde2b6ce0fc

Details Permissions Tags

AMI ID: ami-0b3b25cde2b6ce0fc Owner: 143414798243 Status: available

AMI Name: ImageE18CSE187Lab8 Source: 143414798243/ImageE18CSE187Lab8 State Reason: -

Edit

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The screenshot shows the AWS EC2 Management Console. On the left, there's a sidebar with navigation links like Instances, Images, and Network & Security. The main area displays a table of AMIs, with one row selected. A modal window is open over the table, showing detailed information about the selected AMI ('Image: ami-0b3b25cde2b6ce0fc'). The modal includes tabs for Details, Permissions, and Tags. Below the table, there's a message about the AMI being a template for software configuration. At the bottom, there's a navigation bar with links for Feedback, English (US), and various system status icons.

My Classrooms Launch Instance wizard | EC2 Management Console

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:ami=ami-0b3b25cde2b6ce0fc

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review Cancel and Exit

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Q ami-0b3b25cde2b6ce0fc

Search by Systems Manager parameter

Quick Start (0)

My AMIs (1)

- ImageE18CSE187Lab8 - ami-0b3b25cde2b6ce0fc

Creating an AMI of EC2

Root device type: ebs Virtualization type: fvm Owner: 143414798243 ENA Enabled: Yes

Select 64-bit (x86)

The following results for "ami-0b3b25cde2b6ce0fc" were found in other catalogs:

- 5039 results in AWS Marketplace

AWS Marketplace provides partnered Software that is pre-configured to run on AWS

Feedback English (US)

Type here to search

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The screenshot shows the 'Launch Instance wizard' step 1: 'Choose an AMI'. It lists the user's own AMI ('ImageE18CSE187Lab8') and many results from the AWS Marketplace. The user's AMI is highlighted with a dashed border. A 'Select' button is visible next to the Marketplace results. Below the list, it says 'The following results for "ami-0b3b25cde2b6ce0fc" were found in other catalogs:' followed by a link to the AWS Marketplace. At the bottom, there's a navigation bar with links for Feedback, English (US), and various system status icons.

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Family	Type	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance	IPv6 Support
t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/> t2	<input checked="" type="checkbox"/> t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/> t2	<input type="checkbox"/> t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/> t2	<input type="checkbox"/> t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/> t2	<input type="checkbox"/> t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/> t2	<input type="checkbox"/> t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/> t2	<input type="checkbox"/> t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/> t3	<input type="checkbox"/> t3.nano	2	0.5	EBS only	Yes	Up to 5 Gbps	Yes

Filter by: All instance families **Current generation** **Show/Hide Columns**

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, ~ 1 GiB memory, EBS only)

Cancel **Previous** **Review and Launch** **Next: Configure Instance Details**

Feedback English (US) ▾

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Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group Select an existing security group

Security Group ID	Name	Description	Actions
<input type="checkbox"/> sg-f72047ff	default	default VPC security group	Copy to new
<input checked="" type="checkbox"/> sg-0ab9d0012b1b57b4b	E18CSE187Lab8	launch-wizard-1 created 2021-04-11T14:27:49.000+05:30	Copy to new

Inbound rules for sg-0ab9d0012b1b57b4b (Selected security groups: sg-0ab9d0012b1b57b4b)

Type	Protocol	Port Range	Source	Description
HTTP	TCP	80	0.0.0.0/0	
HTTP	TCP	80	::/0	
RDP	TCP	3389	0.0.0.0/0	

Cancel **Previous** **Review and Launch**

Feedback English (US) ▾

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Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Choose an existing key pair
Select a key pair
E18CSE187Lab8

I acknowledge that I have access to the selected private key file (E18CSE187Lab8.pem), and that without this file, I won't be able to log into my instance.

Launch Instances

Successfully created ami-0b3b25cde2b6ce0fc from instance i-04339ab5429d59591.

Instances (2) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Server 187	i-04339ab5429d59591	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1e	ec2-52-5-255-1.cor
Extra Server 187	i-0ff7e86203480b8e2	Running	t2.micro	-	No alarms +	us-east-1e	ec2-54-236-51-226

Select an instance above

My Classrooms EC2 Management Console

console.aws.amazon.com/ec2autoscaling/home?region=us-east-1#lc/create

Services ▾

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EC2 > Launch configurations > Create launch configuration

Create launch configuration Info

Launch configuration name

Name

Amazon machine image (AMI) Info

AMI

Instance type Info

Instance type

Feedback English (US) ▾

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console.aws.amazon.com/ec2autoscaling/home?region=us-east-1#lc/create

Services ▾

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Instance type Info

Instance type

Additional configuration - optional

Purchasing option Info
 Request Spot Instances

IAM instance profile Info

Monitoring Info
 Enable EC2 instance detailed monitoring within CloudWatch

EBS-optimized instance
 Launch as EBS-optimized instance

► Advanced details

Later, if you want to use a different launch configuration, you can create a new one and apply it to any Auto Scaling group. Existing launch configurations

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My Classrooms EC2 Management Console

console.aws.amazon.com/ec2autoscaling/home?region=us-east-1#lc/create

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Advanced details

Later, if you want to use a different launch configuration, you can create a new one and apply it to any Auto Scaling group. Existing launch configurations cannot be edited.

