

The screenshot shows the Amazon Elastic Beanstalk landing page. At the top, there's a navigation bar with links to various services like Apple, iCloud, Google, Facebook, Twitter, LinkedIn, The Weather Channel, NDTV, PT registration, and CodeGPT. Below the navigation is a search bar and user information for 'N. Virginia' and 'ShailAdmin'. The main content area has a dark header 'Compute' and a large title 'Amazon Elastic Beanstalk' with the subtitle 'End-to-end web application management.' A call-to-action button 'Create application' is visible. To the right, there are sections for 'Get started' (with a note about deployment and scaling), 'Pricing' (mentioning no additional charge), and 'Benefits and features' (listing 'Easy to get started' and 'Complete resource control'). At the bottom, there's a footer with links for 'Display a menu', 'Feedback', '© 2024, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'.

Click on Create applications

The screenshot shows the 'Configure environment' step in the AWS Elastic Beanstalk setup wizard. On the left, a sidebar lists steps: 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), and Step 6 (Review). The main content area has three sections: 'Environment tier' (Web server environment selected), 'Application information' (Application name: 'My first application'), and 'Environment information' (Environment name: 'Myfirstapplication-env'). Each section includes a 'Info' link and descriptive text. The footer at the bottom includes 'Display a menu', 'Feedback', '© 2024, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'.

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Domain .us-east-1.elasticbeanstalk.com Check availability

Environment description

.NET Core on Linux
.NET on Windows Server

Docker
Go
Java
Node.js
PHP
Python Python
Ruby
Tomcat
Choose a platform

Platform branch Choose a platform branch

Platform version Choose a platform version

Application code Info

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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 Python

Platform branch Python 3.11 running on 64bit Amazon Linux 2023

Platform version 4.1.4 (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.

The screenshot shows the AWS Elastic Beanstalk console with the 'Configure environment' step selected. The 'Application code' section has 'Sample application' selected. In the 'Presets' section, 'Single instance (free tier eligible)' is selected. At the bottom right, there are 'Cancel' and 'Next' buttons.

Click on Next.

The screenshot shows the AWS Elastic Beanstalk console with the 'Configure service access' step selected. The 'Service access' section has 'Create and use new service role' selected. The 'EC2 key pair' section has 'gk-macbook' selected. The 'EC2 instance profile' section has 'S3_Bucket_full_role' selected. At the bottom right, there are 'Cancel', 'Skip to review', 'Previous', and 'Next' buttons.

Use can also use existing service role. Create a role.

The screenshot shows the 'Create role' wizard in the AWS IAM console. The current step is 'Step 1: Select trusted entity'. On the left, there's a navigation sidebar with three steps: 'Select trusted entity' (highlighted), 'Add permissions', and 'Name, review, and create'. The main content area is titled 'Select trusted entity' with a sub-section 'Trusted entity type'. It lists five options: 'AWS service' (selected), 'AWS account', 'Web identity', 'SAML 2.0 federation', and 'Custom trust policy'. Below this is a 'Use case' section with a dropdown set to 'EC2' and a note about allowing EC2 to perform actions. At the bottom, there's a 'Service or use case' dropdown set to 'EC2' and a 'Choose a use case for the specified service' section with 'EC2' selected. The footer includes links for 'Display a menu', 'Feedback', and copyright information.

The screenshot shows the 'Create role' wizard in the AWS IAM console, specifically Step 3: 'Name, review, and create'. The left sidebar shows 'Step 3' and 'Name, review, and create'. The main area displays a list of AWS managed policies filtered by 'AWSELasticBeanstalk'. The list includes several policies, with three checked: 'AWSELasticBeanstalkMulticontainerDocker', 'AWSELasticBeanstalkWebTier', and 'AWSELasticBeanstalkWorkerTier'. Above the list is a search bar with 'AWSELasticBeanstalk' and a 'Filter by Type' dropdown set to 'All types'. A note at the bottom says 'Set permissions boundary - optional'. The footer includes links for 'Display a menu', 'Feedback', and copyright information.

aws Services Search [Option+S] Global ShallAdmin

Step 3 Name, review, and create

Filter by Type: All types 14 matches

| Policy name | Type | Description |
|---|-------------|---|
| AdministratorAccess-AWSElasticBeanstalk | AWS managed | Grants account-wide permissions |
| AWSElasticBeanstalkCustomPlatformforEC2Role | AWS managed | Provide the AWS Lambda permission to invoke the AWS Lambda function |
| AWSElasticBeanstalkEnhancedHealth | AWS managed | AWS Elastic Beanstalk Enhanced Health |
| AWSElasticBeanstalkManagedUpdatesCustomerRolePolicy | AWS managed | This policy is used for managed updates |
| AWSElasticBeanstalkMulticontainerDocker | AWS managed | Provide the AWS Lambda permission to invoke the AWS Lambda function |
| AWSElasticBeanstalkReadOnly | AWS managed | Grants read-only access to the AWS Lambda function |
| AWSElasticBeanstalkRoleCore | AWS managed | AWSElasticBeanstalkRoleCore |
| AWSElasticBeanstalkRoleCWL | AWS managed | (Elastic Beanstalk CWL) |
| AWSElasticBeanstalkRoleECS | AWS managed | (Elastic Beanstalk ECS) |
| AWSElasticBeanstalkRoleRDS | AWS managed | (Elastic Beanstalk RDS) |
| AWSElasticBeanstalkRoleSNS | AWS managed | (Elastic Beanstalk SNS) |
| AWSElasticBeanstalkRoleWorkerTier | AWS managed | (Elastic Beanstalk Worker Tier) |
| AWSElasticBeanstalkWebTier | AWS managed | Provide the AWS Lambda permission to invoke the AWS Lambda function |
| AWSElasticBeanstalkWorkerTier | AWS managed | Provide the AWS Lambda permission to invoke the AWS Lambda function |

