Problem Statement:

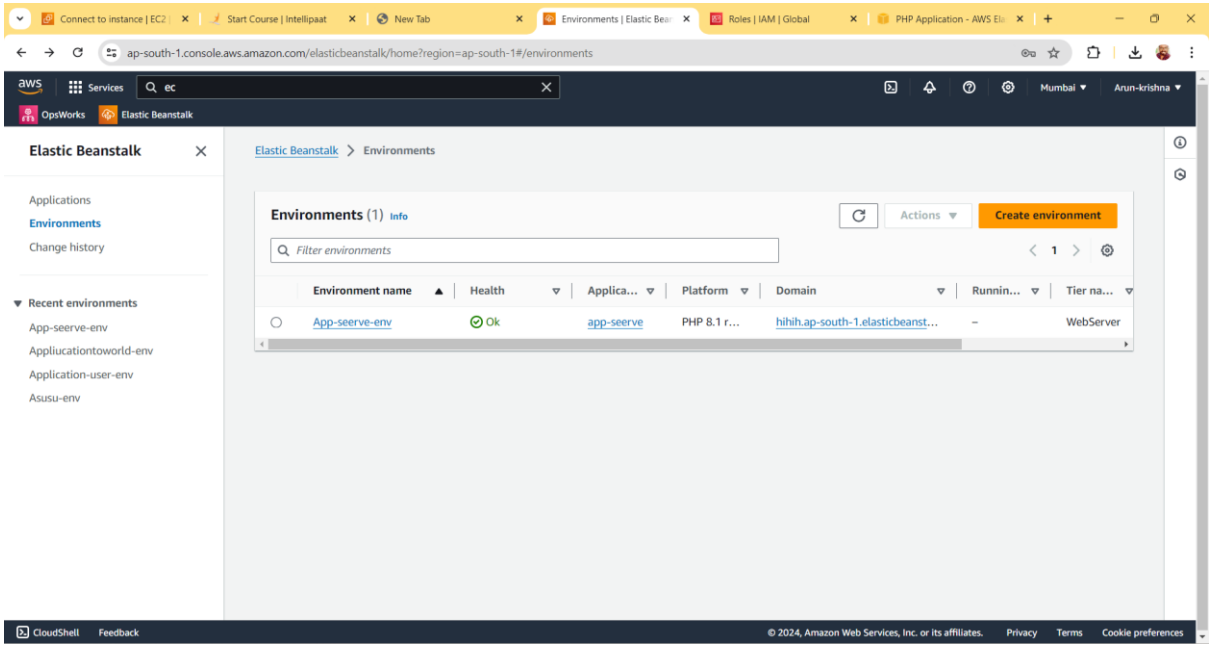
You work for XYZ Corporation. Your corporation wants to launch a new web-based application and they do not want their servers to be running all the time. It should also be managed by AWS. Implement suitable solutions.

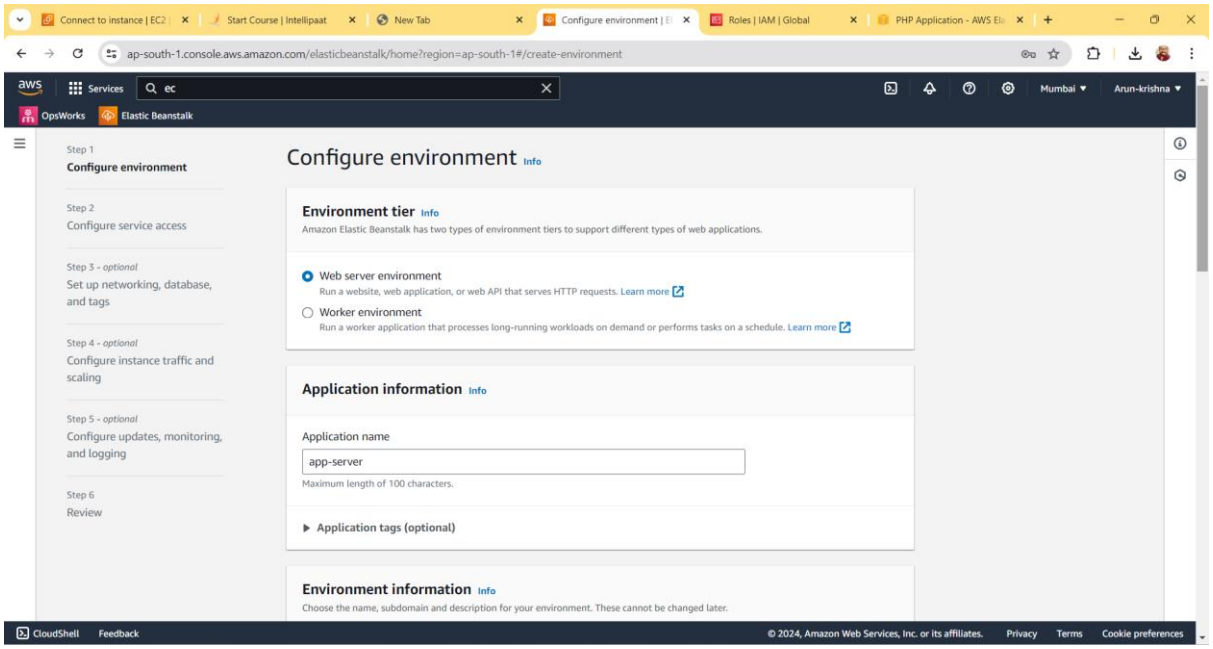
Tasks To Be Performed:

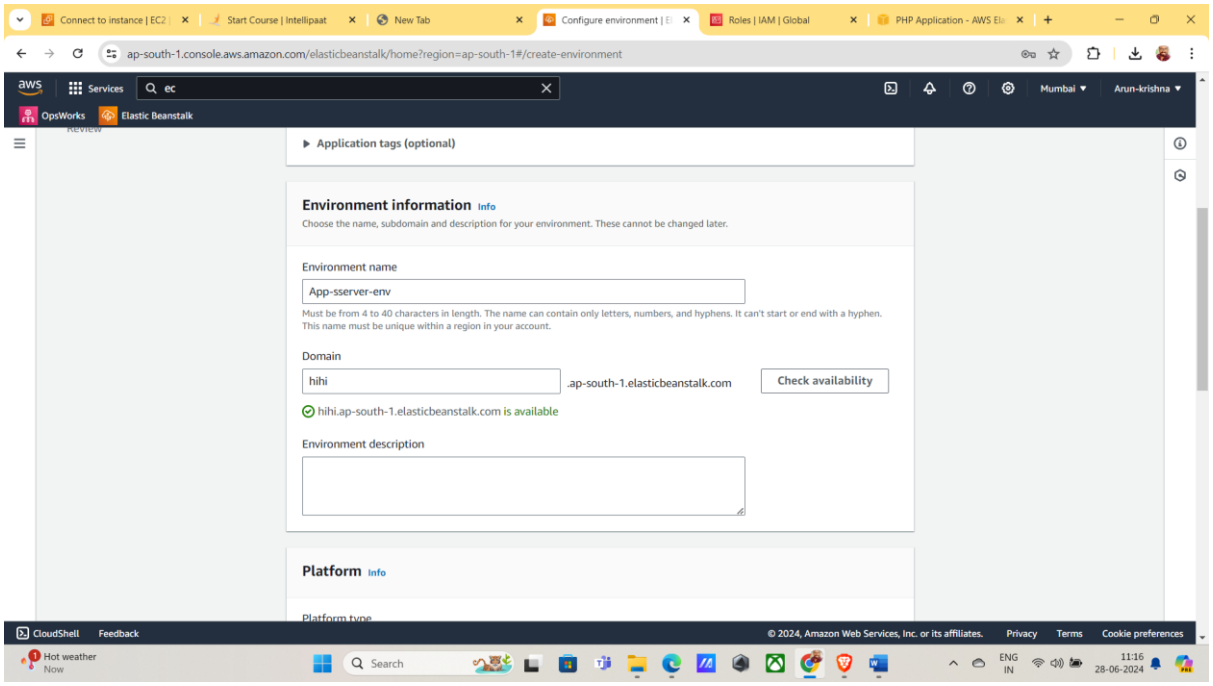
1. Create an Elastic Beanstalk environment with the runtime as PHP.

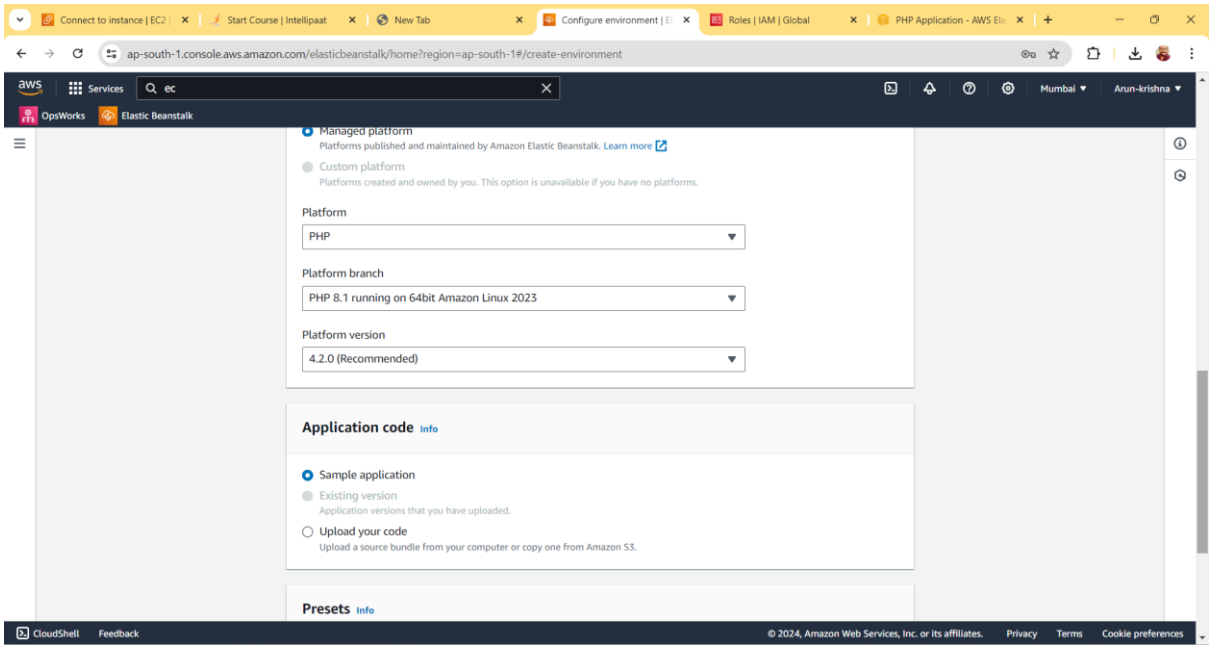
2. Upload a simple PHP file to the environment

