



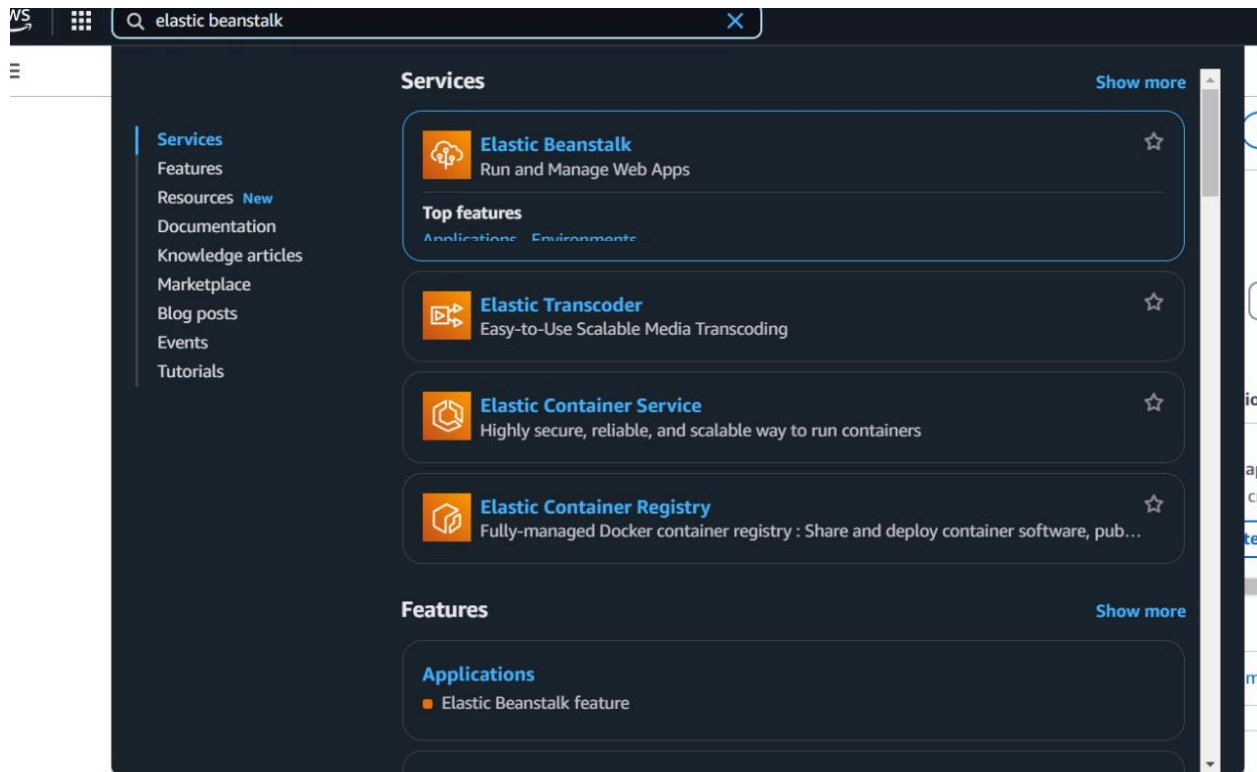
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Practical 4