Storage (volumes) Info

EBS volumes

Volume type	Devices	Snapshot	Size (GiB)	Volume type
Root	/dev/sda1	snap-0646dc39f3feef01	30	General purpose SSD (c)

+ Add new volume

Free tier eligible customers can get up to 30 GB of EBS storage. Learn more about free usage tier eligibility and usage restrictions.

Security groups Info

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Free tier eligible customers can get up to 30 GB of EBS storage. Learn more about free usage tier eligibility and usage restrictions.

Security groups Info

Assign a security group

Create a new security group
 Select an existing security group

Security groups

Copy to new View rules

Search security groups

Security group ID	Name	VPC ID	Description
sg-0ab9d0012b1b57b4b	E18CSE187Lab8	vpc-1ef35563	launch-wizard-1 created 2021-04-11T14:27:49.000+05:30
sg-f72047ff	default	vpc-1ef35563	default VPC security group

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.

Feedback English (US) ▾

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console.aws.amazon.com/ec2autoscaling/home?region=us-east-1#/lc/create

LMS Gmail WhatsApp Outlook Keep iCampus GitHub Teams Others Colab Superset Acad HPC Project

Services

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Security group ID Name VPC ID Description

<input checked="" type="checkbox"/> sg-0ab9d0012b1b57b4b	E18CSE187Lab8	vpc-1ef35563	launch-wizard-1 created 2021-04-11T14:27:49.000+05:30
<input type="checkbox"/> sg-f72047ff	default	vpc-1ef35563	default VPC security group

⚠ 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.

Key pair (login) Info

Key pair options Choose an existing key pair

Existing key pair E18CSE187Lab8

I acknowledge that I have access to the selected private key file (E18CSE187Lab8.pem), and that without this file, I won't be able to log into my instance.

Cancel Create launch configuration

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console.aws.amazon.com/ec2autoscaling/home?region=us-east-1#/lc

LMS Gmail WhatsApp Outlook Keep iCampus GitHub Teams Others Colab Superset Acad HPC Project

New EC2 Experience Tell us what you think

EC2 Dashboard New

Events New

Tags

Limits

INSTANCES

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

IMAGES

- AMIs

ELASTIC BLOCK STORE

- Volumes

Successfully created launch configuration: E18CSE187Lab8

EC2 > Launch configurations

Launch configurations (1) Info

Name	AMI ID	Instance type	Spot price	Creation time
E18CSE187Lab8	ami-0b3b25cde2...	t2.micro	-	Sun Apr 11 2021 14:47:32 GMT+0530 (India Standard Time)

Feedback English (US) ▾

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My Classrooms EC2 Management Console

console.aws.amazon.com/ec2autoscaling/home?region=us-east-1#/lc?launchConfigurationName=E18CSE187Lab8

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EC2 Services

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Successfully created launch configuration: E18CSE187Lab8

EC2 Launch configurations

Launch configurations (1/1) Info Actions Copy to launch template Create launch configuration

Search launch configurations

Name AMI ID Instance type Spot price Creation time

E18CSE187Lab8 ami-0b3b25cde2b6ce0fc t2.micro - Sun Apr 11 2021 14:47:32 GMT+0530 (India Standard Time)

Launch configuration: E18CSE187Lab8

Details Copy launch configuration

AMI ID ami-0b3b25cde2b6ce0fc Instance type t2.micro IAM instance profile -

Kernel ID - Key name E18CSE187Lab8 Monitoring false

EBS optimized false Security groups sg-0ah9d001ph1h57h4b

Spot price -

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AWS Services

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EC2 Auto Scaling groups Create Auto Scaling group

Step 1 Choose launch template or configuration

Step 2 Configure settings

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

Choose launch template or configuration Info

Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group. If you currently use launch configurations, you might consider migrating to launch templates.

Name

Auto Scaling group name Enter a name to identify the group. E18CSE187Lab8 Must be unique to this account in the current Region and no more than 255 characters.

Launch configuration Info Switch to launch template

Launch configuration Choose a launch configuration that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups. E18CSE187Lab8

Create a launch configuration Launch configuration AMI ID Date created

Launch configuration ami-0b3b25cde2b6ce0fc Sun Apr 11 2021 14:47:32 GMT+0530 (India Standard Time)

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Services EC2 Auto Scaling groups Create Auto Scaling group

Configure settings Step 1 Choose launch template or configuration Step 2 Configure settings 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

Configure settings Info

Configure the settings below. Depending on whether you chose a launch template, these settings may include options to help you make optimal use of EC2 resources.

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: vpc-1ef35563 172.31.0.0/16 Default

Create a VPC

Subnets: Select subnets us-east-1a | subnet-2a5ecf0b 172.31.80.0/20 Default

Create a subnet

Cancel Previous Skip to review Next



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Services EC2 Configuration

Step 2 Configure settings 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

Choose a load balancer to distribute incoming traffic for your application across instances to make it more reliable and easily scalable. You can also set options that give you more control over health check replacements and monitoring.

Load balancing - optional Info

Use the options below to attach your Auto Scaling group to an existing load balancer, or to a new load balancer that you define.

No load balancer Traffic to your Auto Scaling group will not be fronted by a load balancer.

Attach to an existing load balancer Choose from your existing load balancers.

Attach to a new load balancer Quickly create a basic load balancer to attach to your Auto Scaling group.

Health checks - optional

Health check type Info

EC2 Auto Scaling automatically replaces instances that fail health checks. If you enabled load balancing, you can enable ELB health checks in addition to the EC2 health checks that are always enabled.

