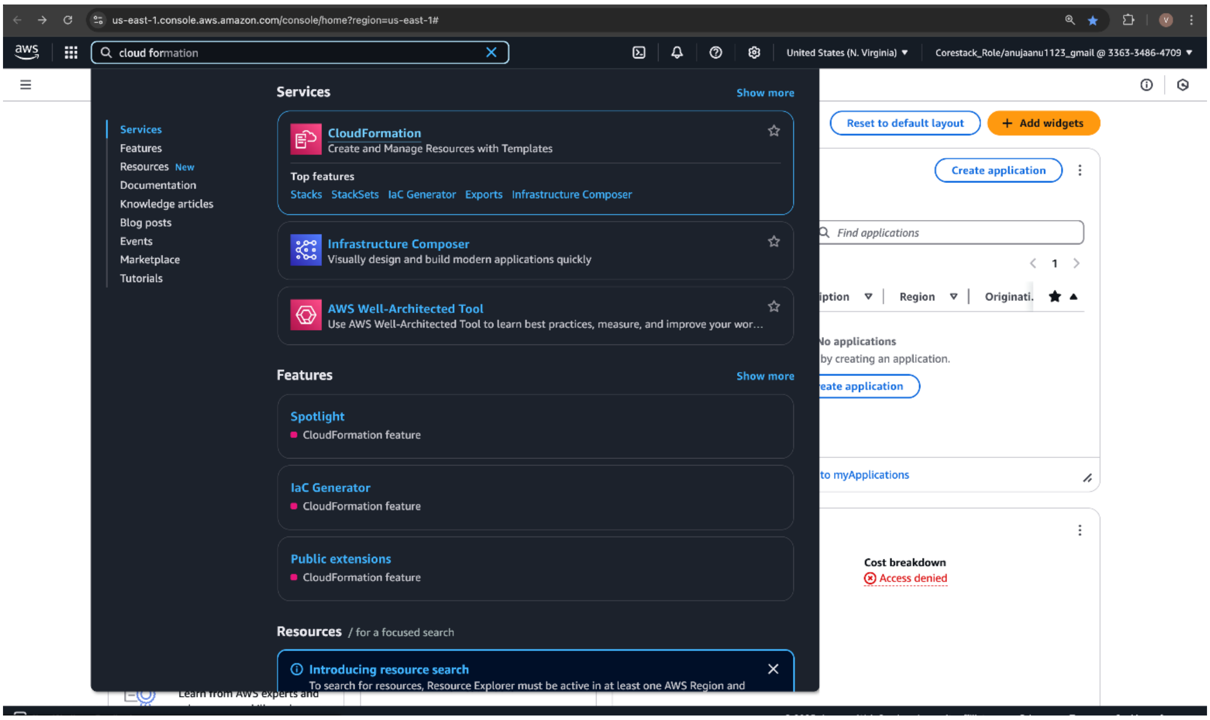
# WORD PRESS CREATION USING CLOUD FORMATION

Open AWS console and search for cloud formation.



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

cloud formation

CloudFormation
Create and Manage Resources with Templates

Infrastructure Composer
Visually design and build modern applications quickly

AWS Well-Architected Tool
Use AWS Well-Architected Tool to learn best practices, measure, and improve your wor…

Spotlight
CloudFormation feature

IaC Generator
CloudFormation feature

Public extensions
CloudFormation feature

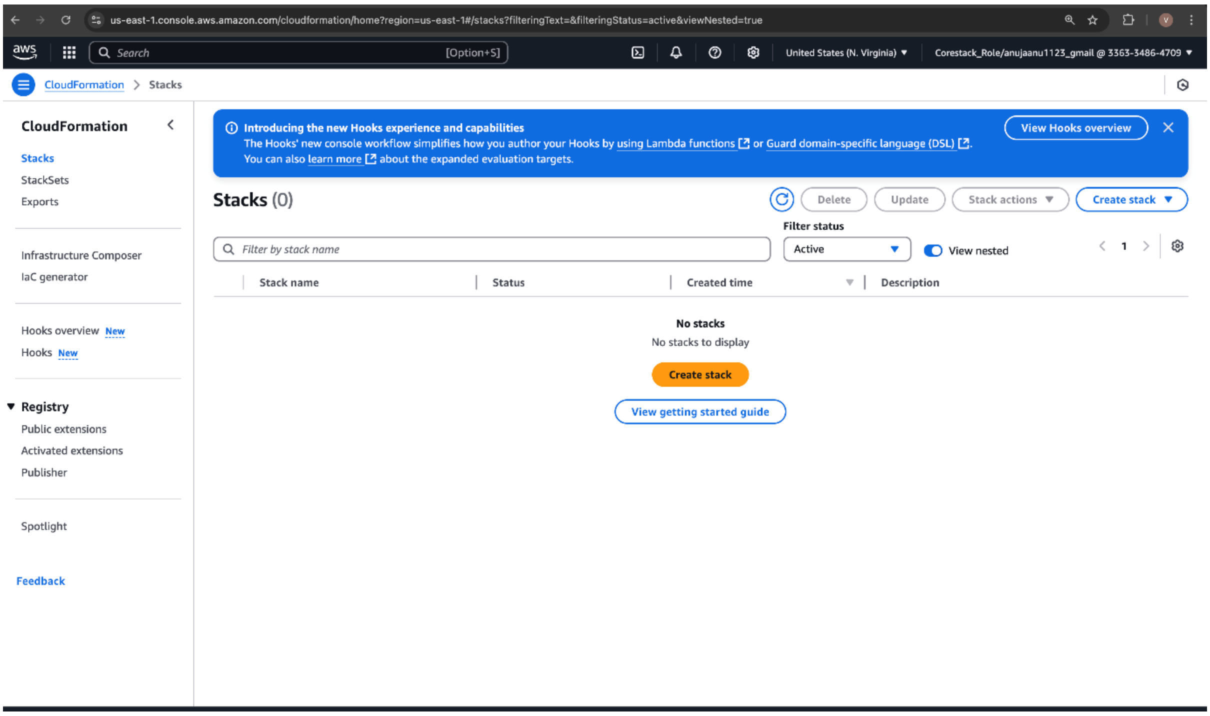
Resources / for a focused search

Introducing resource search
To search for resources, Resource Explorer must be active in at least one AWS Region and

No applications
by creating an application.

to myApplications

And after that click on create stack.



us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks?filteringText=&filteringStatus=active&viewNested=true

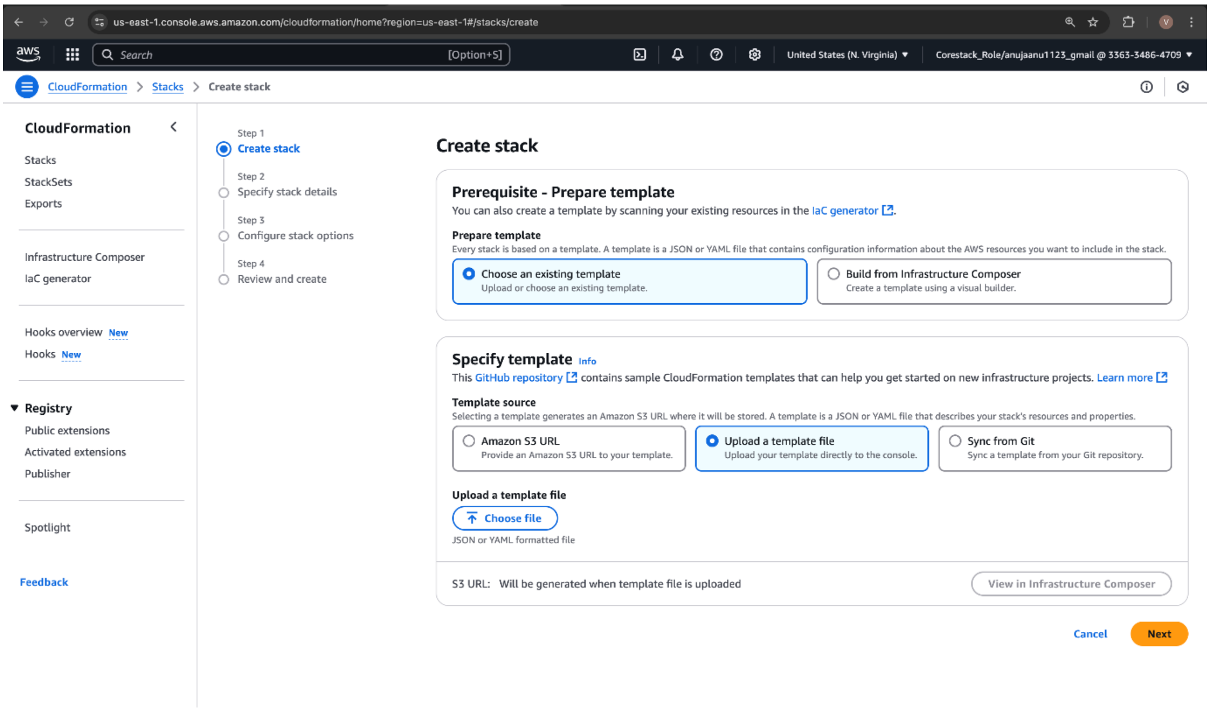
Introducing the new Hooks experience and capabilities
The Hooks' new console workflow simplifies how you author your Hooks by using Lambda functions or Guard domain-specific language (DSL).
You can also learn more about the expanded evaluation targets.