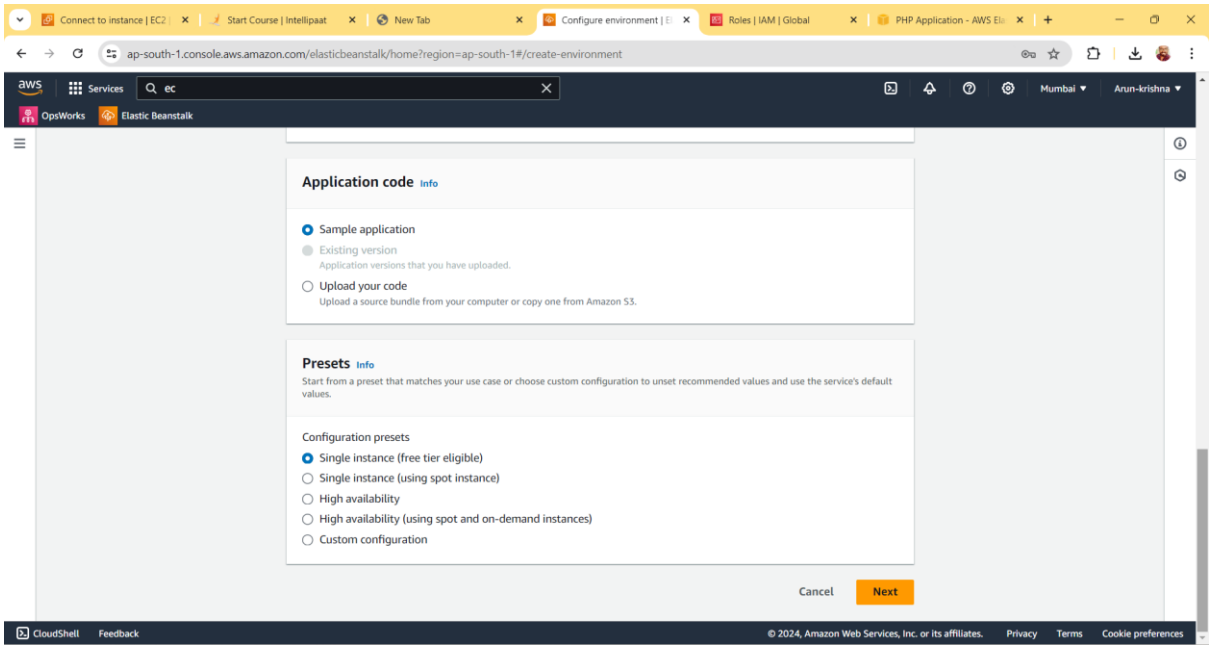
Create an Elastic Beanstalk environment with the runtime as PHP.

