

Screenshot of the AWS Management Console showing the VPC Management Console and AWS Management Console side-by-side.

**VPC Management Console:**

- Service Health:** Shows "View complete service health details".
- Settings:** Includes "Zones" and "Console Experiments".
- Additional Information:** Includes "VPC Documentation", "All VPC Resources", "Forums", and "Report an Issue".
- AWS Network Manager:** Describes tools for managing and monitoring network.

**AWS Management Console:**

**Create VPC:**

**VPC settings:**

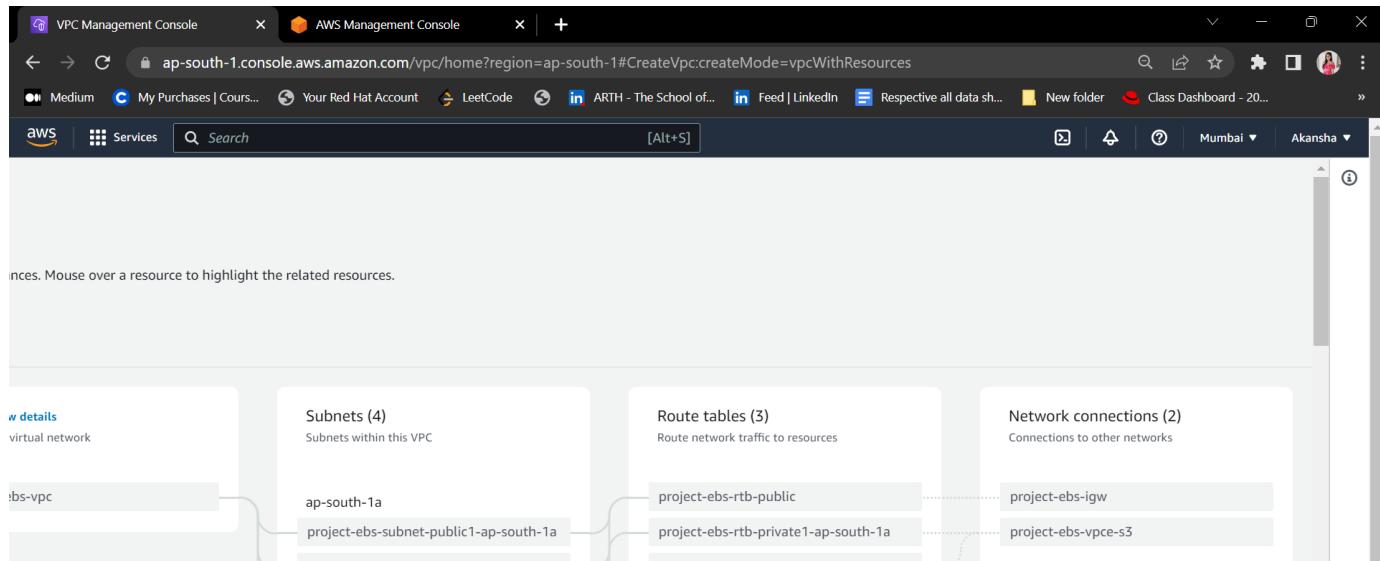
- Resources to create:** [Info](#) Create only the VPC resource or the VPC and other networking resources. Options:  VPC only,  VPC and more (selected).
- Name tag auto-generation:** [Info](#) Enter a value for the Name tag. This value will be used to auto-generate Name tags for all resources in the VPC.  Auto-generate, project-ebs.
- IPv4 CIDR block:** [Info](#) Determine the starting IP and the size of your VPC using CIDR notation. 10.0.0.0/16, 65,536 IPs.

**Preview:**

VPC [Show details](#) Your AWS virtual network  
project-ebs-vpc

Subnets (4) Subnets within this VPC

- ap-south-1a
  - project-ebs-subnet-public1-ap-south-1a
  - project-ebs-subnet-private1-ap-south-1a
- ap-south-1b
  - project-ebs-subnet-public2-ap-south-1b
  - project-ebs-subnet-private2-ap-south-1b



**VPC Management Console**

**Create New VPC**

**Preview**

**IPv6 CIDR block** [Info](#)  
 No IPv6 CIDR block  
 Amazon-provided IPv6 CIDR block

**Tenancy** [Info](#)  
 Default

**Number of Availability Zones (AZs)** [Info](#)  
 Choose the number of AZs in which to provision subnets. We recommend at least two AZs for high availability.  
 1    2    3  
 ▶ Customize AZs

**Number of public subnets** [Info](#)  
 The number of public subnets to add to your VPC. Use public subnets for web applications that need to be publicly accessible over the internet.  
 0    2

**Number of private subnets** [Info](#)  
 The number of private subnets to add to your VPC. Use private subnets to secure backend resources that don't need public access.  
 0    2    4