Stacks (0)

No stacks
No stacks to display

And choose specify template as upload a template file.

We need to create our wordpress template and get it ready. So after that we need to upload our .yaml file in that choose file option.



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

United States (N. Virginia) ▾ Corestack_Role/anujaanu1123_gmail @ 3363-3486-4709 ▾

CloudFormation > Stacks > Create stack

Step 1 Create stack
Step 2 Specify stack details
Step 3 Configure stack options
Step 4 Review and create

**Create stack**

**Prerequisite - Prepare template**

You can also create a template by scanning your existing resources in the IaC generator.

**Prepare template**

Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.

● Choose an existing template — Upload or choose an existing template.
○ Build from Infrastructure Composer — Create a template using a visual builder.

**Specify template** Info

This GitHub repository contains sample CloudFormation templates that can help you get started on new infrastructure projects. Learn more

**Template source**

Selecting a template generates an Amazon S3 URL where it will be stored. A template is a JSON or YAML file that describes your stack's resources and properties.

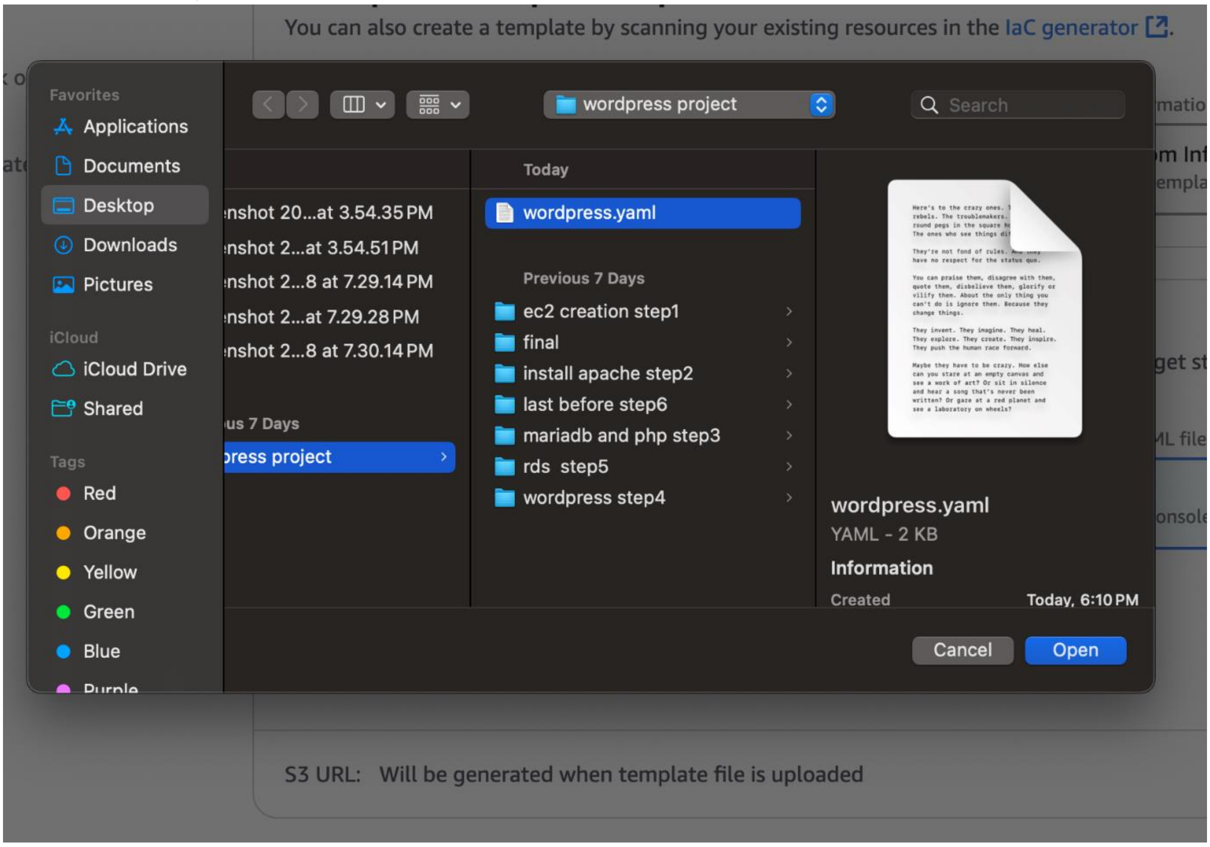
○ Amazon S3 URL — Provide an Amazon S3 URL to your template.
● Upload a template file — Upload your template directly to the console.
○ Sync from Git — Sync a template from your Git repository.

**Upload a template file**

Choose file

JSON or YAML formatted file

S3 URL: Will be generated when template file is uploaded



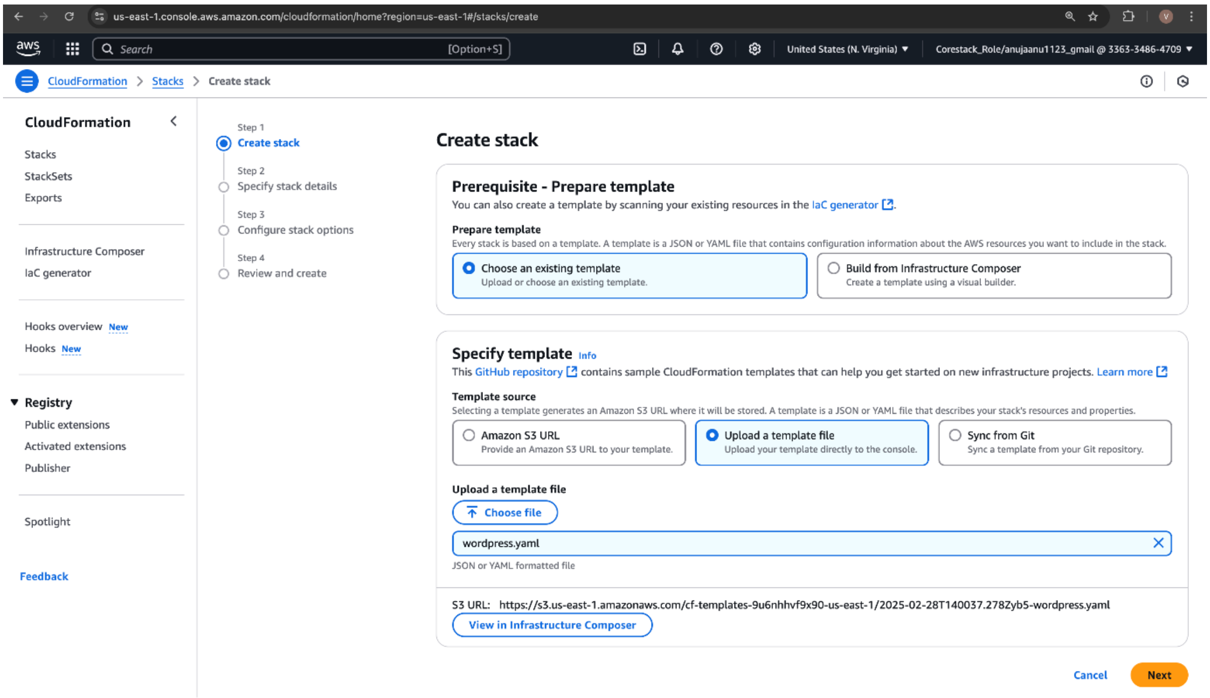
You can also create a template by scanning your existing resources in the IaC generator.

nshot 20...at 3.54.35 PM
nshot 2...at 3.54.51 PM
nshot 2...8 at 7.29.14 PM
nshot 2...at 7.29.28 PM
nshot 2...8 at 7.30.14 PM
us 7 Days
ress project

Today
wordpress.yaml
Previous 7 Days
ec2 creation step1
final
install apache step2
last before step6
mariadb and php step3
rds step5
wordpress step4

wordpress.yaml
YAML - 2 KB
Information
Created Today, 6:10 PM

S3 URL: Will be generated when template file is uploaded



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

Search [Option+S] United States (N. Virginia) ▼ Corestack_Role/anujaanu1123_gmail @ 3363-3486-4709 ▼

CloudFormation > Stacks > Create stack

CloudFormation

- Stacks
- StackSets
- Exports
- Infrastructure Composer
- IaC generator
- Hooks overview New
- Hooks New
- ▼ Registry
  - Public extensions
  - Activated extensions
  - Publisher
- Spotlight

Feedback

Step 1 ● Create stack
Step 2 ○ Specify stack details
Step 3 ○ Configure stack options
Step 4 ○ Review and create

## Create stack

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● Upload a template file — Upload your template directly to the console.
○ Sync from Git — Sync a template from your Git repository.