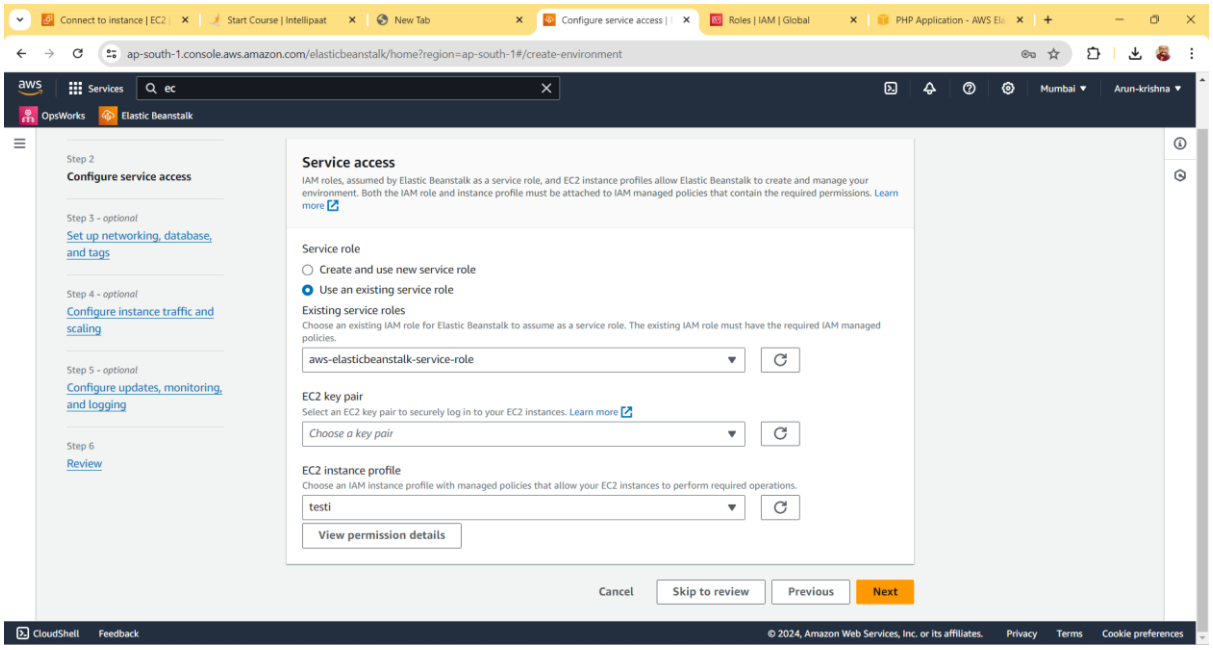


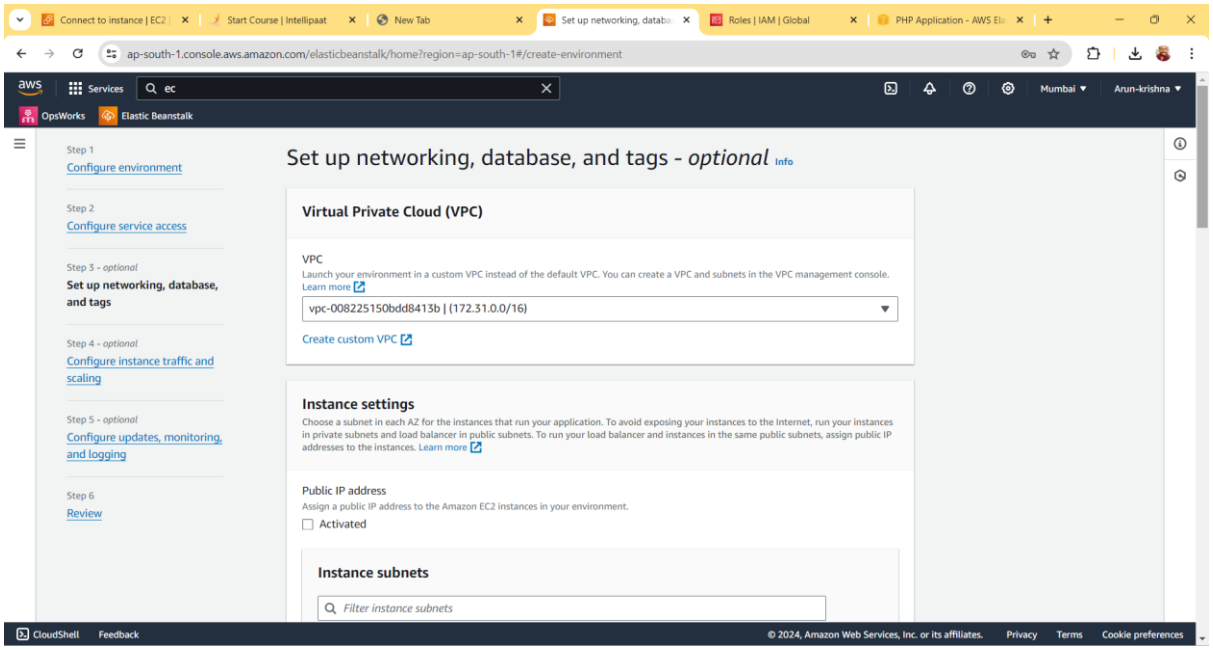

Connect to instance | EC2
Start Course | Intellipaat
New Tab
Configure environment | El
Roles | IAM | Global
PHP Application - AWS El
ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment
aws
Services
ec
Mumbai
Arun-krishna
OpsWorks
Elastic Beanstalk
Step 1
Configure 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
app-server
Maximum length of 100 characters.
Application tags (optional)
Environment information Info
Choose the name, subdomain and description for your environment. These cannot be changed later.
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

