

Assignment 1: IAM User

Logged in as ADMIN

console.aws.amazon.com/iam/home#/users\$new?step=details

Services Search for services, features, marketplace products, and docs [Alt+S] savvy @ hemanthhr

Add user

1 2 3 4 5

Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name* LetsUpgrade-IAM_User

[Add another user](#)

Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

Access type* ☒ **Programmatic access**
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.

☒ **AWS Management Console access**
Enables a **password** that allows users to sign-in to the AWS Management Console.

Console password* ☒ Autogenerated password
☐ Custom password

Require password reset* ☒ User must create a new password at next sign-in
Users automatically get the `IAMUserChangePassword` policy to allow them to change their own password.

* Required

[Cancel](#) [Next: Permissions](#)

Created IAM user

Add user

1 2 3 4 5

Success

You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: <https://hemanthhr.signin.aws.amazon.com/console>

[Download .csv](#)

	User	Access key ID	Secret access key	Password	Email login instructions
▼	✓ LetsUpgrade...	AKIA5FBAMPII6CN2RKHF	***** Show	***** Show	Send email

- ✓ Created user LetsUpgrade-IAM_User
- ✓ Attached policy AmazonS3FullAccess to user LetsUpgrade-IAM_User
- ✓ Attached policy IAMUserChangePassword to user LetsUpgrade-IAM_User
- ✓ Created access key for user LetsUpgrade-IAM_User
- ✓ Created login profile for user LetsUpgrade-IAM_User

Logged in with IAM user access Details

Amazon Web Services Sign-In

signin.aws.amazon.com/oauth?response_type=code&client_id=arn%3Aaws%3A

aws

Sign in as IAM user

Account ID (12 digits) or account alias

hemanthhr

IAM user name

LetsUpgrade-IAM_User

Password

.....

Sign in

[Sign in using root user email](#)

[Forgot password?](#)

Logged into AWS console

AWS Management Console

us-east-2.console.aws.amazon.com/console/home?region=us-east-2#

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LetsUpgrade-IAM_User @ hemanthhr

AWS Managed Services

Check out the new unified search

In the search box, enter what you're looking for, such as "containers" or "S3". Unified search shows you services, service features, documentation topics, and AWS Marketplace products, all in one place.

AWS services

Got it

Recently visited services

Your recently visited AWS services appear here.

All services

Build a solution

Get started with simple wizards and automated workflows.

Launch a virtual machine

With EC2

2-3 minutes

Build a web app

With Elastic Beanstalk

6 minutes

Build using virtual servers

With Lightsail

1-2 minutes

Register a domain

Connect an IoT device

Start migrating to AWS

Stay connected to your AWS resources on-the-go

AWS Console Mobile App now supports four additional regions. Download the AWS Console Mobile App to your iOS or Android mobile device. [Learn more](#)

Explore AWS

Amazon Redshift

Fast, simple, cost-effective data warehouse that can extend queries to your data lake. [Learn more](#)

Run Serverless Containers with AWS Fargate

AWS Fargate runs and scales your containers without having to manage servers or clusters. [Learn more](#)

Access restriction

- Unable to access IAM user Information / IAM service

The screenshot shows the AWS IAM Management Console. The left sidebar contains navigation links for Identity and Access Management (IAM), Dashboard, Access management (User groups, Users, Roles, Policies, Identity providers, Account settings), Access reports (Access analyzer, Archive rules, Analyzers, Settings, Credential report, Organization activity, Service control policies (SCPs)), and What's new. The main content area is titled 'IAM dashboard' and features a 'Security recommendations' section with three red error boxes. Each box contains the message: 'You do not have the permission required to perform this operation. Ask your administrator to add permissions. User: arn:aws:iam::904158542353:user:LetsUpgrade-IAM_User is not authorized to perform: iam:GetAccountSummary on resource: *'. The right sidebar includes 'AWS Account' (with a similar error message), 'Quick Links' (My security credentials, Policy simulator, Web identity federation playground), and 'Tools'.

Unable to access to EC2 service

The screenshot shows the AWS EC2 console. The left sidebar contains navigation links for New EC2 Experience, EC2 Dashboard, Events, Tags, Limits, and Instances. The main content area is titled 'Instances' and features a table with columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 DNS. A red error message is displayed at the bottom of the table: 'You are not authorized to perform this operation.' The top of the console shows the 'Instances' tab selected, and the 'Launch instances' button is visible.

