ADVANCE DEVOPS EXPERIMENT NO.2

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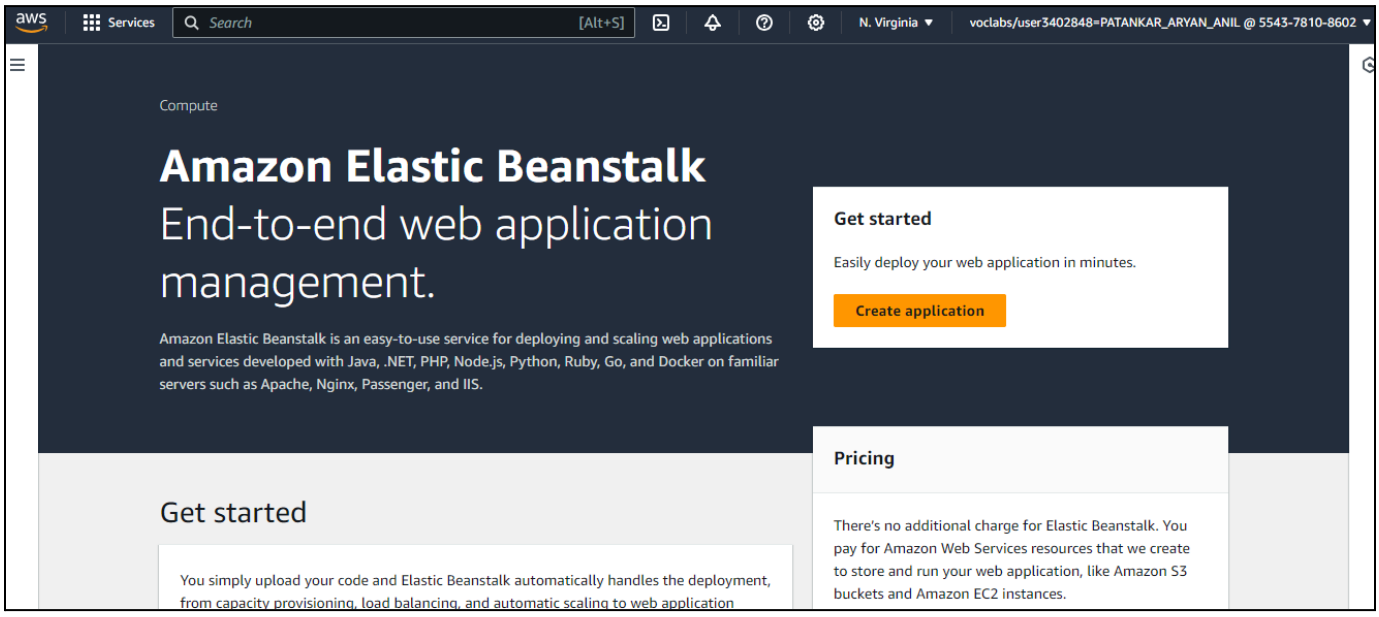
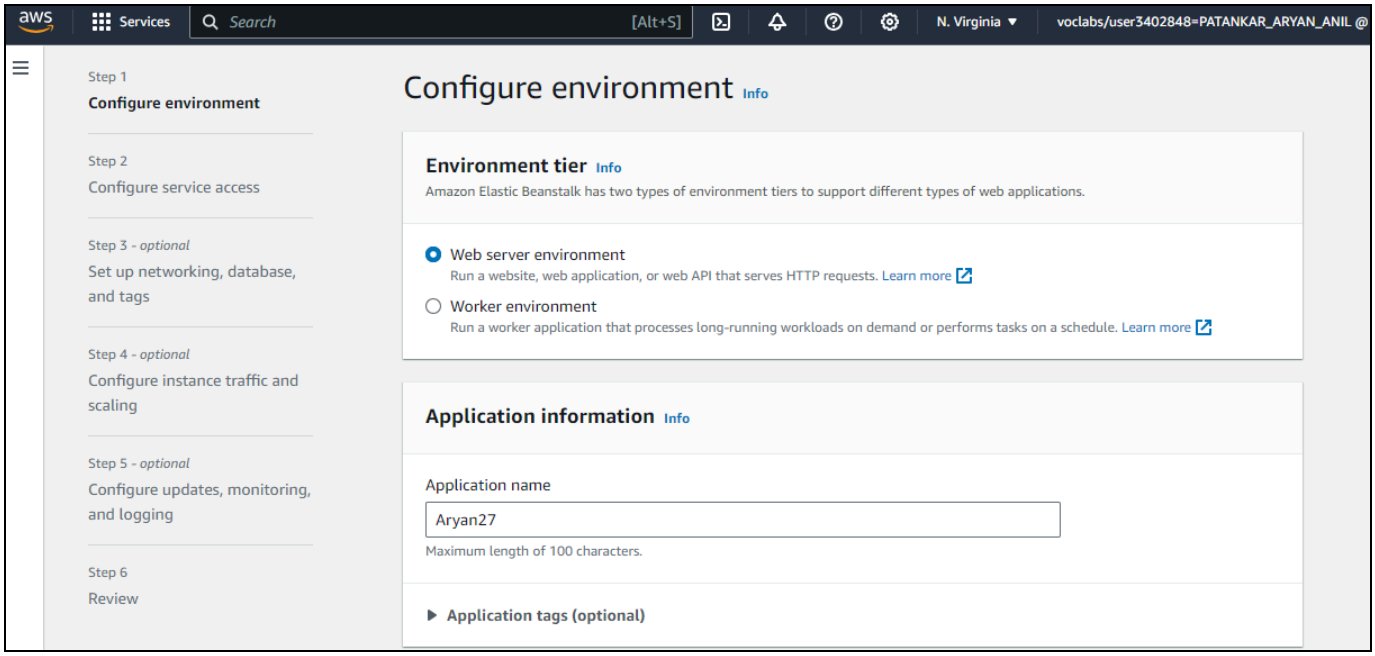
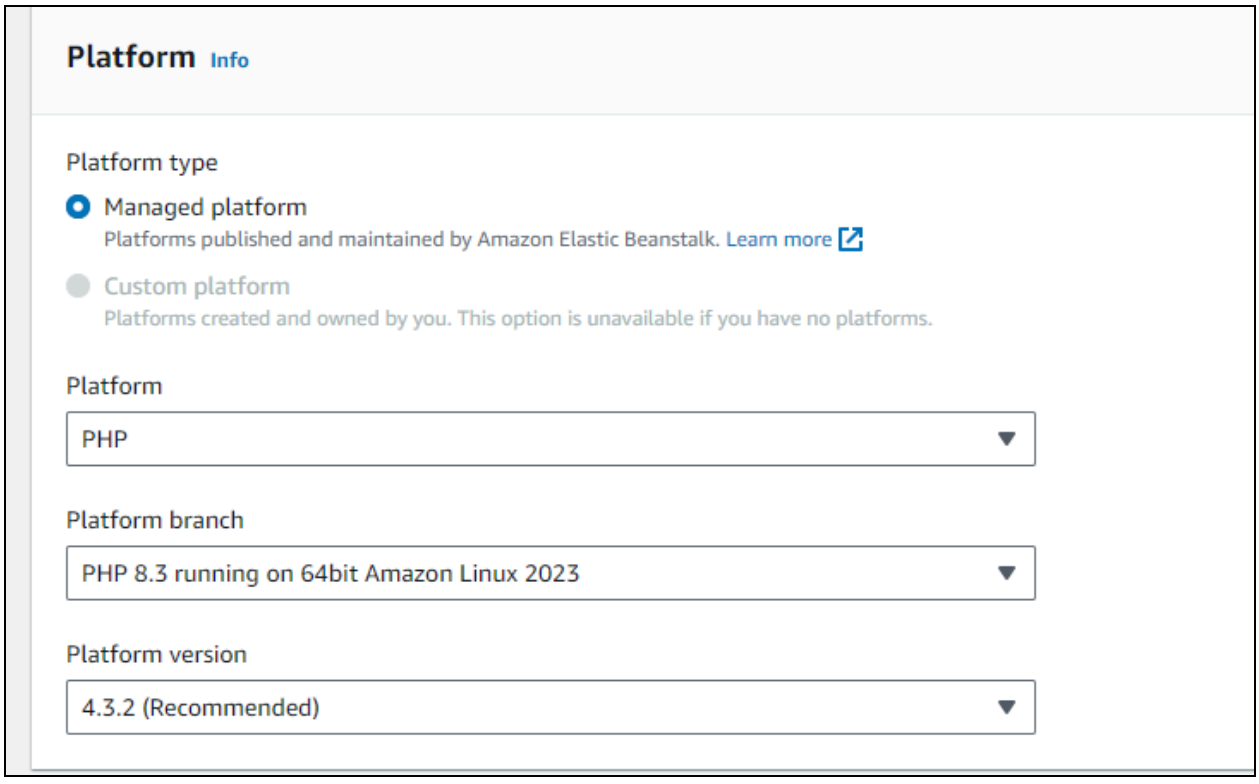
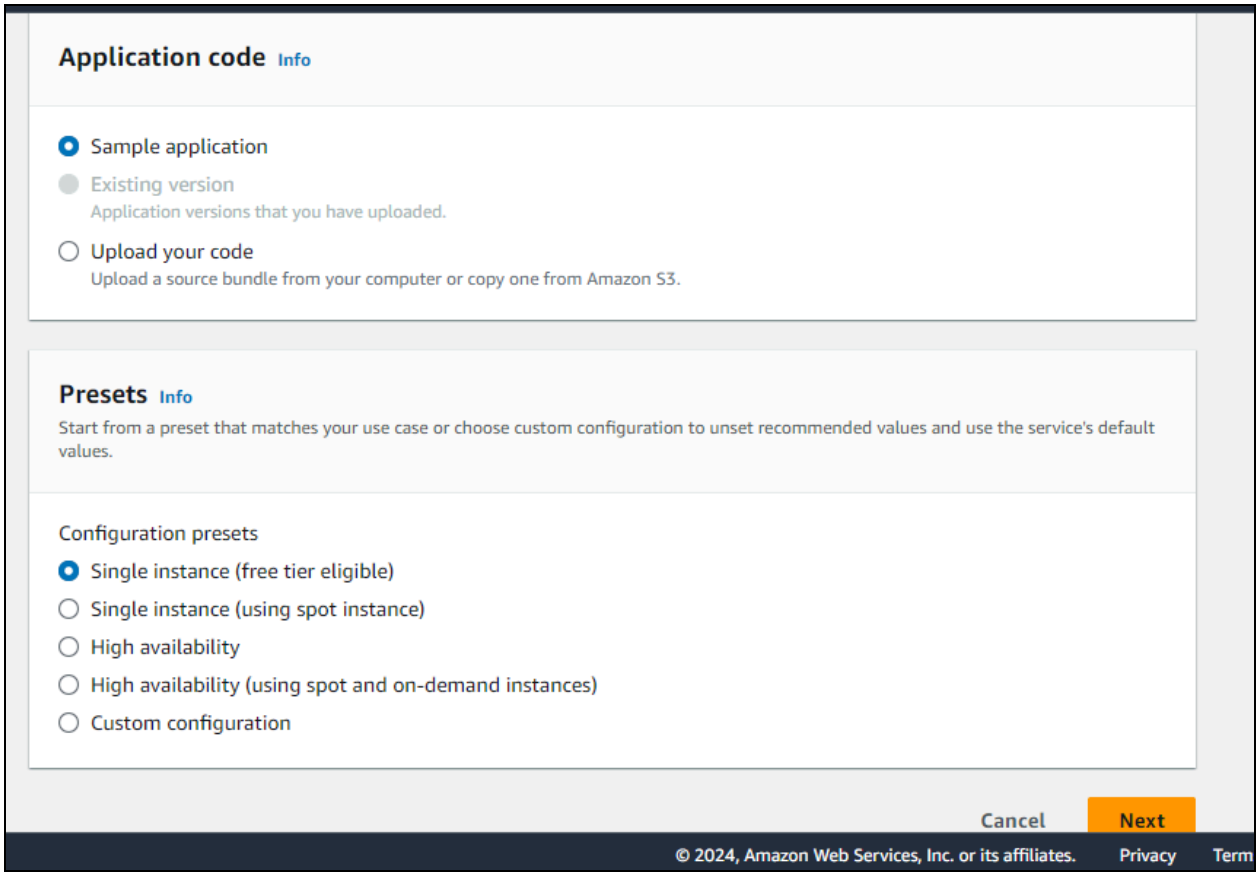
Class:D15A
Roll No:34

