

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.

assignmenttype

IPv4 CIDR block [Info](#)

30.0.0.0/16

IPv6 CIDR block [Info](#)

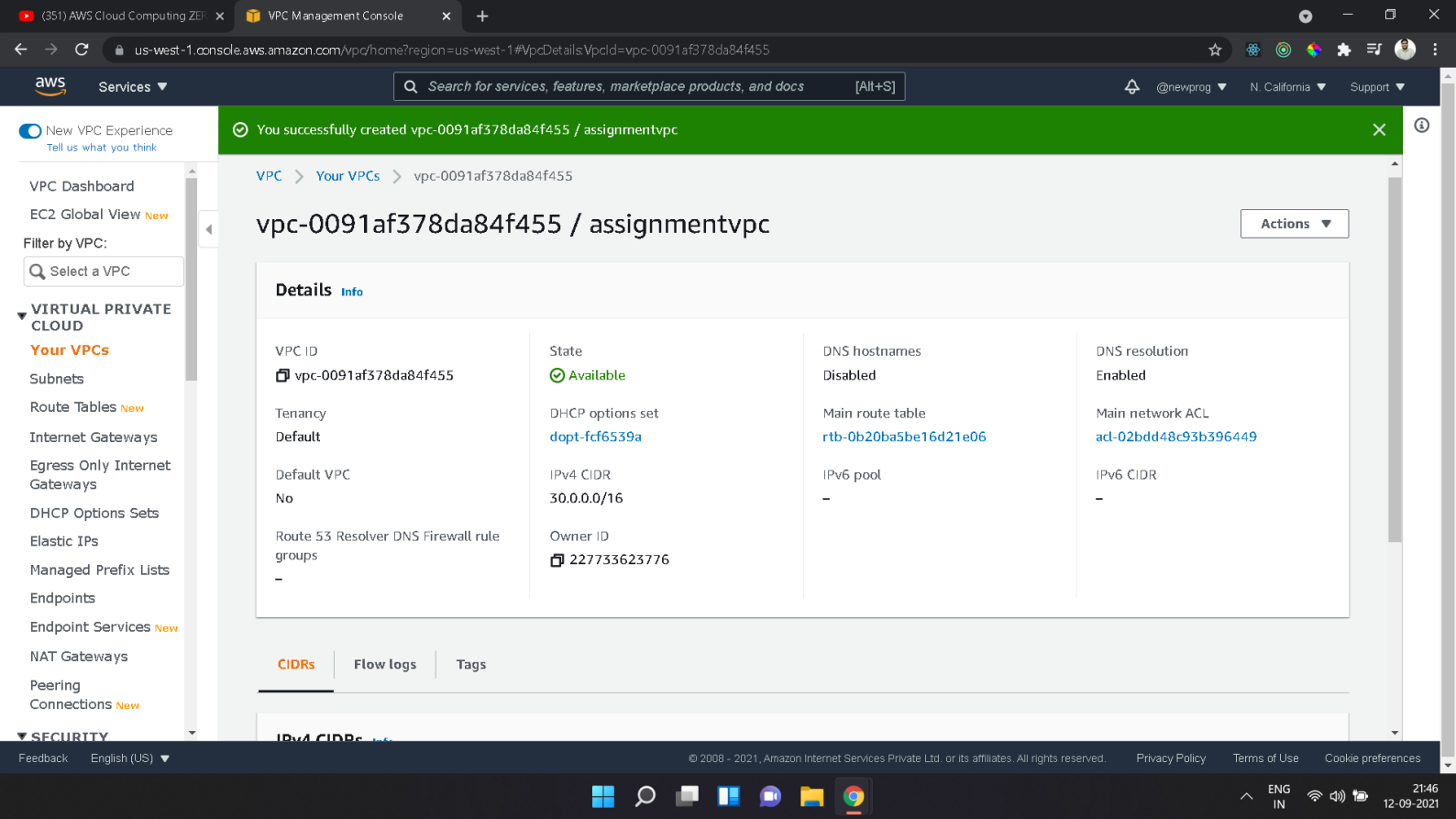
- ☒ No IPv6 CIDR block
- ☐ Amazon-provided IPv6 CIDR block
- ☐ IPv6 CIDR owned by me

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.



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

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 (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

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

Cancel Previous Review and Launch Next: Configure Instance Details

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. 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 ⁱ	Device ⁱ	Snapshot ⁱ	Size (GiB) ⁱ	Volume Type ⁱ	IOPS ⁱ	Throughput (MB/s) ⁱ	Delete on Termination ⁱ	Encryption ⁱ
Root	/dev/xvda	snap-0a28026ce52366baa	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

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

Cancel Previous Review and Launch Next: Add Tags

- 1. Choose AMI
- 2. Choose Instance Type
- 3. Configure Instance
- 4. Add Storage
- 5. Add Tags
- 6. Configure Security Group
- 7. 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 ⓘ	Volumes ⓘ	Network Interfaces ⓘ
name	myassignmentinstance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add another tag (Up to 50 tags maximum)

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:

Description:

Type <small>i</small>	Protocol <small>i</small>	Port Range <small>i</small>	Source <small>i</small>	Description <small>i</small>
All traffic <small>v</small>	All	0 - 65535	Custom <small>v</small> 0.0.0.0/0	e.g. SSH for Admin Desktop <small>x</small>


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.

