

LAB-10

- In this lab we deploy one of our already created lab assignments to **AWS Elastic Beanstalk** (<http://conversion-websevic-env.us-west-2.elasticbeanstalk.com/>) and **Heroku** (<https://conversion-webservices.herokuapp.com/>)
- Deployment screenshots of Beanstalk

The screenshot shows the AWS Elastic Beanstalk console. The top navigation bar includes 'AWS', 'Services', and 'Edit'. The main content area is titled 'All Applications' and shows a list of applications. The application 'ConversionWebServices' is highlighted with a green box. To the left, there is a 'Learn More' section with links to 'Get Started using Elastic Beanstalk', 'What Is AWS Elastic Beanstalk?', and 'How Does AWS Elastic Beanstalk Work?'. Below that is a 'Command Line Interface (v3)' section with instructions on how to use the CLI to create, manage, and scale applications. At the bottom, there is a 'Get Started' section with a code snippet for creating a new application.

```
$ mkdir HelloWorld
$ cd HelloWorld
$ eb init -p PHP
$ echo "Hello World" > index.html
$ eb create dev-env
```

The screenshot shows the 'Create Application' page in the AWS Elastic Beanstalk console. The page is titled 'Application Information' and contains a form for creating a new application. The 'Application name' field is filled with 'Conversion-WebServices' and the 'Description' field is empty. The 'Next' button is highlighted. The footer of the page includes a 'Feedback' link, the 'English' language selector, and copyright information for Amazon Web Services, Inc. or its affiliates.

Create Application

https://us-west-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-west-2#/newApplication?apj

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Elastic Beanstalk

Create New Environment

Application Info

New Environment

New Environment

AWS Elastic Beanstalk has two types of environment tiers to support different types of web applications. Web servers are standard applications that listen for and then process HTTP requests, typically over port 80. Workers are specialized applications that have a background processing task that listens for messages on an Amazon SQS queue. Worker applications post those messages to your application by using HTTP.

Web Server Environment

Provides resources for an AWS Elastic Beanstalk web server in either a single instance or load-balancing, auto scaling environment. [Learn more.](#)

Create web server

Worker Environment

Provides resources for an AWS Elastic Beanstalk worker application in either a single instance or load-balancing, auto scaling environment. [Learn more.](#)

Create worker

* Worker environments require additional permissions to access other AWS services. [Learn more.](#)

Cancel

Done

Create Application

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Review Information

Environment Type

Choose the platform and type of environment to launch.

Predefined configuration:

Select a platform

[Looking for a different platform? Let us know.](#)

Environment type:

Single instance

[Learn more](#)

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Environment Type

Choose the platform and type of environment to launch.

Predefined configuration: Tomcat Looking for a different platform? [Let us know.](#)

AWS Elastic Beanstalk will create an environment running Tomcat 8 Java 8 on 64bit Amazon Linux 2015.09 v2.0.8. [Change platform version.](#)

Environment type: Single instance [Learn more](#)

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FeedbackEnglish

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Create Application

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Application Version

Select a source for your application version.

Source: ☐ Sample application

☒ Upload your own [\(Learn more\)](#)

[Browse...](#) conversion_web_services.war

☐ S3 URL

(e.g. <https://s3.amazonaws.com/s3Bucket/s3Key>)

Deployment Limits

Elastic Beanstalk will update your application in batches so as to avoid downtime when deploying. [Learn more](#)

Batch size: ☒ Percentage

30 % of the fleet at a time

☐ Fixed

1 instances at a time

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FeedbackEnglish

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Create Application

https://us-west-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-west-2#/newApplication?api

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Permissions

Select an instance profile and service role for your AWS Elastic Beanstalk environment.

An instance profile is an IAM role configured for use with EC2 instances. The instances in your Elastic Beanstalk use the credentials provided by the instance profile to communicate with AWS.

A service role allows the Elastic Beanstalk service to monitor environment resources on your behalf. See [Roles and Instance Profiles](#) in the Elastic Beanstalk developer guide for details.