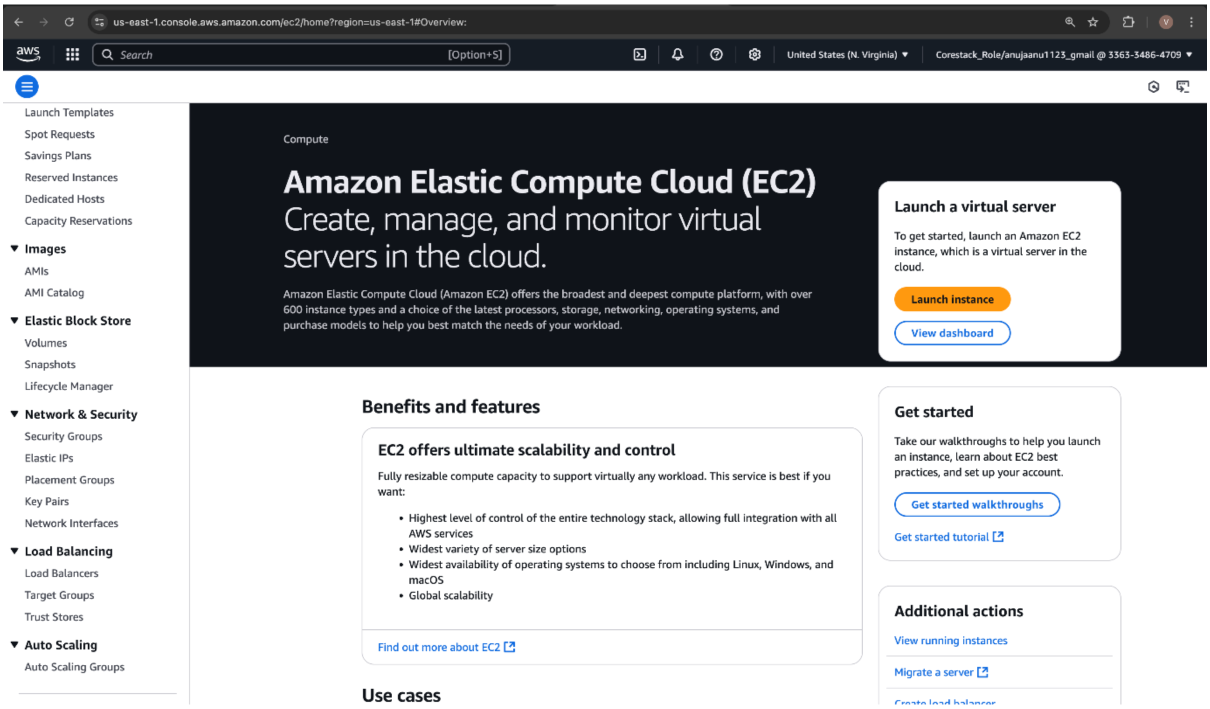
**Upload a template file**
Choose file
wordpress.yaml
JSON or YAML formatted file

S3 URL: https://s3.us-east-1.amazonaws.com/cf-templates-9u6nhhvf9x90-us-east-1/2025-02-28T140037.278Zyb5-wordpress.yaml

View in Infrastructure Composer

Cancel Next

Then we need to create one keypair for our template and we need to add that keypair to template. First we need to open ec2 page and click on key pair.



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

Search [Option+S] United States (N. Virginia) ▼ Corestack_Role/anujaanu1123_gmail @ 3363-3486-4709 ▼

- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations
- ▼ Images
  - AMIs
  - AMI Catalog
- ▼ Elastic Block Store
  - Volumes
  - Snapshots
  - Lifecycle Manager
- ▼ Network & Security
  - Security Groups
  - Elastic IPs
  - Placement Groups
  - Key Pairs
  - Network Interfaces
- ▼ Load Balancing
  - Load Balancers
  - Target Groups
  - Trust Stores
- ▼ Auto Scaling
  - Auto Scaling Groups

Compute

# Amazon Elastic Compute Cloud (EC2)

Create, manage, and monitor virtual servers in the cloud.

Amazon Elastic Compute Cloud (Amazon EC2) offers the broadest and deepest compute platform, with over 600 instance types and a choice of the latest processors, storage, networking, operating systems, and purchase models to help you best match the needs of your workload.

### Launch a virtual server

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

Launch instance
View dashboard

### Benefits and features

**EC2 offers ultimate scalability and control**

Fully resizable compute capacity to support virtually any workload. This service is best if you want:

- Highest level of control of the entire technology stack, allowing full integration with all AWS services
- Widest variety of server size options
- Widest availability of operating systems to choose from including Linux, Windows, and macOS
- Global scalability

Find out more about EC2

### Get started

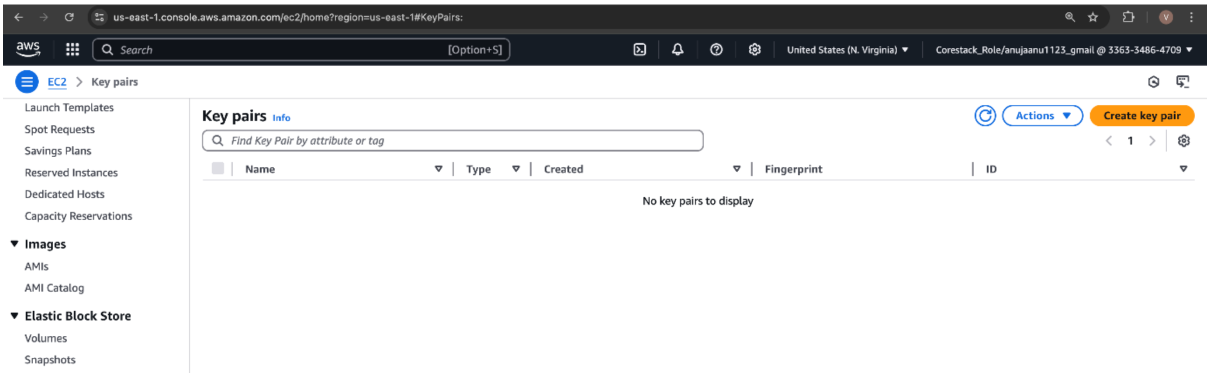
Take our walkthroughs to help you launch an instance, learn about EC2 best practices, and set up your account.

Get started walkthroughs
Get started tutorial

### Additional actions

View running instances
Migrate a server
Create load balancer

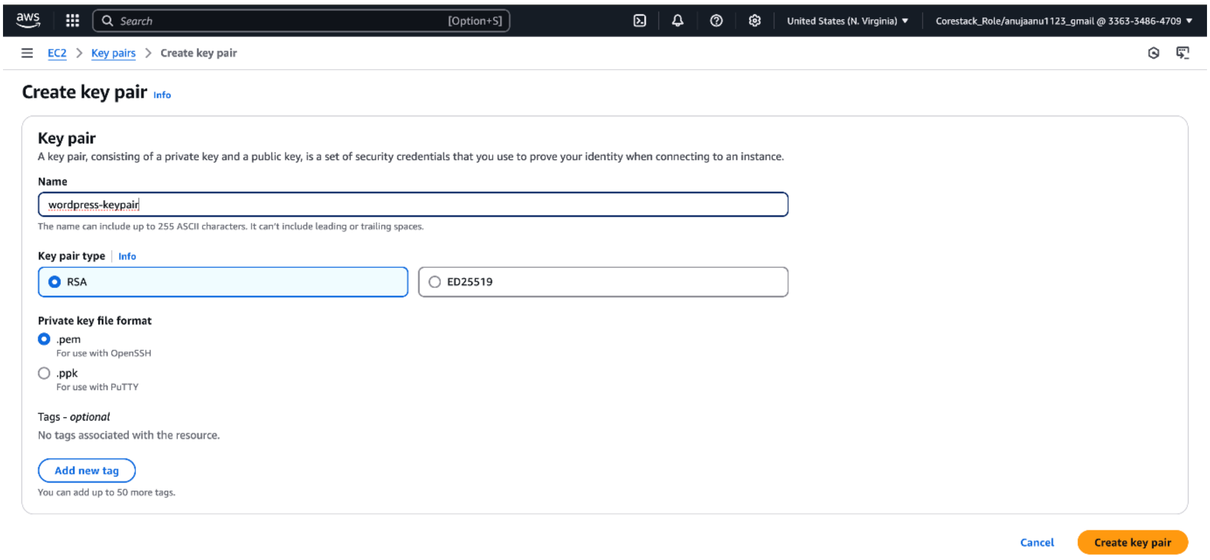
### Use cases



| Name | Type | Created | Fingerprint | ID |
|---|---|---|---|---|

No key pairs to display

Give all the details of your keypair.


Search [Option+S]
United States (N. Virginia)
Corestack_Role/anujaanu1123_gmail @ 3363-3486-4709
EC2 > Key pairs > Create key pair

Create key pair Info

Key pair

A key pair, consisting of a private key and a public key, is a set of security credentials that you use to prove your identity when connecting to an instance.