- 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, launch-wizard-1, 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

 **Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-011996ff98de391d1**
Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is a...
Root Device Type: ebs Virtualization type: hvm

Instance Type

Edit instance type

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

Security Groups

Edit security groups

Security group name launch-wizard-1

Cancel Previous **Launch**

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

Services

Search for services, features, marketplace products, and docs

Search

Search for services, features, marketplace products, and docs

[Alt+S]

newprog

N. California

Support

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 se

Your instances may be accessible from any IP addre

You can also open additional ports in your security g

AMI Details

Free tier eligible

Amazon Linux 2 AMI (HVM), SSD Volume

Amazon Linux 2 comes with five years support. It provi

AMI is the successor of the Amazon Linux AMI that is a

Root Device Type: ebs Virtualization type: hvm

Instance Type

Instance Type	ECUs	vCPUs	M
t2.micro	-	1	1

Security Groups

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

assignmentkeypair

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

Previous

Launch

Feedback

English (US)

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assignmentkeypair.pem

Show all

21:49

12-09-2021

Launch Status

✓ Your instances are now launching
The following instance launches have been initiated: [i-0df5297b1cef854d0](#) [View launch log](#)

i 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](#)

(353) AWS Cloud Computing ZEP

Instances | EC2 Management Co

←

→

↺

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

☆

aws

Services ▾

🔍

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New EC2 Experience

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EC2 Dashboard

Events

Tags

Limits

Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances New

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Instances (1/4) Info

🔄

Connect

Instance state ▾

Actions ▾

Launch instances

▾

🔍

Filter instances

⏪ 1 ⏩

⚙️

<input checked="" type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾	Public IPv4 DNS
<input checked="" type="checkbox"/>	myassignmenti...	i-0df5297b1cef854d0	🟢 Running 🔍	t2.micro	-	No alarms +	us-west-1c	ec2-54-241-41-
<input type="checkbox"/>	-	i-0c0ea742d7f38308d	⚪ Terminated 🔍	t2.micro	-	No alarms +	us-west-1b	-
<input type="checkbox"/>	Mynewapp-env	i-05d9139b9f3d36610	⚪ Terminated 🔍	t2.micro	-	No alarms +	us-west-1b	-
<input type="checkbox"/>	Mynewapp-env	i-0a0dff329938bd430	⚪ Terminated 🔍	t2.micro	-	No alarms +	us-west-1b	-

Instance: i-0df5297b1cef854d0

×

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

▼ Instance summary Info

Instance ID

i-0df5297b1cef854d0

IPv6 address

-

Public IPv4 address

54.241.41.71 | [open address](#)

Instance state

🟢 Running

Private IPv4 addresses

172.31.19.150

Public IPv4 DNS

ec2-54-241-41-71.us-west-1.compute.amazonaws.com | [open address](#)

