

**SVKM'S NMIM'S Nilkamal School of Mathematics, Applied Statistics & Analytics**

**Master of Science (Data Science)**

**Practical-2 Platform as a service using AWS.**

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**Writeup:-**

## **PLATFORM AS A SERVICE**

Platform as a Service (PaaS) is a complete cloud environment that includes everything developers need to build, run, and manage applications—from servers and operating systems to all the networking, storage, middleware, tools, and more. How does PaaS work? Unlike IaaS or SaaS service models, PaaS solutions are specific to application and software development and typically include: Cloud infrastructure: Data centers, storage, network equipment, and servers Middleware software: Operating systems, frameworks, development kits (SDK), libraries, and more User interface: A graphical user interface (GUI), a command line interface (CLI), an API interface, and in some cases, all three

Benefits of PaaS

- Faster time to market
- Low maintenance
- Easy scalability
- Flexible access
- Cost-effective pricing

## **ELASTIC BEANSTALK**

Elastic Beanstalk is a service for deploying and scaling web applications and services. Upload your code and Elastic Beanstalk automatically handles the deployment—from capacity provisioning, load balancing, and auto scaling to application health monitoring.

**Use cases**

### **Quickly launch web applications**

Deploy scalable web applications in minutes without the complexity of provisioning and managing underlying infrastructure.

### **Create mobile API backends for your applications**

Use your favorite programming language to build mobile API backends, and Elastic Beanstalk will manage patches and updates.

## **Replatform critical business applications**

Migrate stateful applications off legacy infrastructure to Elastic Beanstalk and connect securely to your private network.

Platforms for Programming Languages Provided By Elastic Beanstalk are

- GO
- Java
- Node.js
- PHP
- Python
- Ruby Platforms for Application Servers Provided by Elastic Beanstalk are
- Tomcat
- Docker

## **COMPONENTS OF BEANSTALK**

AWS Elastic Beanstalk Components

1. Application Handling: Elastic Beanstalk adopts the project code directly, naming the application after the project's home directory.
2. Application Environments: Supports multiple environments (e.g., DEV, UAT, PROD) for running applications at different stages.
3. Automated Health Checks: AWS conducts automatic health checks on Elastic Beanstalk applications, monitoring EC2 deployments.
4. Health status indicators: Red (failure), Yellow (partial failure), Grey (updating), Green (success), Isolated (environments and applications are isolated).
5. Scalability and Load Balancing: Utilizes Auto-Scaling for dynamic application scalability. Elastic Load Balancer (ELB) balances web request loads across application instances.
6. Language Support: Supports Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker applications on familiar servers.
7. Pricing: No additional charges for Elastic Beanstalk; users pay for services and resources provisioned by the service.
8. Automatic Provisioning: Relieves users from selecting services and configuring security groups; handles automatic provisioning.
9. Scalability Assurance: Leverages Auto Scaling, theoretically capable of handling any amount of internet traffic, as claimed by AWS

IAM Identity and access management (IAM) is a framework of business processes, policies and technologies that facilitates the management of electronic or digital identities. With an IAM framework in place, information technology (IT) managers can control user access to critical information within their organizations. Systems used for IAM include single sign-on systems, two-factor authentication, multifactor authentication and privileged access management. IAM systems can be deployed on premises, provided by a third-party vendor through a cloudbased subscription model or deployed in a hybrid model. On a fundamental level, IAM encompasses the following components:

how individuals are identified in a system (understand the difference between identity management and authentication);

how roles are identified in a system and how they are assigned to individuals;

adding, removing and updating individuals and their roles in a system; assigning levels of access to individuals or groups of individuals;

and protecting the sensitive data within the system and securing the system itself.

### **IAM Features: Brief Overview**

- Shared Access: Facilitates easy resource sharing among project teams.
- Cost-Free Access: IAM feature is free; charges incurred only when accessing other AWS services using IAM users.
- Centralized Control: Provides centralized control over user and group creation, management, and data access within the AWS account.
- Permission Granting: Root account, with administrative rights, grants specific permissions to IAM users for accessing services.
- Multifactor Authentication: Enhances account security with a third-party six-digit code, required along with the password for account logins
- Implement paas using elastic beanstalk for the following.