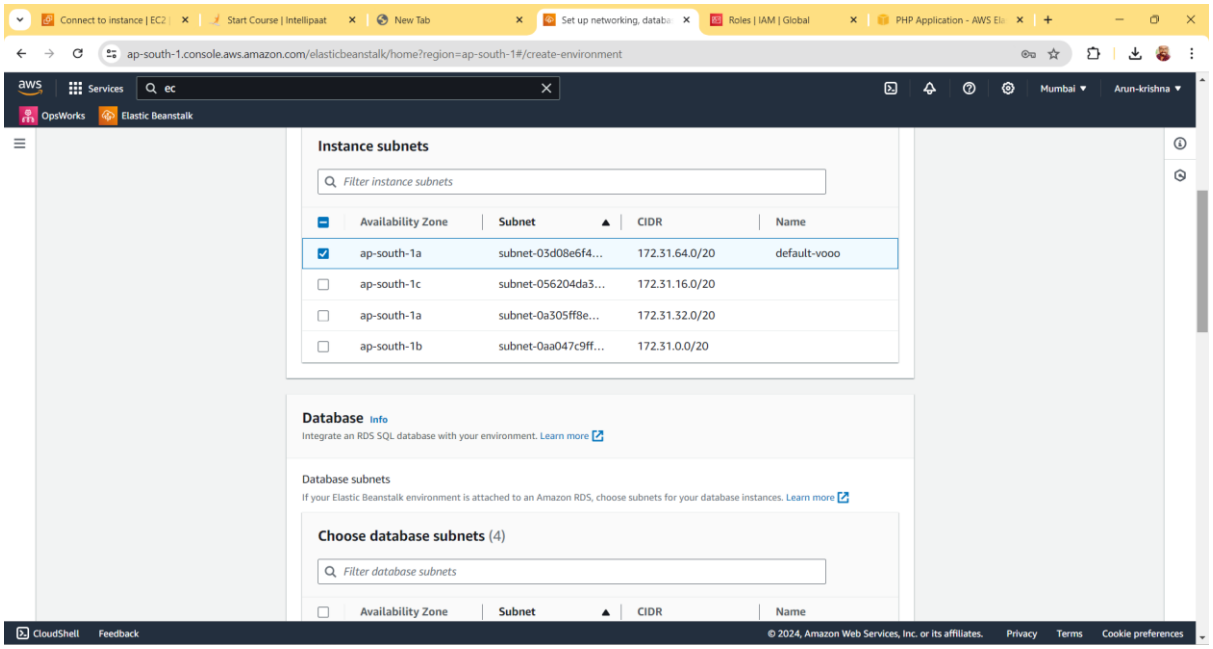

Connect to instance | EC2
Start Course | Intellipaat
New Tab
Configure environment | El
Roles | IAM | Global
PHP Application - AWS El
ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment
aws
Services
ec
Mumbai
Arun-krishna
OpsWorks
Elastic Beanstalk
Review
Application tags (optional)
Environment information Info
Choose the name, subdomain and description for your environment. These cannot be changed later.
Environment name
App-sserver-env
Must be from 4 to 40 characters in length. The name can contain only letters, numbers, and hyphens. It can't start or end with a hyphen. This name must be unique within a region in your account.
Domain
hihi
.ap-south-1.elasticbeanstalk.com
Check availability
hihi.ap-south-1.elasticbeanstalk.com is available
Environment description
Platform Info
Platform type
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Hot weather
Now
Search
ENG
IN
11:16
28-06-2024

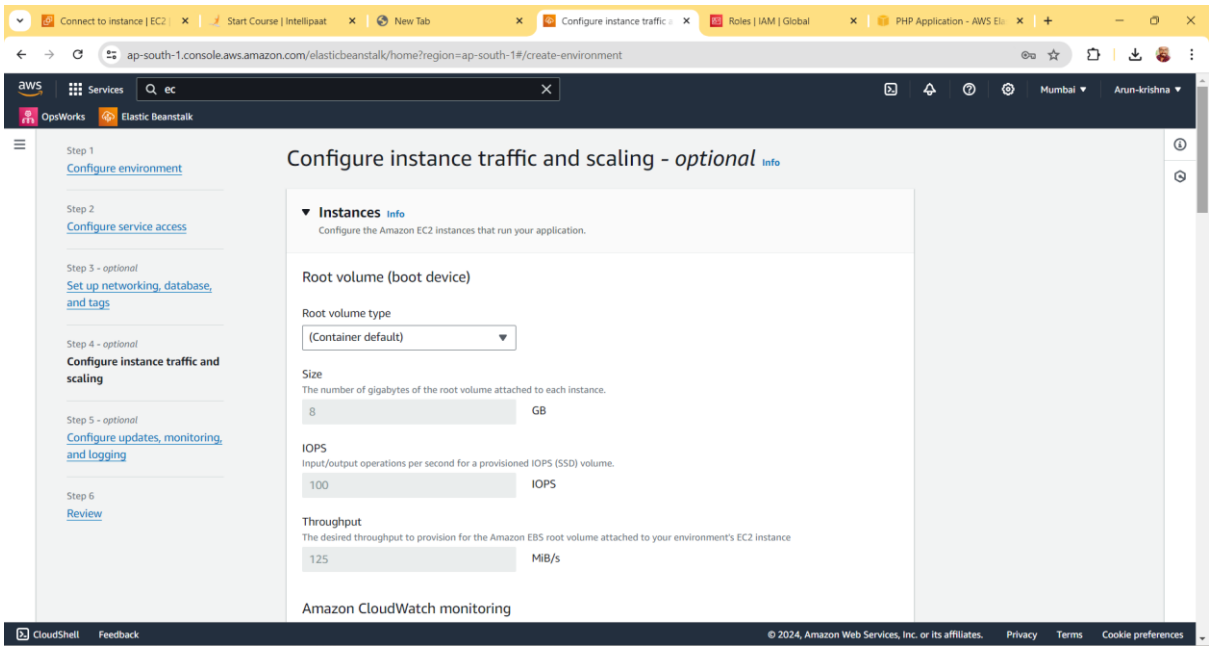

Connect to instance | EC2
Start Course | Intellipaat
New Tab
Configure environment | E
Roles | IAM | Global
PHP Application - AWS El
ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment
aws
Services
ec
Mumbai
Arun-krishna
OpsWorks
Elastic Beanstalk
Managed platform
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 8.1 running on 64bit Amazon Linux 2023
Platform version
4.2.0 (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
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