EC2 ELB

Health check grace period

The amount of time until EC2 Auto Scaling performs the first health check on new instances after they are put into service.

60 seconds

Additional settings - optional

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console.aws.amazon.com/ec2autoscaling/home?region=us-east-1#/create

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EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template or configuration

Step 2 Configure settings

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

Configure group size and scaling policies Info

Set the desired, minimum, and maximum capacity of your Auto Scaling group. You can optionally add a scaling policy to dynamically scale the number of instances in the group.

Group size - optional Info

Specify the size of the Auto Scaling group by changing the desired capacity. You can also specify minimum and maximum capacity limits. Your desired capacity must be within the limit range.

Desired capacity: 1

Minimum capacity: 1

Maximum capacity: 2

Scaling policies - optional

Choose whether to use a scaling policy to dynamically resize your Auto Scaling group to meet changes in demand. Info

Target tracking scaling policy Choose a desired outcome and leave it to the scaling policy to add and remove capacity as needed to achieve that outcome.

None

Scaling policy name: Target Tracking Policy

Metric type: Average CPU utilization

Target value: 45

Instances need: 60 seconds warm up before including in metric

Disable scale in to create only a scale-out policy

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Step 7 Review

Scaling policies - optional

Choose whether to use a scaling policy to dynamically resize your Auto Scaling group to meet changes in demand. Info

Target tracking scaling policy Choose a desired outcome and leave it to the scaling policy to add and remove capacity as needed to achieve that outcome.

None

Scaling policy name: Target Tracking Policy

Metric type: Average CPU utilization

Target value: 45

Instances need: 60 seconds warm up before including in metric

Disable scale in to create only a scale-out policy

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

Lower the Possibility of Spot Interruptions Capacity Optimized allocation identifies the deepest Spot Instance pools, possibly lowering the chance of Spot interruptions. Learn more

E18CSE187Lab8, 1 Scaling policy created successfully

EC2 > Auto Scaling groups

Auto Scaling groups (1)

Name	Launch template/configuration	Instances	Status	Desired capacity	Min...	Max...	Availability zone
E18CSE187Lab8...	E18CSE187Lab8	0	Updating capac...	1	1	2	us-east-1

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console.aws.amazon.com/ec2/v2/home?region=us-east-1#instances

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EC2 Dashboard Events Tags Limits Instances Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Scheduled Instances Capacity Reservations Images AMIs Elastic Block Store Volumes

Instances (3) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Server 187	i-04339ab5429d59591	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1e	ec2-52-3-255-1.com
Extra Server 187	i-0ff7e86203480b6e2	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1e	ec2-54-236-51-226.
Server Auto 187	i-0a4dbaf3a54b285d	Running	t2.micro	0/2 checks passed	0/1 alarms +	us-east-1a	ec2-18-204-201-1.c

Select an instance above

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console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:

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Instances

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Launch Templates

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Savings Plans

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Capacity Reservations

Images AMIs

Elastic Block Store Volumes

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Instances (1/3) Info

Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Server 187	i-04339ab5429d59591	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1e	ec2-52-3-255-1.c
Extra Server 187	i-0ff7e86203480b8e2	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1e	ec2-54-236-51-2
Server Auto 187	i-0a4dba6f3a54b285d	Running	t2.micro	Initializing	1/1 has i +	us-east-1a	ec2-18-204-201-

Instance: i-0a4dba6f3a54b285d (Server Auto 187)

Details Security Networking Storage Status checks Monitoring Tags

Add to dashboard 1h 3h 12h 1d 3d 1w custom Manage detailed monitoring

CPU utilization (%) Status check failed (any) (co... Status check failed (instance... Status check failed (system) ...

No data available.

0.5 Try adjusting the dashboard time range.

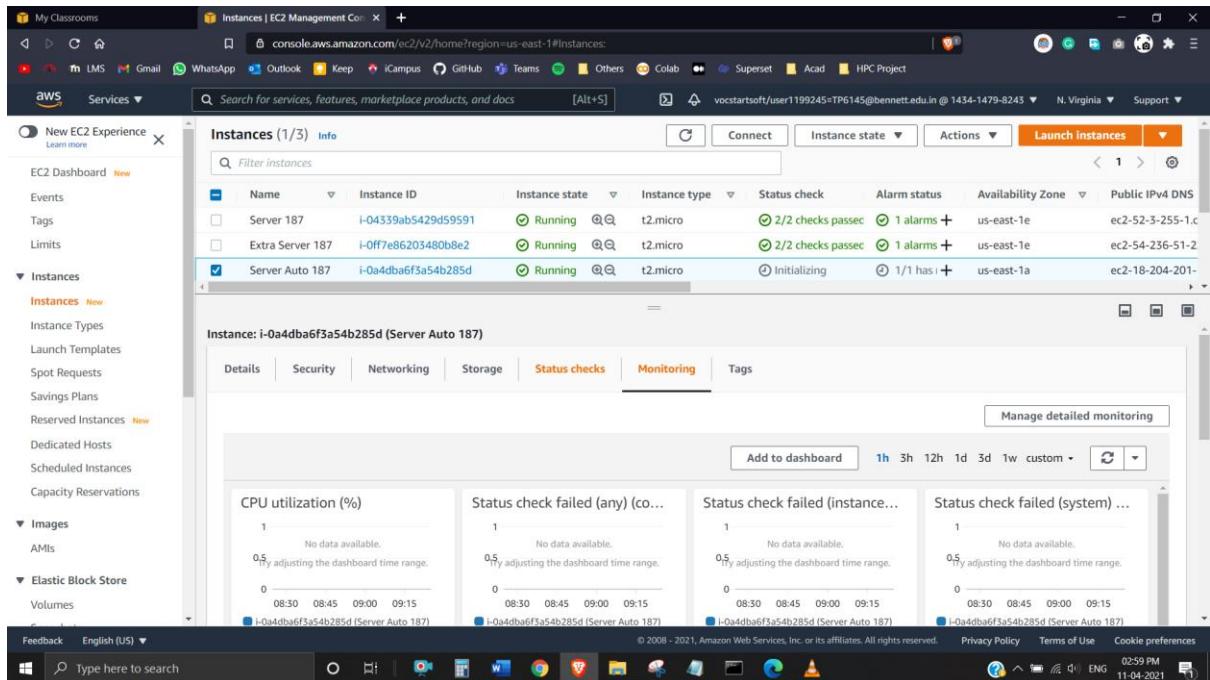
0 08:30 08:45 09:00 09:15 i-0a4dba6f3a54b285d (Server Auto 187)