Feedback

English (US) ▾

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IN

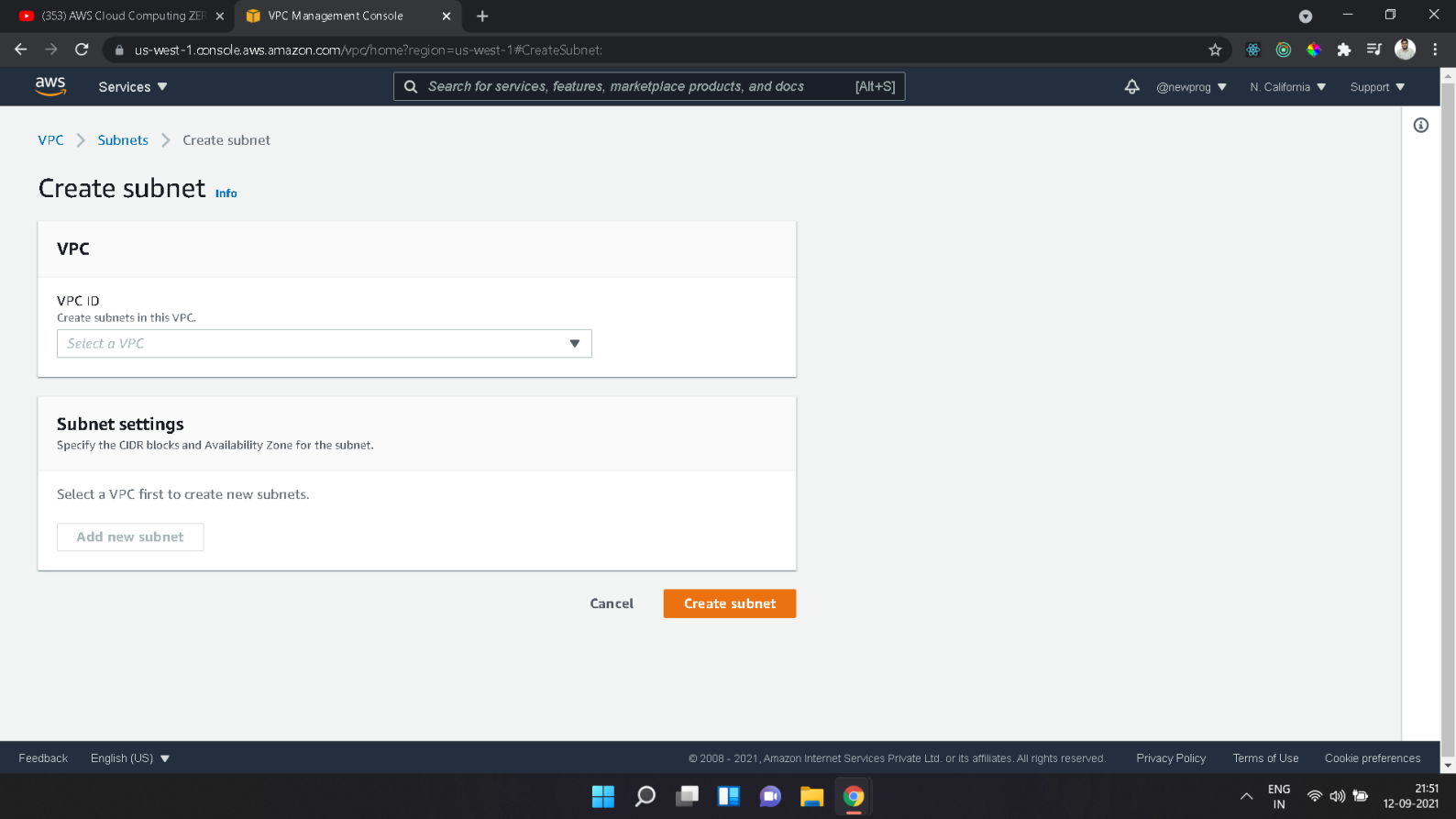
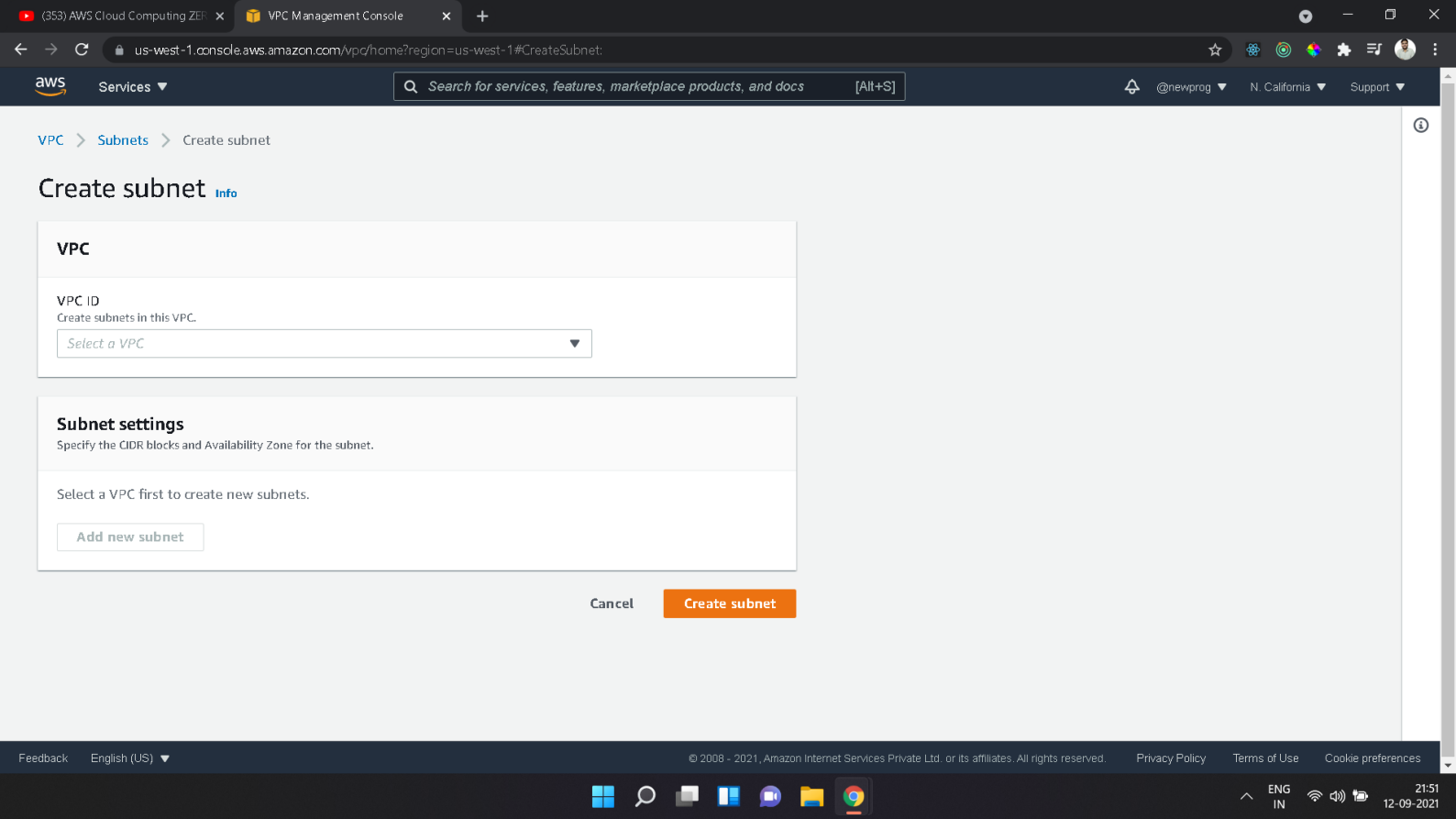
📶