**VPC** [Show details](#)  
 Your AWS virtual network

**Subnets (4)**  
 Subnets within this VPC

project-ebs-vpc

ap-south-1a  
 project-ebs-subnet-public1-ap-south-1a  
 project-ebs-subnet-private1-ap-south-1a

ap-south-1b  
 project-ebs-subnet-public2-ap-south-1b  
 project-ebs-subnet-private2-ap-south-1b

project-ebs-rtb-public  
 project-ebs-rtb-private1-ap-south-1a  
 project-ebs-rtb-private2-ap-south-1b

project-ebs-igw  
 project-ebs-vpce-s3

VPC Management Console    AWS Management Console

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#CreateVpc:createMode=vpcWithResources

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Services Search [Alt+S]

Number of private subnets [Info](#)  
The number of private subnets to add to your VPC. Use private subnets to secure backend resources that don't need public access.

0 2 4

► Customize subnets CIDR blocks

NAT gateways (\$) [Info](#)  
Choose the number of Availability Zones (AZs) in which to create NAT gateways. Note that there is a charge for each NAT gateway.

None In 1 AZ 1 per AZ

VPC endpoints [Info](#)  
Endpoints can help reduce NAT gateway charges and improve security by accessing S3 directly from the VPC. By default, full access policy is used. You can customize this policy at any time.

None S3 Gateway

DNS options [Info](#)  
 Enable DNS hostnames  
 Enable DNS resolution

► Additional tags

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ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#CreateVpc:createMode=vpcWithResources

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Preview

VPC [Show details](#)  
Your AWS virtual network

project-ebs-vpc

Subnets (4)  
Subnets within this VPC

ap-south-1a  
project-ebs-subnet-public1-ap-south-1a

project-ebs-subnet-private1-ap-south-1a

ap-south-1b  
project-ebs-subnet-public2-ap-south-1b

project-ebs-subnet-private2-ap-south-1b

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ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#CreateVpc:createMode=vpcWithResources

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Preview

VPC [Show details](#)  
Your AWS virtual network

project-ebs-vpc

Subnets (4)  
Subnets within this VPC

ap-south-1a  
project-ebs-subnet-public1-ap-south-1a

project-ebs-subnet-private1-ap-south-1a

ap-south-1b  
project-ebs-subnet-public2-ap-south-1b

project-ebs-subnet-private2-ap-south-1b

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VPC Management Console    AWS Management Console

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#CreateVpcWizard:

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VPC > Your VPCs > Create VPC > Create VPC resources

## Create VPC workflow

Create subnet

29%

Details

- ✓ Create VPC: vpc-0051d56a7e4462e48
- ✓ Enable DNS hostnames
- ✓ Enable DNS resolution
- ✓ Verifying VPC creation: vpc-0051d56a7e4462e48
- ✓ Create S3 endpoint: vpc-ea78260510d75ac04
- ✓ Create subnet: subnet-0b75e367ba9282b62
- >Create subnet
- Create subnet
- Create subnet
- Create internet gateway
- Attach internet gateway to the VPC
- Create route table
- Create route

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Subnets | VPC Management Console AWS Management Console

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#subnets:

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## Subnets (7) Info

Filter subnets

Name	Subnet ID	State	VPC	IPv4 C
project-ebs-subnet-public1-ap-south-1a	subnet-0b75e367ba9282b62	Available	vpc-0051d56a7e4462e48   pr...	10.0.0
project-ebs-subnet-private2-ap-south-1b	subnet-053bc4337aae24761	Available	vpc-0051d56a7e4462e48   pr...	10.0.1
-	subnet-01e6ab0cda351c968	Available	vpc-0f4d2e50a9e7c7805	172.3'
-	subnet-08e6329e5e5fb282b	Available	vpc-0f4d2e50a9e7c7805	172.3'
project-ebs-subnet-public2-ap-south-1b	subnet-0d6424c6b0787c477	Available	vpc-0051d56a7e4462e48   pr...	10.0.1
project-ebs-subnet-private1-ap-south-1a	subnet-0e90c784db062ac12	Available	vpc-0051d56a7e4462e48   pr...	10.0.1
-	subnet-00401442ce49085e8	Available	vpc-0f4d2e50a9e7c7805	172.3'

Select a subnet

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Compute

# Amazon Elastic Beanstalk

## End-to-end web application management.

Amazon Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS.

**Get started**

Easily deploy your web application in minutes.

**Create application**

**Get started**

You simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, and automatic scaling to web application health monitoring, with ongoing fully managed patch and security updates.

**Pricing**

There's no additional charge for Elastic Beanstalk. You pay for Amazon Web Services resources that we create to store and run your web application, like Amazon S3 buckets and Amazon EC2 instances.