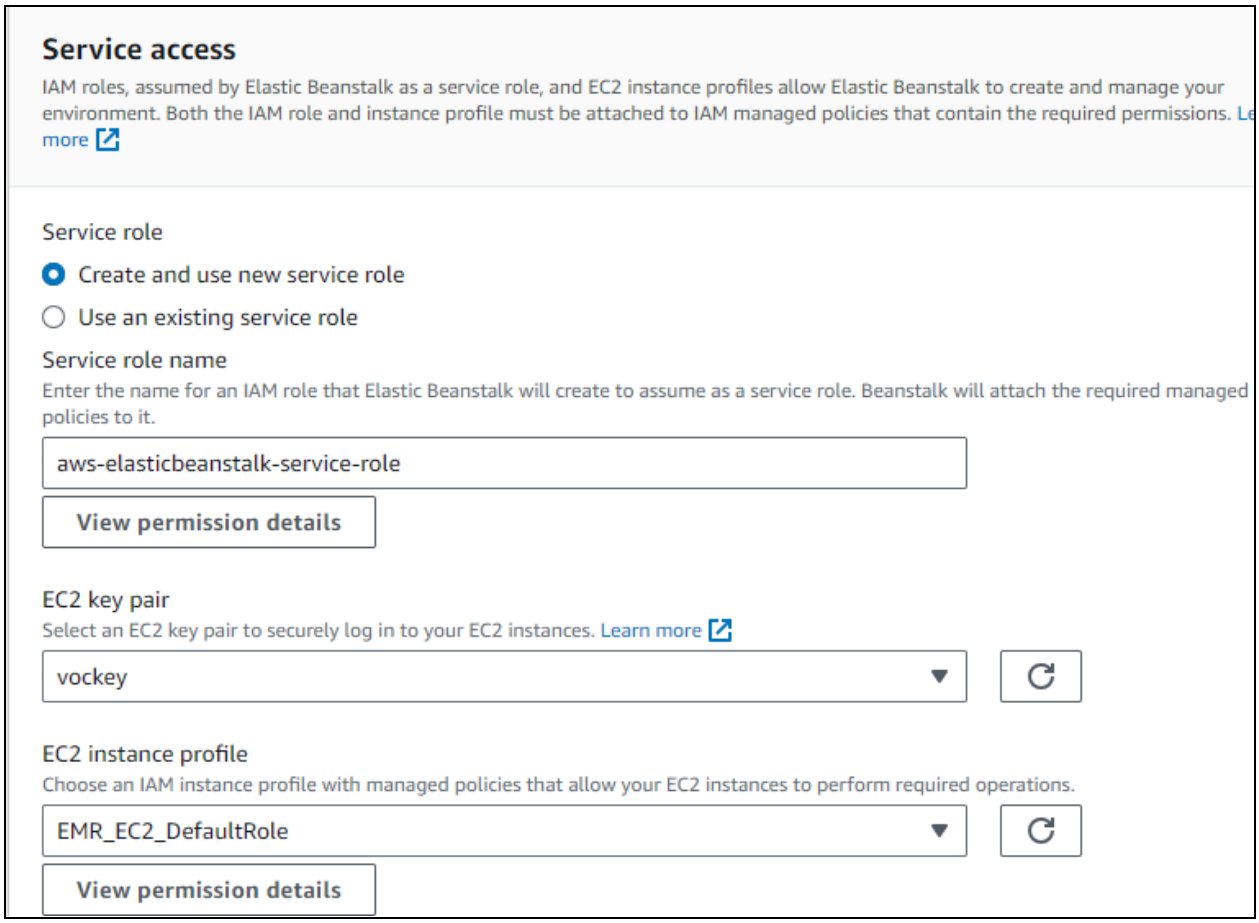
Aim: To Build Your Application using AWS CodeBuild and Deploy on S3 / SEBS using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy.




aws
Services
Search
[Alt+S]
N. Virginia
voclabs/user3402848=PATANKAR_ARYAN_ANIL @
Step 1
Configure environment
Step 2
Configure service access
Step 3 - optional
Set up networking, database, and tags
Step 4 - optional
Configure instance traffic and scaling
Step 5 - optional
Configure updates, monitoring, and logging
Step 6
Review
Configure environment Info
Environment tier Info
Amazon Elastic Beanstalk has two types of environment tiers to support different types of web applications.
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
Application information Info
Application name
Aryan27
Maximum length of 100 characters.
Application tags (optional)


Platform Info
Platform type
Managed platform
Platforms published and maintained by Amazon Elastic Beanstalk. Learn more
Custom platform
Platforms created and owned by you. This option is unavailable if you have no platforms.
Platform
PHP
Platform branch
PHP 8.3 running on 64bit Amazon Linux 2023
Platform version
4.3.2 (Recommended)


Application code Info
Sample application
Existing version
Application versions that you have uploaded.
Upload your code
Upload a source bundle from your computer or copy one from Amazon S3.
Presets Info
Start from a preset that matches your use case or choose custom configuration to unset recommended values and use the service's default values.
Configuration presets
Single instance (free tier eligible)
Single instance (using spot instance)
High availability
High availability (using spot and on-demand instances)
Custom configuration
Cancel
Next
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Term


Service access
IAM roles, assumed by Elastic Beanstalk as a service role, and EC2 instance profiles allow Elastic Beanstalk to create and manage your environment. Both the IAM role and instance profile must be attached to IAM managed policies that contain the required permissions. Le
more
Service role
Create and use new service role
Use an existing service role
Service role name
Enter the name for an IAM role that Elastic Beanstalk will create to assume as a service role. Beanstalk will attach the required managed policies to it.
aws-elasticbeanstalk-service-role
View permission details
EC2 key pair
Select an EC2 key pair to securely log in to your EC2 instances. Learn more
vockey
EC2 instance profile
Choose an IAM instance profile with managed policies that allow your EC2 instances to perform required operations.
EMR_EC2_DefaultRole
View permission details

Instances Info

Configure the Amazon EC2 instances that run your application.

Root volume (boot device)

Root volume type

(Container default)

Size

The number of gigabytes of the root volume attached to each instance.

8 GB

IOPS

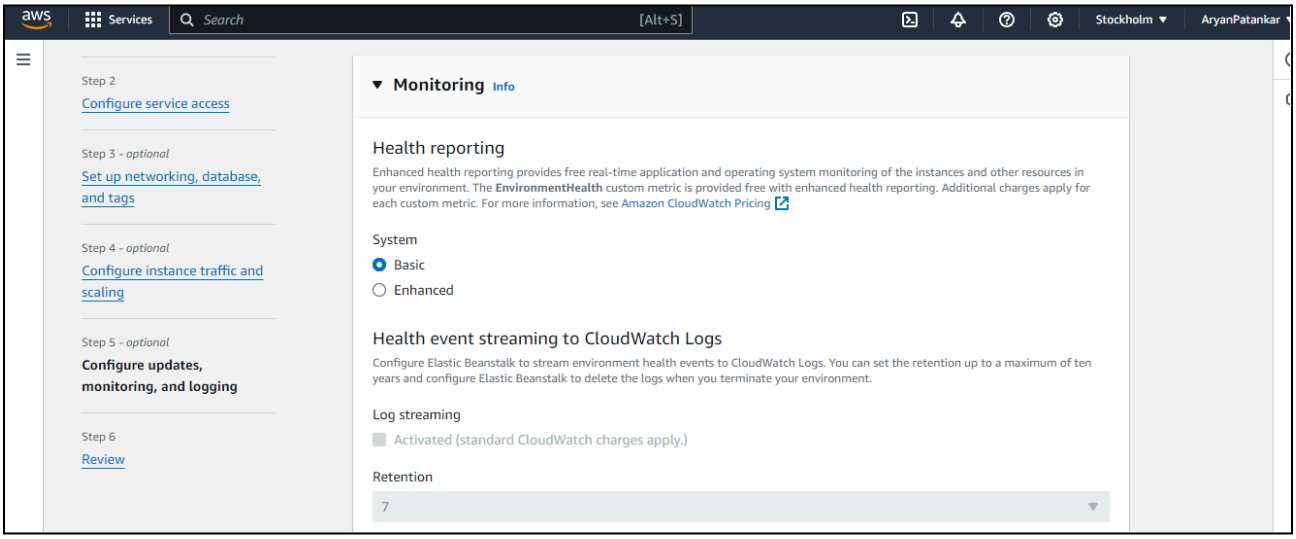
Input/output operations per second for a provisioned IOPS (SSD) volume.

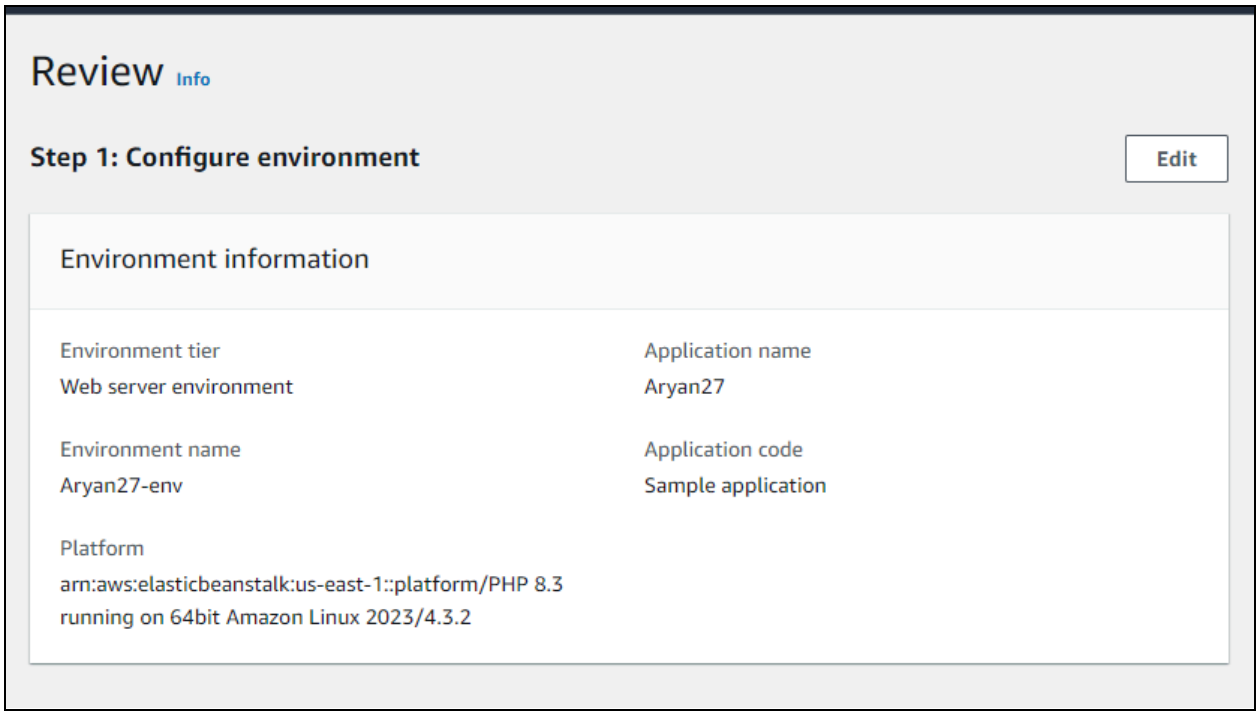
100 IOPS

Throughput

The desired throughput to provision for the Amazon EBS root volume attached to your environment's EC2 instance

125 MiB/s




Review Info
Step 1: Configure environment
Edit
Environment information
Environment tier
Web server environment
Application name
Aryan27
Environment name
Aryan27-env
Application code
Sample application
Platform
arn:aws:elasticbeanstalk:us-east-1::platform/PHP 8.3
running on 64bit Amazon Linux 2023/4.3.2

Step 2: Configure service access

Edit

Service access Info

Configure the service role and EC2 instance profile that Elastic Beanstalk uses to manage your environment. Choose an EC2 key pair to securely log in to your EC2 instances.

Service role	EC2 instance profile
arn:aws:iam::405894863107:role/service-role/aws-elasticbeanstalk-service-role	aws-elasticbeanstalk-ec2-role

Step 3: Set up networking, database, and tags

Edit

Networking, database, and tags Info

Configure VPC settings, and subnets for your environment's EC2 instances and load balancer. Set up an Amazon RDS database that's integrated with your environment.

Network

VPC	Public IP address	Instance subnets
vpc-0bf7d7d872a737f13	false	subnet-035fe38d8d742329e,subnet-0a7c9c6dedec1325d

Step 5: Configure updates, monitoring, and logging

Edit

Updates, monitoring, and logging Info

Define when and how Elastic Beanstalk deploys changes to your environment. Manage your application's monitoring and logging settings, instances, and other environment resources.