🔊

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21:50

12-09-2021



Subnet 1 of 1

Subnet name

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

assignmentsubnet

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.

US West (N. California) / us-west-1c

IPv4 CIDR block [Info](#)

Q 30.0.0.0/16

▼ Tags - *optional*

Key

Value - *optional*

Q Name

🔍 assignmentsubnet

Remove

Add new tag

You can add 49 more tags.

Remove

Add new subnet

(353) AWS Cloud Computing ZEP

Create internet gateway | VPC M

us-west-1.console.aws.amazon.com/vpc/home?region=us-west-1#CreateInternetGateway

☆

aws

Services

Q

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Support

VPC

>

Internet gateways

>

Create internet gateway

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.

my-internet-gateway

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.

No tags associated with the resource.

Add new tag

You can add 50 more tags.

Cancel

Create internet gateway

Feedback

English (US)

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12-09-2021

VPC > Internet gateways > Attach to VPC (igw-0cc8fe365bdc7dbb3)

Attach to VPC (igw-0cc8fe365bdc7dbb3) [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.

Q Select a VPC

vpc-0091af378da84f455 - assignmentvpc

► **AWS Command Line Interface command**

Cancel

Attach internet gateway

Create internet gateway

Feedback English (US) ▼

< 1 >

<input type="checkbox"/>	Name ▾	Internet gateway ID ▾	State ▾	VPC ID ▾	Owner ▾
<input type="checkbox"/>	assignmentgateway	igw-0cc8fe365bdc7dbb3	✔ Attached	vpc-0091af378da84f455 assignme...	227733623776
<input type="checkbox"/>	-	igw-2376de44	✔ Attached	vpc-64cd6702	227733623776

Select an internet gateway above

[Amazon S3](#) > [Create bucket](#)