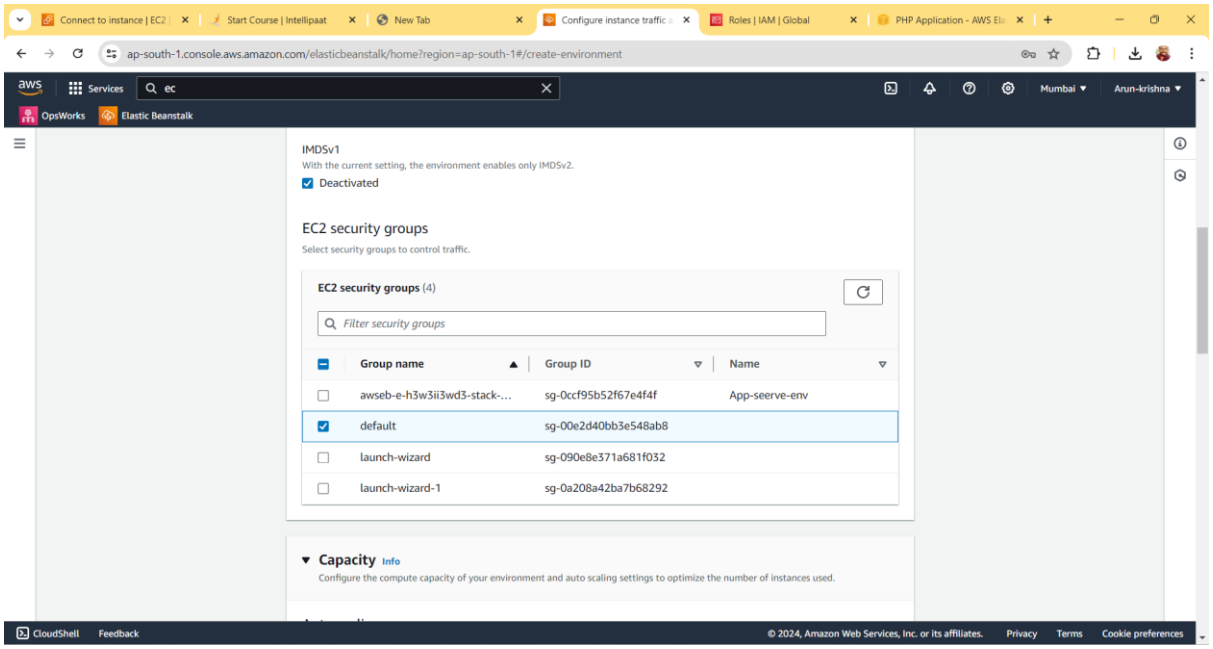

Connect to instance | EC2
Start Course | Intellipaat
New Tab
Configure environment | E
Roles | IAM | Global
PHP Application - AWS El
ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment
aws
Services
ec
Mumbai
Arun-krishna
OpsWorks
Elastic Beanstalk
Application 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
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

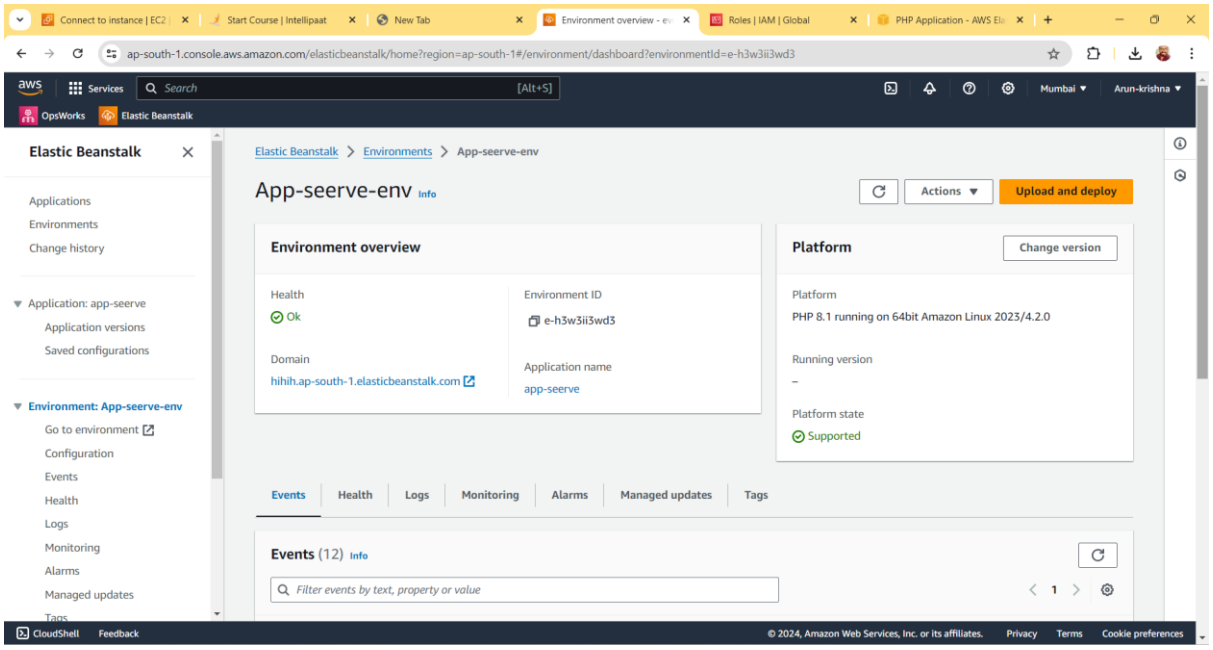

Connect to instance | EC2
Start Course | Intellipaat
New Tab
Configure service access
Roles | IAM | Global
PHP Application - AWS
ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment
Services
ec
Mumbai
Arun-krishna
OpsWorks
Elastic Beanstalk
Step 2
Configure service 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
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. Learn more
Service role
Create and use new service role
Use an existing service role
Existing service roles
Choose an existing IAM role for Elastic Beanstalk to assume as a service role. The existing IAM role must have the required IAM managed policies.
aws-elasticbeanstalk-service-role
EC2 key pair
Select an EC2 key pair to securely log in to your EC2 instances. Learn more
Choose a key pair
EC2 instance profile
Choose an IAM instance profile with managed policies that allow your EC2 instances to perform required operations.
testi
View permission details
Cancel
Skip to review
Previous
Next
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