1. Server
2. Java
3. Python
4. Node.js Beanstalk

IAM (Identity Access Management)- Roles can be assigned with this

## Creating an application

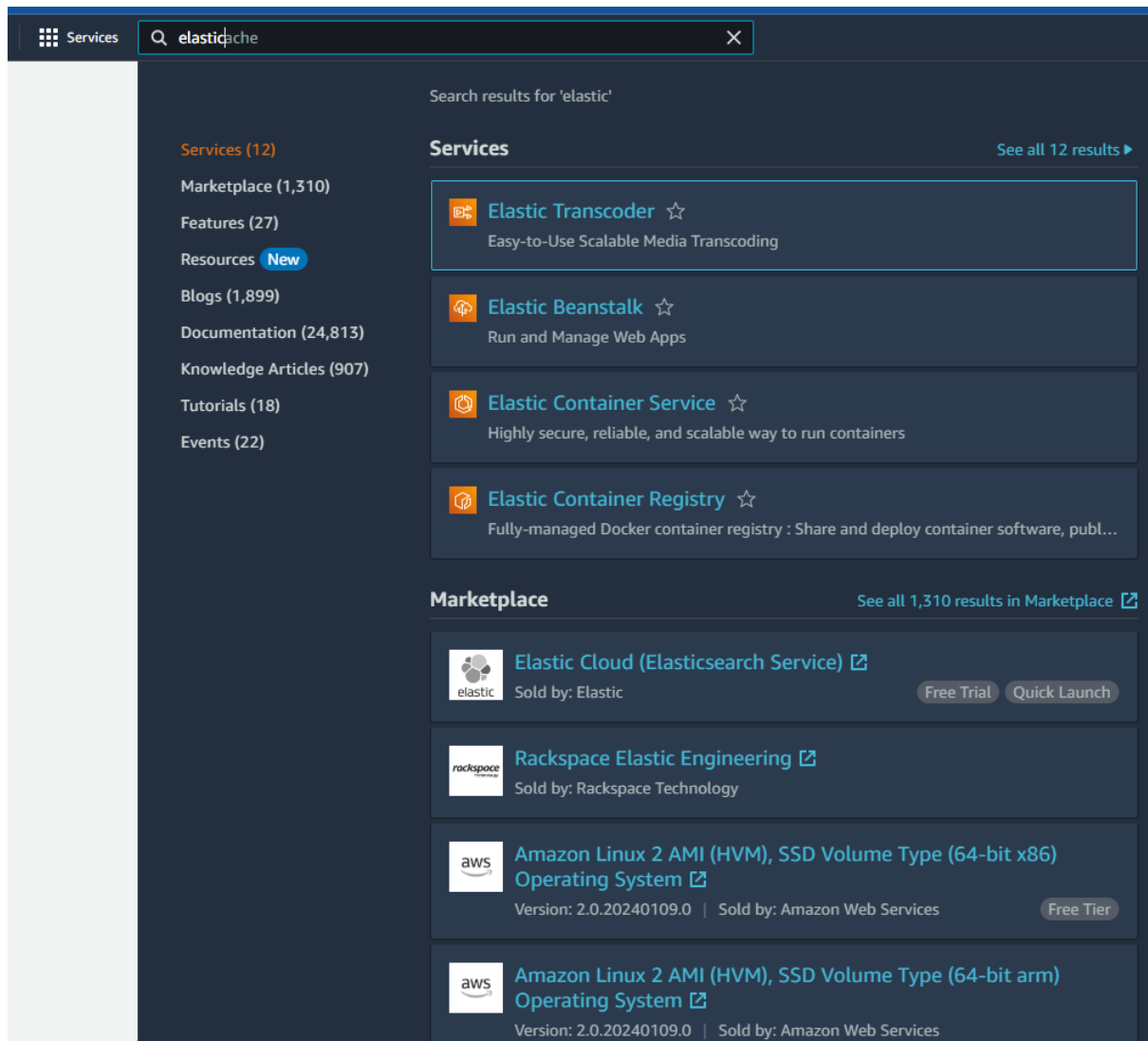
### Q1: CREATE VIEW

In Elastic Beanstalk

- EXECUTING APPLICATIONS
- UPLOADING APPLICATIONS

PAAS

### STEPS SCREENSHOTS



## Get started

Easily deploy your web application in minutes.