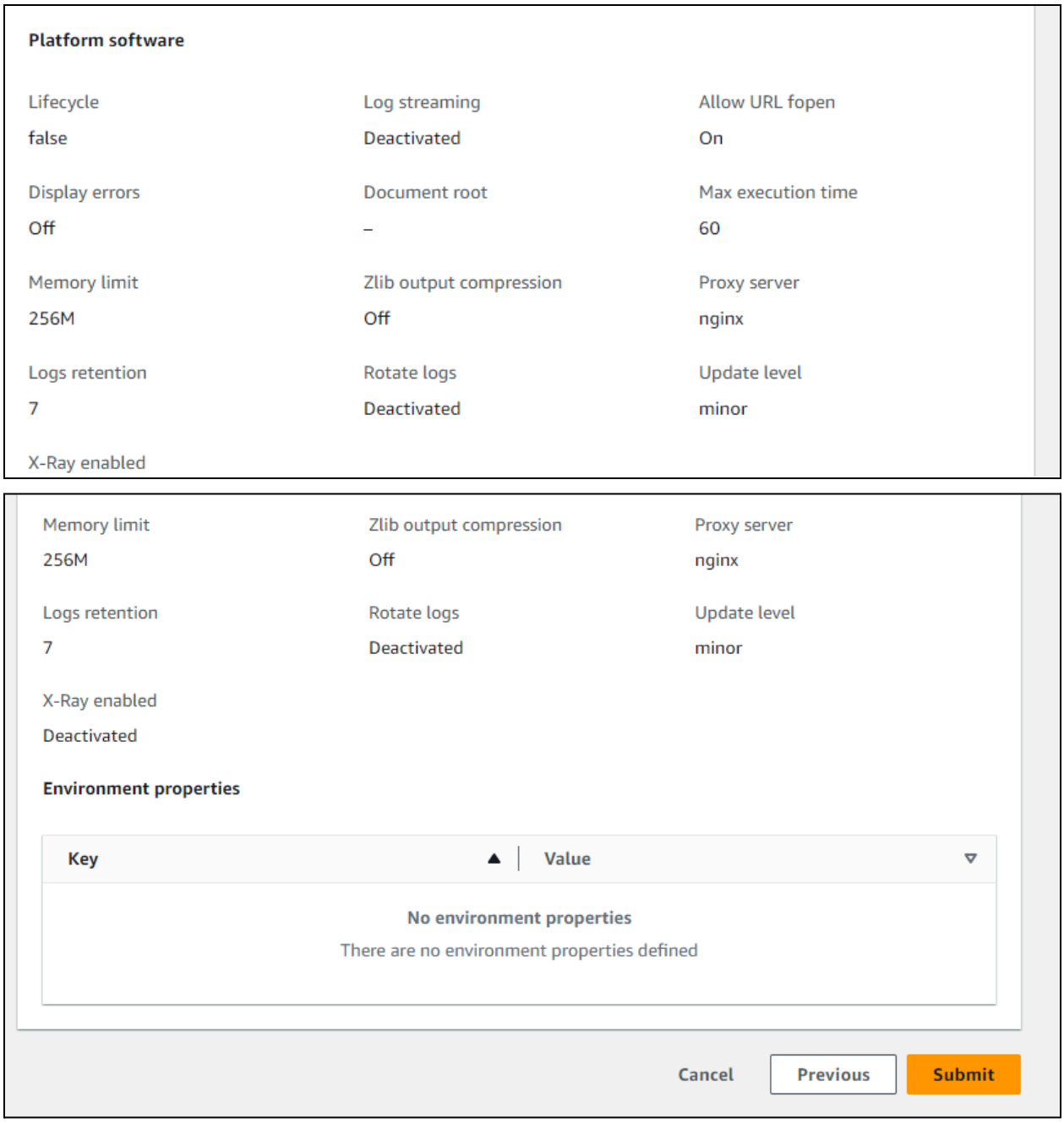
Monitoring

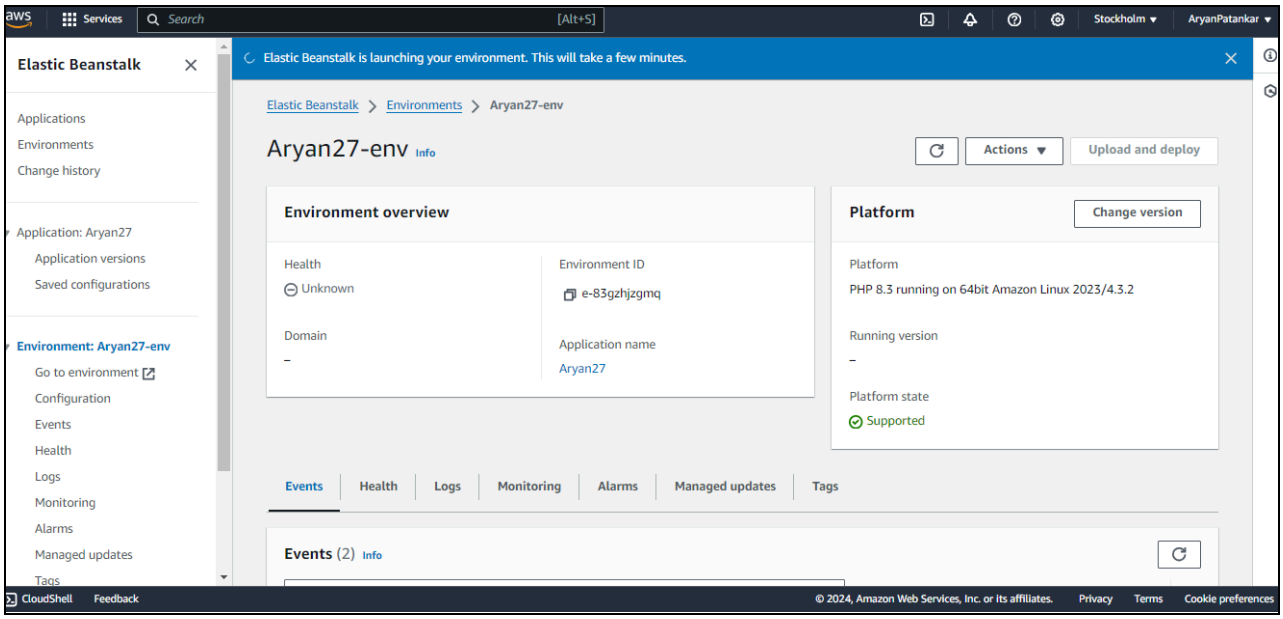
System	Cloudwatch custom metrics - instance	Cloudwatch custom metrics - environment
enhanced	—	—

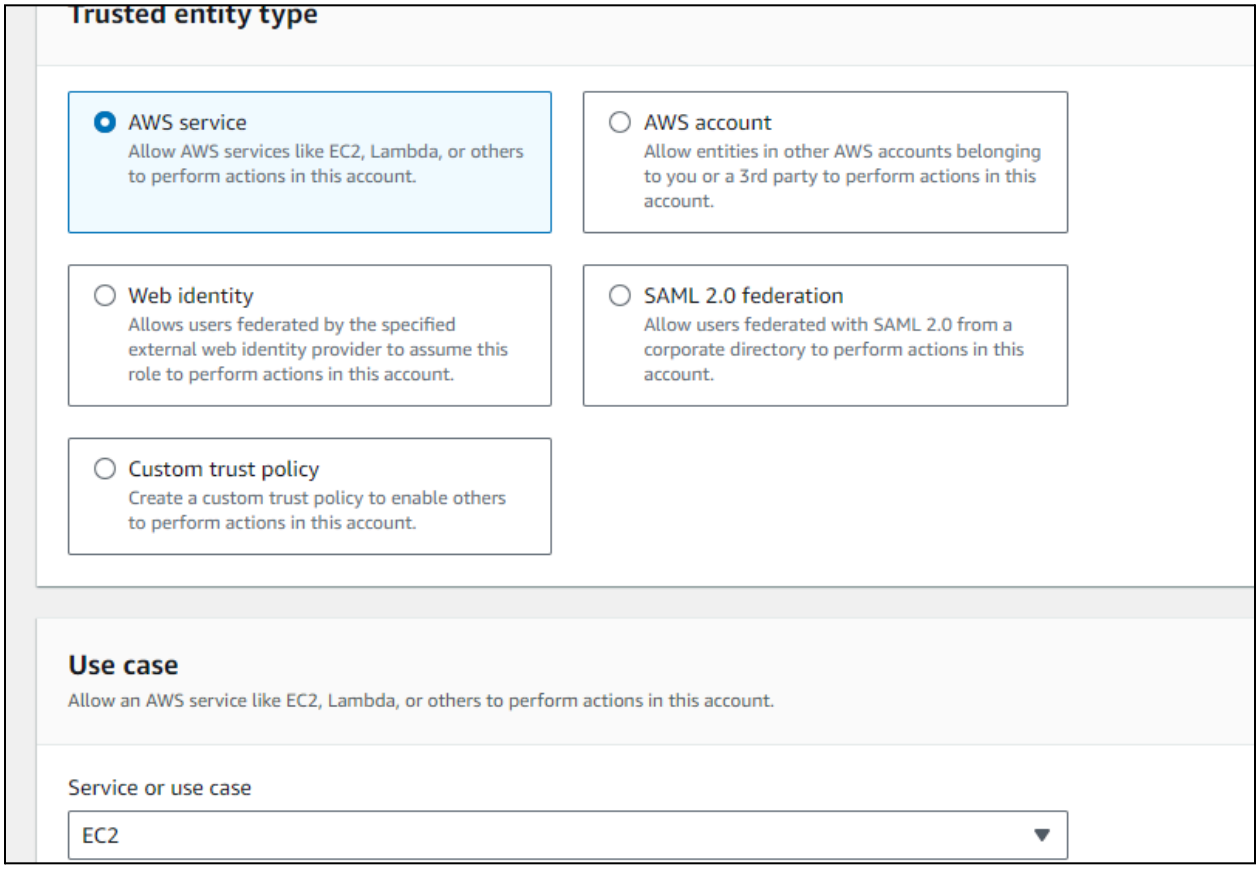
Log streaming	Retention	Lifecycle
Deactivated	7	false

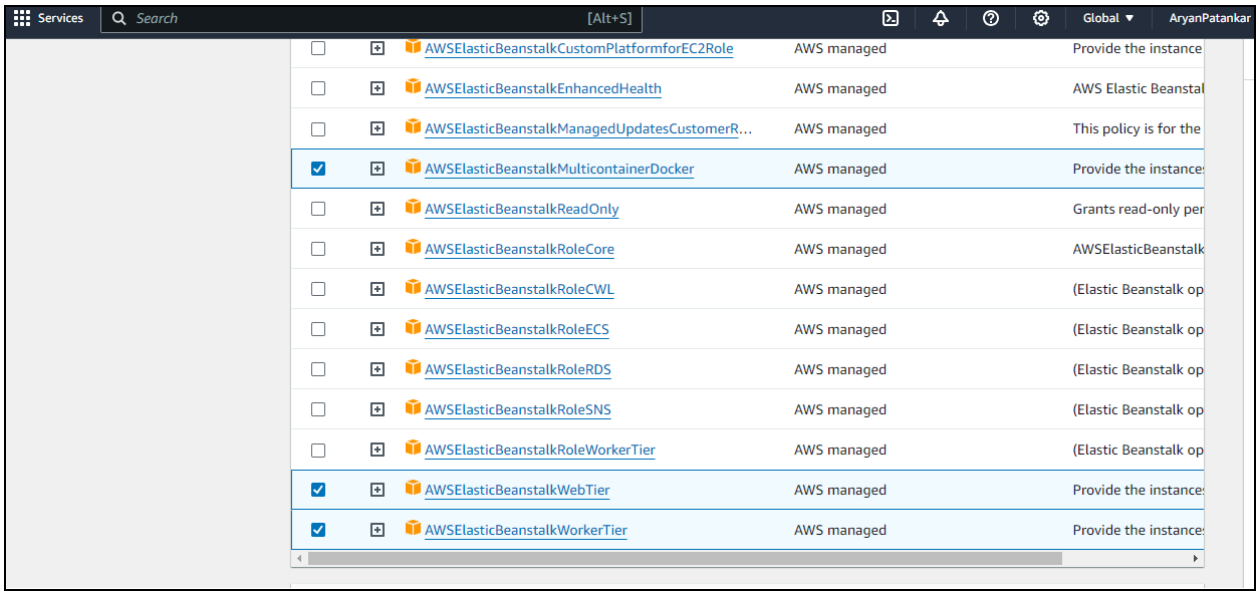
Updates

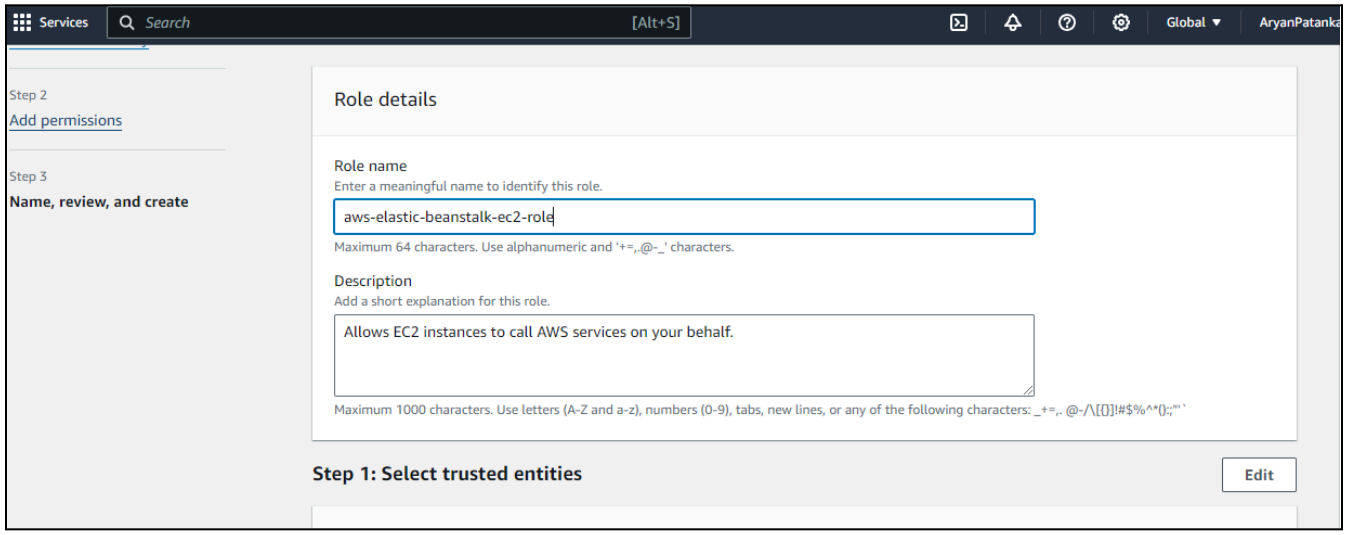
Managed updates	Deployment batch size	Deployment batch size type
Activated	100	Percentage