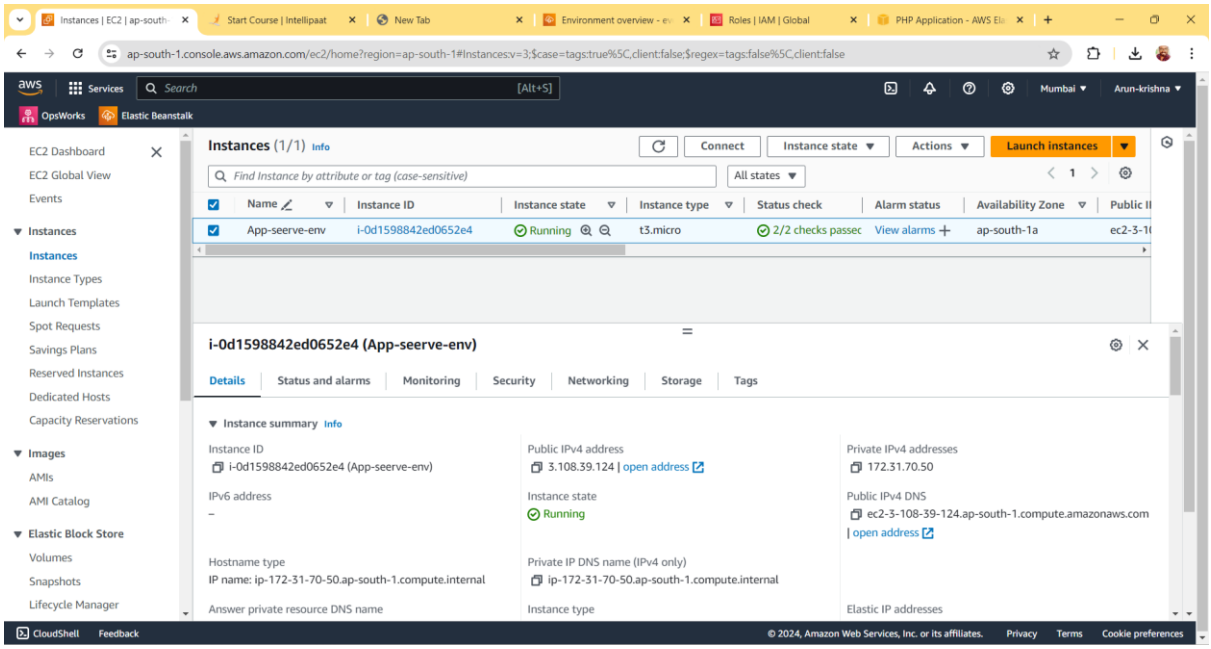

Connect to instance | EC2
Start Course | Intellipaat
New Tab
Set up networking, databa
Roles | IAM | Global
PHP Application - AWS
ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment
Services
ec
Mumbai
Arun-krishna
OpsWorks
Elastic Beanstalk
Step 1
Configure environment
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
Set up networking, database, and tags - optional Info
Virtual Private Cloud (VPC)
VPC
Launch your environment in a custom VPC instead of the default VPC. You can create a VPC and subnets in the VPC management console. Learn more
vpc-008225150bdd8413b | (172.31.0.0/16)
Create custom VPC
Instance settings
Choose a subnet in each AZ for the instances that run your application. To avoid exposing your instances to the Internet, run your instances in private subnets and load balancer in public subnets. To run your load balancer and instances in the same public subnets, assign public IP addresses to the instances. Learn more
Public IP address
Assign a public IP address to the Amazon EC2 instances in your environment.
Activated
Instance subnets
Filter instance subnets
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