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

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.

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Review

Application tags (optional)

**Environment information** Info

Choose the name, subdomain and description for your environment. These cannot be changed later.

Environment name  
Webapp-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  
webapp.ap-south-1.elasticbeanstalk.com Check availability

Check availability

webapp.ap-south-1.elasticbeanstalk.com is available

Environment description

**Platform** Info

Platform type

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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 3.8 running on 64bit Amazon Linux 2

Platform version  
3.5.2 (Recommended)

**Application code** Info

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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

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Step 1 Configure environment Configure service access Info

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

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

View permission details

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Screenshot of the AWS Elastic Beanstalk console showing the creation of a new environment.

**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-0f4d2e50a9e7c7805 | (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
ap-south-1b	subnet-00401442...	172.31.0.0/20	
ap-south-1c	subnet-01e6ab0cd...	172.31.16.0/20	
ap-south-1a	subnet-08e6329e5...	172.31.32.0/20	

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

<b>Health</b> <a href="#">Pending - View causes</a>	<b>Environment ID</b> e-tu3iaigvb...	<b>Platform</b> Python 3.8 running on 64bit Amazon Linux 2/3.5.2
<b>Domain</b> <a href="#">webapp.ap-south-1.elasticbeanstalk.com</a>	<b>Application name</b> webapp	<b>Running version</b> -

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

**Events (3) Info**

Time	Type	Details
May 3, 2023 01:17:48 (UTC+5:30)	INFO	Environment health has transitioned to Pending. Initialization in progress (running for 33 seconds). There are no instances.
May 3, 2023 01:17:11 (UTC+5:30)	INFO	Using elasticbeanstalk-ap-south-1-529857956807 as Amazon S3 storage bucket for environment data.
May 3, 2023 01:17:10 (UTC+5:30)	INFO	createEnvironment is starting.

Screenshot of the AWS Elastic Beanstalk console showing the environment successfully launched.

The left sidebar shows the navigation menu:

- Applications
- Environments
- Change history
- Application: myapp
  - Application versions
  - Saved configurations
- Environment: Myapp-env
  - Go to environment
  - Configuration
  - Events
  - Health
  - Logs
  - Monitoring
  - Alarms
  - Managed updates
  - Tags

The main content area displays the "Events (12) Info" section with the following log entries:

Time	Type	Details
May 3, 2023 01:47:21 (UTC+5:30)	INFO	Added instance [i-03647b545ddfa1bcb] to your environment.
May 3, 2023 01:47:21 (UTC+5:30)	INFO	Environment health has transitioned from Pending to Ok. Initialization completed 9 seconds ago and took 2 minutes.
May 3, 2023 01:46:54 (UTC+5:30)	INFO	Successfully launched environment: Myapp-env
May 3, 2023 01:46:53 (UTC+5:30)	INFO	Application available at myapp.ap-south-1.elasticbeanstalk.com.
May 3, 2023 01:46:38 (UTC+5:30)	INFO	Instance deployment completed successfully.
May 3, 2023 01:46:36 (UTC+5:30)	INFO	Instance deployment successfully generated a 'Procfile'.
May 3, 2023 01:45:36 (UTC+5:30)	INFO	Waiting for EC2 instances to launch. This may take a few minutes.
May 3, 2023 01:45:21 (UTC+5:30)	INFO	Environment health has transitioned to Pending. Initialization in progress (running for 37 seconds). There are no instances.
May 3, 2023 01:44:49 (UTC+5:30)	INFO	Created EIP: 13.200.44.156
May 3, 2023 01:44:34 (UTC+5:30)	INFO	Created security group named: awseb-e-9qnpti8r4t-stack-AWSEBSecurityGroup-3MA3D08E6AWU
May 3, 2023 01:44:34 (UTC+5:30)	INFO	Using elasticbeanstalk-ap-south-1-529857956807 as Amazon S3 storage bucket for environment

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Screenshot of the browser displaying the AWS Elastic Beanstalk Python Application launch confirmation page.

The URL is [myapp.ap-south-1.elasticbeanstalk.com](https://myapp.ap-south-1.elasticbeanstalk.com).

# Congratulations

Your first AWS Elastic Beanstalk Python Application is now running on your own dedicated environment in the AWS Cloud

This environment is launched with Elastic Beanstalk Python Platform

What's Next?

- [AWS Elastic Beanstalk overview](#)
- [AWS Elastic Beanstalk concepts](#)
- [Deploy a Django Application to AWS Elastic Beanstalk](#)
- [Deploy a Flask Application to AWS Elastic Beanstalk](#)
- [Customizing and Configuring a Python Container](#)
- [Working with Logs](#)

At the bottom, there are browser status icons for weather (29°C, Sunny), search, and system notifications.