0 08:30 08:45 09:00 09:15 i-0a4dba6f3a54b285d (Server Auto 187)

0 08:30 08:45 09:00 09:15 i-0a4dba6f3a54b285d (Server Auto 187)

0 08:30 08:45 09:00 09:15 i-0a4dba6f3a54b285d (Server Auto 187)

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My Classrooms Connect to Instance | EC2 Management Con...

console.aws.amazon.com/ec2/v2/home?region=us-east-1#ConnectToInstance:instanceId=i-0a4dba6f3a54b285d

AWS Services

Search: Type here to search

Feedback English (US)

EC2 > Instances > i-0a4dba6f3a54b285d > Connect to instance

Connect to instance Info

Connect to your instance i-0a4dba6f3a54b285d (Server Auto 187) using one of the following methods:

Session Manager RDP client EC2 Serial Console

You can connect to your Windows instance using a remote desktop client by running the RDP shortcut file below:

Download remote desktop file

When prompted, connect to your instance using the following details:

Public DNS User name

ec2-18-204-201-1.compute-1.amazonaws.com Adm...

Password Get password

If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.

Windows Security Enter your credentials

These credentials will be used to connect to ec2-18-204-201-1.compute-1.amazonaws.com.

Administrator TP-HPAdministrator

Remember me

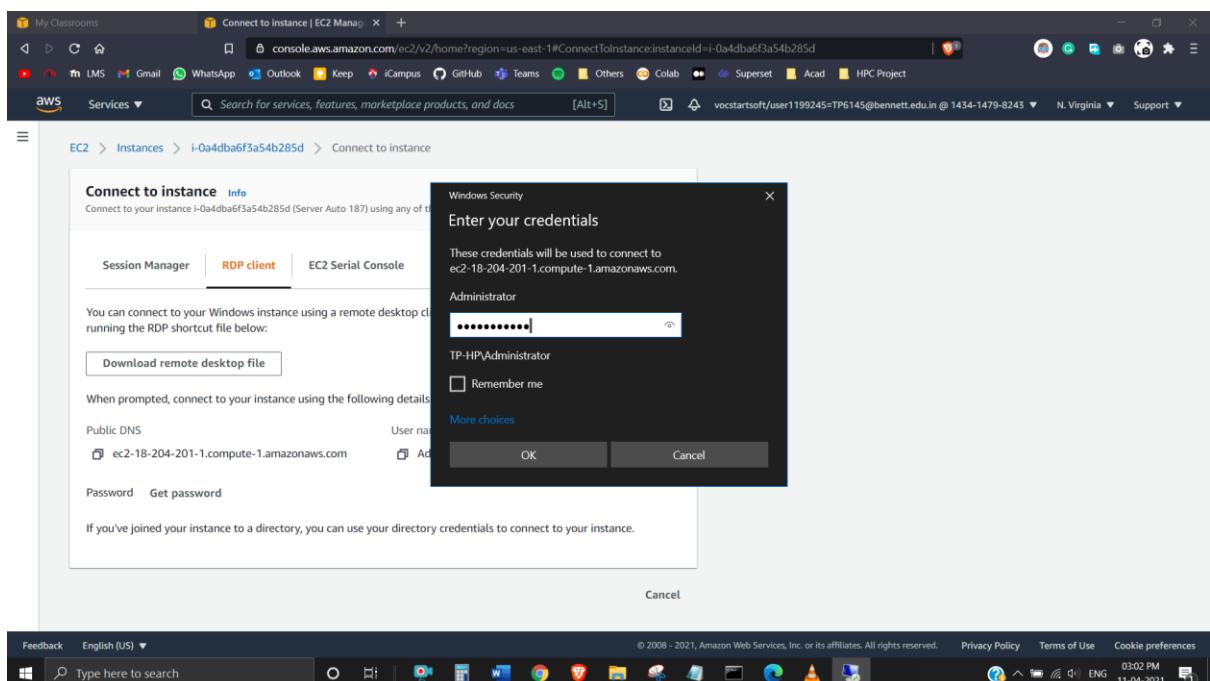
More choices OK Cancel

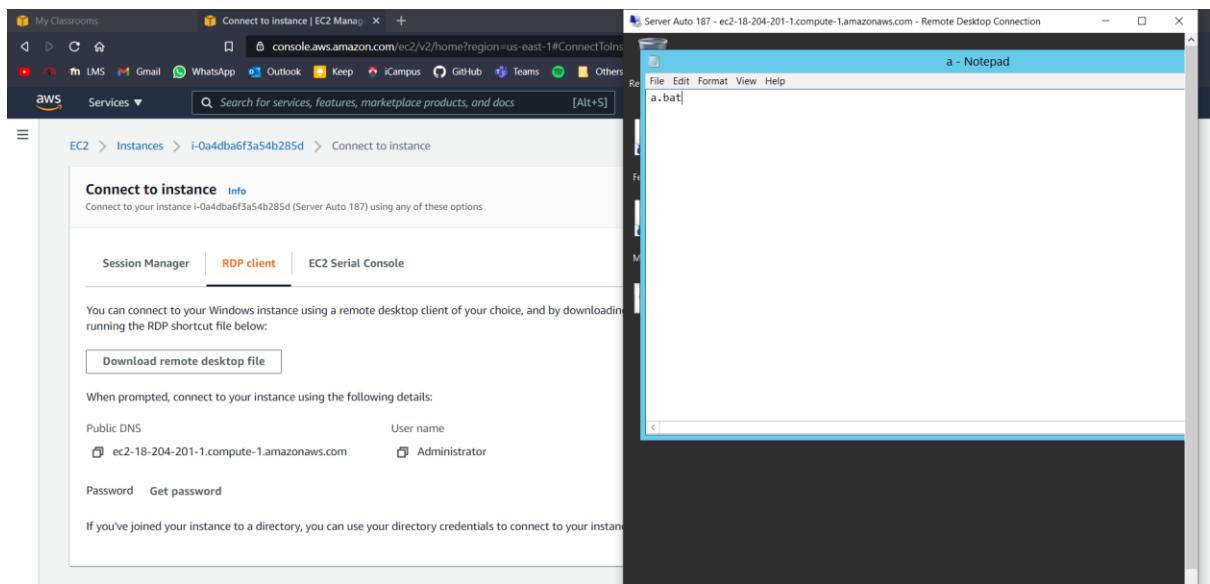
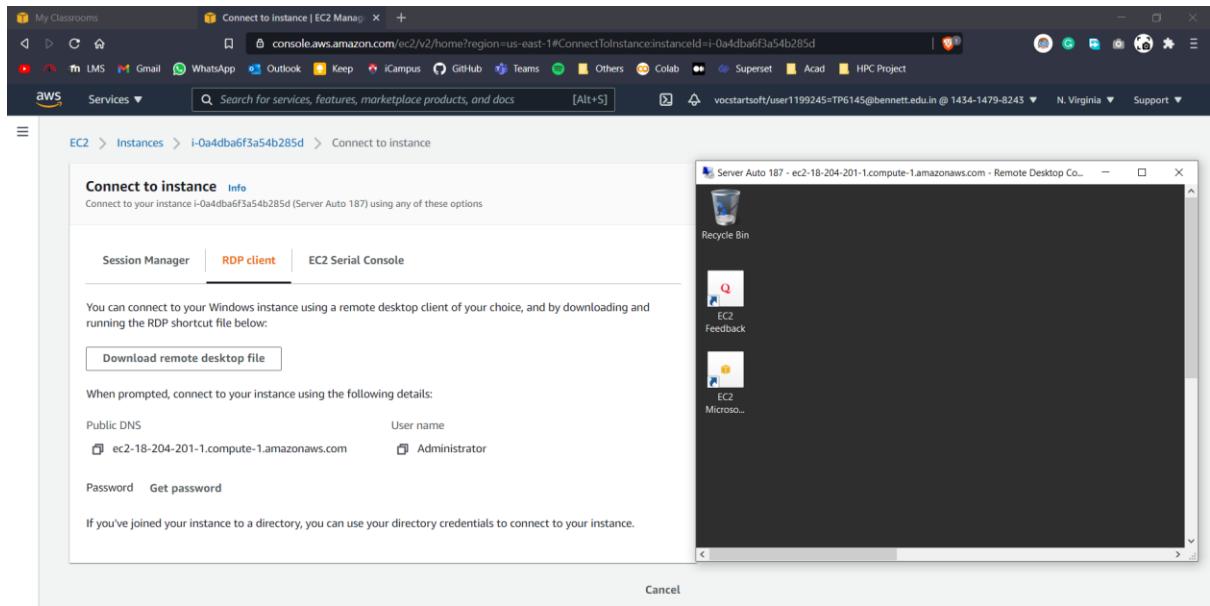
Cancel