Instance profile:

Create a new role

Service role:

aws-elasticbeanstalk-service-ro

Elastic Beanstalk will create an instance profile with a standard set of permissions. [Learn more.](#)

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Environment Info

Key pair

Email address (default)

Root volume type (default)

Root volume size (default)

Root volume IOPS

Application health check URL

Environment Tags

No settings provided.

Permissions

Service role

aws-elasticbeanstalk-service-role

Instance profile

aws-elasticbeanstalk-ec2-role

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Launch

conversion-web - Dashbo... X +

https://us-west-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-west-2#/environment/dashboar

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Most Visited Getting Started

Info

Elastic Beanstalk is now creating your environment. When it has finished it will be running First Release.

Conversion-WebServices ▶ conversion-web (Environment ID: e-msxj5jm9bt, URL: conversion-websevic-env-us-west-2.elasticbeanstalk.com) Actions

Dashboard

Configuration

Logs

Health **NEW**

Monitoring

Alarms


Events

Tags

Elastic Beanstalk is launching your environment.


[View Events](#)

Overview Refresh



Health
Pending
[Causes](#)

Running Version
[Upload and Deploy](#)


Configuration
64bit Amazon Linux 2015.09
v2.0.8 running Tomcat 8 Java 8
[Change](#)

conversion-web - Dashbo... X CS551 - 2016 Spring - Goo... X Dropbox - CS5551-Lab10... X +

https://us-west-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-west-2#/environment/dashboar

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Info

Elastic Beanstalk is now creating your environment. When it has finished it will be running First Release.

Conversion-WebServices ▶ conversion-web (Environment ID: e-msxj5jm9bt, URL: conversion-websevic-env-us-west-2.elasticbeanstalk.com) Actions

Dashboard

Configuration

Logs

Health **NEW**


Monitoring

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Overview Refresh



Health
Ok
[Causes](#)

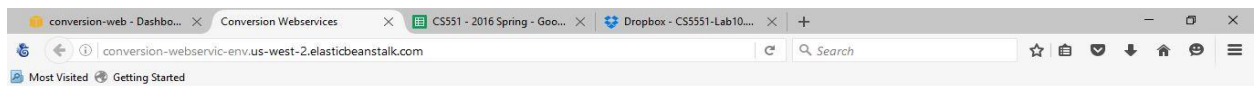
Running Version
First Release
[Upload and Deploy](#)


Configuration
64bit Amazon Linux 2015.09
v2.0.8 running Tomcat 8 Java 8
[Change](#)

Recent Events Show All

Time	Type	Details
------	------	---------

- Now we can click on the URL provided by Elastic Beanstalk <http://conversion-web-service-env.us-west-2.elasticbeanstalk.com/>



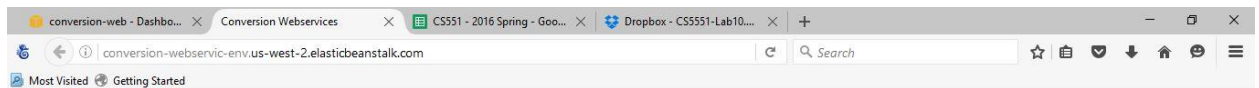
Conversion Web Services

Want to know your weight in kilograms? Or want to know your height in centimeters? Check below!

Convert to Kg

Convert to cm

- Pounds to kg conversion



Conversion Web Services

Want to know your weight in kilograms? Or want to know your height in centimeters? Check below!

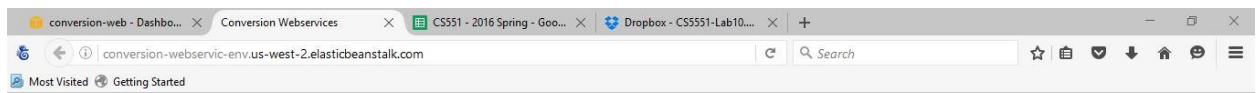
25

Convert to Kg

Convert to cm

25 pounds is equal to 11.3398 kilograms

- Feet to cm conversion



Conversion Web Services

Want to know your weight in kilograms? Or want to know your height in centimeters? Check below!

Convert to Kg

Convert to cm

25 feet is equal to 762.0 centimeters