

Module 4: Application Deployment Using Elastic Beanstalk

Demo Document 1

edureka!

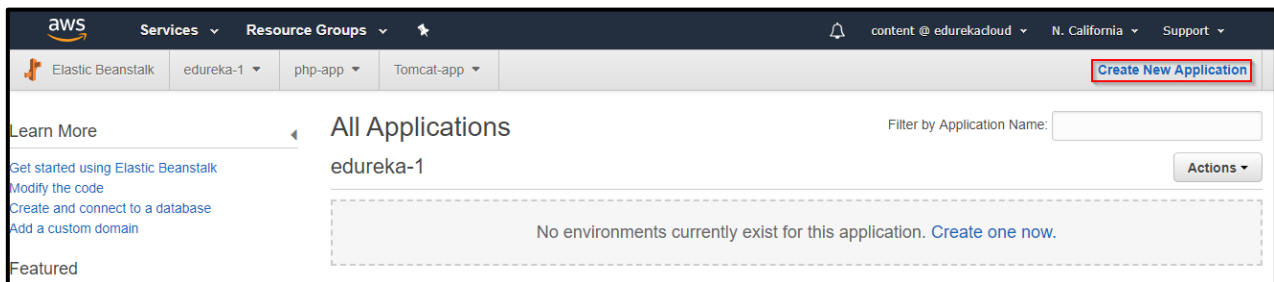
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Deploy A Web Application With DynamoDB Using Beanstalk

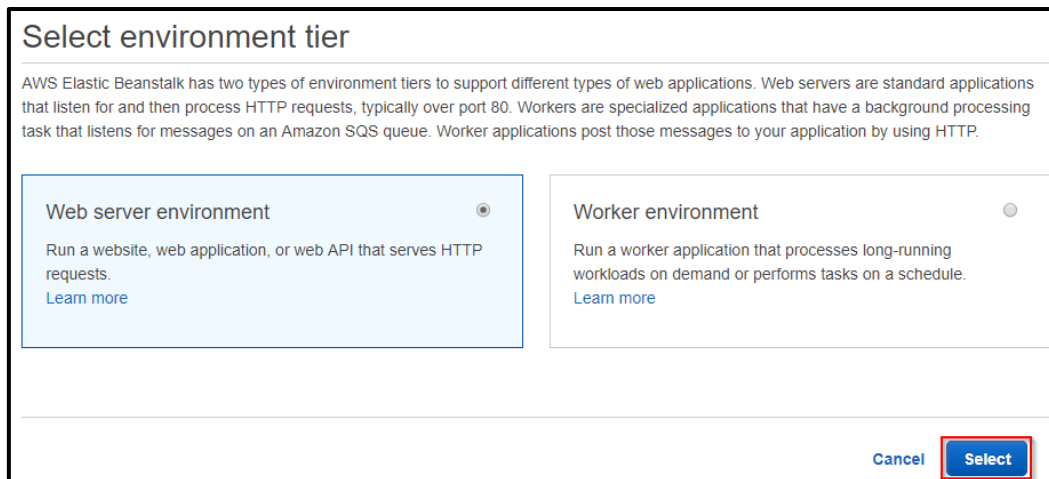
Demo steps:

Step 1: Create a web application in beanstalk

- In your AWS Management Console, search for Beanstalk and select it
- Now, click on **create new application**



- Give a name for your application and click on **create**
- In environment tier, select web server environment and click on **select**



- In platform, choose preconfigured platform and select **Node.js** (fill the options as shown below)
- Now, click on **configure more option**

The screenshot shows the AWS Elastic Beanstalk console. On the left, there's a sidebar with 'Elastic Beanstalk' selected, and sub-sections for 'Environments' and 'Applications'. The main area is titled 'Create application'. At the top, there's a 'Add tag' button and a note '50 remaining'. Below this, the 'Platform' section contains four dropdown menus: 'Platform' (set to 'Node.js'), 'Platform branch' (set to 'Node.js running on 64-bit Amazon Linux'), 'Platform version' (set to '4.15.0 (Recommended)'), and 'Node.js version' (set to '12.18.1'). The 'Application code' section has two radio buttons: 'Sample application' (selected) and 'Upload your code'. At the bottom, there are three buttons: 'Cancel', 'Configure more options', and 'Create application'.

- In configuration page, under security click on **modify**
- Choose the key pair for your deployment server and click on **apply**

The screenshot shows the 'Modify security' page in the AWS Elastic Beanstalk console. The page has a title 'Modify security'. Under the 'Service role' section, there's a dropdown menu set to 'aws-elasticbeanstalk-service-role' with a refresh icon. Under the 'Virtual machine permissions' section, there are two dropdown menus: 'EC2 key pair' (set to a key pair icon) and 'IAM instance profile' (set to 'aws-elasticbeanstalk-ec2-role'), both with refresh icons. At the bottom right, there are three buttons: 'Cancel', 'Continue', and 'Apply' (which is highlighted with a red box).