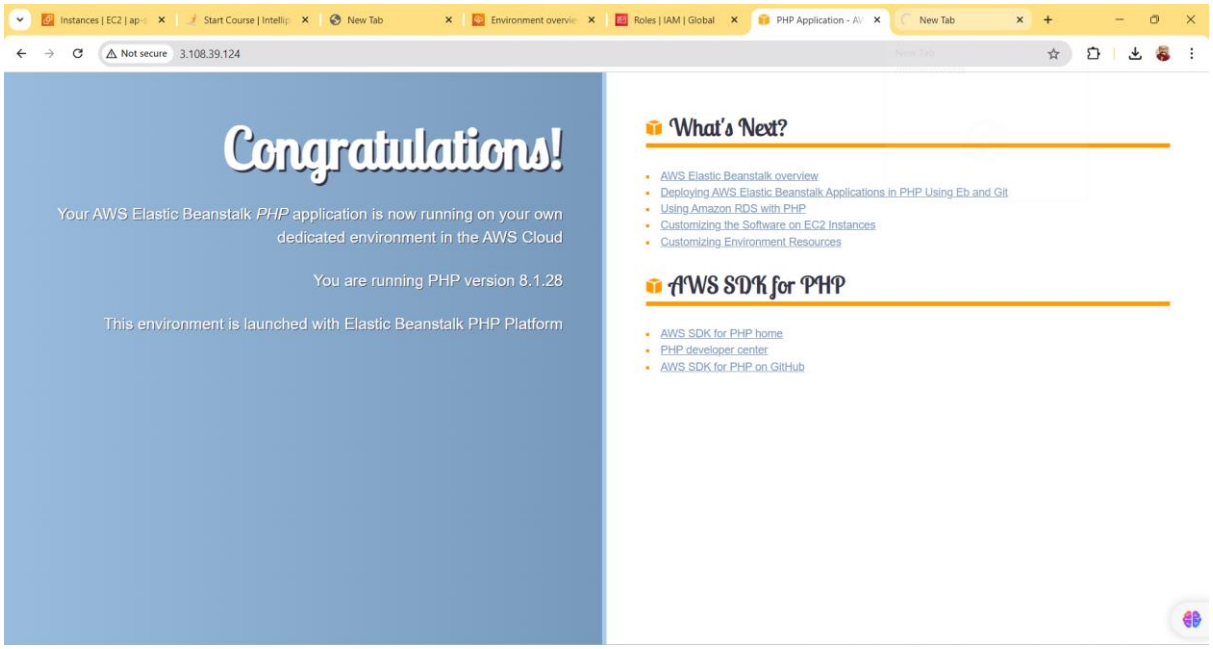

Connect to instance | EC2
Start Course | Intellipaat
New Tab
Set up networking, databa
Roles | IAM | Global
PHP Application - AWS El
ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment
aws
Services
ec
Mumbai
Arun-krishna
OpsWorks
Elastic Beanstalk
Instance subnets
Filter instance subnets
Availability Zone
Subnet
CIDR
Name
ap-south-1a
subnet-03d08e6f4...
172.31.64.0/20
default-vooo
ap-south-1c
subnet-056204da3...
172.31.16.0/20
ap-south-1a
subnet-0a305ff8e...
172.31.32.0/20
ap-south-1b
subnet-0aa047c9ff...
172.31.0.0/20
Database Info
Integrate an RDS SQL database with your environment. Learn more
Database subnets
If your Elastic Beanstalk environment is attached to an Amazon RDS, choose subnets for your database instances. Learn more
Choose database subnets (4)
Filter database subnets
Availability Zone
Subnet
CIDR
Name
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Connect to instance | EC2
Start Course | Intellipaat
New Tab
Configure instance traffic
Roles | IAM | Global
PHP Application - AWS El
ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment
aws
Services
ec
Mumbai
Arun-krishna
OpsWorks
Elastic Beanstalk
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 instance traffic and scaling - optional Info
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
Amazon CloudWatch monitoring
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Connect to instance | EC2
Start Course | Intellipaat
New Tab
Configure instance traffic
Roles | IAM | Global
PHP Application - AWS
ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment
Services
ec
Mumbai
Arun-krishna
OpsWorks
Elastic Beanstalk
IMDSv1
With the current setting, the environment enables only IMDSv2.
Deactivated
EC2 security groups
Select security groups to control traffic.
EC2 security groups (4)
Filter security groups
Group name
Group ID
Name
awseb-e-h3w3ii3wd3-stack-...
sg-0ccf95b52f67e4f4f
App-seerve-env
default
sg-00e2d40bb3e548ab8
launch-wizard
sg-090e8e371a681f032
launch-wizard-1
sg-0a208a42ba7b68292
Capacity
Info
Configure the compute capacity of your environment and auto scaling settings to optimize the number of instances used.
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Connect to instance | EC2
Start Course | Intellipaat
New Tab
Environment overview
Roles | IAM | Global
PHP Application - AWS
ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/environment/dashboard?environmentId=e-h3w3ii3wd3
Services
Search
[Alt+S]
Mumbai
Arun-krishna
OpsWorks
Elastic Beanstalk
Elastic Beanstalk
Applications
Environments
Change history
Application: app-seerve
Application versions
Saved configurations
Environment: App-seerve-env
Go to environment
Configuration
Events
Health
Logs
Monitoring
Alarms
Managed updates
Tags
Elastic Beanstalk > Environments > App-seerve-env
App-seerve-env
Info
Actions
Upload and deploy
Environment overview
Health
Ok
Environment ID
e-h3w3ii3wd3
Domain
hihih.ap-south-1.elasticbeanstalk.com
Application name
app-seerve
Platform
Change version
Platform
PHP 8.1 running on 64bit Amazon Linux 2023/4.2.0
Running version
-
Platform state
Supported
Events
Health
Logs
Monitoring
Alarms
Managed updates
Tags
Events (12)
Info
Filter events by text, property or value
1
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Instances | EC2 | ap-south-
Start Course | Intellipaat
New Tab
Environment overview - e
Roles | IAM | Global
PHP Application - AWS El
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false
aws
Services
Search
[Alt+S]
Mumbai
Arun-krishna
OpsWorks
Elastic Beanstalk
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public II
App-seerve-env
i-0d1598842ed0652e4
Running
t3.micro
2/2 checks passec
View alarms
ap-south-1a
ec2-3-1
i-0d1598842ed0652e4 (App-seerve-env)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-0d1598842ed0652e4 (App-seerve-env)
Public IPv4 address
3.108.39.124 | open address
Private IPv4 addresses
172.31.70.50
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-3-108-39-124.ap-south-1.compute.amazonaws.com | open address
Hostname type
IP name: ip-172-31-70-50.ap-south-1.compute.internal
Private IP DNS name (IPv4 only)
ip-172-31-70-50.ap-south-1.compute.internal
Answer private resource DNS name
Instance type
Elastic IP addresses
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Not secure
3.108.39.124
Congratulations!
Your AWS Elastic Beanstalk PHP application is now running on your own dedicated environment in the AWS Cloud
You are running PHP version 8.1.28
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

Upload a simple PHP file to the environment