Create bucket [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

General configuration

Bucket name

assignmentbucket

Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

AWS Region

US West (N. California) us-west-1

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

Choose bucket

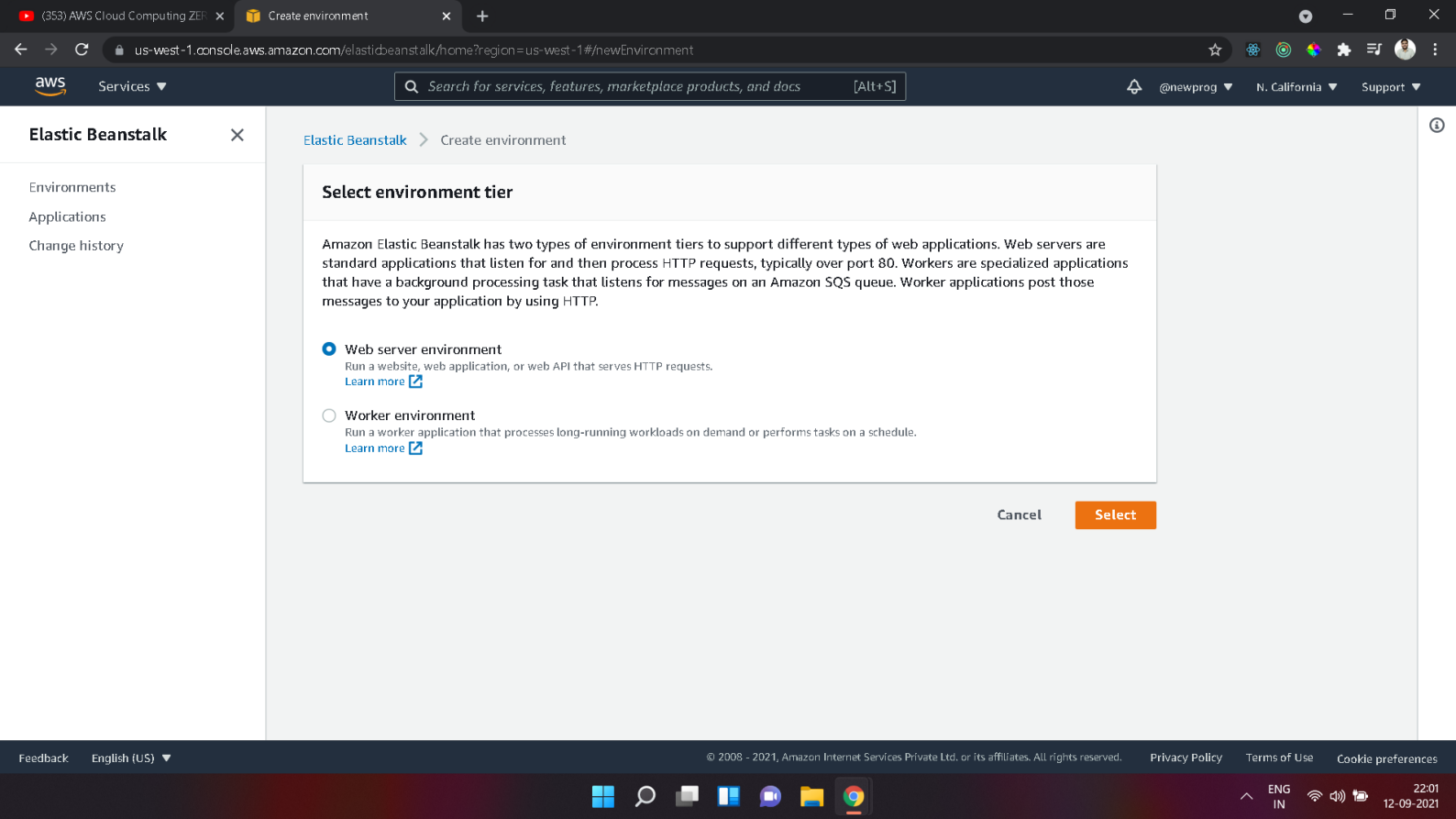
Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on **Block all public access**. These settings apply only to this bucket and its access points. AWS recommends that you turn on **Block all public access**, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you

X



21:58
9-2021



Elastic Beanstalk

- Environments
- Applications
- Change history

Elastic Beanstalk > Create environment

Select environment tier

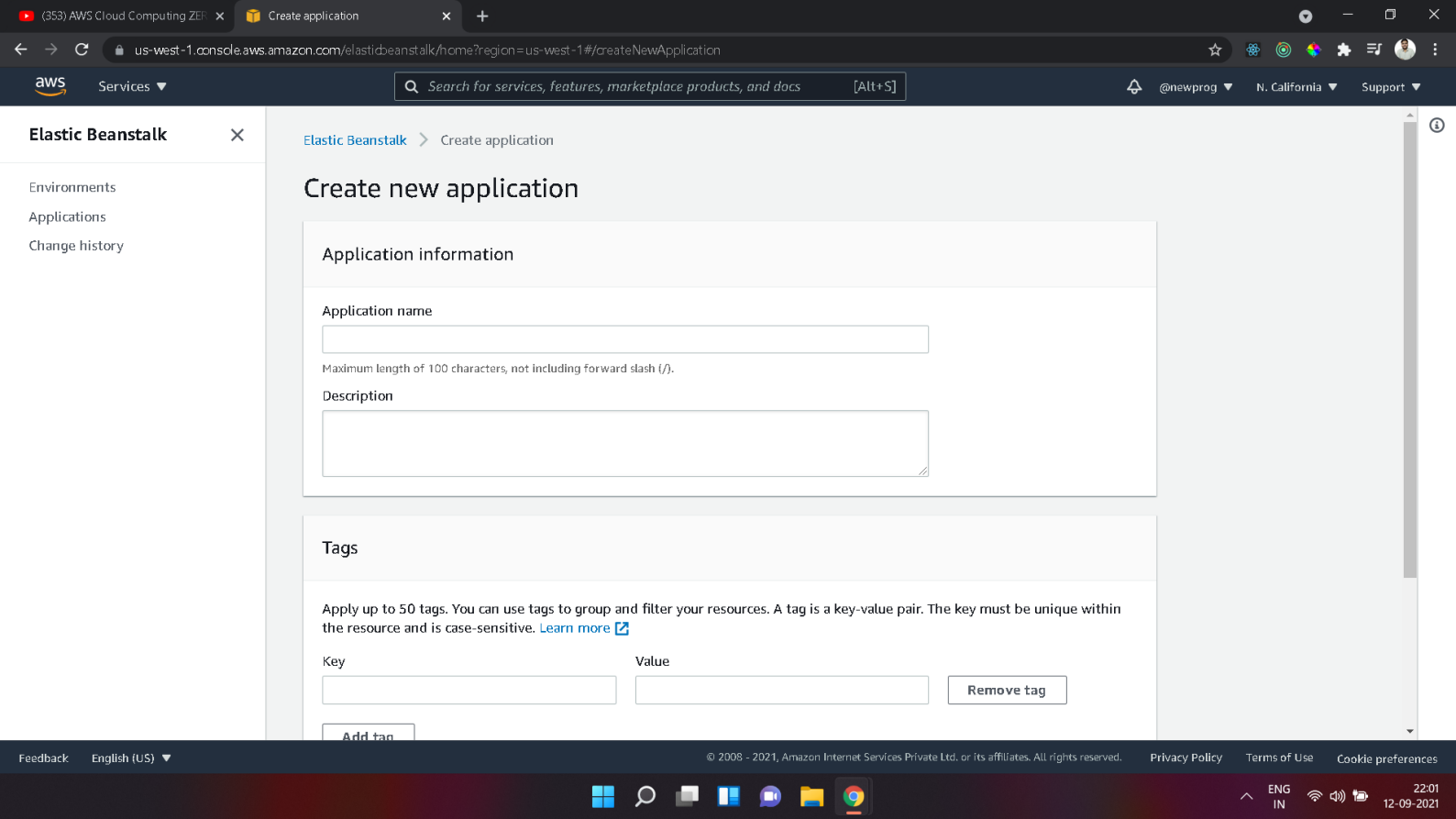
Amazon Elastic Beanstalk has two types of environment tiers to support different types of web applications. Web servers are standard applications that listen for and then process HTTP requests, typically over port 80. Workers are specialized applications that have a background processing task that listens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