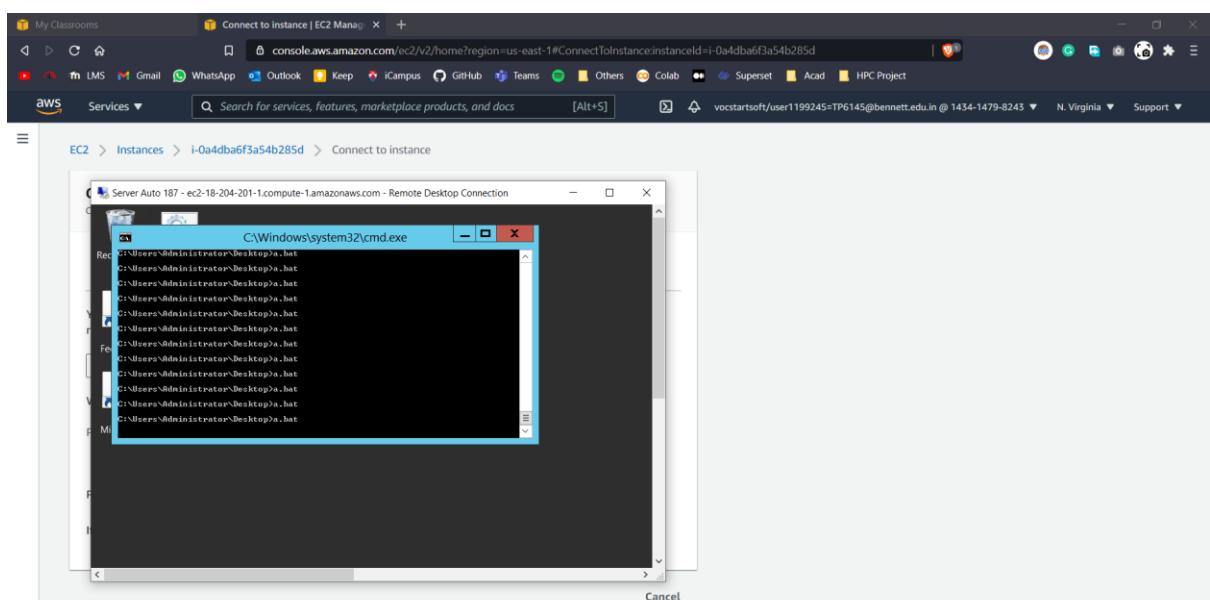
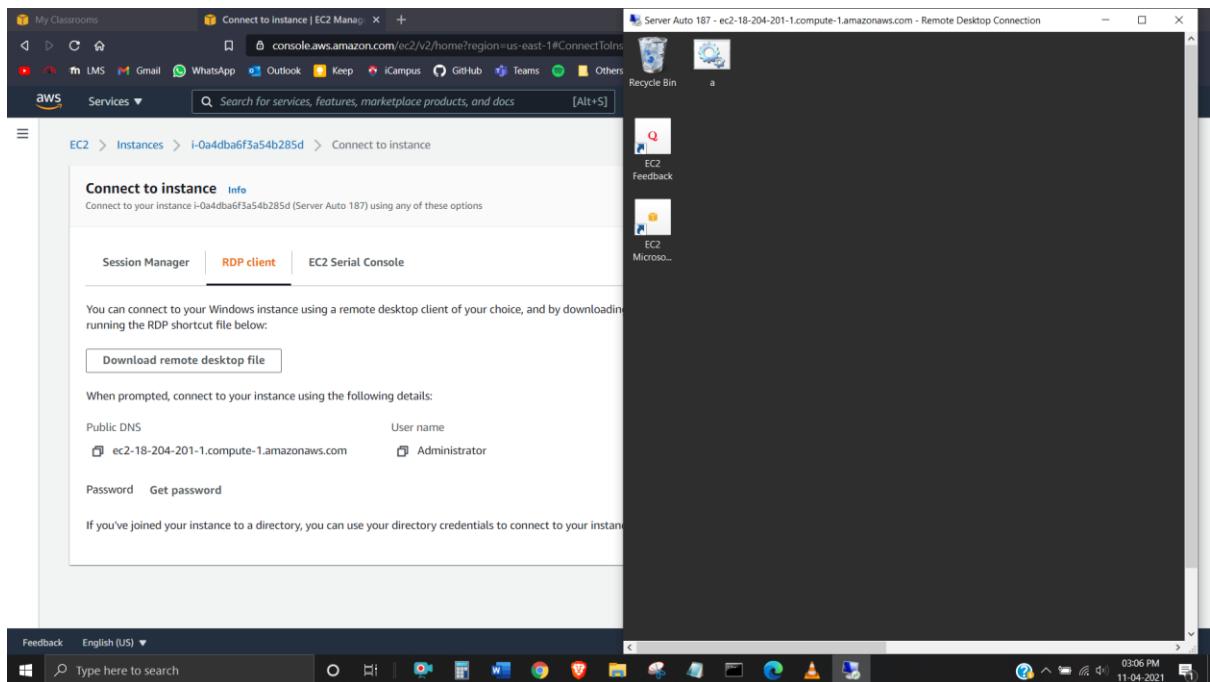
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console.aws.amazon.com/ec2autoscaling/home?region=us-east-1#/details/E18CSE187Lab8?view=monitoring

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EC2 Dashboard New

Events New

Tags

Limits

INSTANCES

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts New
- Scheduled Instances
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IMAGES

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CloudWatch monitoring details