- Then, click on **create environment**
- After the resources being created, you will able to see the page

Step 2: Add permissions to your environment instance

- Open your IAM role page in IAM console
- Select the **aws-elasticbeanstalk-ec2-role**
- Click on Attach policies under permission
- Attach the **AmazonDynamoDBFullAccess** to it

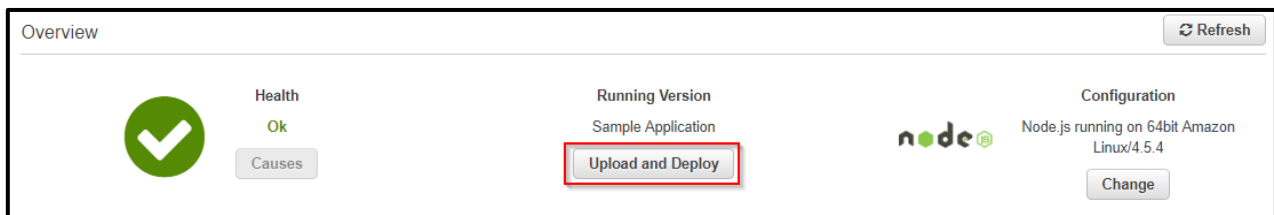
The screenshot displays the AWS Elastic Beanstalk console configuration page. It features five main configuration panels, each with a 'Modify' button at the bottom:

- Monitoring:** Health reporting system: Enhanced, Ignore HTTP 4xx: disabled, Health event log streaming: disabled.
- Notifications:** Email address: --
- Network:** This environment is not part of a VPC.
- Database:** Engine: --, Instance class: --, Storage (GB): --, Multi-AZ: --
- Tags:** Tags: none

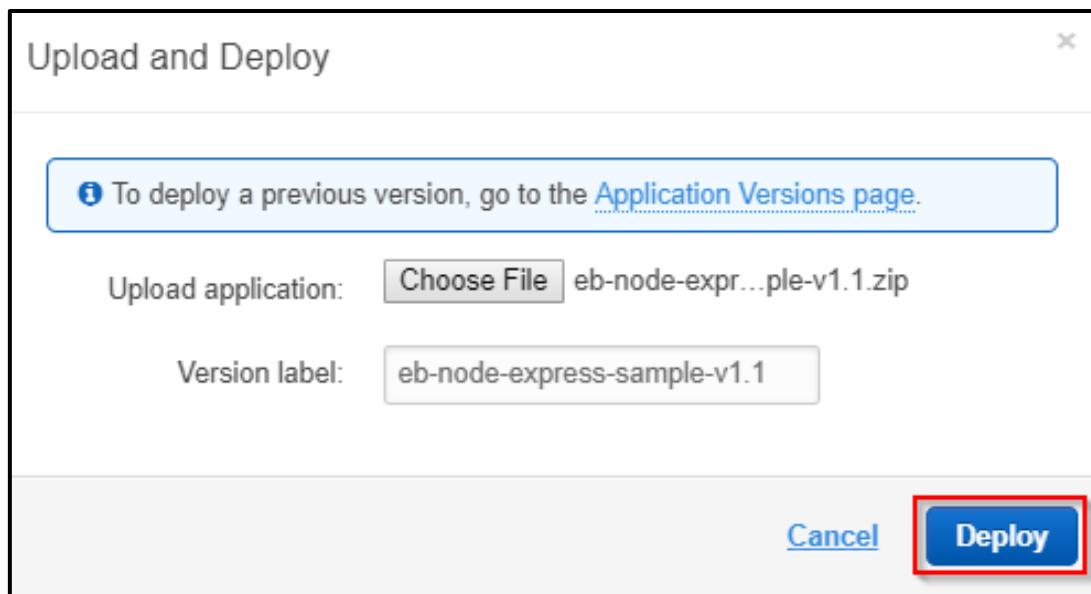
At the bottom right of the console, there are four buttons: 'Cancel', 'Previous', 'Create environment' (highlighted with a red box), and 'Activate Windows'.

Step 3: Deploy your Application

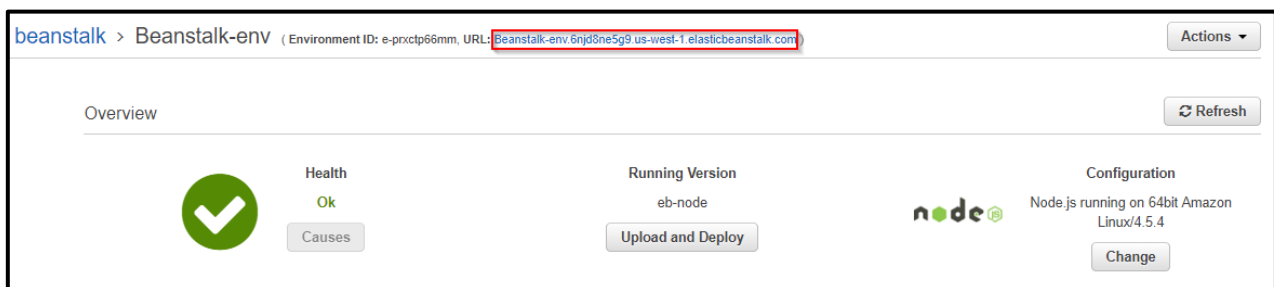
- Get the source for your application from <https://github.com/aws-labs/eb-node-express-sample/releases/download/v1.1/eb-node-express-sample-v1.1.zip>
- Now navigate to your beanstalk environment
- Click on **upload and Deploy**