Create application

### Application information [Info](#)

Application name

Purva

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.

Environment name

Purva-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

Leave blank for autogenerated value

.eu-north-1.elasticbeanstalk.com

Check availability

Environment description

This is a app which will execute a java code

## 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

Java



### Platform branch

Corretto 21 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.

### Version label

Unique name for this version of your application code.

Version label

Source code origin. Maximum size 500 MB

☐ Local file


☒ Public S3 URL

`https://s3.us-east-1.amazonaws.com`

## 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

Java

### Platform branch

Corretto 21 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.

## Creating a role for an application.

Search results for 'iam'

Services (11)

Features (21)

Resources **New**


Documentation (49,070)

Knowledge Articles (545)


Marketplace (745)

Blogs (1,739)

Services [See all 11 results ▶](#)

 **IAM** ☆

Manage access to AWS resources

 **IAM Identity Center** ☆

Manage workforce user access to multiple AWS accounts and cloud applications

▼ Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Create role

- ☒ AWS service  
Allow AWS services like EC2, Lambda, or others to perform actions in this account.

Commonly used services

EC2

Service or use case

EC2

Choose a use case for the specified service.

Use case

- ☒ EC2  
Allows EC2 instances to call AWS services on your behalf.

Click next



<input type="text" value="beanstalk"/>		Filter by Type All types	14 matches
<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	<a href="#">AdministratorAccess-AWSElasticBeanstalk</a>	AWS managed	Grants account administrative permis...
<input type="checkbox"/>	<a href="#">AWSElasticBeanstalkCustomPlatformforEC2Role</a>	AWS managed	Provide the instance in your custom pl...
<input type="checkbox"/>	<a href="#">AWSElasticBeanstalkEnhancedHealth</a>	AWS managed	AWS Elastic Beanstalk Service policy f...
<input type="checkbox"/>	<a href="#">AWSElasticBeanstalkManagedUpdatesCustomerRolePolicy</a>	AWS managed	This policy is for the AWS Elastic Bean...
<input checked="" type="checkbox"/>	<a href="#">AWSElasticBeanstalkMulticontainerDocker</a>	AWS managed	Provide the instances in your multicon...
<input type="checkbox"/>	<a href="#">AWSElasticBeanstalkReadOnly</a>	AWS managed	Grants read-only permissions. Explicitl...
<input type="checkbox"/>	<a href="#">AWSElasticBeanstalkRoleCore</a>	AWS managed	AWSElasticBeanstalkRoleCore (Elastic ...
<input type="checkbox"/>	<a href="#">AWSElasticBeanstalkRoleCWL</a>	AWS managed	(Elastic Beanstalk operations role) Allo...
<input type="checkbox"/>	<a href="#">AWSElasticBeanstalkRoleECS</a>	AWS managed	(Elastic Beanstalk operations role) Allo...
<input type="checkbox"/>	<a href="#">AWSElasticBeanstalkRoleRDS</a>	AWS managed	(Elastic Beanstalk operations role) Allo...
<input type="checkbox"/>	<a href="#">AWSElasticBeanstalkRoleSNS</a>	AWS managed	(Elastic Beanstalk operations role) Allo...
<input type="checkbox"/>	<a href="#">AWSElasticBeanstalkRoleWorkerTier</a>	AWS managed	(Elastic Beanstalk operations role) Allo...
<input checked="" type="checkbox"/>	<a href="#">AWSElasticBeanstalkWebTier</a>	AWS managed	Provide the instances in your web serv...
<input checked="" type="checkbox"/>	<a href="#">AWSElasticBeanstalkWorkerTier</a>	AWS managed	Provide the instances in your worker e...