Auto Scaling | EC2

Successfully enabled Auto Scaling group metrics collection

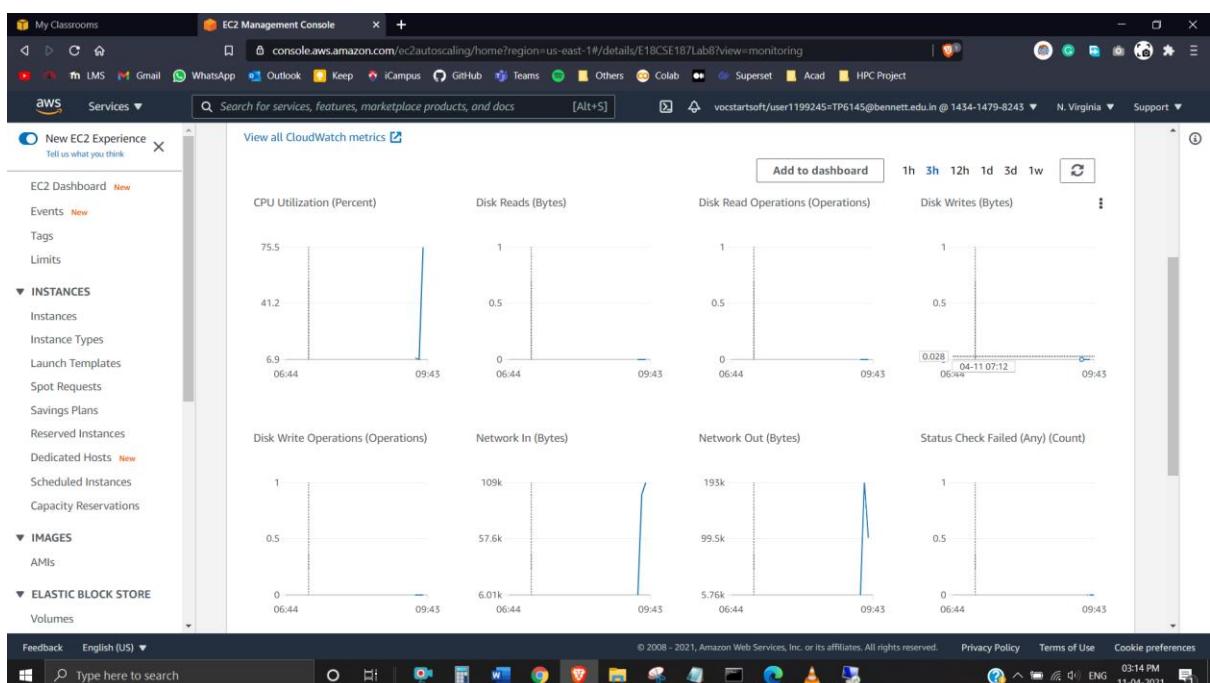
Auto Scaling group metrics collection:
 Enable
All times shown are in UTC.
[View all CloudWatch metrics](#)

Add to dashboard 1h 3h 12h 1d 3d 1w

Minimum Group Size (Count) Maximum Group Size (Count) Desired Capacity (Count) In Service Instances (Count)

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console.aws.amazon.com/ec2autoscaling/home?region=us-east-1#/scalingPolicies/E18CSE187Lab8

Services ▾

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EC2 Auto Scaling groups E18CSE187Lab8

Edit scaling policy

Policy type: Target tracking scaling

Scaling policy name: Target Tracking Policy

Metric type: Average CPU utilization

Target value: 8

Instances need: 30 seconds warm up before including in metric

Disable scale in to create only a scale-out policy

Cancel Update

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console.aws.amazon.com/ec2autoscaling/home?region=us-east-1#/details/E18CSE187Lab8/view=scaling

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

IMAGES

- AMIs

ELASTIC BLOCK STORE

- Volumes

Scaling policy created or edited successfully

Scaling policies (1) Info

Actions Add policy < 1 >

Target Tracking Policy

Policy type: Target tracking scaling

Enabled or disabled? Enabled

Execute policy when: As required to maintain Average CPU utilization at 8

Take the action: Add or remove capacity units as required

Instances need:

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My Classrooms Instances | EC2 Management Con...

console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:instanceState=running

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Images **AMIs**

Elastic Block Store **Volumes**

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Instances (3) Info

Search for services, features, marketplace products, and docs [Alt+S]

Filter instances

Connect Instance state Actions Launch Instances

Instance state: running

Clear filters

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Server 187	i-04339ab5429d59591	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1e	ec2-52-3-255-1.c
Server Auto 187	i-0a4dba6f3a54b285d	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1a	ec2-18-204-201-
-	i-0d03fe4569de4492f	Running	t2.micro	Initializing	1/1 has i +	us-east-1a	ec2-52-90-52-21

Select an instance above

Windows Type here to search

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console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:instanceState=running

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- Launch Templates
- Spot Requests
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Instances (1/3) Info

Search for services, features, marketplace products, and docs [Alt+S]

Filter instances

Connect Instance state Actions Launch Instances

Instance state: running

Clear filters

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Server 187	i-04339ab5429d59591	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1e	ec2-52-3-255-1.c
Server Auto 187	i-0a4dba6f3a54b285d	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1a	ec2-18-204-201-
-	i-0d03fe4569de4492f	Running	t2.micro	Initializing	1/1 has i +	us-east-1a	ec2-52-90-52-21

CPU utilization (%)

Percent

75.5

37.7

0

08:45 09:00 09:15 09:30 09:45

i-0a4dba6f3a54b285d (Server Auto 187)

Status check failed (any) (count)

Count

1

0.5

0

08:45 09:00 09:15 09:30 09:45

i-0a4dba6f3a54b285d (Server Auto 187)

Status check failed (instance...) (count)

Count

1

0.5

0

08:45 09:00 09:15 09:30 09:45

i-0a4dba6f3a54b285d (Server Auto 187)

Status check failed (system) (count)

Count

1

0.5

0

08:45 09:00 09:15 09:30 09:45

i-0a4dba6f3a54b285d (Server Auto 187)