Assignment 2 : Working with EC2

Resources

You are using the following Amazon EC2 resources in the Asia Pacific (Singapore) Region:

Resource	Count
Instances (running)	0
Dedicated Hosts	0
Elastic IPs	0
Instances	0
Key pairs	0
Load balancers	0
Placement groups	0
Security groups	1
Snapshots	0
Volumes	0

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

[Launch instance](#)

Note: Your instances will launch in the Asia Pacific (Singapore) Region

Service health

Region: Asia Pacific (Singapore) Status: ✔ This service is operating normally

Zones

Account attributes

Supported platforms

- VPC

Default VPC: vpc-d18294b6

Settings

- EBS encryption
- Zones
- EC2 Serial Console
- Default credit specification
- Console experiments

Explore AWS

Enable Best Price-Performance Graviton2

AWS Graviton2 powered EC2 inst

Selecting Instance Type

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.

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

Currently selected: t2.micro (1 vCPU, 2.5 GHz, 1 GiB memory, EBS only)

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
t2	t2.micro	1	1	EBS only	-	Low to Moderate	Yes
t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
t2	t2.xlarge	8	32	EBS only	-	Moderate	Yes
t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
t3	t3.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
t3	t3.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes
t3	t3.medium	2	4	EBS only	Yes	Up to 5 Gigabit	Yes
t3	t3.large	2	8	EBS only	Yes	Up to 5 Gigabit	Yes
t3	t3.xlarge	4	16	EBS only	Yes	Up to 5 Gigabit	Yes

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Instance Details](#)

Configuration information

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: 1 [Launch into Auto Scaling Group](#)

Purchasing option ☐ Request Spot instances

Network vpc-d18294b6 (default) [Create new VPC](#)

Subnet No preference (default subnet in any Availability Zone) [Create new subnet](#)

Auto-assign Public IP Use subnet setting (Enable)

Placement group ☐ Add instance to placement group

Capacity Reservation Open

Domain join directory No directory [Create new directory](#)

IAM role None [Create new IAM role](#)

Shutdown behavior Stop

Stop-Hibernate behavior ☐ Enable hibernation as an additional stop behavior

Enable termination protection ☐ Protect against accidental termination

Monitoring ☐ Enable CloudWatch detailed monitoring

Tenancy Shared - Run a shared hardware instance [Additional charges will apply for dedicated tenancy](#)

Credit specification ☐ Unlimited [Additional charges may apply](#)

File systems [Create new EFS file system](#) [Provide more file systems](#)

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

Storage :

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type (1)	Device (1)	Snapshot (1)	Size (GiB) (1)	Volume Type (1)	IOPS (1)	Throughput (MiB/s) (1)	Delete on Termination (1)	Encryption (1)
Root	/dev/sda1	snaps-0020a6e0e0e30030a8	8	(General Purpose, SSD, gp2)	100 / 3000	400	<input type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GiB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

CancelPreviousReview and LaunchNext: Add Tags

Tags :

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum)	Value (256 characters maximum)	Instances (1)	Volumes (1)	Network Interfaces (1)
demo ec2 service	demo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add another tag (up to 50 tags maximum)

CancelPreviousReview and LaunchNext: Configure Security Group

Security Group :

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

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: ec2-instance -SCG

Description: launch-wizard-1 created 2021-09-01T23:06:56.292+05:30

Type (1)	Protocol (1)	Port Range (1)	Source (1)	Description (1)
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom 0.0.0.0/0::/0	e.g. SSH for Admin Desktop
HTTPS	TCP	443	Custom 0.0.0.0/0::/0	e.g. SSH for Admin Desktop

Add Rule

Warning

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.

CancelPreviousReview and Launch

Step 7: Review Instance Launch

Step 7: Review Instance Launch

Improve your instances' security. Your security group, **ec2-instance -SG**, is open to the world. Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details [Edit AMI](#)

centos-7-gpke-202004211810 - ami-0d1ae794d1945b103
PXE pre-launched image based on CentOS 7 by Red Hat Cloud
Root Device Type: [xfs](#) Virtualization type: [hvm](#)

Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance
t2.micro	-	1	1	EBS only	-	Low to Moderate

Security Groups [Edit security groups](#)

Security group name: **ec2-instance -SG**
Description: **launch-vizard-1 created 2021-09-01T23:06:56.292+05:30**

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	0.0.0.0/0	
HTTP	TCP	80	0.0.0.0/0	
HTTP	TCP	80	/0	
HTTPS	TCP	443	0.0.0.0/0	
HTTPS	TCP	443	/0	