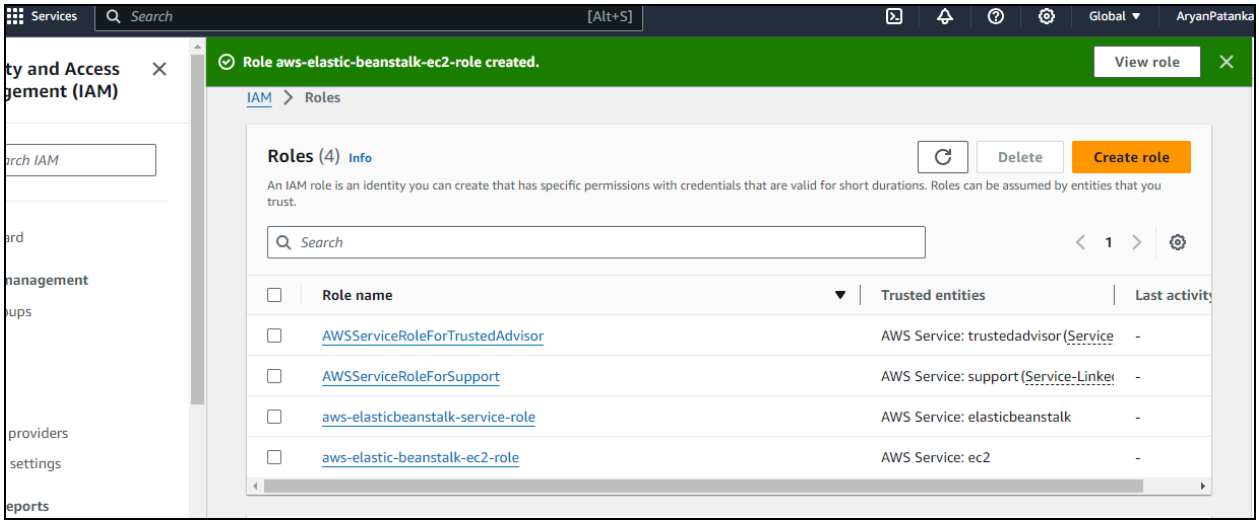

Platform software
Lifecycle
false
Log streaming
Deactivated
Allow URL fopen
On
Display errors
Off
Document root
–
Max execution time
60
Memory limit
256M
Zlib output compression
Off
Proxy server
nginx
Logs retention
7
Rotate logs
Deactivated
Update level
minor
X-Ray enabled
Memory limit
256M
Zlib output compression
Off
Proxy server
nginx
Logs retention
7
Rotate logs
Deactivated
Update level
minor
X-Ray enabled
Deactivated
Environment properties
Key
Value
No environment properties
There are no environment properties defined
Cancel
Previous
Submit

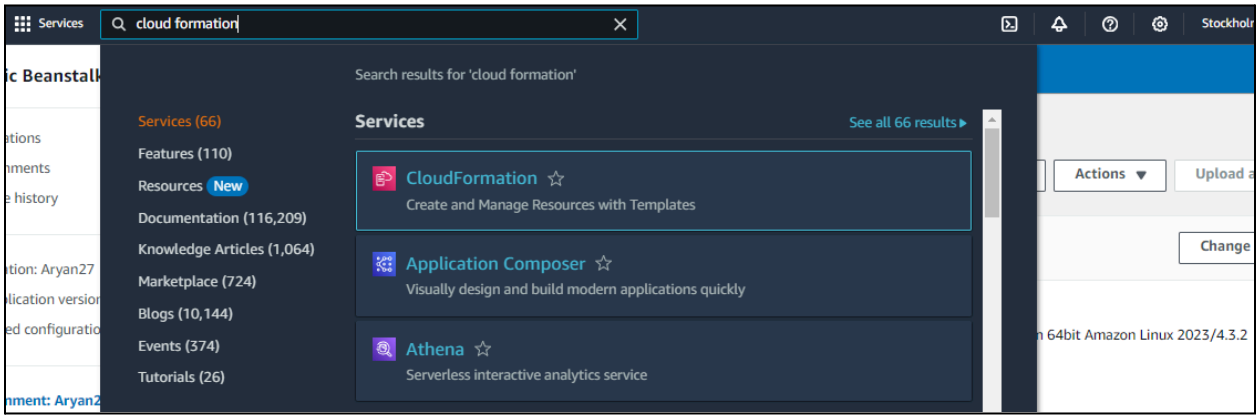

aws
Services
Search
[Alt+S]
Stockholm
AryanPatankar
Elastic Beanstalk
Elastic Beanstalk is launching your environment. This will take a few minutes.
Applications
Environments
Change history
Application: Aryan27
Application versions
Saved configurations
Environment: Aryan27-env
Go to environment
Configuration
Events
Health
Logs
Monitoring
Alarms
Managed updates
Tags
Elastic Beanstalk > Environments > Aryan27-env
Aryan27-env Info
Actions
Upload and deploy
Environment overview
Health
Unknown
Environment ID
e-83gzhjzgmq
Domain
-
Application name
Aryan27
Platform
Change version
Platform
PHP 8.3 running on 64bit Amazon Linux 2023/4.3.2
Running version
-
Platform state
Supported
Events
Health
Logs
Monitoring
Alarms
Managed updates
Tags
Events (2) Info
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

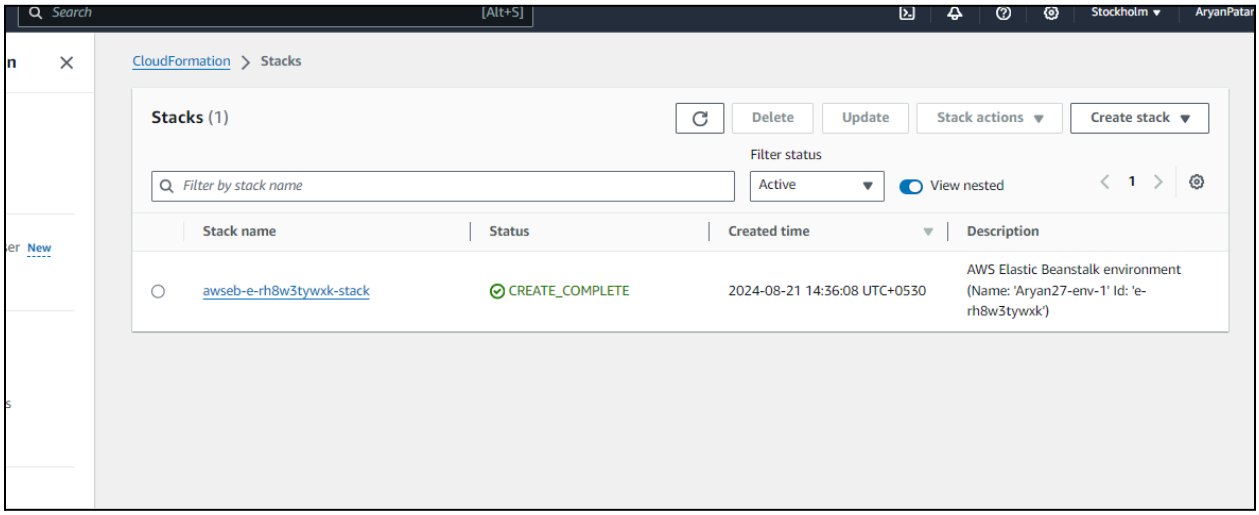

Trusted entity type
AWS service
Allow AWS services like EC2, Lambda, or others to perform actions in this account.
AWS account
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
Web identity
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
SAML 2.0 federation
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
Custom trust policy
Create a custom trust policy to enable others to perform actions in this account.
Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.
Service or use case
EC2

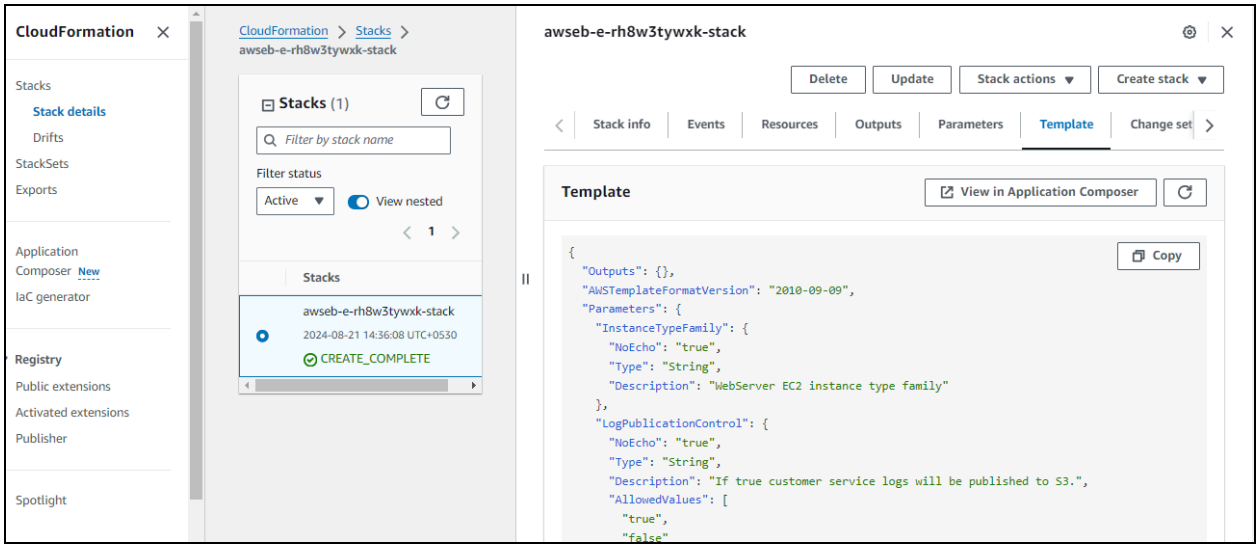

Services
Search
[Alt+S]
Global
AryanPatankar
AWSElasticBeanstalkCustomPlatformforEC2Role
AWS managed
Provide the instance
AWSElasticBeanstalkEnhancedHealth
AWS managed
AWS Elastic Beanstal
AWSElasticBeanstalkManagedUpdatesCustomerR...
AWS managed
This policy is for the
AWSElasticBeanstalkMulticontainerDocker
AWS managed
Provide the instance
AWSElasticBeanstalkReadOnly
AWS managed
Grants read-only per
AWSElasticBeanstalkRoleCore
AWS managed
AWSElasticBeanstalk
AWSElasticBeanstalkRoleCWL
AWS managed
(Elastic Beanstalk op
AWSElasticBeanstalkRoleECS
AWS managed
(Elastic Beanstalk op
AWSElasticBeanstalkRoleRDS
AWS managed
(Elastic Beanstalk op
AWSElasticBeanstalkRoleSNS
AWS managed
(Elastic Beanstalk op
AWSElasticBeanstalkRoleWorkerTier
AWS managed
(Elastic Beanstalk op
AWSElasticBeanstalkWebTier
AWS managed
Provide the instance
AWSElasticBeanstalkWorkerTier
AWS managed
Provide the instance