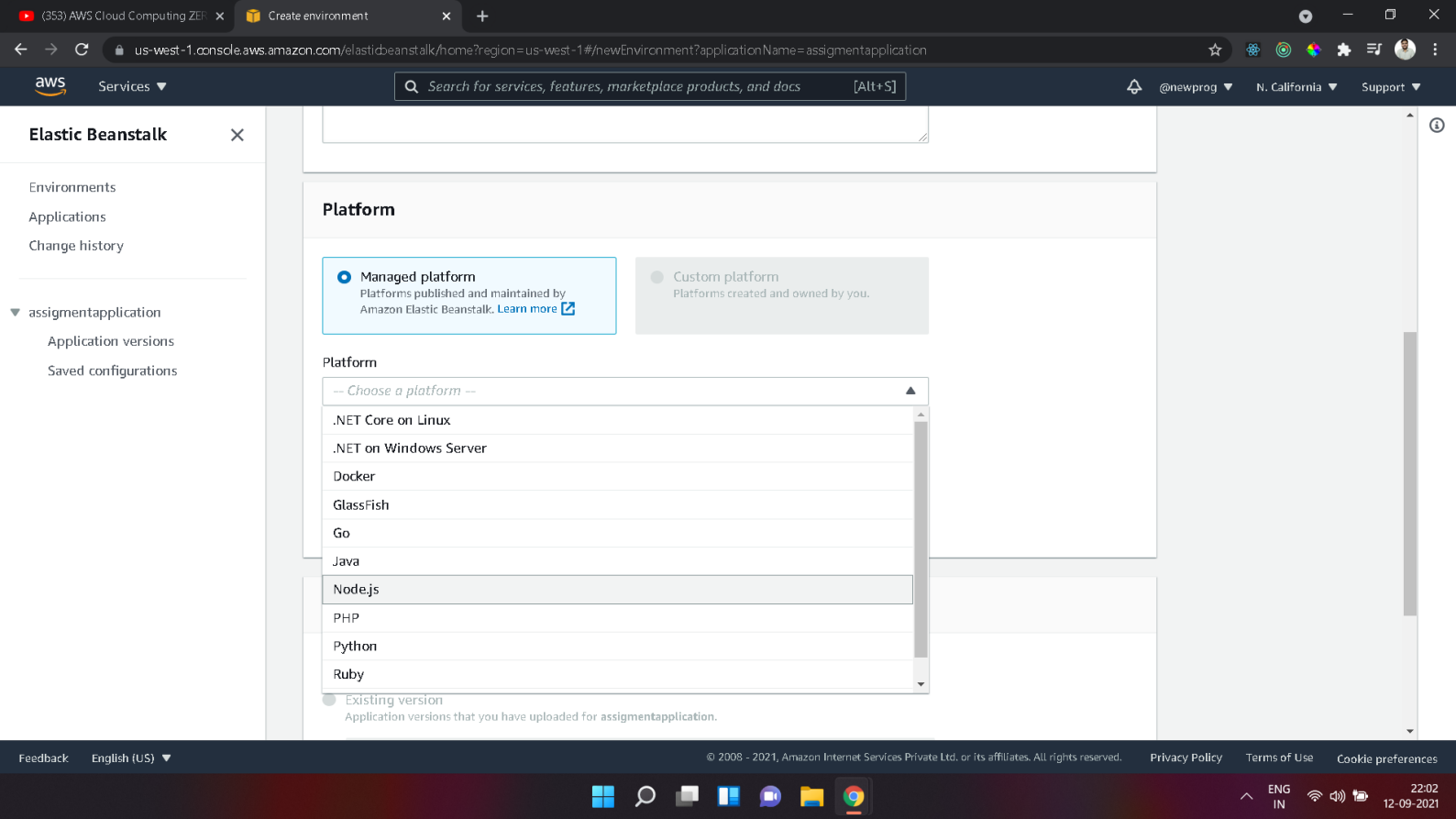
- ☒ **Web server environment**
Run a website, web application, or web API that serves HTTP requests.
[Learn more](#)
- ☐ **Worker environment**
Run a worker application that processes long-running workloads on demand or performs tasks on a schedule.
[Learn more](#)