Instance Details [Edit instance details](#)

Storage [Edit storage](#)

[Cancel](#) [Previous](#) [Launch](#)

Key Pair :

Step 7: Review Instance Launch

Improve your instances' security. Your security group, **ec2-instance -SG**, is open to the world. Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details [Edit AMI](#)

centos-7-gpke-202004211810 - ami-0d1ae794d1945b103
PXE pre-launched image based on CentOS 7 by Red Hat Cloud
Root Device Type: [xfs](#) Virtualization type: [hvm](#)

Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage
t2.micro	-	1	1	EBS only

Security Groups [Edit security groups](#)

Security group name: **ec2-instance -SG**
Description: **launch-vizard-1 created 2021-09-01T23:06:56.292+05:30**

Type	Protocol	Port Range
SSH	TCP	22
HTTP	TCP	80
HTTP	TCP	80
HTTPS	TCP	443
HTTPS	TCP	443

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. Amazon EC2 supports ED25519 and RSA key pair types.

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.

Create a new key pair
Key pair type: **RSA** **ED25519**
Key pair name: **ec2instance**
[Download Key Pair](#)

You have to download the private key file (.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created.

[Cancel](#) [Launch Instances](#)

[Cancel](#) [Previous](#) [Launch](#)

[https://ap-southeast-1.console.aws.amazon.com/console/home?region=ap-southeast-1](#)

ec2service.pem
1,700/1,700 B [Show all](#) [X](#)

Launch status :

Launch Status

Your instances are now launching
The following instance launches have been initiated: **i-0abc6b773c6f73f36** [View launch log](#)

Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances. Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can connect to them from the **Instances** screen. [Find out](#) how to connect to your instances.

Here are some helpful resources to get you started

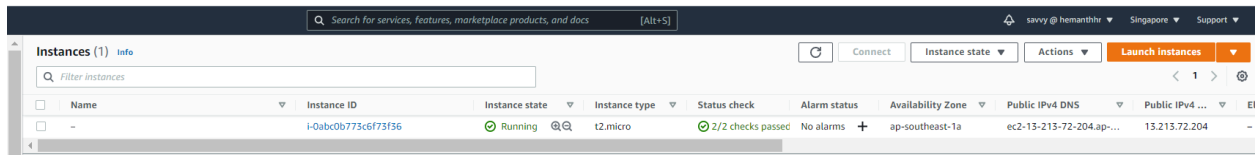
- How to connect to your Linux instance
- Amazon EC2: User Guide
- Learn about AWS Free Usage Tier
- Amazon EC2: Discussion Forum

While your instances are launching you can also

- Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)
- Create and attach additional EBS volumes (Additional charges may apply)
- Manage security groups

[View Instances](#)

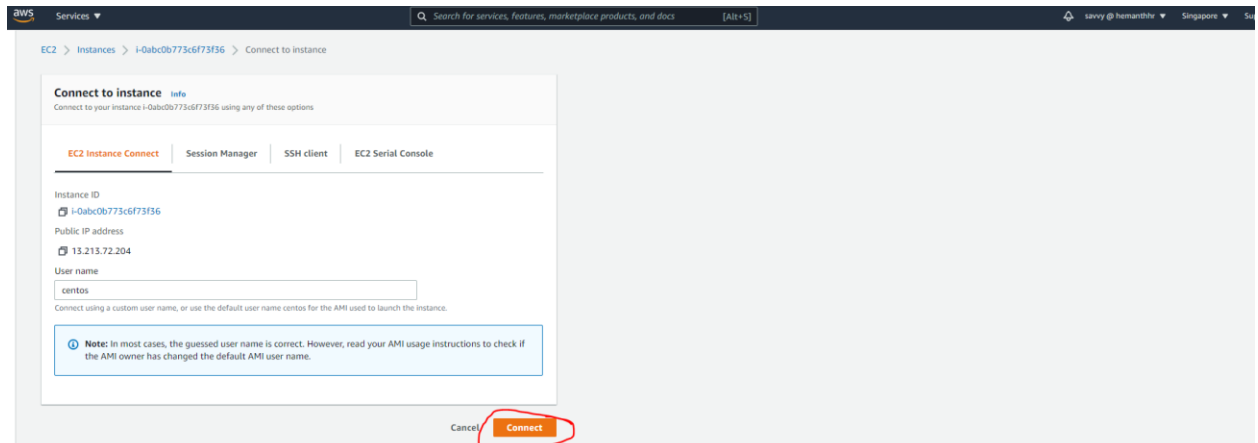
Instance initialized and running



The screenshot shows the AWS Management Console 'Instances' page. A single instance is listed with the following details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
-	i-0abc0b773c6f73f36	Running	t2.micro	2/2 checks passed	No alarms	ap-southeast-1a	ec2-13-213-72-204.ap-...	13.213.72.204