Name

wordpress-keypair

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type | Info

● RSA ○ ED25519

Private key file format

● .pem
For use with OpenSSH

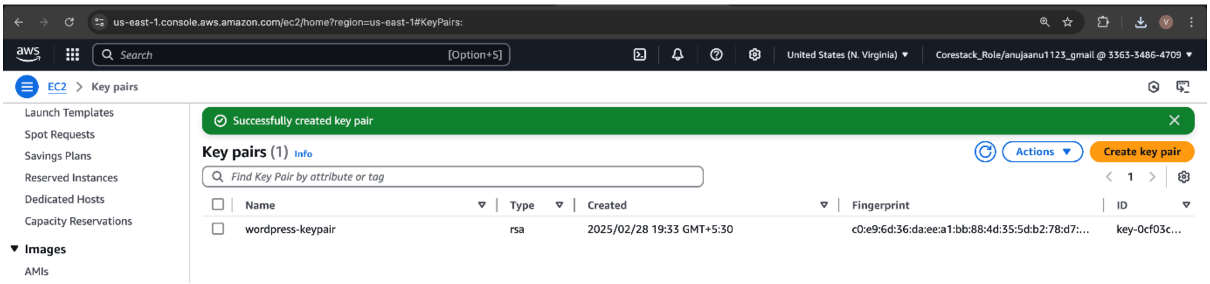
○ .ppk
For use with PuTTY

Tags - *optional*

No tags associated with the resource.

You can add up to 50 more tags.

After pressing create keypair then you will find your key pair ready.

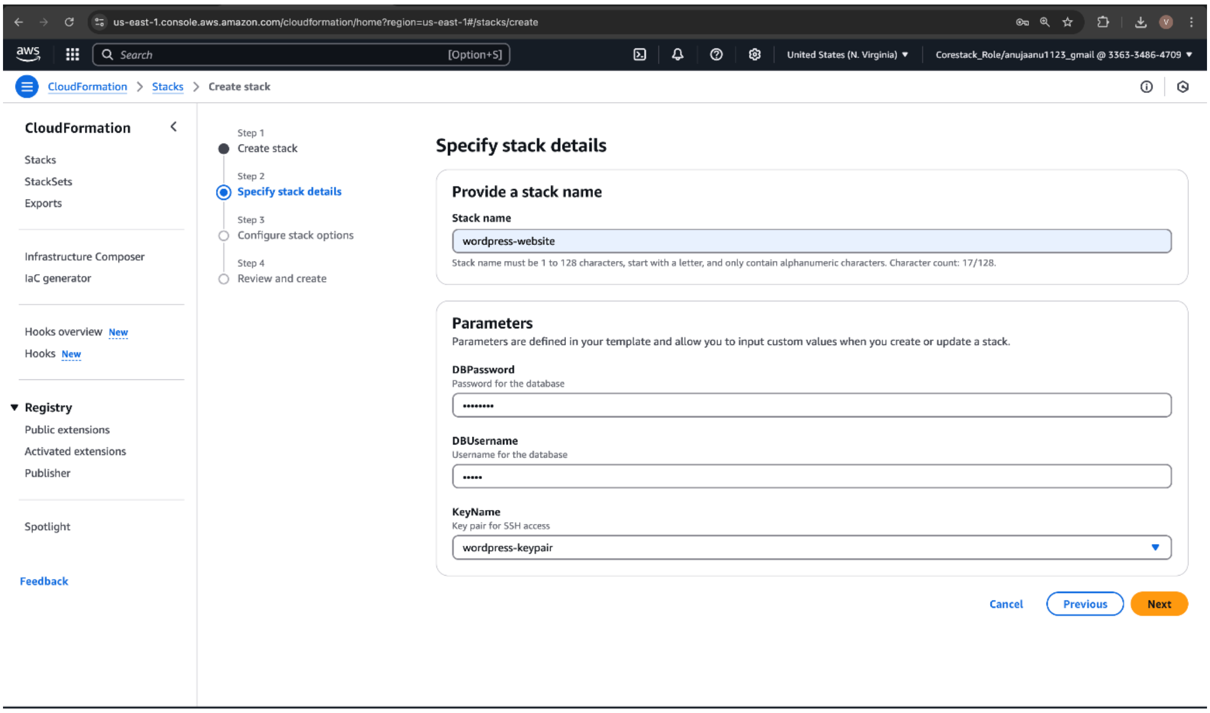

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#KeyPairs:
Search [Option+S]
United States (N. Virginia)
Corestack_Role/anujaanu1123_gmail @ 3363-3486-4709
EC2 > Key pairs
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
Actions
Create key pair
Find Key Pair by attribute or tag

Successfully created key pair

Key pairs (1) Info

| Name | Type | Created | Fingerprint | ID |
|---|---|---|---|---|
| wordpress-keypair | rsa | 2025/02/28 19:33 GMT+5:30 | c0:e9:6d:36:da:ee:a1:bb:88:4d:35:5d:b2:78:d7:... | key-0cf03c... |

And again move to our cloud formation page then add name of our stack and parameters required for our wordpress file.



Specify stack details

Provide a stack name

Stack name

wordpress-website

Stack name must be 1 to 128 characters, start with a letter, and only contain alphanumeric characters. Character count: 17/128.

Parameters

Parameters are defined in your template and allow you to input custom values when you create or update a stack.

DBPassword
Password for the database

••••••••

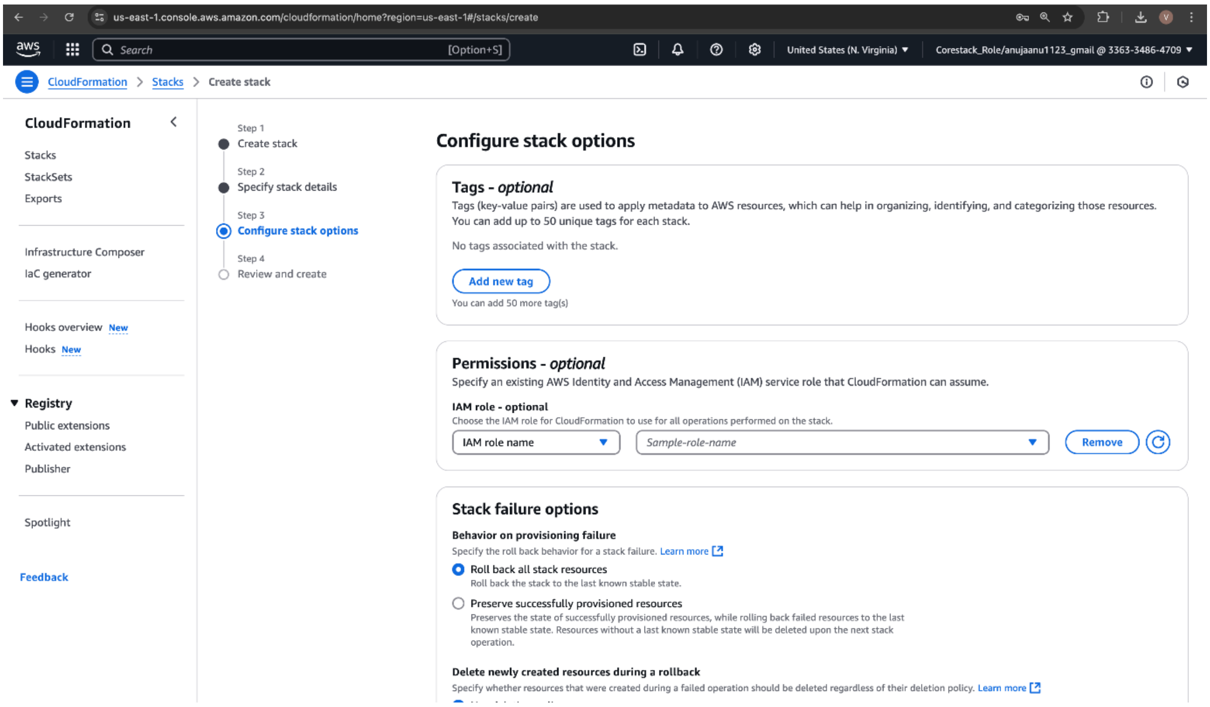
DBUsername
Username for the database

•••••

KeyName
Key pair for SSH access

wordpress-keypair ▾

And keep all the values as default and click on create stack.



Configure stack options

Tags - *optional*

Tags (key-value pairs) are used to apply metadata to AWS resources, which can help in organizing, identifying, and categorizing those resources. You can add up to 50 unique tags for each stack.

No tags associated with the stack.

You can add 50 more tag(s)

Permissions - *optional*

Specify an existing AWS Identity and Access Management (IAM) service role that CloudFormation can assume.

IAM role - optional
Choose the IAM role for CloudFormation to use for all operations performed on the stack.