Cancel

Select







Elastic Beanstalk

Environments

Applications

Change history

assignmentapplication

Application versions

Saved configurations

Platform

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

☐ **Custom platform**
Platforms created and owned by you.

Platform

-- Choose a platform --

.NET Core on Linux

.NET on Windows Server

Docker

GlassFish

Go

Java

Node.js

PHP

Python

Ruby

☐ **Existing version**
Application versions that you have uploaded for assignmentapplication.

us-west-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-west-1#/launchEnvironment?applicationName=assignmentapplication&environmentId=e-2ygtptmgw

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Services

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Support

Elastic Beanstalk

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assignmentapplication

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Assignmentapplication-env

Elastic Beanstalk > Environments > Assignmentapplication-env

Creating Assignmentapplication-env

This will take a few minutes. ...

10:02pm Using elasticbeanstalk-us-west-1-227733623776 as Amazon S3 storage bucket for environment data.

10:02pm createEnvironment is starting.

Feedback

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IN

22:02

12-09-2021

- 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

1

Launch into Auto Scaling Group

Purchasing option

☐ Request Spot instances

Network

vpc-0091af378da84f455 | assignmentvpc

Create new VPC

Subnet

subnet-00aa484c51d8f5adb | assignmentsubnet

Create new subnet

65531 IP Addresses available

Auto-assign Public IP

Use subnet setting (Disable)

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

- 1. Choose AMI
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
Step 7: Review Instance Launch

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 **Improve your instances' security. Your security group, launch-wizard-2, is open to the world.**
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AMI Details

Edit AMI

 **Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-011996ff98de391d1**

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is a...

Root Device Type: ebs Virtualization type: hvm

Instance Type

Edit instance type

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

Security Groups

Edit security groups

Security group name	launch-wizard-2
---------------------	-----------------

Cancel Previous **Launch**

Launch Status

✓ Your instances are now launching
The following instance launches have been initiated: [i-0e116b1971b1393f7](#) [View launch log](#)

i 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

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Here are some helpful resources to get you started

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- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

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- [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](#)

Elastic Beanstalk

Environments

Applications

Change history

Elastic Beanstalk > Environments

All environments



Actions ▼

Create a new environment

 *Filter results matching the display values*

< 1 >



	Environment name ▲	Health ▼	Application name ▼	Date created ▼	Last modified ▼	URL ▼	Running versions ▼	Platform
<input type="radio"/>	Assignmentapplication-env	OK	assignmentapplication	2021-09-12 22:02:34 UTC+0530	2021-09-12 22:05:45 UTC+0530	Assignmentapplication-env.eba-dmifpith.us-west-1.elasticbeanstalk.com	Sample Application	Node.js 16 running on 64bit Amazon Linux 2
<input type="radio"/>	Mynewapp-env (terminated)	-	mynewapp	2021-09-12 21:22:58 UTC+0530	2021-09-12 21:37:20 UTC+0530	Mynewapp-env.eba-4twjyc2u.us-west-1.elasticbeanstalk.com	Sample Application	Node.js 16 running on 64bit Amazon Linux 2

us-west-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-west-1#/environment/dashboard?applicationName=assignmentapplication&environmentId=e-2ygtptmcjw

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Elastic Beanstalk

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Assignmentapplication-env

Go to environment

Configuration

Logs

Health

Monitoring

Alarms

Managed updates

Events

Tags

Elastic Beanstalk > Environments > Assignmentapplication-env

Assignmentapplication-env

Assignmentapplication-env.eba-dmifpith.us-west-1.elasticbeanstalk.com (e-2ygtptmcjw)