Worker tier-applications that you run

Multicontainer -webserver

Click next

## Role details

### Role name

Enter a meaningful name to identify this role.

Maximum 64 characters. Use alphanumeric and '+=,.,@-\_' characters.

### Description

Add a short explanation for this role.

Maximum 1000 characters. Use alphanumeric and '+=,.,@-\_' characters.

Role Mywebaprole created.

View role

IAM > Roles

Roles (3) Info

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

< 1 > ⚙

<input type="checkbox"/>	Role name	Trusted entities	Last activity
<input type="checkbox"/>	<a href="#">AWSServiceRoleForSupport</a>	AWS Service: support (Service-Linker)	-
<input type="checkbox"/>	<a href="#">AWSServiceRoleForTrustedAdvisor</a>	AWS Service: trustedadvisor (Service-Linker)	-
<input type="checkbox"/>	<a href="#">Mywebaprole</a>	AWS Service: ec2	-

Roles Anywhere Info

Authenticate your non AWS workloads and securely provide access to AWS services.

Manage

**Access AWS from your non AWS workloads**  
Operate your non AWS workloads using the same authentication and authorization strategy that you use within AWS.

**X.509 Standard**  
Use your own existing PKI infrastructure or use [AWS Certificate Manager Private Certificate Authority](#) to authenticate identities.

**Temporary credentials**  
Use temporary credentials with ease and benefit from the enhanced security they provide.

[Go to the previous window](#)

Refresh the instance profile cyclic button


### EC2 instance profile

Choose an IAM instance profile with managed policies that allow your EC2 instances to perform required operations.

Mywebaprole

View permission details

## 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

### 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.

[View permission details](#)

### EC2 key pair

Select an EC2 key pair to securely log in to your EC2 instances. [Learn more](#) 



### EC2 instance profile

Choose an IAM instance profile with managed policies that allow your EC2 instances to perform required operations.



[View permission details](#)

---

Click next

## 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-0ede570da8526f7b5 | (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

	Availability Zone	Subnet	CIDR	Name
<input type="checkbox"/>	eu-north-1b	subnet-01570739f...	172.31.32.0/20	
<input type="checkbox"/>	eu-north-1a	subnet-05547b7c4...	172.31.16.0/20	
<input checked="" type="checkbox"/>	eu-north-1c	subnet-0aa0df663...	172.31.0.0/20	

Three times next

Click next next next

At last will get this window

## Review [Info](#)

**Step 1: Configure environment**

Edit

### Environment information

Environment tier	Application name
Web server environment	Purva
Environment name	Application code
Purva-env	Sample application
Platform	
arn:aws:elasticbeanstalk:eu-north-1::platform/Corretto 21 running on 64bit Amazon Linux 2023/4.2.0	

**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::533267007968:role/ser vice-role/aws-elasticbeanstalk- service-role	Mywebapprole

**Step 3: Set up networking, database, and tags**

Edit

### Networking, database, and tags [Info](#)

Click submit

Go to EC2 and check if running

Click on domain url in environment overview

Elastic Beanstalk is launching your environment. This will take a few minutes.

Elastic Beanstalk > Environments > Purva-env

Purva-env

Info

Environment overview

Health

Unknown

Domain

-

Environment ID

e-2fntpmtyp

Application name

Purva

Platform

Change version

Platform

Corretto 21 running on 64bit Amazon Linux 2023/4.2.0

Running version

-

Platform state

Supported

Events

Health

Logs

Monitoring

Alarms

Managed updates

Tags

Events (2)

Info

Filter events by text, property or value

< 1 >

Time

Type

Details

February 1, 2024 08:24:42 (UTC+5:30)

INFO

Using elasticbeanstalk-eu-north-1-533267007968 as Amazon S3 storage bucket for environment data.

February 1, 2024 08:24:41 (UTC+5:30)

INFO

createEnvironment is starting.