IAM role name ▾ | *Sample-role-name* ▾

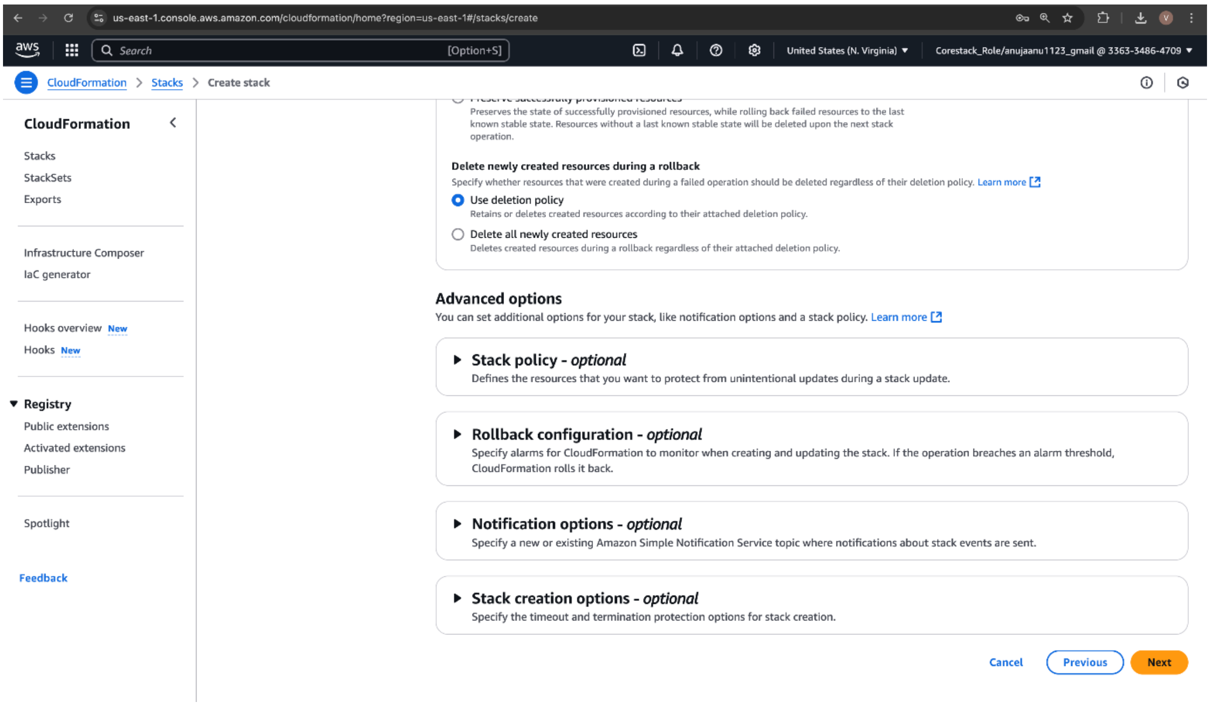
Stack failure options

Behavior on provisioning failure
Specify the roll back behavior for a stack failure. Learn more

● Roll back all stack resources
Roll back the stack to the last known stable state.

○ Preserve successfully provisioned resources
Preserves the state of successfully provisioned resources, while rolling back failed resources to the last known stable state. Resources without a last known stable state will be deleted upon the next stack operation.

Delete newly created resources during a rollback
Specify whether resources that were created during a failed operation should be deleted regardless of their deletion policy. Learn more


us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/create
aws
Search
[Option+S]
United States (N. Virginia) ▾
Corestack_Role/anujaanu1123_gmail @ 3363-3486-4709 ▾
CloudFormation > Stacks > Create stack
CloudFormation
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Hooks overview New
Hooks New
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Activated extensions
Publisher
Spotlight
Feedback

○ Preserve successfully provisioned resources
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**Delete newly created resources during a rollback**
Specify whether resources that were created during a failed operation should be deleted regardless of their deletion policy. Learn more

● Use deletion policy
Retains or deletes created resources according to their attached deletion policy.

○ Delete all newly created resources
Deletes created resources during a rollback regardless of their attached deletion policy.

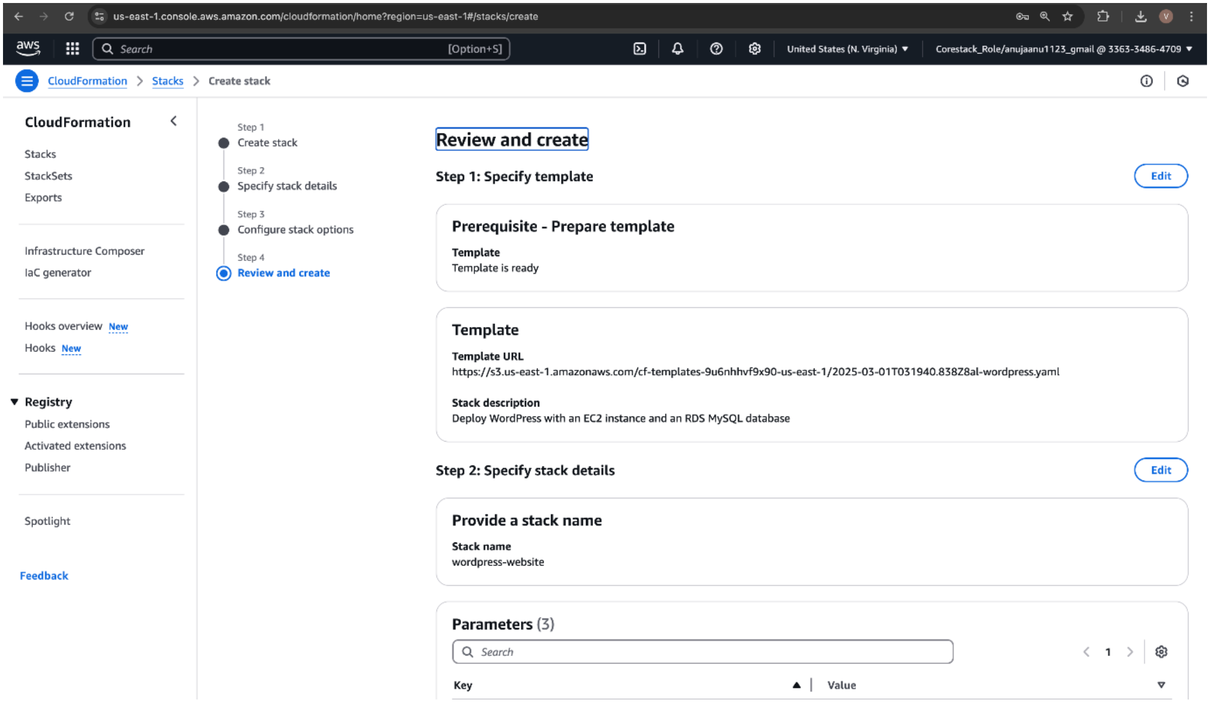
**Advanced options**
You can set additional options for your stack, like notification options and a stack policy. Learn more

▶ **Stack policy - *optional***
Defines the resources that you want to protect from unintentional updates during a stack update.

▶ **Rollback configuration - *optional***
Specify alarms for CloudFormation to monitor when creating and updating the stack. If the operation breaches an alarm threshold, CloudFormation rolls it back.

▶ **Notification options - *optional***
Specify a new or existing Amazon Simple Notification Service topic where notifications about stack events are sent.

▶ **Stack creation options - *optional***
Specify the timeout and termination protection options for stack creation.



**Review and create**

**Step 1: Specify template**

**Prerequisite - Prepare template**

**Template**
Template is ready

**Template**

**Template URL**
https://s3.us-east-1.amazonaws.com/cf-templates-9u6nhhvf9x90-us-east-1/2025-03-01T031940.838Z8al-wordpress.yaml