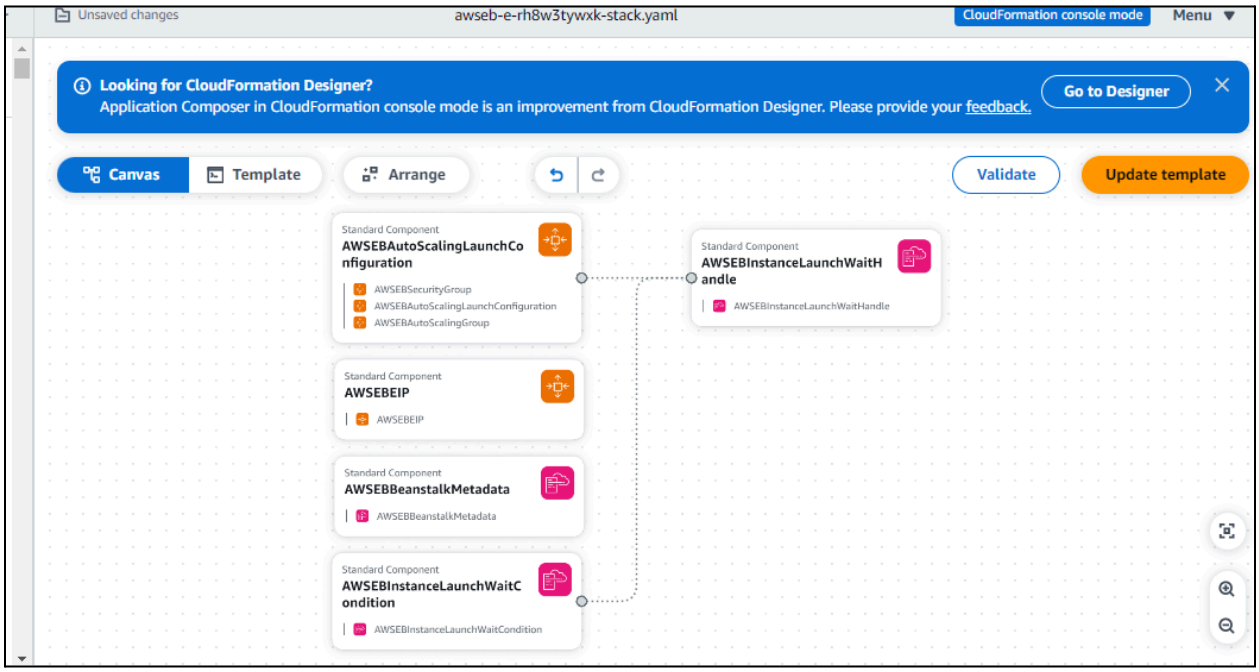

Services
Search
[Alt+S]
Global
AryanPatanka
Step 2
Add permissions
Step 3
Name, review, and create
Role details
Role name
Enter a meaningful name to identify this role.
aws-elastic-beanstalk-ec2-role
Maximum 64 characters. Use alphanumeric and '+=,.@-_' characters.
Description
Add a short explanation for this role.
Allows EC2 instances to call AWS services on your behalf.
Maximum 1000 characters. Use letters (A-Z and a-z), numbers (0-9), tabs, new lines, or any of the following characters: _+=,. @-/\[{}]!#$%^*();:"' `
Step 1: Select trusted entities
Edit

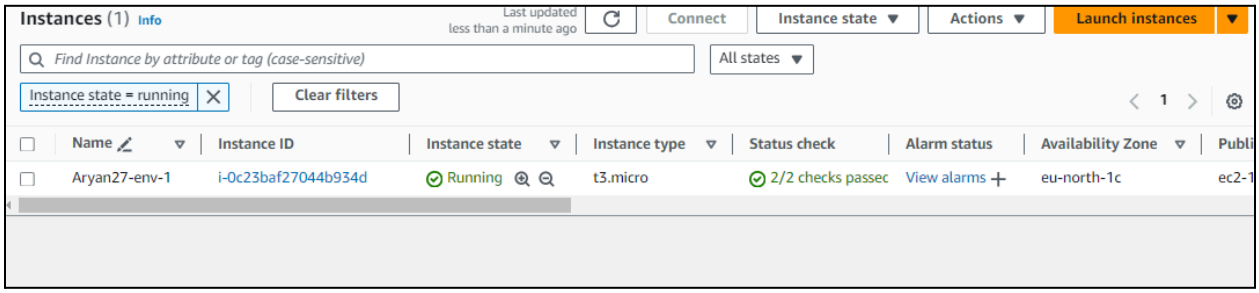

Services
Search
[Alt+S]
Global
AryanPatanka
Role aws-elastic-beanstalk-ec2-role created.
View role
IAM > Roles
Roles (4) Info
Delete
Create role
An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.
Search
Role name
Trusted entities
Last activity
AWSServiceRoleForTrustedAdvisor
AWS Service: trustedadvisor (Service
AWSServiceRoleForSupport
AWS Service: support (Service-Linke
aws-elasticbeanstalk-service-role
AWS Service: elasticbeanstalk
aws-elastic-beanstalk-ec2-role
AWS Service: ec2

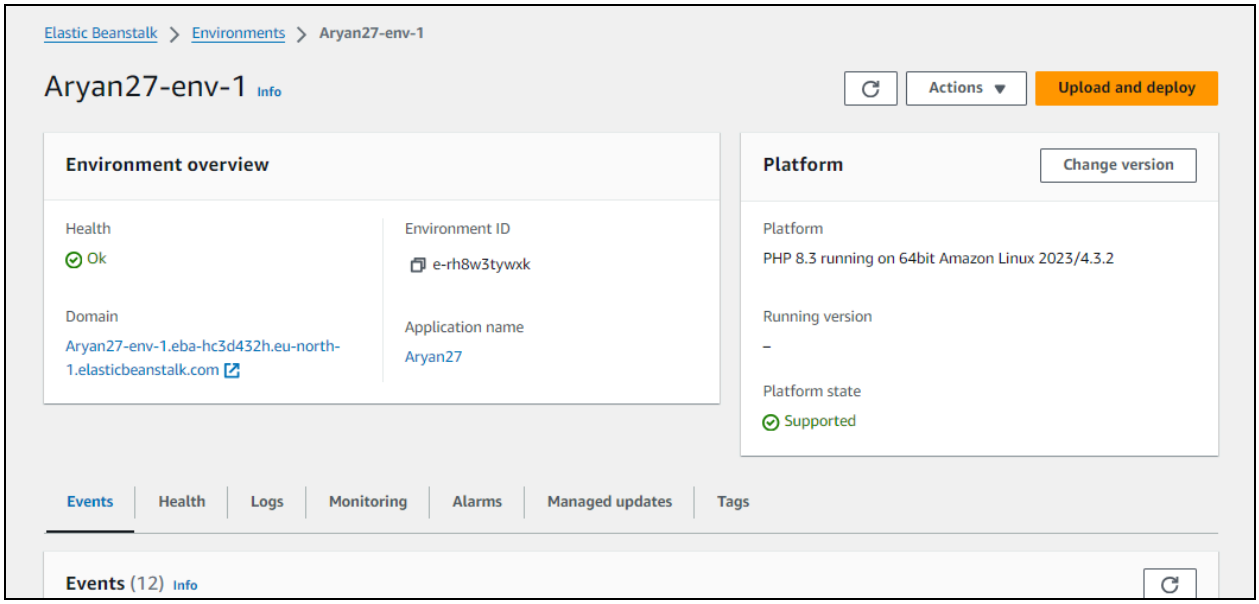

Services
cloud formation
Search results for 'cloud formation'
Services (66)
Features (110)
Resources New
Documentation (116,209)
Knowledge Articles (1,064)
Marketplace (724)
Blogs (10,144)
Events (374)
Tutorials (26)
Services
See all 66 results
CloudFormation
Create and Manage Resources with Templates
Application Composer
Visually design and build modern applications quickly
Athena
Serverless interactive analytics service
Actions
Change

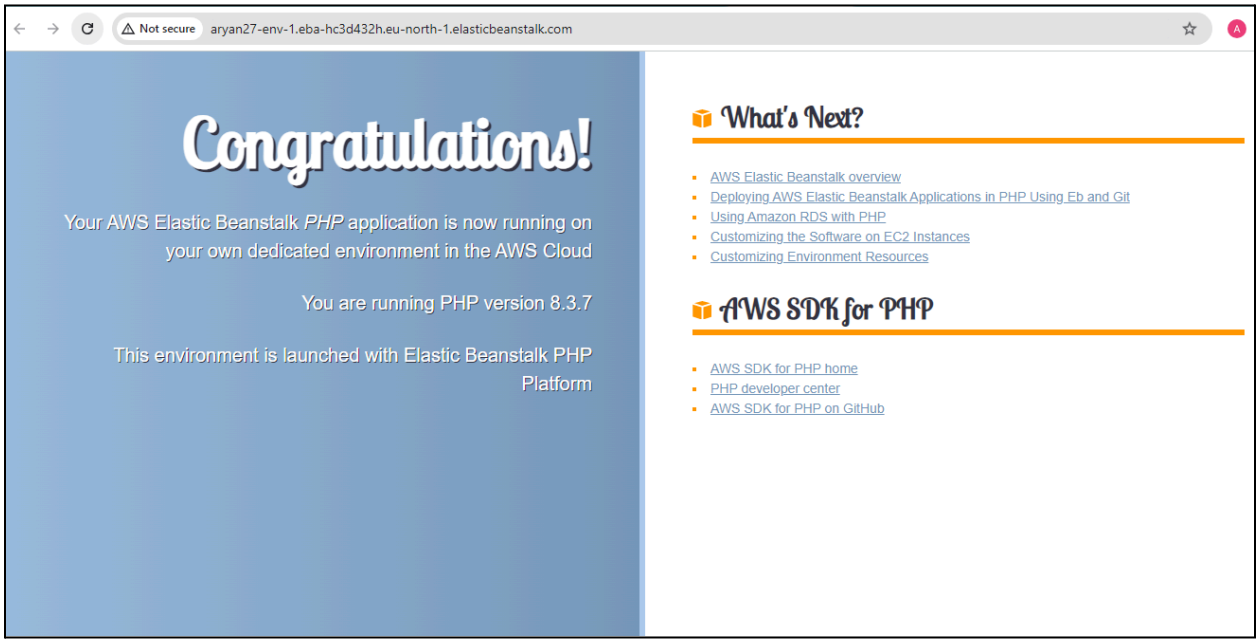

Search
[Alt+S]
Stockholm
CloudFormation > Stacks
Stacks (1)
Delete
Update
Stack actions
Create stack
Filter by stack name
Filter status
Active
View nested
Stack name
Status
Created time
Description
awseb-e-rh8w3tywxk-stack
CREATE_COMPLETE
2024-08-21 14:36:08 UTC+0530
AWS Elastic Beanstalk environment (Name: 'Aryan27-env-1' Id: 'e-rh8w3tywxk')

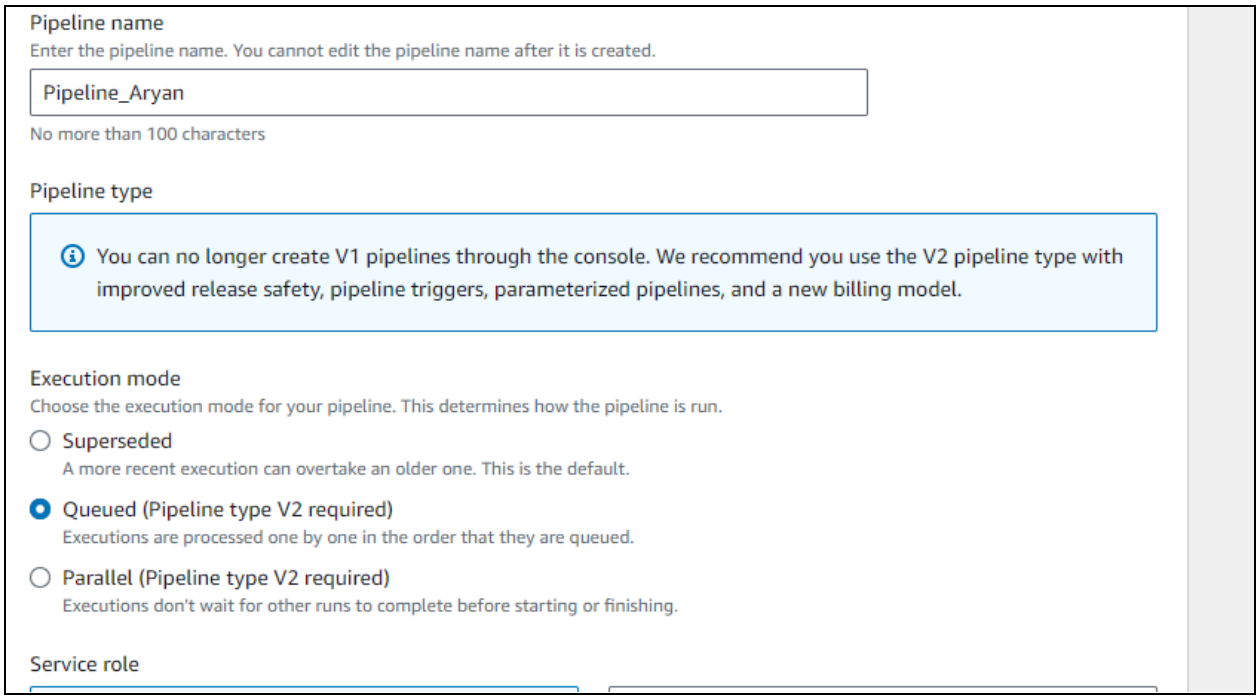

CloudFormation
Stacks
Stack details
Drifts
StackSets
Exports
Application Composer New
IaC generator
Registry
Public extensions
Activated extensions
Publisher
Spotlight
CloudFormation > Stacks >
awseb-e-rh8w3tywxk-stack
Stacks (1)
Filter by stack name
Filter status
Active
View nested
Stacks
awseb-e-rh8w3tywxk-stack
2024-08-21 14:36:08 UTC+0530
CREATE_COMPLETE
awseb-e-rh8w3tywxk-stack
Delete
Update
Stack actions
Create stack
Stack info
Events
Resources
Outputs
Parameters
Template
Change set
Template
View in Application Composer
Copy
{
"Outputs": {},
"AWSTemplateFormatVersion": "2010-09-09",
"Parameters": {
"InstanceTypeFamily": {
"NoEcho": "true",
"Type": "String",
"Description": "WebServer EC2 instance type family"
},
"LogPublicationControl": {
"NoEcho": "true",
"Type": "String",
"Description": "If true customer service logs will be published to S3.",
"AllowedValues": [
"true",
"false"