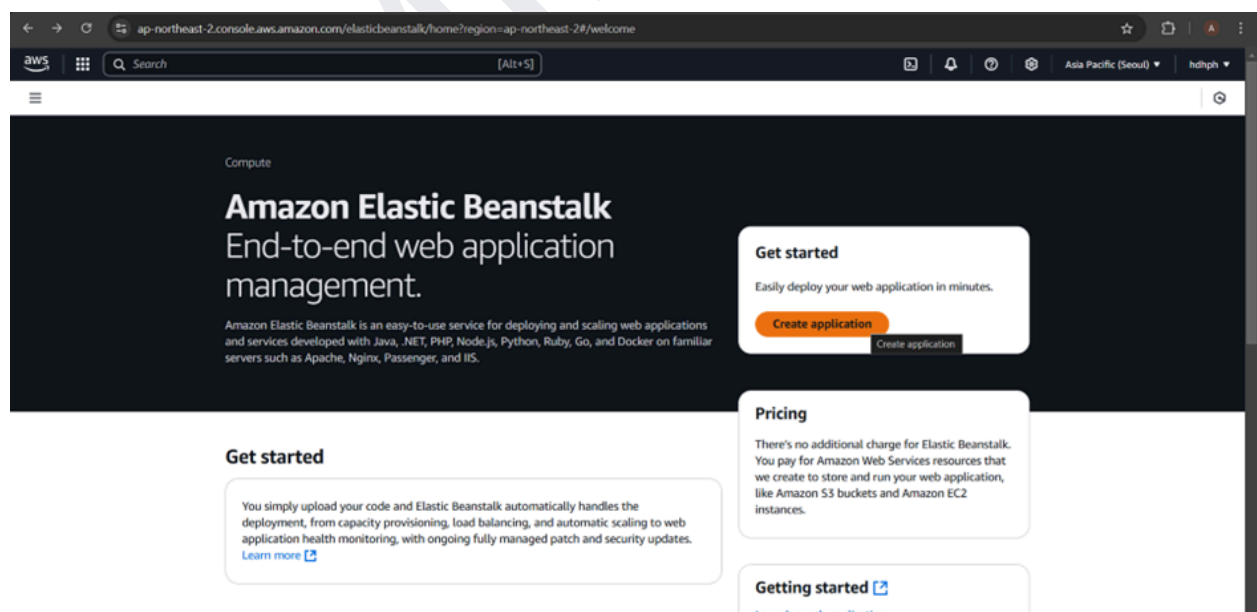
(Creating an Application using AWS Bean Stalk.)

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Step 1: Sign in to the AWS Management Console & Go to Elastic Beanstalk



Step 2: Click on "Create Application"



Step 3: Name application "Arpita first EB Website".

The screenshot shows the AWS Management Console interface for configuring an Elastic Beanstalk environment. On the left, a vertical progress bar lists six 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). Step 1 is currently active. The main content area is titled 'Configure environment' and contains three sections: 'Environment tier' with radio buttons for 'Web server environment' (selected) and 'Worker environment'; 'Application information' with a text input field containing 'Arpita first EB Website'; and 'Environment information' with a text input field for the environment name.

Step 1
Configure environment [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

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
Arpita first EB Website
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

Step 4: - Choose the managed platform for your application (e.g., Node.js).

The screenshot shows the 'Application code' section of the AWS Elastic Beanstalk configuration. It features two main options: 'Managed platform' (selected) and 'Custom platform'. Under 'Managed platform', there are three dropdown menus: 'Platform' (set to 'Node.js'), 'Platform branch' (set to 'Node.js 22 running on 64bit Amazon Linux 2023'), and 'Platform version' (set to '6.4.3 (Recommended)'). Below these, the 'Application code' section has three radio buttons: 'Sample application' (selected), 'Existing version', and 'Upload your code'.

☒ **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
Node.js

Platform branch
Node.js 22 running on 64bit Amazon Linux 2023

Platform version
6.4.3 (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.

Step 6: 'Key Pair for SSH Access' & Attach Instance Profile':

The screenshot shows the 'Configure service access' step in the AWS Elastic Beanstalk console. On the left, a progress bar lists six steps: 'Configure environment', 'Configure service access' (highlighted), 'Set up networking, database, and tags', 'Configure instance traffic and scaling', 'Configure updates, monitoring, and logging', and 'Review'. The main content area is titled 'Configure service access' and includes sections for 'Service access', 'Service role', 'Existing service roles', 'EC2 key pair', and 'EC2 instance profile'. The 'Service role' section has two radio buttons: 'Create and use new service role' and 'Use an existing service role' (selected). The 'Existing service roles' section has a dropdown menu and a refresh icon. The 'EC2 key pair' section has a dropdown menu and a refresh icon. The 'EC2 instance profile' section has a dropdown menu and a refresh icon. At the bottom, there are buttons for 'Cancel', 'Skip to review', 'Previous', and 'Next'.

Configure service access [info](#)

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.