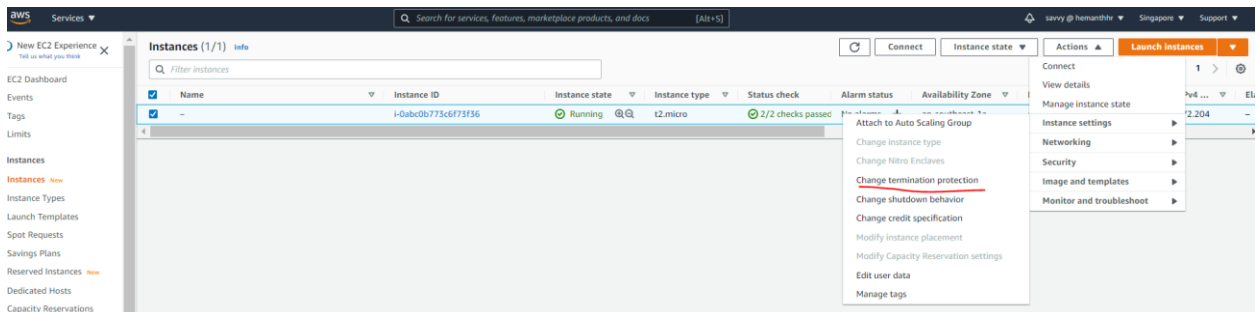
Connecting to instance



The 'Connect to instance' dialog is shown for instance i-0abc0b773c6f73f36. It displays the instance ID, public IP address (13.213.72.204), and a default user name of 'centos'. A 'Connect' button is highlighted with a red circle.

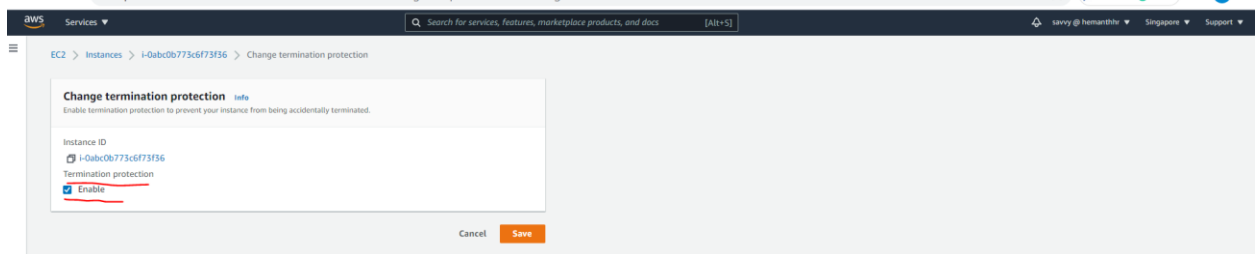
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Changing Termination protection



The screenshot shows the 'Instances' page with the instance i-0abc0b773c6f73f36 selected. The 'Actions' menu is open, and 'Change termination protection' is highlighted with a red line.

Enabled Change Termination Protection



The 'Change termination protection' dialog is shown for instance i-0abc0b773c6f73f36. The 'Enable' checkbox under 'Termination protection' is checked and highlighted with a red line.

Enabled protection

The screenshot shows the AWS Management Console interface. At the top, a green banner indicates 'Enabled termination protection for i-0abc0b773c6f73f36'. Below this, the 'Instances (1/1)' section is visible. A table lists the instance details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elas
-	i-0abc0b773c6f73f36	Running	t2.micro	2/2 checks passed	No alarms	ap-southeast-1a	ec2-13-213-72-204.ap-...	13.213.72.204	-

Instance termination

The screenshot shows the AWS Management Console interface with a 'Terminate instance?' dialog box open. The dialog box contains the following text:

Terminate instance?

On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?

i-0abc0b773c6f73f36

Clean up associated resources
Associated resources may incur costs after these instances are terminated.

Delete EBS volumes

To confirm that you want to terminate the instances, choose the terminate button below. Terminating the instance cannot be undone.