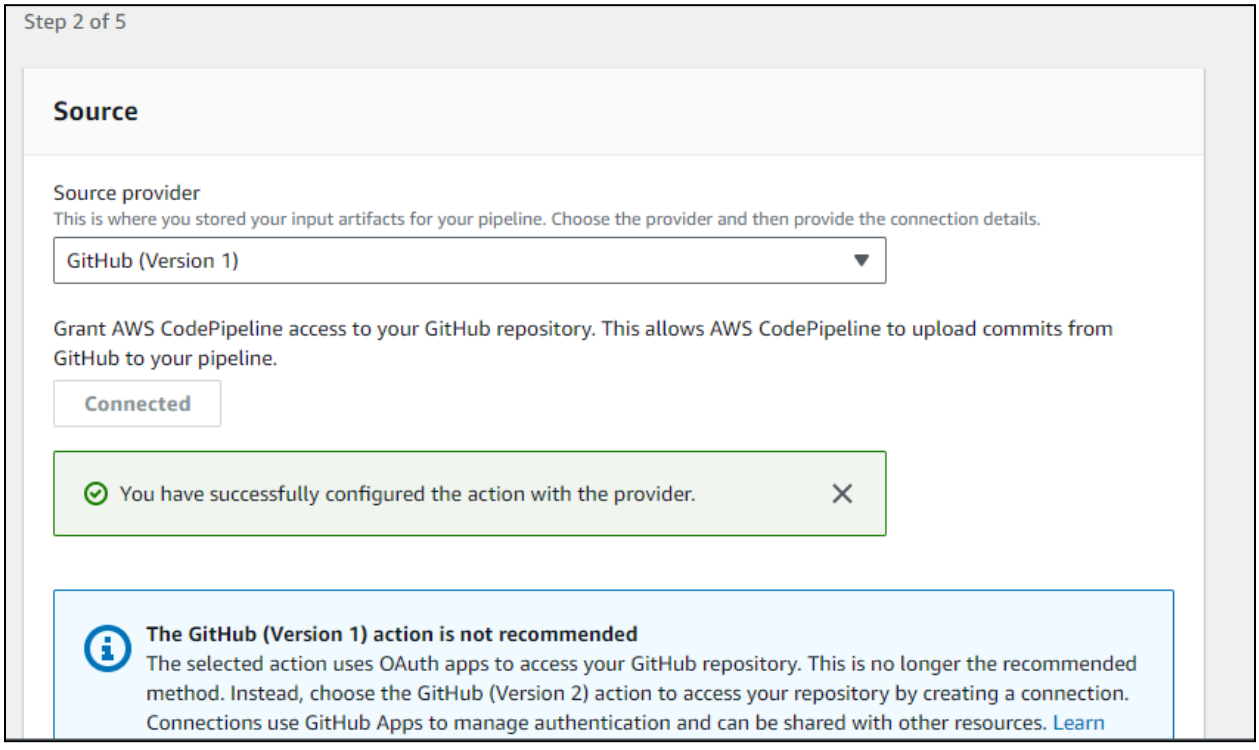

Unsaved changes
awseb-e-rh8w3tywxk-stack.yaml
CloudFormation console mode
Menu
Looking for CloudFormation Designer?
Application Composer in CloudFormation console mode is an improvement from CloudFormation Designer. Please provide your feedback.
Go to Designer
Canvas
Template
Arrange
Validate
Update template
Standard Component
AWSEBAutoScalingLaunchConfiguration
AWSEBSecurityGroup
AWSEBAutoScalingLaunchConfiguration
AWSEBAutoScalingGroup
Standard Component
AWSEBInstanceLaunchWaitHandle
AWSEBInstanceLaunchWaitHandle
Standard Component
AWSEBEIP
AWSEBEIP
Standard Component
AWSEBBeanstalkMetadata
AWSEBBeanstalkMetadata
Standard Component
AWSEBInstanceLaunchWaitCondition
AWSEBInstanceLaunchWaitCondition

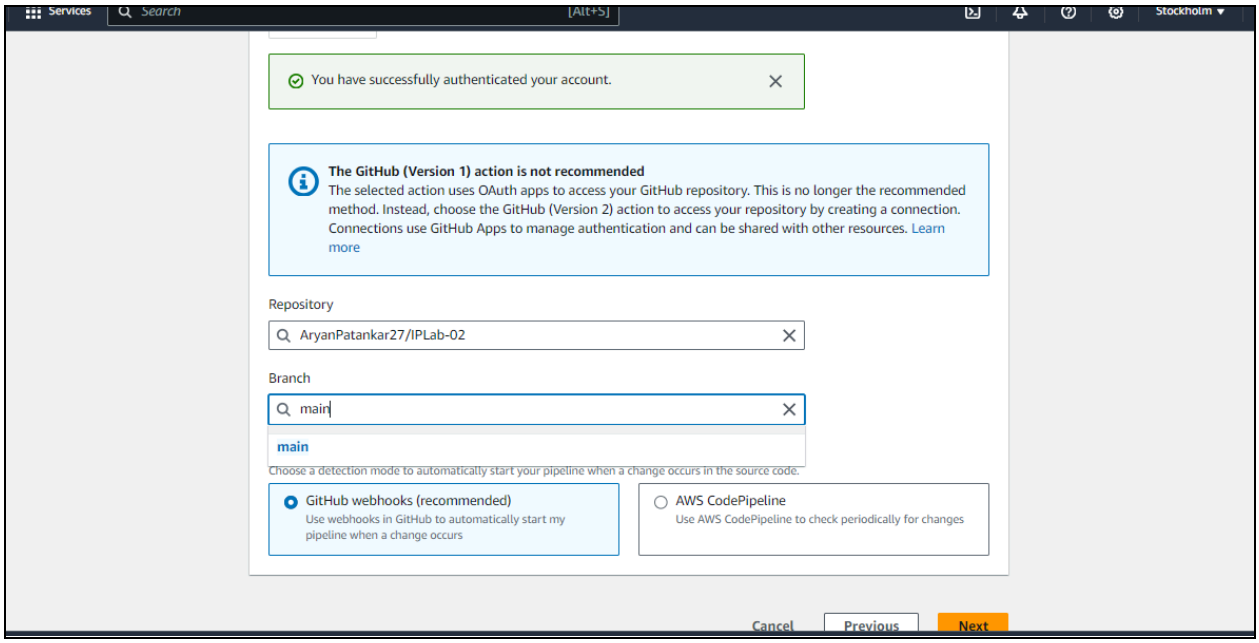

Instances (1) Info
Last updated less than a minute ago
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Aryan27-env-1
i-0c23baf27044b934d
Running
t3.micro
2/2 checks passed
View alarms
eu-north-1c

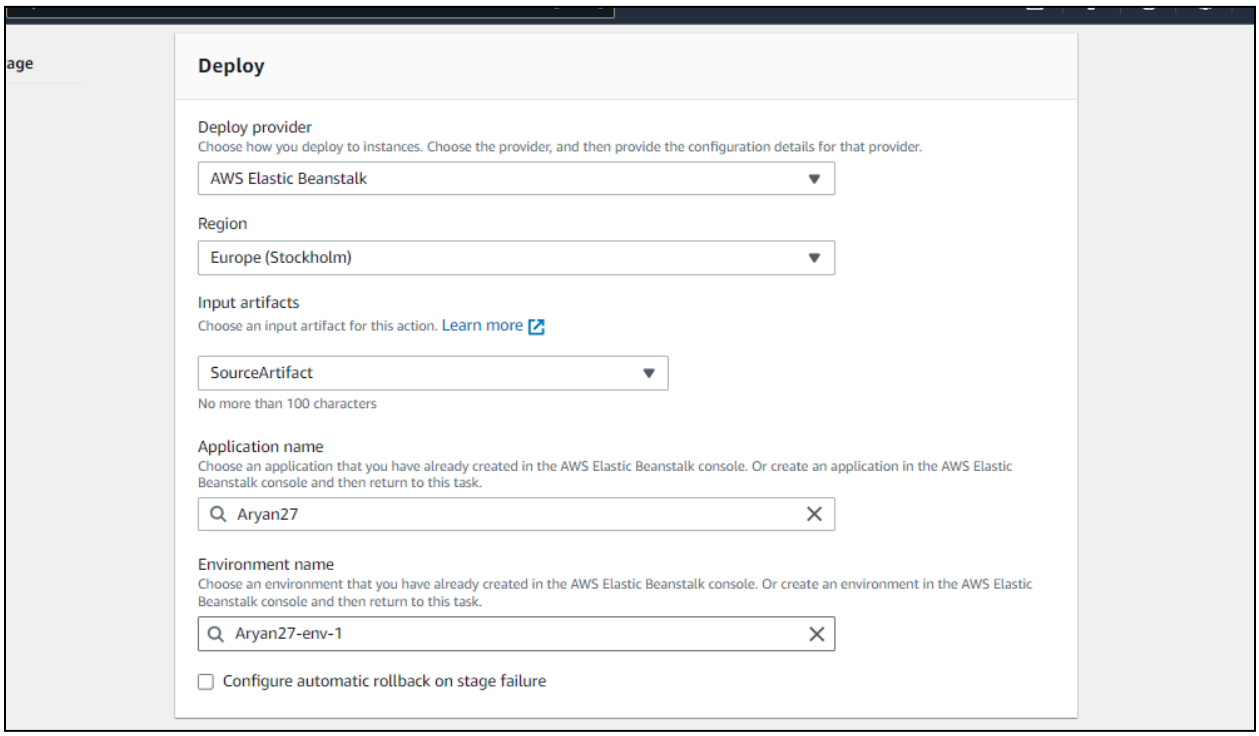

Elastic Beanstalk > Environments > Aryan27-env-1
Aryan27-env-1 Info
Actions
Upload and deploy
Environment overview
Health
Ok
Environment ID
e-rh8w3tywxk
Domain
Aryan27-env-1.eba-hc3d432h.eu-north-1.elasticbeanstalk.com
Application name
Aryan27
Platform
Change version
Platform
PHP 8.3 running on 64bit Amazon Linux 2023/4.3.2
Running version
–
Platform state
Supported
Events
Health
Logs
Monitoring
Alarms
Managed updates
Tags
Events (12) Info

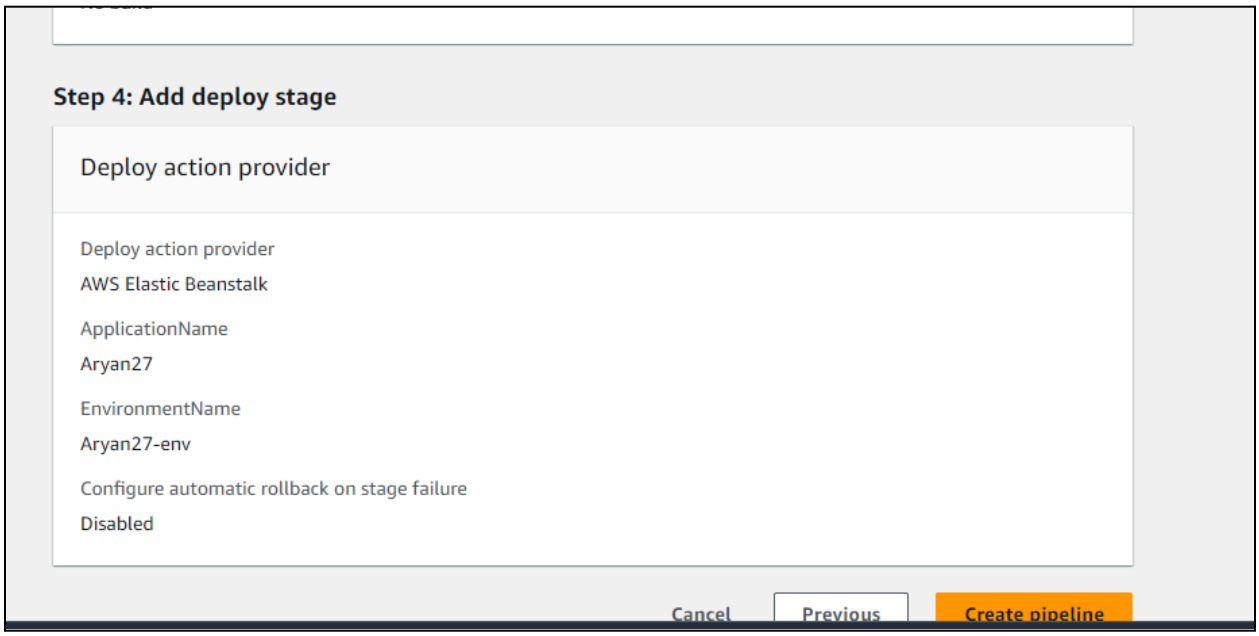

Not secure
aryan27-env-1.eba-hc3d432h.eu-north-1.elasticbeanstalk.com
Congratulations!
Your AWS Elastic Beanstalk PHP application is now running on your own dedicated environment in the AWS Cloud
You are running PHP version 8.3.7
This environment is launched with Elastic Beanstalk PHP Platform
What's Next?
AWS Elastic Beanstalk overview
Deploying AWS Elastic Beanstalk Applications in PHP Using Eb and Git
Using Amazon RDS with PHP
Customizing the Software on EC2 Instances
Customizing Environment Resources
AWS SDK for PHP
AWS SDK for PHP home
PHP developer center
AWS SDK for PHP on GitHub