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](#)

[Cancel](#) [Skip to review](#) [Previous](#) [Next](#)

Step : 7 Choose VPC and Subnets':

The screenshot shows the 'Set up networking, database, and tags - optional' step in the AWS Elastic Beanstalk console. On the left, a progress bar lists six steps: 'Configure environment', 'Configure service access', 'Set up networking, database, and tags' (highlighted), 'Configure instance traffic and scaling', 'Configure updates, monitoring, and logging', and 'Review'. The main content area is titled 'Set up networking, database, and tags - optional' and includes sections for 'Virtual Private Cloud (VPC)', 'Instance settings', and 'Instance subnets'. The 'VPC' section has a dropdown menu and a 'Create custom VPC' link. The 'Instance settings' section has a 'Public IP address' checkbox (checked) and a 'Public IP address' text field. The 'Instance subnets' section has a search bar and a table with columns for 'Availability Zone', 'Subnet', 'CIDR', and 'Name'. At the bottom, there are buttons for 'Cancel', 'Skip to review', 'Previous', and 'Next'.

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](#)

[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

<input type="checkbox"/>	Availability Zone	Subnet	CIDR	Name
<input type="checkbox"/>	ap-northeast-2c	subnet-03b98915343674b9d	172.31.32.0/20	

[Cancel](#) [Skip to review](#) [Previous](#) [Next](#)

Step : 8 'Security Group':.

The screenshot shows the AWS Elastic Beanstalk console interface. On the left, a vertical navigation pane lists six 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 (highlighted with a blue circle), Step 5 - optional: Configure updates, monitoring, and logging, and Step 6: Review. The main content area is titled 'Configure instance traffic and scaling - optional' with an 'info' link. It contains a section for 'Instances' with a description: 'Configure the Amazon EC2 instances that run your application.' Below this is the 'Root volume (boot device)' section, which includes a 'Root volume type' dropdown set to '(Container default)', a 'Size' input field set to '100' GB, an 'IOPS' input field set to '125' IOPS, and a 'Throughput' input field set to '125' MIB/s. At the bottom, there is a section for 'Amazon CloudWatch monitoring' with a note: 'The time interval between volume metrics are reported from the EC2 instances.'

Step 9 : - Choose an instance type

The screenshot shows the AWS Elastic Beanstalk console interface. On the left, a vertical navigation pane lists six 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 (highlighted with a blue circle), and Step 6: Review. The main content area is titled 'Configure updates, monitoring, and logging - optional' with an 'info' link. It contains a section for 'Monitoring' with a description: '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.' Below this is the 'System' section with two radio buttons: 'Basic' and 'Enhanced' (selected). There are two 'CloudWatch Custom Metrics' dropdown menus, one for 'Instance' and one for 'Environment', both set to 'Choose metrics'. At the bottom, there is a section for 'Health event streaming to CloudWatch Logs' with a description: '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.' Below this is a 'Log streaming' section with a checkbox labeled 'Activated (standard CloudWatch charges apply.)' and a 'Retention' section.

Step 10 : - 'Platform Updates': Un check it

The screenshot shows the 'Platform Updates' configuration page. At the top, there is a 'Lifecycle' section with a dropdown menu set to 'Keep logs after terminating environment'. Below this is the 'Managed platform updates' section, which is expanded. It contains the following options:

- Managed updates:** A checkbox labeled 'Activated' is checked.
- Weekly update window:** A dropdown menu is set to 'Thursday', followed by 'at 17 : 28 UTC'.
- Update level:** A dropdown menu is set to 'Minor and patch'.
- Instance replacement:** A checkbox labeled 'Activated' is unchecked.

Below the 'Managed platform updates' section is the 'Email notifications' section, which is also expanded. It contains a text input field for an email address and a 'Learn more' link.

Step 11 : . 'Review and Submit':

The screenshot shows the 'Review and Submit' page. On the left, there is a vertical list of 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
- Step 6: Review

The main content area is divided into two sections:

- Step 1: Configure environment** (with an 'Edit' button):
 - Environment information:**
 - Environment tier: Web server environment
 - Environment name: ArpitafirstEBWebsite-env
 - Platform: arn:aws:elasticbeanstalk:ap-northeast-2:platform/Node.js 22 running on 64bit Amazon Linux 2023/6.4.3
 - Application name: Arpita_first EB Website
 - Application code: Sample application
- Step 2: Configure service access** (with an 'Edit' button):
 - Service access:** 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:** arn:aws:iam::703671894857:role/aws-elasticbeanstalk-service-role
 - EC2 key pair:** Demo2
 - EC2 instance profile:** aws-elasticbeanstalk-ec2-role

At the bottom of the page, there is a footer with the following text: '© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences'. The bottom of the screenshot shows a Windows taskbar with the date '28-02-2025' and time '21:11'.