▶ Set permissions boundary - optional

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Step 2 Add permissions

Step 3 Name, review, and create

Role details

Role name: elasticmyec2_role

Description: Allows EC2 instances to call AWS services on your behalf.

Step 1: Select trusted entities

Trust policy:

```

1- [
2-   "Version": "2012-10-17",
3-   "Statement": [
4-     {
5-       "Effect": "Allow",
6-       "Action": [
7-         "sts:AssumeRole"
8-       ],
9-       "Principal": {
10-         "Service": [
11-           "ec2.amazonaws.com"
12-         ]
13-       }
14-     }
15-   ]
16- ]

```

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Create Role.

The screenshot shows the 'Configure service access' step of the AWS Elastic Beanstalk setup wizard. The left sidebar lists steps from 1 to 6. Step 1 is 'Configure environment', Step 2 is 'Configure service access' (which is selected), Step 3 is 'optional: Set up networking, database, and tags', Step 4 is 'optional: Configure instance traffic and scaling', Step 5 is 'optional: Configure updates, monitoring, and logging', and Step 6 is 'Review'. The main content area is titled 'Configure service access' with an 'Info' link. It contains sections for 'Service access', 'Service role', 'Service role name', 'EC2 key pair', and 'EC2 instance profile'. Under 'Service role', the 'Create and use new service role' option is selected. The 'Service role name' field contains 'aws-elasticbeanstalk-service-role'. Under 'EC2 key pair', a dropdown menu shows 'Choose a key pair' with a placeholder 'Choose a key pair'. Under 'EC2 instance profile', a dropdown menu shows 'elasticmyec2_role' with a placeholder 'Choose an IAM instance profile'. At the bottom are 'Cancel', 'Skip to review', 'Previous', and a large orange 'Next' button. The top navigation bar includes links for Apple, iCloud, Google, Facebook, Twitter, LinkedIn, The Weather Channel, NDTV, PT registration, and CodeGPT, along with region selection for N. Virginia and user information for ShallAdmin.

Create a new role and select EC2 instance profile.

Click on Next

Choose default VPC and subnet settings

This screenshot shows the 'Step 3 - optional' configuration step for setting up a VPC. It includes sections for 'Set up networking, database, and tags', 'Create custom VPC', and 'Instance settings'. Under 'Instance settings', there is a table showing instance subnets across availability zones.

| Availability Zone | Subnet | CIDR |
|-------------------|---------------------|----------------|
| us-east-1f | subnet-00e3b6bab... | 172.31.64.0/20 |
| us-east-1b | subnet-01a8b4c48... | 172.31.80.0/20 |
| us-east-1d | subnet-01ec25771... | 172.31.32.0/20 |
| us-east-1c | subnet-0227a62dc... | 172.31.16.0/20 |
| us-east-1a | subnet-0330084cd... | 172.31.0.0/20 |

Choose Database. I have disabled it.

This screenshot shows the 'Step 3 - optional' configuration step for choosing a database. It includes sections for 'Database info', 'Database subnets', and 'Choose database subnets'. The 'Choose database subnets' section lists subnets across availability zones.

| Availability Zone | Subnet | CIDR |
|-------------------|---------------------|----------------|
| us-east-1f | subnet-00e3b6bab... | 172.31.64.0/20 |
| us-east-1b | subnet-01a8b4c48... | 172.31.80.0/20 |
| us-east-1d | subnet-01ec25771... | 172.31.32.0/20 |
| us-east-1c | subnet-0227a62dc... | 172.31.16.0/20 |
| us-east-1a | subnet-0330084cd... | 172.31.0.0/20 |
| us-east-1e | subnet-07c36d7bb... | 172.31.48.0/20 |

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Password

Availability
Low (one AZ)

Database deletion policy
This policy applies when you decouple a database or terminate the environment coupled to it.

- Create snapshot
Elastic Beanstalk saves a snapshot of the database and then deletes it. You can restore a database from a snapshot when you add a DB to an Elastic Beanstalk environment or when you create a standalone database. You might incur charges for storing database snapshots.
- Retain
The decoupled database will remain available and operational external to Elastic Beanstalk.
- Delete
Elastic Beanstalk terminates the database. The database will no longer be available.

Tags
Apply up to 50 tags. You can use tags to group and filter your resources. A tag is a key-value pair. The key must be unique within the resource and is case-sensitive. [Learn more](#)

No tags associated with the resource.