**Stack description**
Deploy WordPress with an EC2 instance and an RDS MySQL database

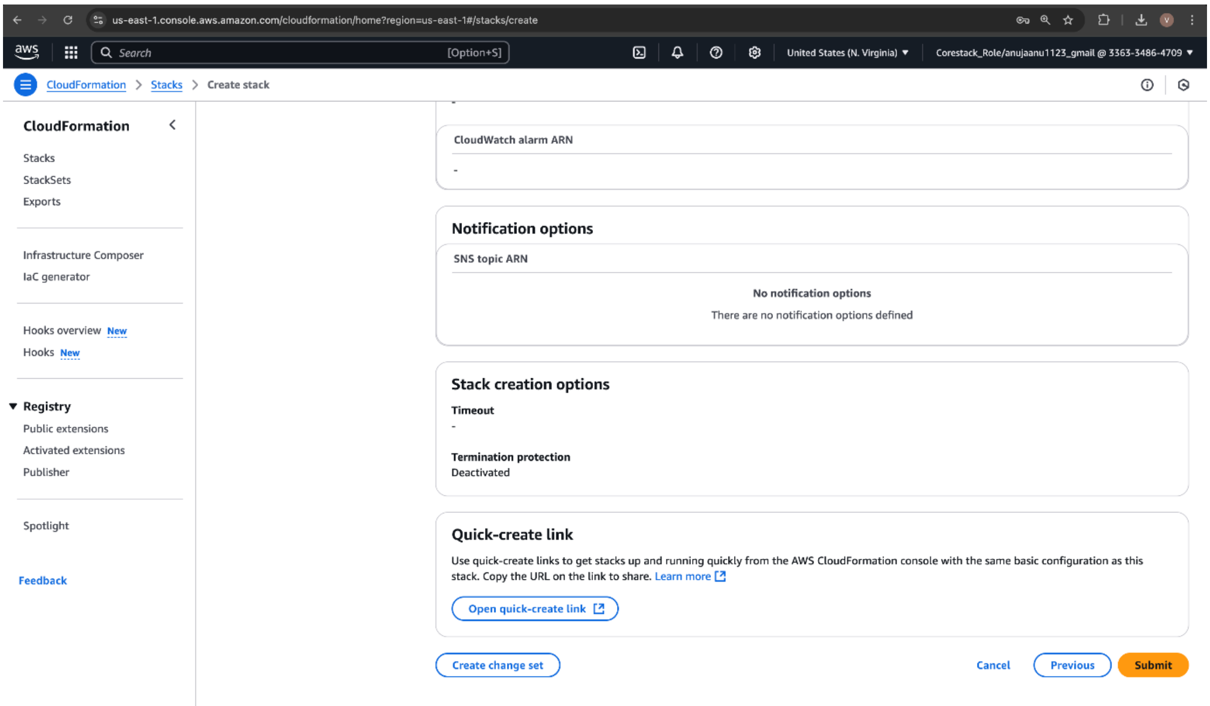
**Step 2: Specify stack details**

**Provide a stack name**

**Stack name**
wordpress-website

**Parameters** (3)

| Key ▲ | Value ▽ |
|---|---|


us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/create
Search
[Option+S]
United States (N. Virginia) ▼
Corestack_Role/anujaanu1123_gmail @ 3363-3486-4709 ▼
CloudFormation > Stacks > Create stack
CloudFormation
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Hooks New
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Spotlight
Feedback

CloudWatch alarm ARN

-

## Notification options

SNS topic ARN

**No notification options**

There are no notification options defined

## Stack creation options

**Timeout**

-

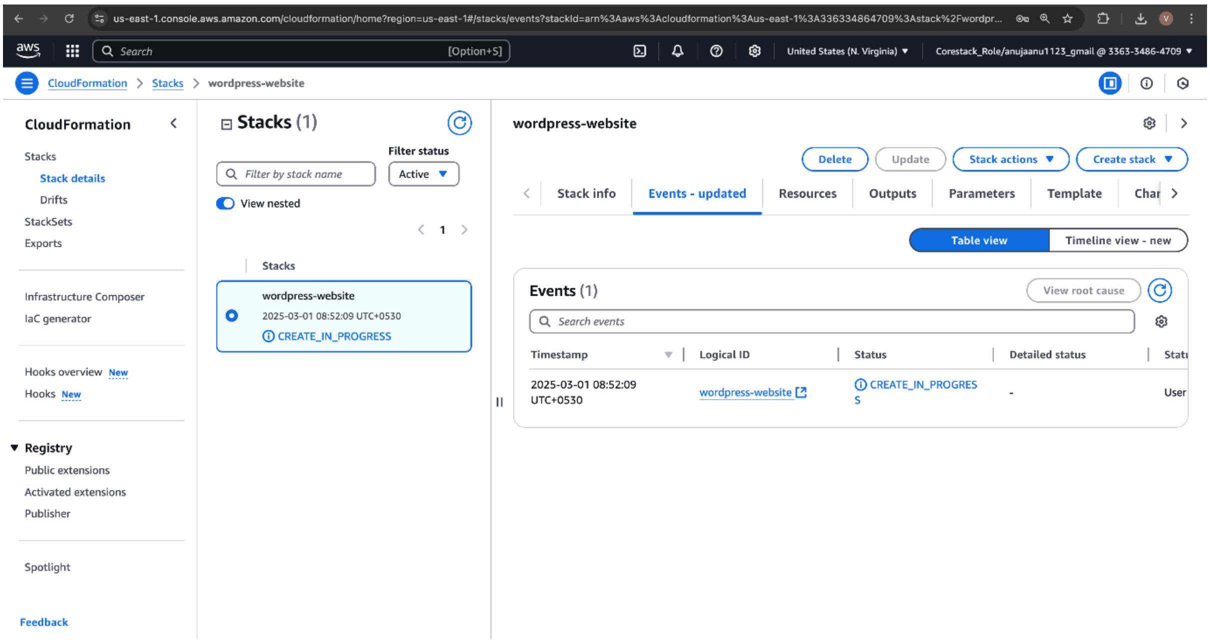
**Termination protection**

Deactivated

## Quick-create link

Use quick-create links to get stacks up and running quickly from the AWS CloudFormation console with the same basic configuration as this stack. Copy the URL on the link to share. Learn more

After submitting you will find your wordpress-instance as in creating stage.


us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/events?stackId=arn%3Aaws%3Acloudformation%3Aus-east-1%3A336334864709%3Astack%2Fwordpr...
Search
[Option+S]
United States (N. Virginia) ▼
Corestack_Role/anujaanu1123_gmail @ 3363-3486-4709 ▼
CloudFormation > Stacks > wordpress-website
CloudFormation
Stacks
Stack details
Drifts
StackSets
Exports
Infrastructure Composer
IaC generator
Hooks overview New
Hooks New
▼ Registry
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Publisher
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Feedback
Stacks (1)
Filter status
Filter by stack name
Active ▼
View nested
1
Stacks

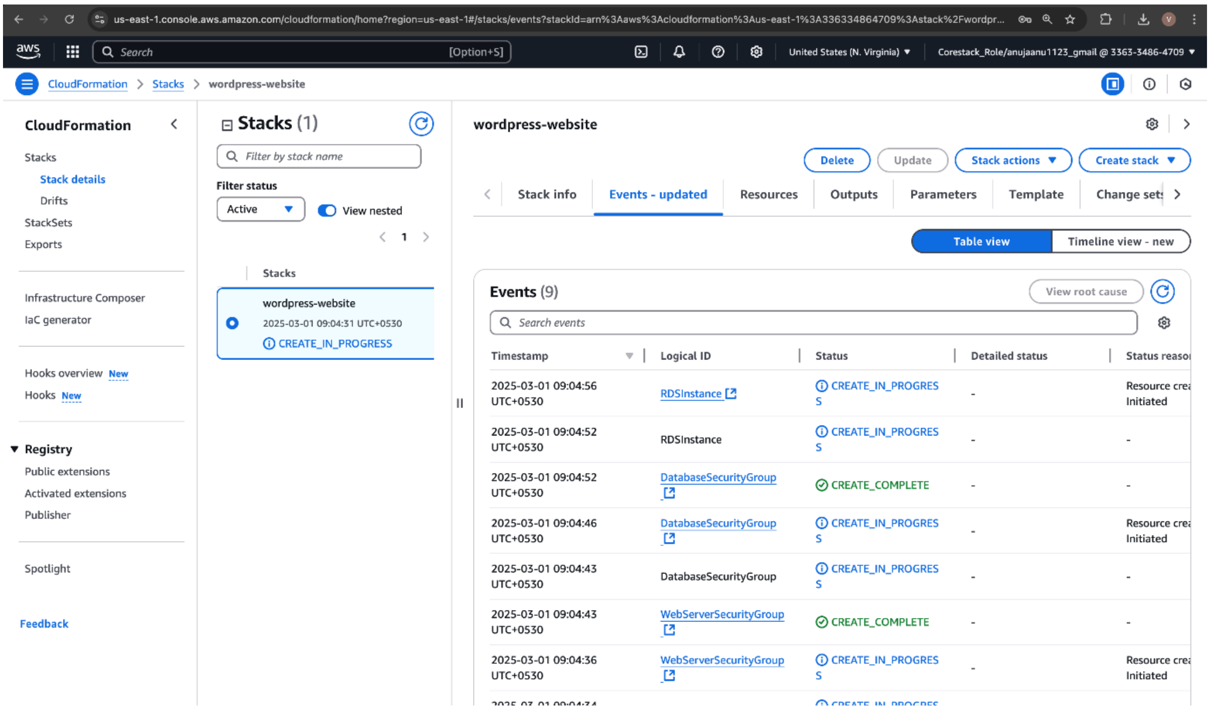
wordpress-website
2025-03-01 08:52:09 UTC+0530
CREATE_IN_PROGRESS

**wordpress-website**

Events (1)

| Timestamp | Logical ID | Status | Detailed status | Stat |
|---|---|---|---|---|
| 2025-03-01 08:52:09 UTC+0530 | wordpress-website | CREATE_IN_PROGRESS | - | User |

Then you will see all these creation steps.



us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/events?stackId=arn%3Aaws%3Acloudformation%3Aus-east-1%3A336334864709%3Astack%2Fwordpr...