Network in (bytes)

Bytes

109k

54.6k

0

08:45 09:00 09:15 09:30 09:45

Network out (bytes)

Bytes

193k

96.6k

0

08:45 09:00 09:15 09:30 09:45

Network packets in (count)

Count

851

702

426

0

08:45 09:00 09:15 09:30 09:45

Network packets out (count)

Count

702

351

0

08:45 09:00 09:15 09:30 09:45

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1# Instances:instanceState=running

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Instances (1/4) Info Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Server 187	i-04339ab5429d59591	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1e	ec2-52-3-255-1.c...
Extra Server 187	i-0ff7e86203480b8e2	Terminated	t2.micro	-	1 alarms +	us-east-1e	-
Server Auto 187	i-0a4dba6f3a54b285d	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1a	ec2-18-204-201...
-	i-0d03fe4569de4492f	Terminated	t2.micro	-	1 alarms +	us-east-1a	-

Instance: i-0d03fe4569de4492f

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0d03fe4569de4492f	52.90.52.213 open address	-
Instance state	Public IPv4 DNS	Private IPv4 DNS
Terminated	-	-

CloudWatch Metrics CloudWatch Logs VPC ID

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Instances (1/5) Info Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Server 187	i-04339ab5429d59591	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1e	ec2-52-3-255-1.c...
Extra Server 187	i-0ff7e86203480b8e2	Terminated	t2.micro	-	1 alarms +	us-east-1e	-
Server Auto 187	i-0a4dba6f3a54b285d	Terminated	t2.micro	-	1 alarms +	us-east-1a	-
-	i-0d03fe4569de4492f	Terminated	t2.micro	-	1 alarms +	us-east-1a	-
-	i-08c26f06423672d8c	Running	t2.micro	Initializing	1/1 has i +	us-east-1a	ec2-35-173-200...

Instance: i-0a4dba6f3a54b285d (Server Auto 187)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0a4dba6f3a54b285d (Server Auto 187)	-	-
Instance state	Public IPv4 DNS	Private IPv4 DNS
Terminated	-	-

CloudWatch Metrics CloudWatch Logs VPC ID

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Instances (1/5) Info Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Server 187	i-04339ab5429d59591	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1e	ec2-52-3-255-1.c...
Extra Server 187	i-0ff7e86203480b8e2	Terminated	t2.micro	-	1 alarms +	us-east-1e	-
Server Auto 187	i-0a4dba6f3a54b285d	Terminated	t2.micro	-	1 alarms +	us-east-1a	-
-	i-0d03fe4569de4492f	Terminated	t2.micro	-	1 alarms +	us-east-1a	-
-	i-08c26f06423672d8c	Running	t2.micro	Initializing	1/1 has i +	us-east-1a	ec2-35-173-200...

Instance: i-0a4dba6f3a54b285d (Server Auto 187)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0a4dba6f3a54b285d (Server Auto 187)	-	-
Instance state	Public IPv4 DNS	Private IPv4 DNS
Terminated	-	-

CloudWatch Metrics CloudWatch Logs VPC ID

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Instances (6) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Server 187	i-04339ab5429d59591	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1e	ec2-52-3-255-1.c
Extra Server 187	i-0ff7e86203480b8e2	Terminated	t2.micro	-	1 alarms +	us-east-1e	-
Server Auto 187	i-0a4db6f3a54b285d	Terminated	t2.micro	-	1 alarms +	us-east-1a	-
-	i-0d03fe4569de4492f	Terminated	t2.micro	-	1 alarms +	us-east-1a	-
-	i-08c2f06423672d8c	Running	t2.micro	Initializing	1/1 has i +	us-east-1a	ec2-35-173-200-
-	i-0da219dc74c96431a	Running	t2.micro	Initializing	No alarms +	us-east-1a	ec2-34-201-34-1

Select an instance above

Actions Launch Instances

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My Classrooms EC2 Management Console +

console.aws.amazon.com/ec2autoscaling/home?region=us-east-1#/details?id=E18CSE187Lab8&view=details

New EC2 Experience Tell us what you think X

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

Lower the Possibility of Spot Interruptions Capacity Optimized allocation identifies the deepest Spot Instance pools, possibly lowering the chance of Spot interruptions. Learn more X

EC2 > Auto Scaling groups

Auto Scaling groups (1)

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availability zone
E18CSE187Lab8	E18CSE187Lab8	2	Deleting	0	0	0	us-east-1

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- Instance Types
- Launch Templates
- Spot Requests
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- Dedicated Hosts
- Scheduled Instances
- Capacity Reservations

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Instances (6) Info

Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Server 187	i-04339ab5429d59591	Running	t2.micro	2/2 checks passed	1 alarms +	us-east-1e	ec2-52-3-255-1.c
Extra Server 187	i-0ff7e86203480b8e2	Terminated	t2.micro	-	1 alarms +	us-east-1e	-
Server Auto 187	i-0a4db6f3a54b285d	Terminated	t2.micro	-	1 alarms +	us-east-1a	-
-	i-0d03fe4569de4492f	Terminated	t2.micro	-	1 alarms +	us-east-1a	-
-	i-08c26f06423672d8c	Terminated	t2.micro	-	1 alarms +	us-east-1a	-
-	i-0da219dc74c96431a	Terminated	t2.micro	-	1/1 has i +	us-east-1a	-

Select an instance above

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