Add new tag You can add 50 more tags.

Cancel Skip to review Previous Next

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Click on Next. Leave everything Default.

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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

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
The time interval between when metrics are reported from the EC2 instances

Monitoring interval

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Instance metadata service (IMDS)
Your environment's platform supports both IMDSv1 and IMDSv2. To enforce IMDSv2, deactivate IMDSv1. [Learn more](#)

IMDSv1
With the current setting, the environment activates both IMDSv1 and IMDSv2.

Deactivated

EC2 security groups
Select security groups to control traffic.

| EC2 security groups (5) | | | |
|-------------------------------------|---------------|----------------------|------|
| | Group name | Group ID | Name |
| <input checked="" type="checkbox"/> | default | sg-0471e51c0a9421150 | |
| <input type="checkbox"/> | efs-sg-1 | sg-042804a6c7e0daef2 | |
| <input type="checkbox"/> | efs-sg-2 | sg-0099bc365947e1f75 | |
| <input type="checkbox"/> | instance-sg-1 | sg-0b1741180973b8ead | |
| <input type="checkbox"/> | instance-sg-2 | sg-0057bd0e84f4e8122 | |

Capacity [Info](#)
Configure the compute capacity of your environment and auto scaling settings to optimize the number of instances used.

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Click on Next. Leave everything Default.

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 updates, monitoring, and logging - optional [Info](#)

Monitoring [Info](#)

Health reporting
Enhanced health reporting provides free real-time application and operating system monitoring of the instances and other resources in your environment. The EnvironmentHealth custom metric is provided free with enhanced health reporting. Additional charges apply for each custom metric. For more information, see [Amazon CloudWatch Pricing](#).

Basic
 Enhanced

Health event streaming to CloudWatch Logs
Configure Elastic Beanstalk to stream environment health events to CloudWatch Logs. You can set the retention up to a maximum of ten years and configure Elastic Beanstalk to delete the logs when you terminate your environment.

Log streaming
 Activated (standard CloudWatch charges apply.)

Retention
7

Lifecycle
 Keep logs after terminating environment

Managed platform updates [Info](#)
Activate managed platform updates to apply platform updates automatically during a weekly maintenance window that you choose. Your application stays available during the update process.

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Let's go with Basic.

The screenshot shows the AWS Elastic Beanstalk console with the 'Managed platform updates' section selected. It includes fields for activating managed updates, setting a weekly update window (Sunday at 01:20 UTC), specifying an update level (Minor and patch), and enabling instance replacement if no other updates are available. Below this is the 'Email notifications' section, which allows entering an email address for notifications. The 'Rolling updates and deployments' section is also visible.

We don't need managed activities.

The screenshot shows the AWS Elastic Beanstalk console with the 'S3 log storage' section selected. It includes fields for configuring instances to upload rotated logs to Amazon S3, activating log rotation (standard S3 charges apply), and setting up instance log streaming to CloudWatch logs. The 'Log streaming' section includes a retention period of 7 days and a lifecycle rule to keep logs after termination. The 'Environment properties' section lists a single entry for 'PYTHONPATH' with a value of '/var/app/venv/staging-LQM1lest/bin'. Buttons for 'Cancel', 'Previous', and 'Next' are at the bottom.

Let it be Default. Click on Next. Review and create.

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

Elastic Beanstalk > Environments > Myfirstapplication-env

Myfirstapplication-env Info

Environment overview

| | |
|---------|----------------------|
| Health | Environment ID |
| Unknown | e-9kxgix2mtc |
| Domain | Application name |
| - | My first application |

Platform

| | |
|--|----------------|
| Platform | Change version |
| Python 3.11 running on 64bit Amazon Linux 2023/4.1.4 | |
| Running version | - |
| Platform state | Supported |

Events | Health | Logs | Monitoring | Alarms | Managed updates | Tags

Events (2) Info

| Time | Type | Details |
|--|------|--|
| September 20, 2024 19:43:58 (UTC+5:30) | INFO | Using elasticbeanstalk-us-east-1-637423339839 as Amazon S3 storage |

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Environment successfully launched.

Elastic Beanstalk > Environments > Web-server-env

Web-server-env Info

Environment overview

| | |
|--|------------------|
| Health | Environment ID |
| Green | e-chy4sud9en |
| Domain | Application name |
| Web-server-env.eba-dahxie3p.us-east-1.elasticbeanstalk.com | web-server |

Platform

| | |
|--|----------------|
| Platform | Change version |
| Python 3.11 running on 64bit Amazon Linux 2023/4.1.4 | |
| Running version | - |
| Platform state | Supported |

Events | Health | Logs | Monitoring | Alarms | Managed updates | Tags

Events (12) Info

| Time | Type | Details |
|--|------|--|
| September 21, 2024 05:42:22 (UTC+5:30) | INFO | Successfully launched environment: Web-server-env |
| September 21, 2024 05:42:21 (UTC+5:30) | INFO | Application available at Web-server-env.eba-dahxie3p.us-east-1.elasticbeanstalk.com. |

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