Application name: assignmentapplication

Refresh

Actions

Health

Ok

Causes

Running version

Sample Application

Upload and deploy

Platform

nodejs

Node.js 14 running on 64bit Amazon Linux 2/5.4.5

Change

Recent events

Show all

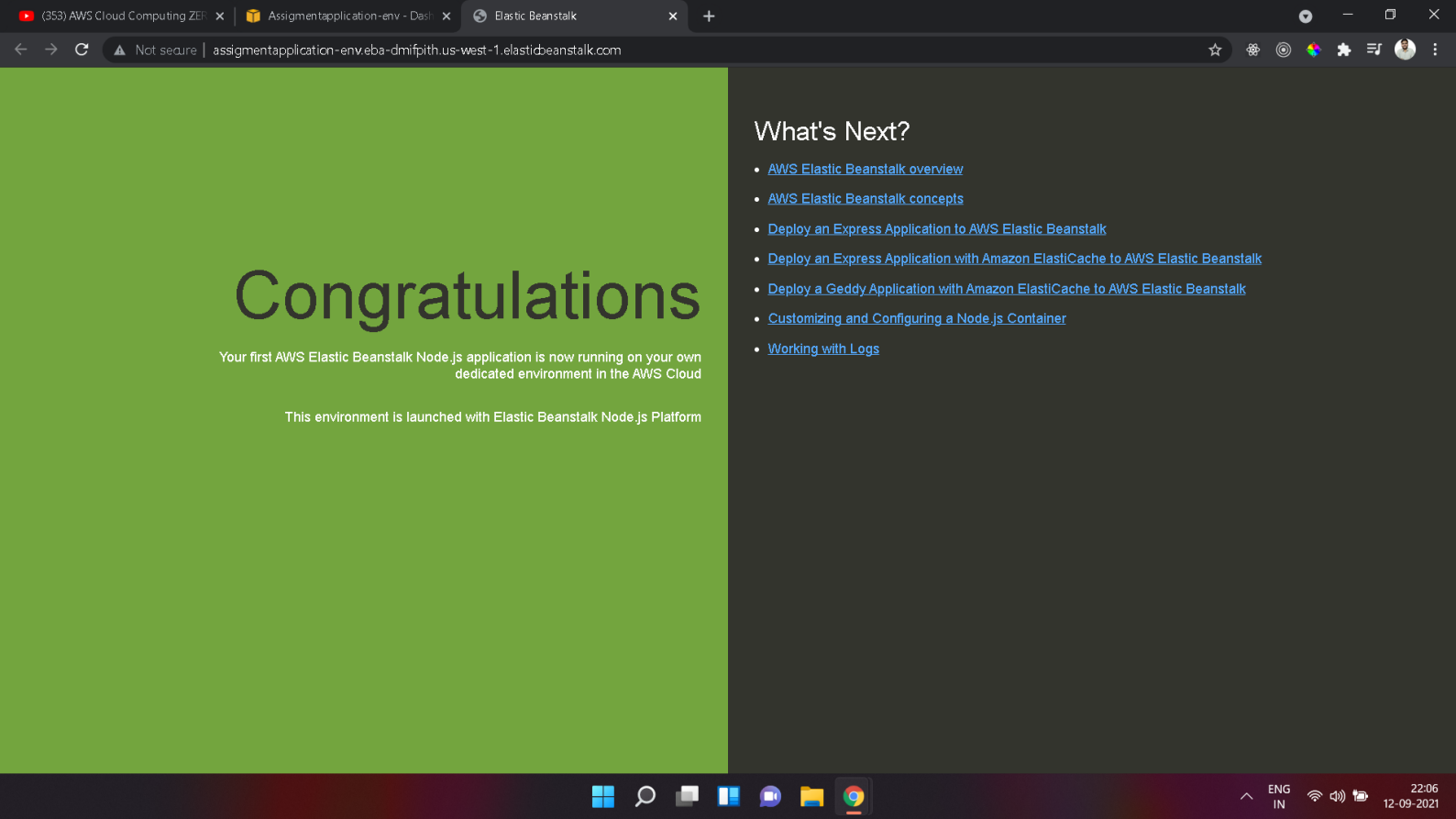
< 1 >

Time	Type	Details
2021-09-12 22:06:01 UTC+0530	INFO	Added instance [i-01090472859f71214] to your environment.
2021-09-12 22:06:01	INFO	Environment health has transitioned from Pending to Ok. Initialization completed 27 seconds ago and took 3

FeedbackEnglish (US)

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22:0612-09-2021



Congratulations

Your first AWS Elastic Beanstalk Node.js application is now running on your own dedicated environment in the AWS Cloud

This environment is launched with Elastic Beanstalk Node.js Platform

What's Next?

- [AWS Elastic Beanstalk overview](#)
- [AWS Elastic Beanstalk concepts](#)
- [Deploy an Express Application to AWS Elastic Beanstalk](#)
- [Deploy an Express Application with Amazon ElastiCache to AWS Elastic Beanstalk](#)
- [Deploy a Geddy Application with Amazon ElastiCache to AWS Elastic Beanstalk](#)
- [Customizing and Configuring a Node.js Container](#)
- [Working with Logs](#)