Cancel Terminate

Failed to terminate the instance due to termination protection

The screenshot shows the AWS Management Console interface with an error message displayed at the top:

Failed to terminate an instance: The instance 'i-0abc0b773c6f73f36' may not be terminated. Modify its 'disableApiTermination' instance attribute and try again.

Below the error message, the 'Instances (1/1)' section is visible. A table lists the instance details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elas
-	i-0abc0b773c6f73f36	Running	t2.micro	2/2 checks passed	No alarms	ap-southeast-1a	ec2-13-213-72-204.ap-...	13.213.72.204	-

Disabling Termination

The screenshot shows the AWS Management Console interface with a 'Change termination protection' dialog box open. The dialog box contains the following text:

Change termination protection

Enable termination protection to prevent your instance from being accidentally terminated.

Instance ID: i-0abc0b773c6f73f36

Termination protection: ☐ Enable

Termination protection disabled.
The instance is no longer protected against accidental termination. If the instance is terminated, data stored on ephemeral storage is lost.

Cancel Save


Disabled Termination Protection

The screenshot shows the AWS Management Console interface. At the top, a green banner indicates 'Disabled termination protection for i-0abc0b773c6f73f36'. Below this, the 'Instances (1)' section is visible. A table lists the instance details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elas
-	i-0abc0b773c6f73f36	Running	t2.micro	2/2 checks passed	No alarms	ap-southeast-1a	ec2-13-213-72-204.ap-...	13.213.72.204	-

ASSIGNMENT 3 : Working with VPC

Creating New VPC

 Services ▾

Q Search for services, features, or documentation

Create VPC [Info](#)

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances.

VPC settings

Name tag - optional
Creates a tag with a key of 'Name' and a value that you specify.

myvpc

IPv4 CIDR block [Info](#)

40.0.0.0/16

IPv6 CIDR block [Info](#)

☒ No IPv6 CIDR block

☐ Amazon-provided IPv6 CIDR block

☐ IPv6 CIDR owned by me

Tenancy [Info](#)

Default ▾

Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional	
<div>Q Name X</div>	<div>Q myvpc X</div>	<div>Remove</div>
<div>Add new tag</div>		

You can add 49 more tags.

Cancel

Create VPC

VPC Creation Done

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

saavy hemanthir Singapore Support

You successfully created vpc-04e9c280ee8ebf2ec / myvpc

VPC > Your VPCs > vpc-04e9c280ee8ebf2ec

vpc-04e9c280ee8ebf2ec / myvpc Actions

Details info

VPC ID vpc-04e9c280ee8ebf2ec	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP options set dopt-36a2ab51	Main route table rtb-0e8983e94c1817f0b	Main network ACL acl-0f5495c78c3811955
Default VPC No	IPv4 CIDR 40.0.0.0/16	IPv6 pool -	IPv6 CIDR -
Route 53 Resolver DNS Firewall rule groups -	Owner ID 904158542353		

Creating Internet Gateway

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

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New VPC Experience Tell us what you think

VPC Dashboard EC2 Global View

Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs Subnets Route Tables

Internet Gateways

Egress Only Internet Gateways DHCP Options Sets Elastic IPs

Internet gateways (2) info

Filter internet gateways

Actions Create Internet gateway

	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	-	igw-06dee5da7931c8b1e	Attached	vpc-09f5d3ddabfe188c3	904158542353
<input type="checkbox"/>	-	igw-3d84b259	Attached	vpc-d18294b6	904158542353

Create internet gateway [Info](#)

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Internet gateway settings

Name tag

Creates a tag with a key of 'Name' and a value that you specify.

Spelling correction

Open with the left-click (Alt+Down Arrow)

Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key



Value - optional



Remove

Add new tag

You can add 49 more tags.

Cancel

Create internet gateway

Internet gateway created

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Singapore

Support

The following internet gateway was created: igw-0976b54a69e6f4b48. You can now attach to a VPC to enable the VPC to communicate with the internet.

Attach to a VPC

VPC > Internet gateways > igw-0976b54a69e6f4b48

igw-0976b54a69e6f4b48 / myIGW

Actions

Details

Info

Internet gateway ID

igw-0976b54a69e6f4b48

State

Detached

VPC ID

-

Owner

904158542353

Tags

Manage tags

Search tags

< 1 >

Key

Value

Name

myIGW

Attaching VPC with Internet Gateway

VPC > Internet gateways > Attach to VPC (igw-0976b54a69e6f4b48)

Attach to VPC (igw-0976b54a69e6f4b48) [Info](#)

VPC

Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

Available VPCs

Attach the internet gateway to this VPC.