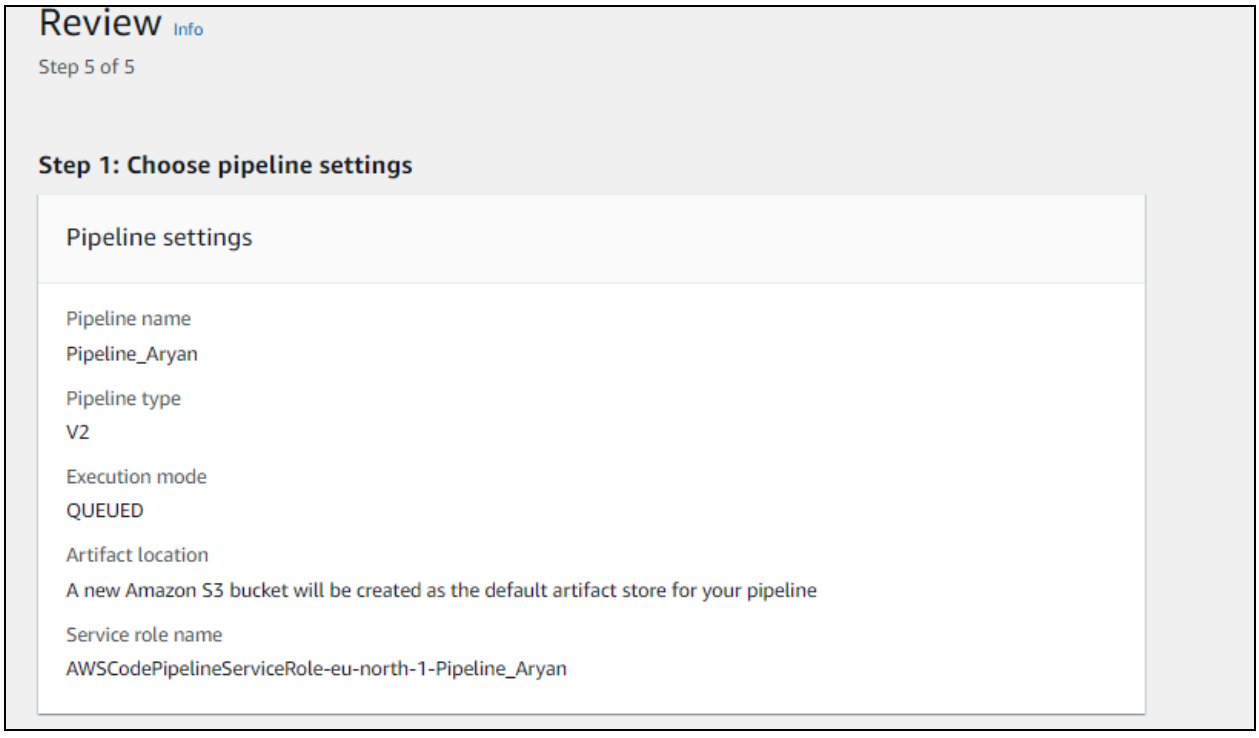

Pipeline name
Enter the pipeline name. You cannot edit the pipeline name after it is created.
Pipeline_Aryan
No more than 100 characters
Pipeline type
You can no longer create V1 pipelines through the console. We recommend you use the V2 pipeline type with improved release safety, pipeline triggers, parameterized pipelines, and a new billing model.
Execution mode
Choose the execution mode for your pipeline. This determines how the pipeline is run.
Superseded
A more recent execution can overtake an older one. This is the default.
Queued (Pipeline type V2 required)
Executions are processed one by one in the order that they are queued.
Parallel (Pipeline type V2 required)
Executions don't wait for other runs to complete before starting or finishing.
Service role


Step 2 of 5
Source
Source provider
This is where you stored your input artifacts for your pipeline. Choose the provider and then provide the connection details.
GitHub (Version 1)
Grant AWS CodePipeline access to your GitHub repository. This allows AWS CodePipeline to upload commits from GitHub to your pipeline.
Connected
You have successfully configured the action with the provider.
The GitHub (Version 1) action is not recommended
The selected action uses OAuth apps to access your GitHub repository. This is no longer the recommended method. Instead, choose the GitHub (Version 2) action to access your repository by creating a connection. Connections use GitHub Apps to manage authentication and can be shared with other resources. Learn


Services
Search
[Alt+S]
Stockholm
You have successfully authenticated your account.
The GitHub (Version 1) action is not recommended
The selected action uses OAuth apps to access your GitHub repository. This is no longer the recommended method. Instead, choose the GitHub (Version 2) action to access your repository by creating a connection. Connections use GitHub Apps to manage authentication and can be shared with other resources. Learn more
Repository
AryanPatankar27/IPLab-02
Branch
main
main
Choose a detection mode to automatically start your pipeline when a change occurs in the source code.
GitHub webhooks (recommended)
Use webhooks in GitHub to automatically start my pipeline when a change occurs
AWS CodePipeline
Use AWS CodePipeline to check periodically for changes
Cancel
Previous
Next


age
Deploy
Deploy provider
Choose how you deploy to instances. Choose the provider, and then provide the configuration details for that provider.
AWS Elastic Beanstalk
Region
Europe (Stockholm)
Input artifacts
Choose an input artifact for this action. Learn more
SourceArtifact
No more than 100 characters
Application name
Choose an application that you have already created in the AWS Elastic Beanstalk console. Or create an application in the AWS Elastic Beanstalk console and then return to this task.
Aryan27
Environment name
Choose an environment that you have already created in the AWS Elastic Beanstalk console. Or create an environment in the AWS Elastic Beanstalk console and then return to this task.
Aryan27-env-1
Configure automatic rollback on stage failure


Step 4: Add deploy stage
Deploy action provider
Deploy action provider
AWS Elastic Beanstalk
ApplicationName
Aryan27
EnvironmentName
Aryan27-env
Configure automatic rollback on stage failure
Disabled
Cancel
Previous
Create pipeline


Review Info
Step 5 of 5
Step 1: Choose pipeline settings
Pipeline settings
Pipeline name
Pipeline_Aryan
Pipeline type
V2
Execution mode
QUEUED
Artifact location
A new Amazon S3 bucket will be created as the default artifact store for your pipeline
Service role name
AWSCodePipelineServiceRole-eu-north-1-Pipeline_Aryan

Step 2: Add source stage

Source action provider

Source action provider
GitHub (Version 1)

PollForSourceChanges
false

Repo
IPLab-02

Owner
AryanPatankar27

Branch
main

Step 3: Add build stage

Build action provider

Build stage
No build

Step 4: Add deploy stage

Deploy action provider

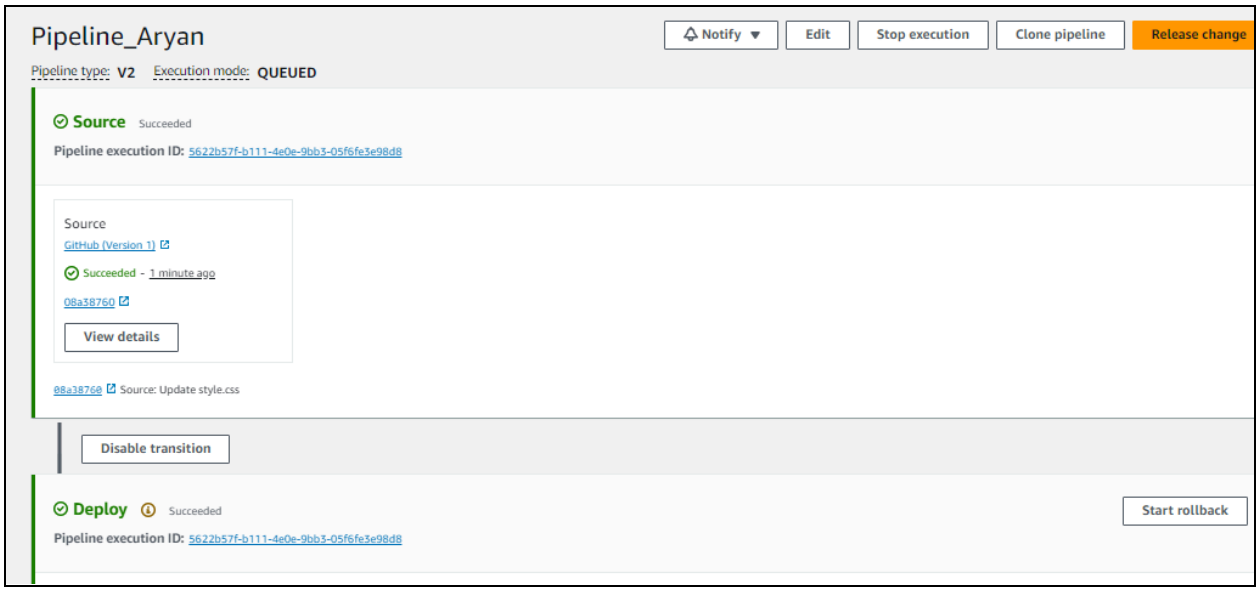
Deploy action provider
AWS Elastic Beanstalk