United States (N. Virginia) ▼ Corestack_Role/anujaanu1123_gmail @ 3363-3486-4709 ▼

CloudFormation > Stacks > wordpress-website

Stacks (1)

Filter by stack name

Filter status: Active ▼ — View nested

Stacks

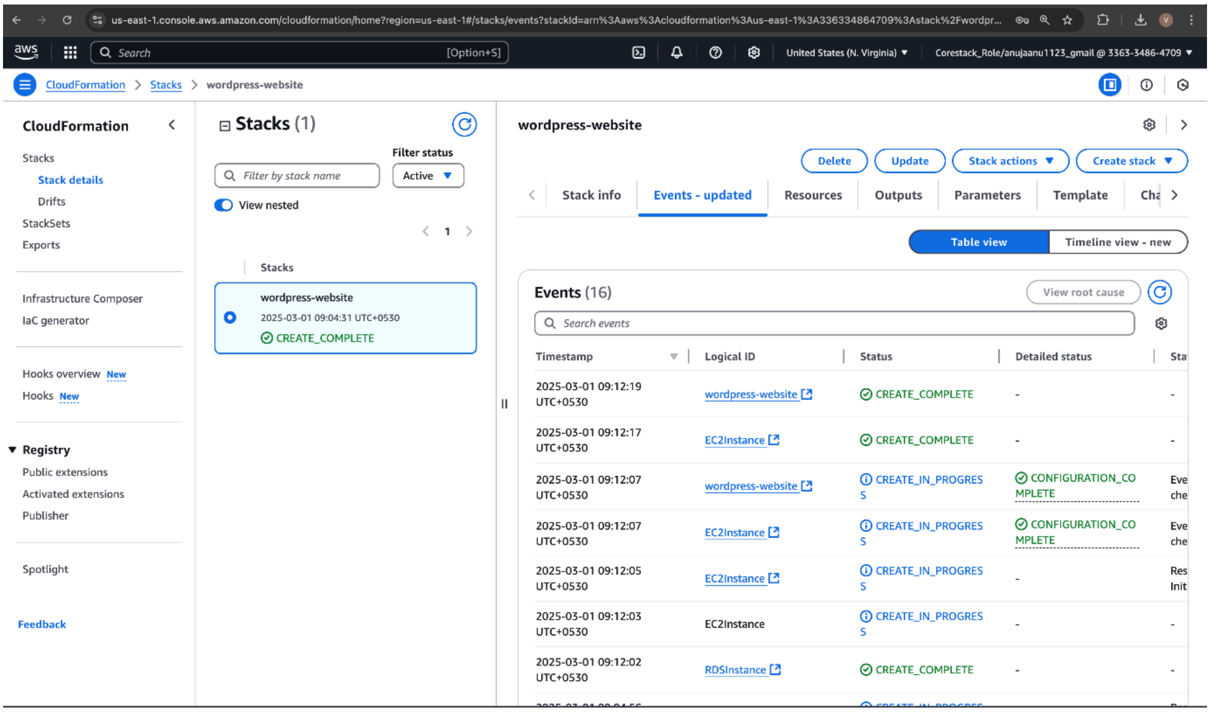
○ wordpress-website
2025-03-01 09:04:31 UTC+0530
CREATE_IN_PROGRESS

wordpress-website

Events (9)

| Timestamp | Logical ID | Status | Detailed status | Status reaso |
|---|---|---|---|---|
| 2025-03-01 09:04:56 UTC+0530 | RDSInstance | CREATE_IN_PROGRESS | - | Resource crea Initiated |
| 2025-03-01 09:04:52 UTC+0530 | RDSInstance | CREATE_IN_PROGRESS | - | - |
| 2025-03-01 09:04:52 UTC+0530 | DatabaseSecurityGroup | CREATE_COMPLETE | - | - |
| 2025-03-01 09:04:46 UTC+0530 | DatabaseSecurityGroup | CREATE_IN_PROGRESS | - | Resource crea Initiated |
| 2025-03-01 09:04:43 UTC+0530 | DatabaseSecurityGroup | CREATE_IN_PROGRESS | - | - |
| 2025-03-01 09:04:43 UTC+0530 | WebServerSecurityGroup | CREATE_COMPLETE | - | - |
| 2025-03-01 09:04:36 UTC+0530 | WebServerSecurityGroup | CREATE_IN_PROGRESS | - | Resource crea Initiated |

Finally your website is in create complete state.



us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/events?stackId=arn%3Aaws%3Acloudformation%3Aus-east-1%3A336334864709%3Astack%2Fwordpr...

United States (N. Virginia) ▼ Corestack_Role/anujaanu1123_gmail @ 3363-3486-4709 ▼

CloudFormation > Stacks > wordpress-website

Stacks (1)

Filter by stack name

Filter status: Active ▼

View nested

Stacks

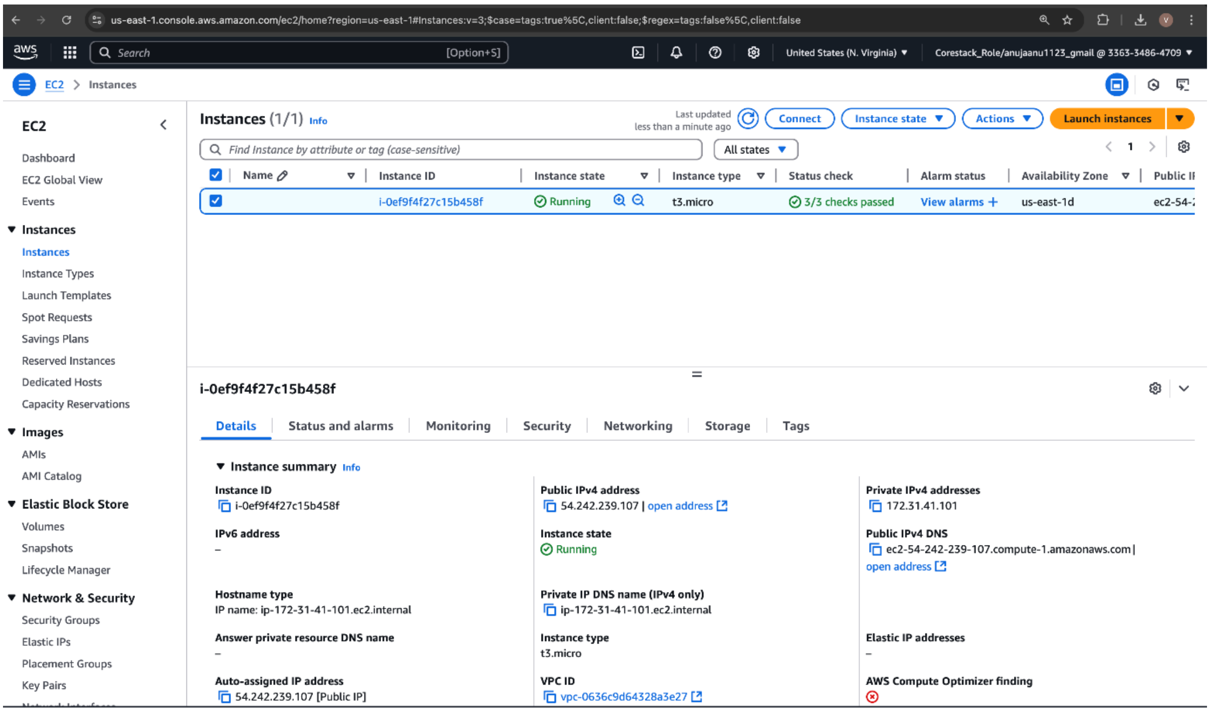
○ wordpress-website
2025-03-01 09:04:31 UTC+0530
CREATE_COMPLETE

wordpress-website

Events (16)

| Timestamp | Logical ID | Status | Detailed status | Sta |
|---|---|---|---|---|
| 2025-03-01 09:12:19 UTC+0530 | wordpress-website | CREATE_COMPLETE | - | - |
| 2025-03-01 09:12:17 UTC+0530 | EC2Instance | CREATE_COMPLETE | - | - |
| 2025-03-01 09:12:07 UTC+0530 | wordpress-website | CREATE_IN_PROGRESS | CONFIGURATION_COMPLETE | Eve che |
| 2025-03-01 09:12:07 UTC+0530 | EC2Instance | CREATE_IN_PROGRESS | CONFIGURATION_COMPLETE | Eve che |
| 2025-03-01 09:12:05 UTC+0530 | EC2Instance | CREATE_IN_PROGRESS | - | Res Init |
| 2025-03-01 09:12:03 UTC+0530 | EC2Instance | CREATE_IN_PROGRESS | - | - |
| 2025-03-01 09:12:02 UTC+0530 | RDSInstance | CREATE_COMPLETE | - | - |

You can see automatically your EC2 instance is creating.



us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false

United States (N. Virginia) ▼ Corestack_Role/anujaanu1123_gmail @ 3363-3486-4709 ▼

EC2 > Instances

Instances (1/1) Info

Last updated less than a minute ago

| ☑ | Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public I |
|---|---|---|---|---|---|---|---|---|
| ☑ | | i-0ef9f4f27c15b458f | ✓ Running | t3.micro | ✓ 3/3 checks passed | View alarms + | us-east-1d | ec2-54-2 |