► AWS Command Line Interface command

Cancel

Attach internet gateway

VPC and Internet Gateway attached

Internet gateway igw-0976b54a69e6f4b48 successfully attached to vpc-04e9c280ee8ebf2ec

Internet gateways (3) Info							Filter internet gateways		Actions		Create internet gateway	
<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID	Owner							
<input type="checkbox"/>	-	igw-06dee5da7931c8b1e	Attached	vpc-09f5d3ddabfe188c3	904158542353							
<input type="checkbox"/>	myIGW	igw-0976b54a69e6f4b48	Attached	vpc-04e9c280ee8ebf2ec myvpc	904158542353							
<input type="checkbox"/>	-	igw-3d84b259	Attached	vpc-d18294b6	904158542353							

SUBNET :

Subnets (4) Info											Filter subnets		Actions		Create subnet	
<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Availability Zone								
<input type="checkbox"/>	-	subnet-1ce25345	Available	vpc-d18294b6	172.31.0.0/20	-	4091	ap-southeast-1c								
<input type="checkbox"/>	Public subnet	subnet-0bedc3110643f068a	Available	vpc-09f5d3ddabfe188c3	10.0.0.0/24	-	251	ap-southeast-1c								
<input type="checkbox"/>	-	subnet-20f30946	Available	vpc-d18294b6	172.31.16.0/20	-	4090	ap-southeast-1a								
<input type="checkbox"/>	-	subnet-7e58b336	Available	vpc-d18294b6	172.31.32.0/20	-	4091	ap-southeast-1b								

Creating SUBNET

VPC > Subnets > Create subnet

Create subnet [Info](#)

VPC

VPC ID

Create subnets in this VPC.

vpc-04e9c280ee8ebf2ec (myvpc) ▼

Associated VPC CIDRs

IPv4 CIDRs

40.0.0.0/16

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name

Create a tag with a key of 'Name' and a value that you specify.

my-subnet-01

The name can be up to 256 characters long.

Availability Zone [Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

No preference ▼

IPv4 CIDR block [Info](#)

10.0.0.0/24

▼ Tags - optional

No tags associated with the resource.

Add new tag

You can add 50 more tags.

Remove

Add new subnet

Cancel

Create subnet

SUBNET creation Done

The screenshot shows the AWS Management Console interface for Subnets. A green notification bar at the top states: "You have successfully created 1 subnet: subnet-09e04337fca65a0c6". Below this, the "Subnets (1)" section is active. A search bar contains "Filter subnets". A filter box shows "Subnet ID: subnet-09e04337fca65a0c6" with a "Clear filters" button. A table lists the subnet details:

	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Availability Zone	Availability Zone ID
<input type="checkbox"/>	-	subnet-09e04337fca65a0c6	Available	vpc-04e9c280ee8ebf2ec myvpc	40.0.0.0/16	-	65531	ap-southeast-1c	apse1-az3

ROUTE TABLES:

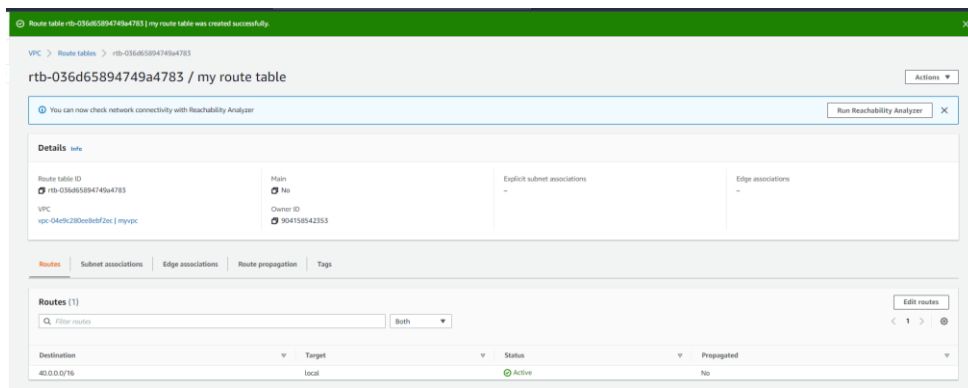
The screenshot shows the AWS Management Console interface for Route tables. The "Route tables (4)" section is active. A search bar contains "Filter route tables". A table lists the route table details:

	Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC	Owner ID
<input type="checkbox"/>	-	rtb-0cb39567289ecd777	-	-	Yes	vpc-09f5d3ddabfe188c3	904158542353
<input type="checkbox"/>	-	rtb-0cbac0904fa38a553	subnet-0bedc3110643f...	-	No	vpc-09f5d3ddabfe188c3	904158542353
<input type="checkbox"/>	-	rtb-0e9883e94c1817fb	-	-	Yes	vpc-04e9c280ee8ebf2ec myvpc	904158542353
<input type="checkbox"/>	-	rtb-7e029818	-	-	Yes	vpc-d18294b6	904158542353

Route Table creation

The screenshot shows the "Create route table" wizard in the AWS Management Console. The "Route table settings" section is active. The "Name - optional" field contains "my route table". The "VPC" dropdown menu is set to "vpc-04e9c280ee8ebf2ec (myvpc)". The "Tags" section shows a key-value pair: "Name" with value "my route table". At the bottom, there are "Cancel" and "Create route table" buttons.

Route Table creation done



Launching Instance with Custom VPC.

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

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 [Create new VPC](#)

Subnet [Create new subnet](#)
65531 IP Addresses available

Auto-assign Public IP ☒ Enable

Placement group ☐ Add instance to placement group

Capacity Reservation

Domain join directory [Create new directory](#)

IAM role [Create new IAM role](#)

Shutdown behavior

Stop - Hibernate behavior ☐ Enable hibernation as an additional stop behavior

Enable termination protection ☒ Protect against accidental termination

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

Review and Launch

aws

Services

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Singapore

Support

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

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.

⚠️ Improve your instances' security. Your security group, instance-VPC_SCG, is open to the world.

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.

You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

▼ AMI Details

centos-8-pke-1.17.16-202101261227 - ami-0002133c28152151b

PKE pre-cached image based on CentOS 8 by Banzai Cloud

Root Device Type: ebs Virtualization type: hvm

[Edit AMI](#)

▼ Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance
t2.micro	-	1	1	EBS only	-	Low to Moderate

[Edit instance type](#)

▼ Security Groups

Security group name

instance-VPC_SCG

Description

launch-wizard-1 created 2021-09-02T00:16:55.483+05:30

[Edit security groups](#)

Cancel

Previous

Launch

Instance configured with Custom VPC

Instances (1/1)

Info

🔄

Connect

Instance state ▼

Actions ▼

Launch instances

▼

Q Filter instances

< 1 > ⚙️

search: i-00aa4f1be82d896bd ✕

Clear filters

☑	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Avai
☑	VPC 🔗	i-00aa4f1be82d896bd	🟢 <u>Running</u> 🔍	t2.micro	-	No alarms +	ap-s

ELASTIC BENSTALK

Elastic Beanstalk

×

Environments

Applications

Change history

Elastic Beanstalk > Getting started

Create a web app

Create a new application and environment with a sample application or your own code. By creating an environment, you allow Amazon Elastic Beanstalk to manage Amazon Web Services resources and permissions on your behalf. [Learn more](#)

Application information

Application name

ElasticBeanstalk-DEMO

Up to 100 Unicode characters, not including forward slash (/).

Application tags

Apply up to 50 tags. You can use tags to group and filter your resources. A tag is a key-value pair. The key must be unique within the resource and is case-sensitive. [Learn more](#)

Key

Value

Remove tag

Add tag

50 remaining

Platform

Platform

PHP

Platform branch

PHP 8.0 running on 64bit Amazon Linux 2

Platform version

3.3.4 (Recommended)

Application code

☒ Sample application

Get started right away with sample code.

☐ Upload your code

Upload a source bundle from your computer or copy one from Amazon S3.

Cancel

Configure more options

Create application


Launched Elastic beanstalk

Q Search for services, features, marketplace products, and docs

[Alt+S]

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Elastic Beanstalk > Environments > Elasticbeanstalkdemo-env

 **Creating Elasticbeanstalkdemo-env**
This will take a few minutes. ..

12:23am Environment health has transitioned to Pending. Initialization in progress (running for 6 seconds). There are no instances.

12:23am Created security group named:
awseb-e-4xiew324h3-stack-AWSEBSecurityGroup-1H86SYDKA1X44

12:23am Created security group named:
sg-Ofebe9b1381b68c7e

12:23am Created target group named:
arn:aws:elasticloadbalancing:ap-southeast-1:904158542353:targetgroup/awseb-AWSEB-BOK3RNEIQVTR/85e12a9bfc06f7dc

12:22am Using elasticbeanstalk-ap-southeast-1-904158542353 as Amazon S3 storage bucket for environment data.