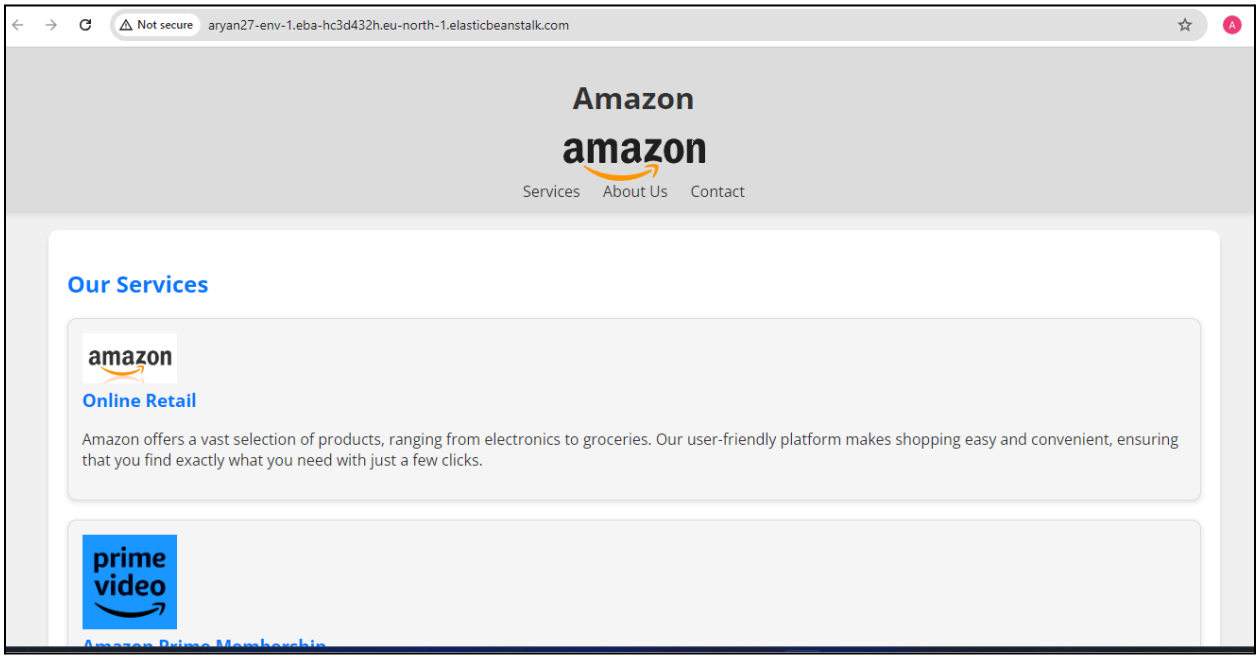
ApplicationName
Aryan27

EnvironmentName
Aryan27-env-1

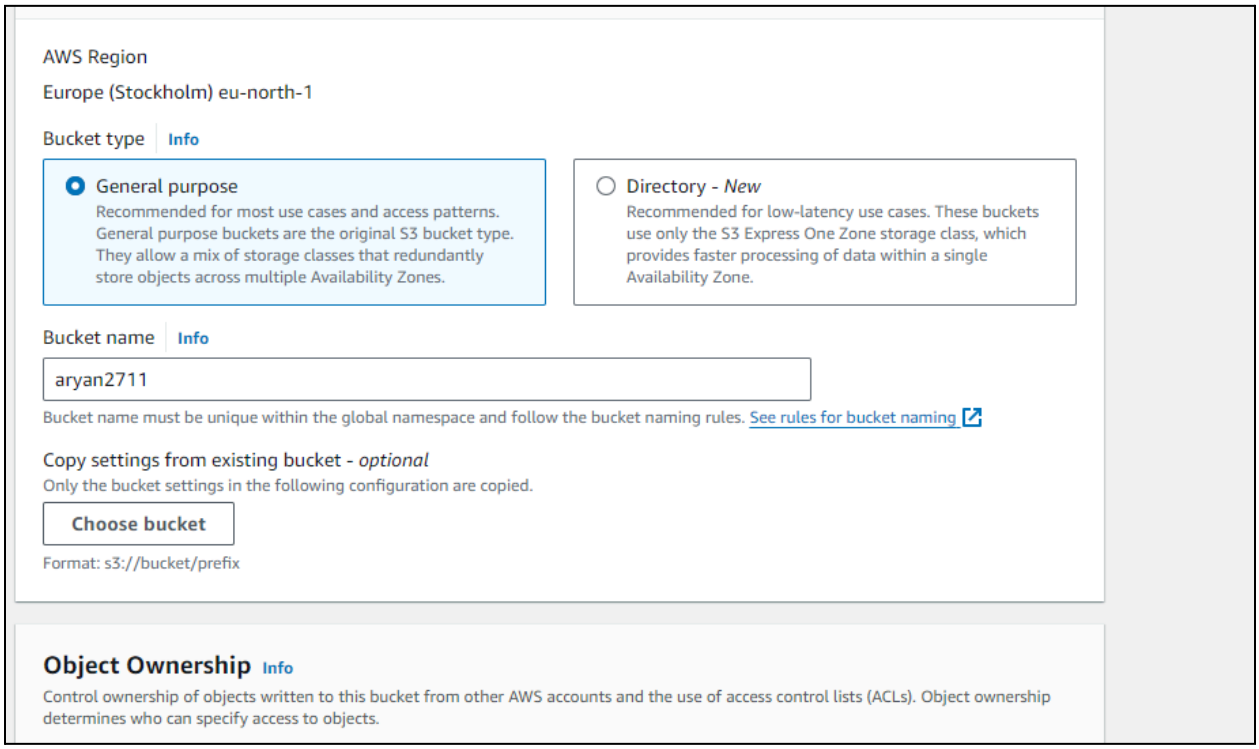
Configure automatic rollback on stage failure
Disabled

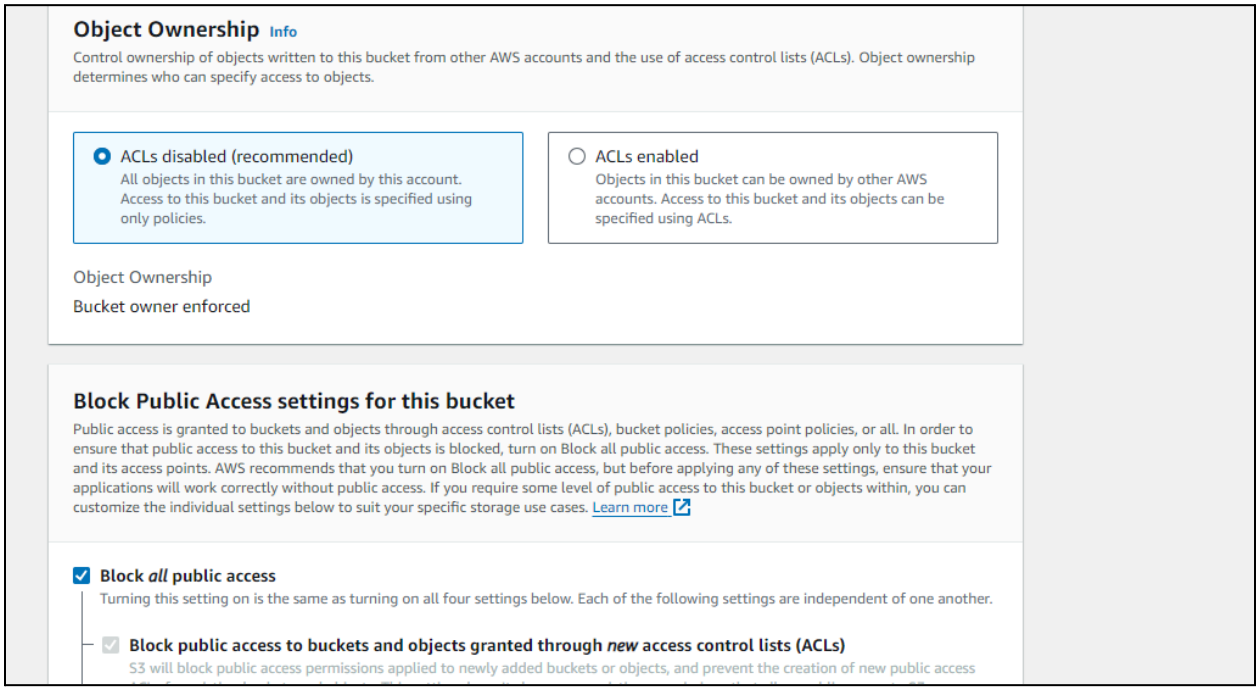
Cancel | Previous | Create pipeline


Pipeline_Aryan
Notify
Edit
Stop execution
Clone pipeline
Release change
Pipeline type: V2
Execution mode: QUEUED
Source
Succeeded
Pipeline execution ID: 5622b57f-b111-4e0e-9bb3-05f6fe3e98d8
Source
GitHub (Version 1)
Succeeded - 1 minute ago
08a38760
View details
08a38760 Source: Update style.css
Disable transition
Deploy
Succeeded
Start rollback
Pipeline execution ID: 5622b57f-b111-4e0e-9bb3-05f6fe3e98d8


Not secure
aryan27-env-1.eba-hc3d432h.eu-north-1.elasticbeanstalk.com
Amazon
amazon
Services
About Us
Contact
Our Services
amazon
Online Retail
Amazon offers a vast selection of products, ranging from electronics to groceries. Our user-friendly platform makes shopping easy and convenient, ensuring that you find exactly what you need with just a few clicks.
prime video

Using S3 Bucket





Encryption type | Info

- (•) Server-side encryption with Amazon S3 managed keys (SSE-S3)
- ( ) Server-side encryption with AWS Key Management Service keys (SSE-KMS)
- ( ) Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)

Secure your objects with two separate layers of encryption. For details on pricing, see **DSSE-KMS pricing** on the **Storage** tab of the Amazon S3 pricing page.

Bucket Key

Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. Learn more

- ( ) Disable
- (•) Enable

▶ **Advanced settings**

After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel | **Create bucket**

Successfully created bucket "aryan2711"
To upload files and folders, or to configure additional bucket settings, choose **View details**.

View details

Storage lens provides visibility into storage usage and activity trends. Learn more

General purpose buckets | Directory buckets

General purpose buckets (3) Info All AWS Regions

Buckets are containers for data stored in S3.

Copy ARN | Empty | Delete | **Create bucket**

Find buckets by name

1

Name	AWS Region	IAM Access Analyzer	Creation date
aryan2711	Europe (Stockholm) eu-north-1	View analyzer for eu-north-1	August 21, 2024, 15:42:44 (UTC+05:30)
codepipeline-eu-north-1-365572256475	Europe (Stockholm) eu-north-1	View analyzer for eu-north-1	August 21, 2024, 15:29:16 (UTC+05:30)
elasticbeanstalk-eu-north-1-405894863107	Europe (Stockholm) eu-north-1	View analyzer for eu-north-1	August 21, 2024, 14:00:18 (UTC+05:30)

Upload Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. Learn more

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

Files and folders (11 Total, 545.5 KB)

Remove | Add files | Add folder

All files and folders in this table will be uploaded.

Find by name

1 2

Name	Folder	Type
download (1).jfif	IPLab-02-main/	image/jpeg
download (1).png	IPLab-02-main/	image/png
download (2).jfif	IPLab-02-main/	image/jpeg
download (2).png	IPLab-02-main/	image/png
download (3).png	IPLab-02-main/	image/png
download (4).png	IPLab-02-main/	image/png
download.png	IPLab-02-main/	image/png
index.html	IPLab-02-main/	text/html
introduction.mp3	IPLab-02-main/	audio/mpeg
promotional-video.mp4	IPLab-02-main/	video/mp4

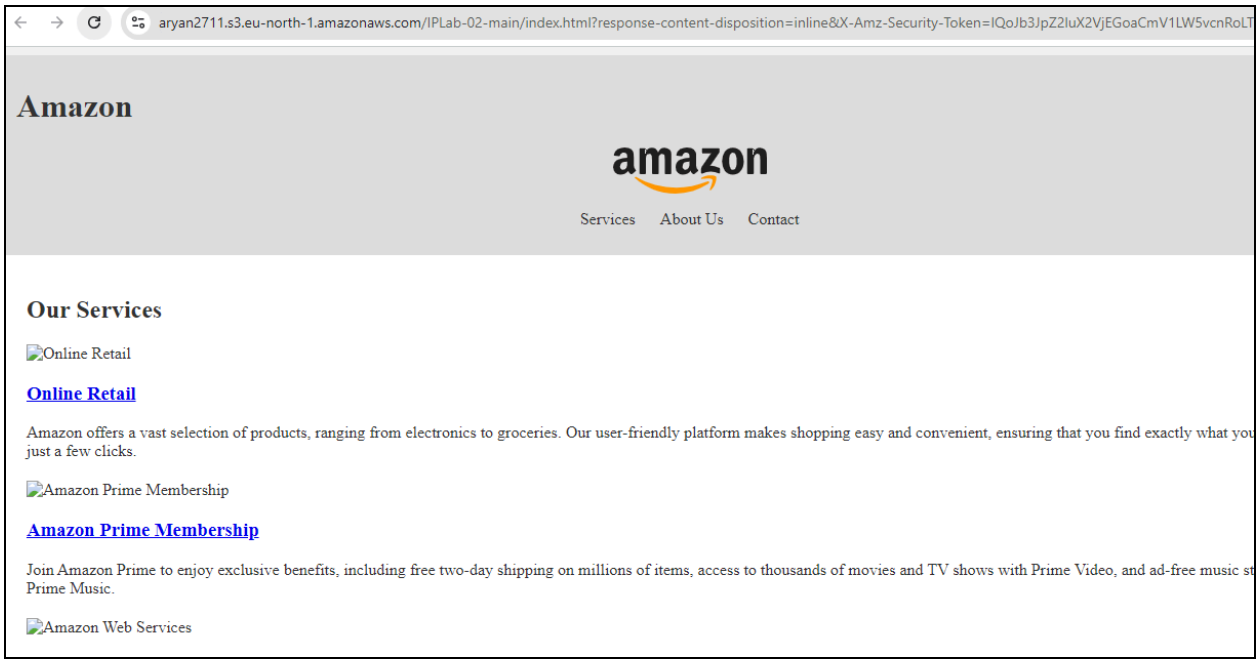
Upload succeeded
View details below.

Files and folders | Configuration

Files and folders (11 Total, 545.5 KB)

Find by name

Name	Folder	Type	Size	Status	Error
download (1...	IPLab-02-main/	image/jpeg	8.4 KB	Succeeded	-
download (1...	IPLab-02-main/	image/png	3.3 KB	Succeeded	-
download (2...	IPLab-02-main/	image/jpeg	5.5 KB	Succeeded	-
download (2...	IPLab-02-main/	image/png	6.0 KB	Succeeded	-
download (3...	IPLab-02-main/	image/png	6.1 KB	Succeeded	-
download (4...	IPLab-02-main/	image/png	2.4 KB	Succeeded	-
download.pn...	IPLab-02-main/	image/png	4.7 KB	Succeeded	-
index.html	IPLab-02-main/	text/html	6.1 KB	Succeeded	-
introduction....	IPLab-02-main/	audio/mpeg	158.0 KB	Succeeded	-
promotional...	IPLab-02-main/	video/mp4	341.4 KB	Succeeded	-


aryan2711.s3.eu-north-1.amazonaws.com/IPLab-02-main/index.html?response-content-disposition=inline&X-Amz-Security-Token=IQoJb3JpZ2luX2VjEGoaCmV1LW5vcnRoLT
Amazon
amazon
Services
About Us
Contact
Our Services
Online Retail
Online Retail
Amazon offers a vast selection of products, ranging from electronics to groceries. Our user-friendly platform makes shopping easy and convenient, ensuring that you find exactly what you
just a few clicks.
Amazon Prime Membership
Amazon Prime Membership
Join Amazon Prime to enjoy exclusive benefits, including free two-day shipping on millions of items, access to thousands of movies and TV shows with Prime Video, and ad-free music st
Prime Music.
Amazon Web Services