Instances (1)

Info

Find Instance by attribute or tag (case-sensitive)

Any state

Instance state = running

Clear filters

Name

Instance ID

Instance state

Instance type

Status check

Purva-env

i-08bd7710525c73f6d

Running

t3.micro

2/2 checks passed

Should get this message

Environment overview

Health

Ok

Domain

Purva-env.eba-26383stz.eu-north-1.elasticbeanstalk.com

Congratulations

AWS Elastic Beanstalk Corretto application is now running on your own dedicated environment in the AWS Cloud

This environment is launched with Elastic Beanstalk Corretto Platform

What's Next?

AWS Elastic Beanstalk overview

AWS Elastic Beanstalk concepts

## Creating TOMCAT server

Q NO2

Configure an elastic beanstalk in AWS

GO TO ELASTIC BEANSTALK HOME PAGE

GET started page

Create application

[Elastic Beanstalk](#) > Applications

Applications (1) [Info](#)

[Refresh](#) [Actions](#) [Create application](#)

< 1 > [Reset](#)

	Application name	▲	Environments	Date created	▼	Last modified	▼	ARN	▼
<input type="radio"/>	<a href="#">Purva</a>		<a href="#">Purva-env</a>	February 1, 2024 07:58:47 (UTC+5:30)		February 1, 2024 07:58:47 (UTC+5:30)		arn:aws...	

### Application information

Application name

Maximum length of 100 characters.

Description

Elastic Beanstalk > Applications > purvatomcat

Application purvatomcat environments (0) [Info](#)

< 1 > ⚙

Environment name	Health	Date created	Domain	Running versions	Platform	Platform state
No environments						
No environments currently exist for this application.						
<a href="#">Create environment</a>						

## 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

purvatomcat

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.

### Environment name

Purvatomcat-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

Leave blank for autogenerated value

.eu-north-1.elasticbeanstalk.com

[Check availability](#)

### Environment description

This is an app which will execute tomcat

From the web download calendar.war file from github

<https://github.com/manulachathurika/Apache-Stratos-Tomcat-Applications/blob/master/Calendar.war>



Select local file from option and choose file from your device

Platform

Tomcat

Platform branch

Tomcat 10 with Corretto 17 running on 64bit Amazon Linux 2023

Platform version

5.1.3 (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.

Version label


Unique name for this version of your application code.

version1

Source code origin. Maximum size 500 MB

☒ Local file

Upload application





 Choose file

File must be less than 500MB max file size











☐ Public S3 URL

---

▼ Today (3)

-  Calendar (1).war
-  Dataset .csv
-  CC-pract-2 23 jan (1).docx
-  WAR File  
Size: 529 KB  
File modified: 01-02-2024 08:55:AM

▼ Earlier this week (10)

-  Salita\_python prac.ipynb
-  Cloud Computing Practical Index (1).docx
-  Cloud Computing Practical Index.docx
-  Practical-2 Platform as a service using AWS. (2)...
-  Practical-2 Platform as a service using AWS.pdf
-  CC- Practical 2.docx
-  image.png
-  Calendar.war
-  aws lab.pdf
-  .ipynb\_checkpoints

▼ Last week (10)

-  DOC-20240126-WA0005..pdf
-  Playfair Data, Rounded Gantt Charts.xlsx
-  Gantt chart (1).docx
-  Python practical 24-01 (1).ipynb

## Identity and Access Management (IAM)



 Search IAM

### Dashboard

▼ Access management

User groups

Users

**Roles**

Policies

Identity providers

Account settings

## Create role

### Select trusted entity [Info](#)

#### 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

Choose a use case for the specified service.

##### Use case































☒ **EC2**

Allows EC2 instances to call AWS services on your behalf.

In permissions select same 3 things

## Permissions policies (3/909) [Info](#)

Choose one or more policies to attach to your new role.