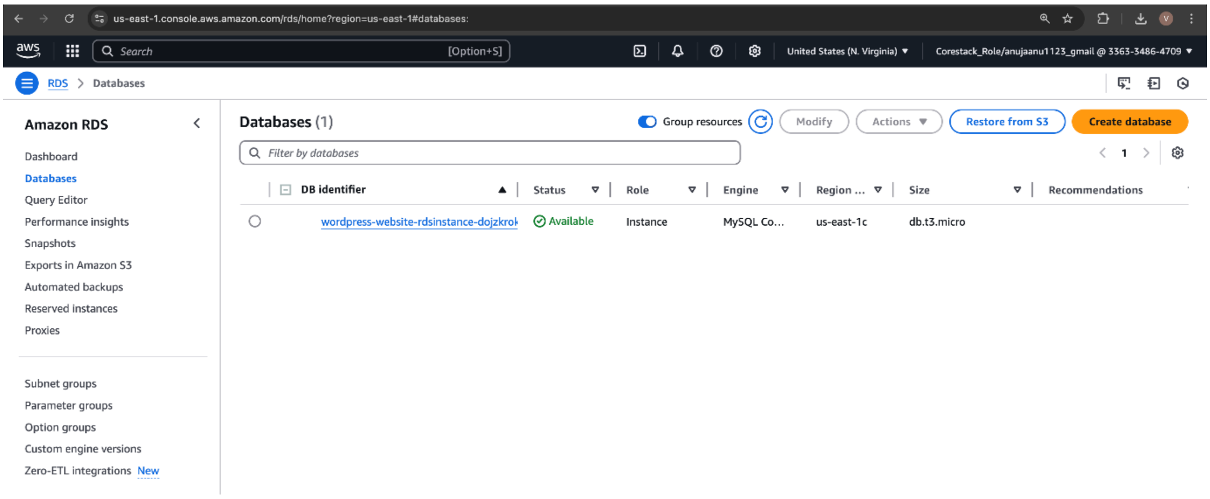
i-0ef9f4f27c15b458f

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

▼ Instance summary Info

| | | |
|---|---|---|
| Instance ID<br>i-0ef9f4f27c15b458f | Public IPv4 address<br>54.242.239.107 \| open address | Private IPv4 addresses<br>172.31.41.101 |
| IPv6 address<br>– | Instance state<br>✓ Running | Public IPv4 DNS<br>ec2-54-242-239-107.compute-1.amazonaws.com \|<br>open address |
| Hostname type<br>IP name: ip-172-31-41-101.ec2.internal | Private IP DNS name (IPv4 only)<br>ip-172-31-41-101.ec2.internal | |
| Answer private resource DNS name<br>– | Instance type<br>t3.micro | Elastic IP addresses<br>– |
| Auto-assigned IP address<br>54.242.239.107 [Public IP] | VPC ID<br>vpc-0636c9d64328a3e27 | AWS Compute Optimizer finding<br>⊗ |

And check your db is also creating and after 5 mins it will show as available.



us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#databases:

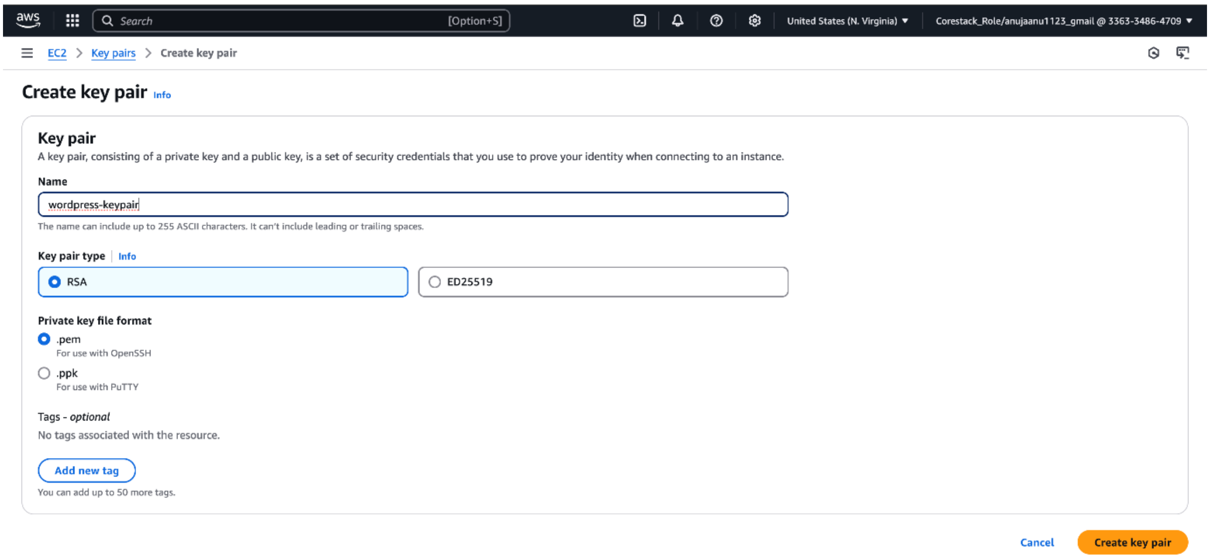
United States (N. Virginia) ▼ Corestack_Role/anujaanu1123_gmail @ 3363-3486-4709 ▼

RDS > Databases

Databases (1)

| | DB identifier | Status | Role | Engine | Region ... | Size | Recommendations |
|---|---|---|---|---|---|---|---|
| ○ | wordpress-website-rdsinstance-dojzkrol | ✓ Available | Instance | MySQL Co... | us-east-1c | db.t3.micro | |

You can check your security group is also created automatically.


aws
Search [Option+S]
United States (N. Virginia) ▼
Corestack_Role/anujaanu1123_gmail @ 3363-3486-4709 ▼
EC2 > Key pairs > Create key pair

Create key pair Info

Key pair

A key pair, consisting of a private key and a public key, is a set of security credentials that you use to prove your identity when connecting to an instance.

Name

wordpress-keypair

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type | Info

● RSA ○ ED25519

Private key file format

● .pem
For use with OpenSSH

○ .ppk
For use with PuTTY

Tags - *optional*

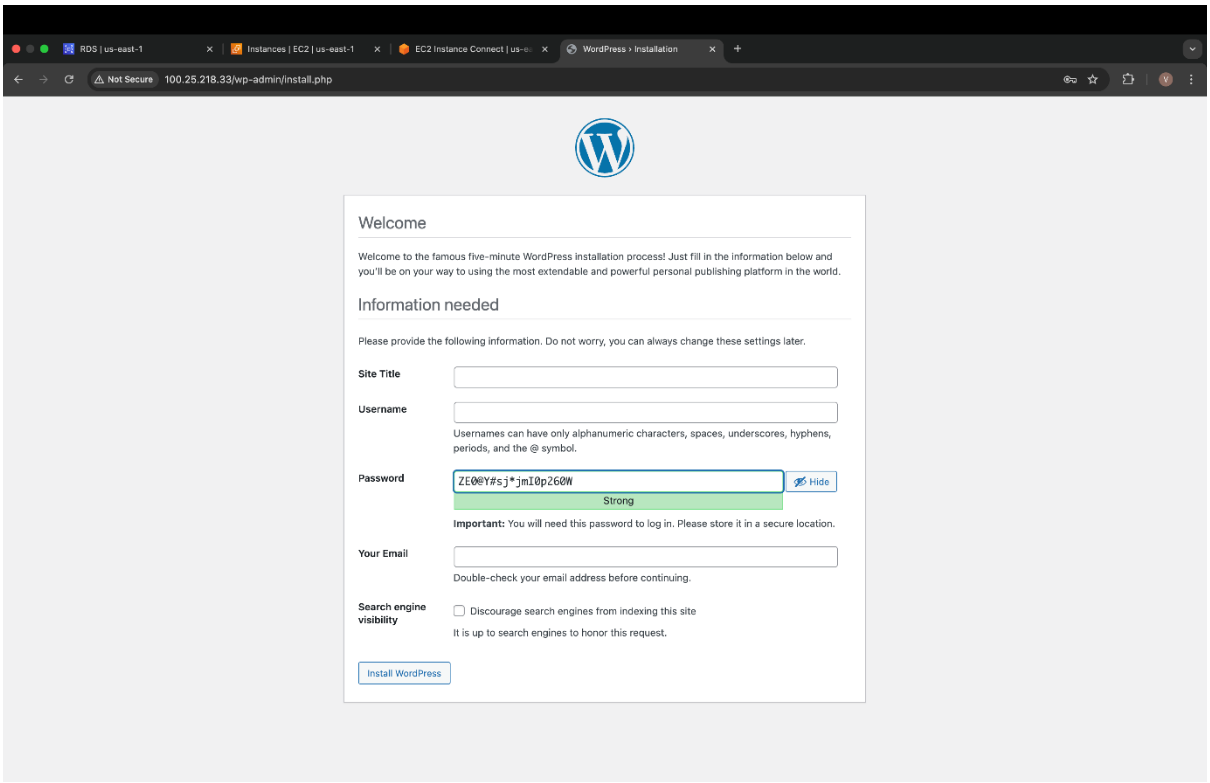
No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel Create key pair

Finally you can see your word press website when you open your public Ip in a browser.



100.25.218.33/wp-admin/install.php

Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

Information needed

Please provide the following information. Do not worry, you can always change these settings later.

**Site Title**

**Username**

Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

**Password** ZE0@Y#sj*jmI0p260W Hide

Strong

**Important:** You will need this password to log in. Please store it in a secure location.

**Your Email**

Double-check your email address before continuing.

**Search engine visibility** □ Discourage search engines from indexing this site

It is up to search engines to honor this request.

Install WordPress