- Choose the file you have downloaded
- Then, click on **deploy**

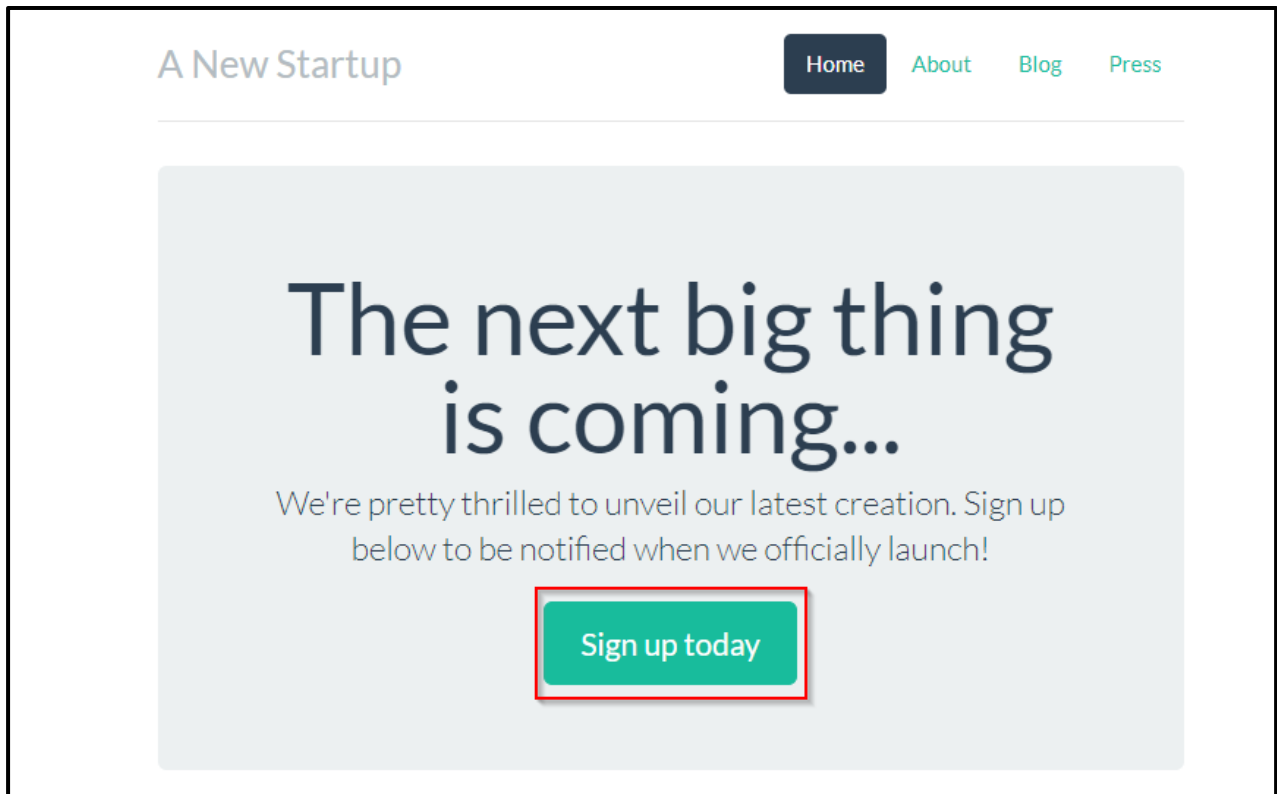


- After your application being deployed, click on the link



Step 4: Test your application

- Click on the sign up today



- Enter your name, e-mail and click on **sign-up**

Provide a few details and we'll be in touch...×

Name

edureka

Email address

edureka@gmail.co|

Interested in Preview Access?

Yes

Sign Up!

- Now go to your DynamoDB console and click on the table which starts with awseb
- In that click on items to see the data which is entered in the file

Overview

Items

Metrics

Alarms

Capacity

Indexes

Global Tables

Backups

Triggers

Create item

Actions

Scan: [Table] awseb-e-prxctp66mm-stack-StartupSignups...

Scan

[Table] awseb-e-prxctp66mm-stack-StartupSignupsTable-1TLF56IJN9CRB: email

+ Add filter

Start search

| <input type="checkbox"/> | email | name | preview | theme |
|--------------------------|------------------|---------|---------|--------|
| <input type="checkbox"/> | edureka@gmail.co | edureka | Yes | flatly |