	Policy name 
<input type="checkbox"/>	  <a href="#">AdministratorAccess-AWSElasticBeanstalk</a>
<input type="checkbox"/>	  <a href="#">AWSElasticBeanstalkCustomPlatformforEC2Role</a>
<input type="checkbox"/>	  <a href="#">AWSElasticBeanstalkEnhancedHealth</a>
<input type="checkbox"/>	  <a href="#">AWSElasticBeanstalkManagedUpdatesCustomerRolePolicy</a>
<input checked="" type="checkbox"/>	  <a href="#">AWSElasticBeanstalkMulticontainerDocker</a>
<input type="checkbox"/>	  <a href="#">AWSElasticBeanstalkReadOnly</a>
<input type="checkbox"/>	  <a href="#">AWSElasticBeanstalkRoleCore</a>
<input type="checkbox"/>	  <a href="#">AWSElasticBeanstalkRoleCWL</a>
<input type="checkbox"/>	  <a href="#">AWSElasticBeanstalkRoleECS</a>
<input type="checkbox"/>	  <a href="#">AWSElasticBeanstalkRoleRDS</a>
<input type="checkbox"/>	  <a href="#">AWSElasticBeanstalkRoleSNS</a>
<input type="checkbox"/>	  <a href="#">AWSElasticBeanstalkRoleWorkerTier</a>
<input checked="" type="checkbox"/>	  <a href="#">AWSElasticBeanstalkWebTier</a>
<input checked="" type="checkbox"/>	  <a href="#">AWSElasticBeanstalkWorkerTier</a>

Give role name

## Role details

### Role name

Enter a meaningful name to identify this role.

tomcatrole

Maximum 64 characters. Use alphanumeric and '+=, @-\_' characters.

### 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.

tomcatrole



[View permission details](#)

In virtual private cloud select

## 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-0ede570da8526f7b5 | (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

	Availability Zone	Subnet	CIDR	Name
<input type="checkbox"/>	eu-north-1b	subnet-01570739f...	172.31.32.0/20	
<input type="checkbox"/>	eu-north-1a	subnet-05547b7c4...	172.31.16.0/20	
<input checked="" type="checkbox"/>	eu-north-1c	subnet-0aa0df663...	172.31.0.0/20	

Elastic Beanstalk is launching your environment. This will take a few minutes.

[Elastic Beanstalk](#) > [Environments](#) > Tomcat-env

## Tomcat-env [Info](#)

### Environment overview

#### Health

Unknown

#### Domain

-

#### Environment ID

e-2pssdihbqc

#### Application name

Tomcat

### Platform

#### Platform

Tomcat 10 with

#### Running version

-

#### Events

#### Health

#### Logs

#### Monitoring

#### Alarms

#### Managed updates

#### Tags

### Events (2) [Info](#)

Filter events by text, property or value

Time	Type	Details
February 1, 2024 09:04:51 (UTC+5:30)	INFO	Using elasticbeanstalk-eu-north-1-796329916611 as Amazon S3 storage bucket
February 1, 2024 09:04:50 (UTC+5:30)	INFO	createEnvironment is starting.

✔ Environment successfully launched.

[Elastic Beanstalk](#) > [Environments](#) > Tomcat-env

## Tomcat-env [Info](#)

### Environment overview

Health

✔ Ok

Domain

[Tomcat-env.eba-umhqw6v3.eu-north-1.elasticbeanstalk.com](#)



Environment ID

 e-2pssdihbqc

Application name

[Tomcat](#)

# Review [Info](#)

## Step 1: Configure environment

[Edit](#)

### Environment information

Environment tier	Application name
Web server environment	purvatomcat
Environment name	Application code
Purvatomcat-env	Calendar (1).war
Platform	
arn:aws:elasticbeanstalk:eu-north-1::platform/Tomcat 10 with Corretto 17 running on 64bit Amazon Linux 2023/5.1.3	

## 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::533267007968:role/ser vice-role/aws-elasticbeanstalk- service-role	tomcatrole

## Step 3: Set up networking, database, and tags

[Edit](#)



## GWT Calendar

Click on day to get date popup. Example Datepicker. Built with the tomcat war builder.  
<http://code.google.com/p/gwt-examples/>

< February >				< 2024 >		
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29		