12:22am createEnvironment is starting.


Creating Environment

Elastic Beanstalk > Create environment

Select environment tier

Amazon Elastic Beanstalk has two types of environment tiers to support different types of web applications. Web servers are standard applications that listen for and then process HTTP requests, typically over port 80. Workers are specialized applications that have a background processing task that listens for messages on an Amazon SQS queue. Worker applications post those messages to your application by using HTTP.

☒ **Web server environment**
Run a website, web application, or web API that serves HTTP requests.
[Learn more](#) 

☐ **Worker environment**
Run a worker application that processes long-running workloads on demand or performs tasks on a schedule.
[Learn more](#) 

Cancel

Select

Creating a web server Environment

[Elastic Beanstalk](#) > Create environment

Create a web server environment

Launch an environment with a sample application or your own code. By creating an environment, you allow Amazon Elastic Beanstalk to manage Amazon Web Services resources and permissions on your behalf. [Learn more](#)

Application information

Application name

ElasticBeanstalk-DEMO

Up to 100 Unicode characters, not including forward slash (/).

► Application tags (optional)

Environment information

Choose the name, subdomain, and description for your environment. These cannot be changed later.

Environment name

Elasticbeanstalkdemo-env-1

Domain

Elasticbeanstalkdemo .ap-southeast-1.elasticbear

Check availability

✔ Elasticbeanstalkdemo.ap-southeast-1.elasticbeanstalk.com is available.

Description

Platform

☒ Managed platform
Platforms published and maintained by Amazon Elastic Beanstalk. [Learn more](#)

☐ Custom platform
Platforms created and owned by you.

Platform

PHP

Platform branch

PHP 8.0 running on 64bit Amazon Linux 2

Platform version

3.3.4 (Recommended)

Application code

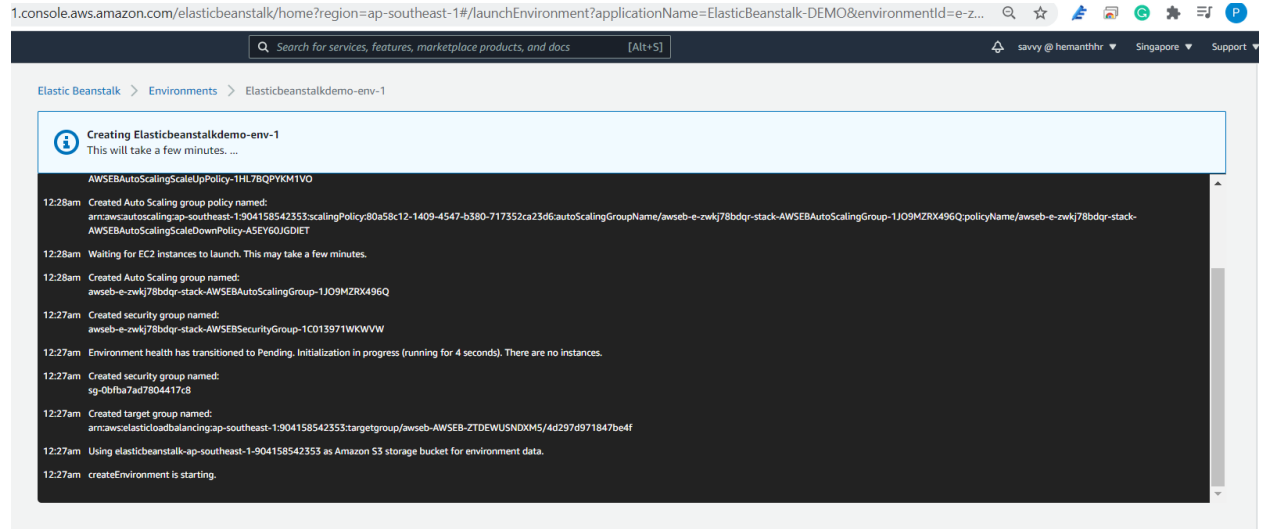
☒ Sample application
Get started right away with sample code.

☐ Existing version
Application versions that you have uploaded for ElasticBeanstalk-DEMO.

-- Choose a version --

☐ Upload your code
Upload a source bundle from your computer or copy one from Amazon S3.

Cancel



Sample application with ElasticBenstalk

