

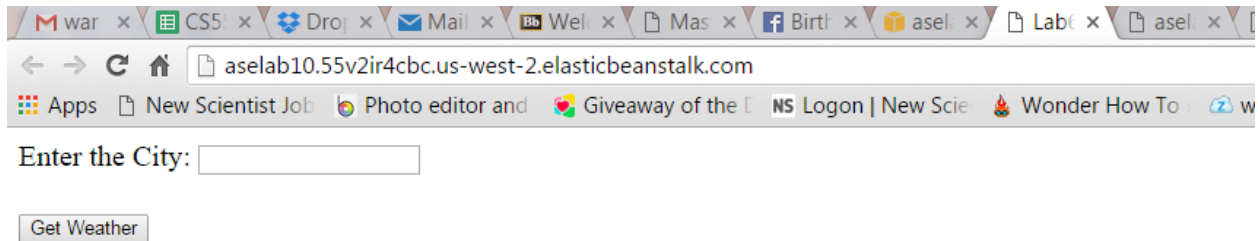
Assignment Lab 10

Deploying the web application to AWS. I used the web application that is developed as part of lab 6 and deployed that to AWS. But did not improve its UI because it is not part of this submission.

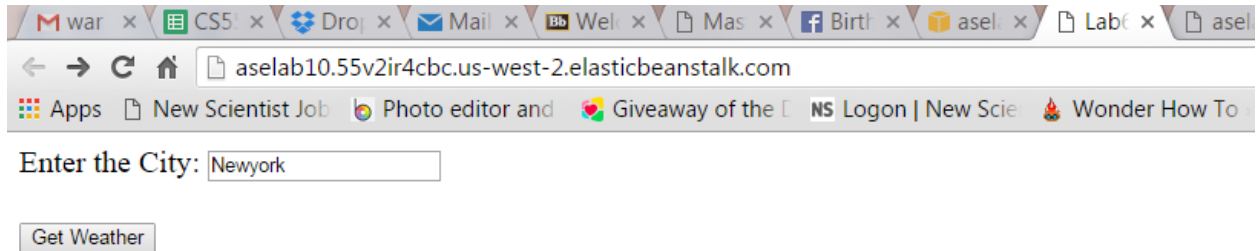
AWS URL to access web application:

<http://aselab10.55v2ir4cbc.us-west-2.elasticbeanstalk.com/>

First Page:

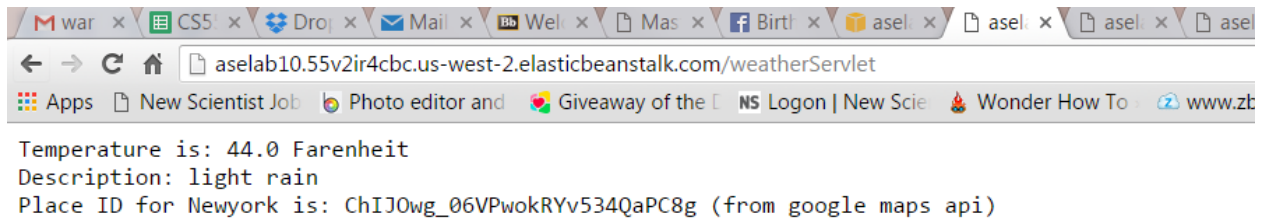


A screenshot of a web browser displaying the first page of the application. The browser's address bar shows the URL `aselab10.55v2ir4cbc.us-west-2.elasticbeanstalk.com`. The page content includes a label "Enter the City:" followed by an empty text input field. Below the input field is a button labeled "Get Weather". The browser's tab bar shows several open tabs, including "war", "CS5", "Dro", "Mail", "Web", "Mas", "Birt", "asel", "Lab", and "asel".

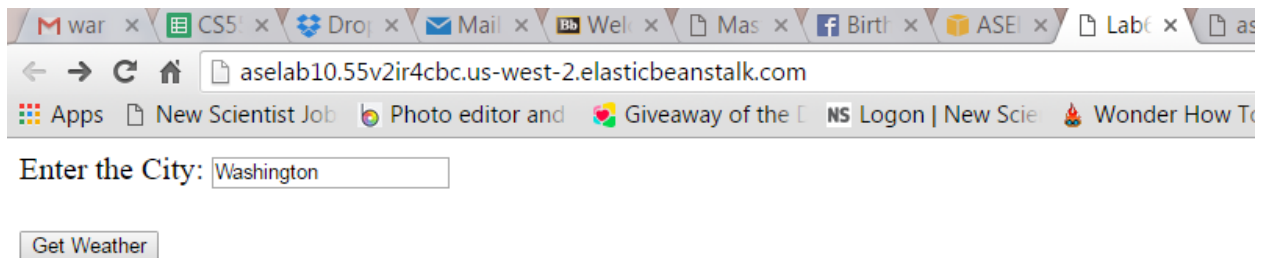


A second screenshot of the same web application page. In this view, the text "Newyork" has been entered into the "Enter the City:" input field. The "Get Weather" button remains visible below the input field. The browser's address bar and tab bar are identical to the first screenshot.

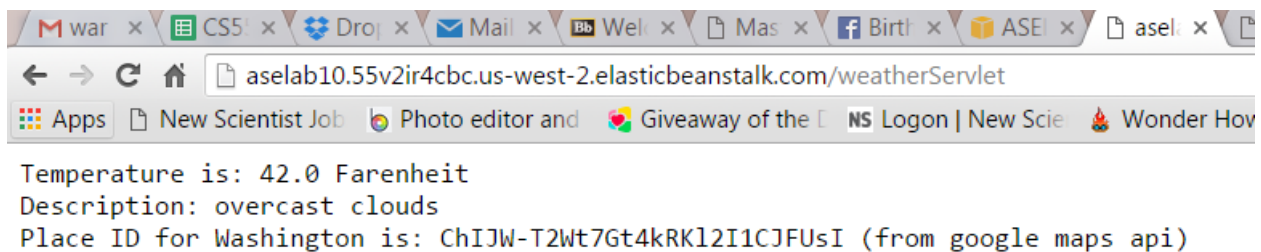
Output Page:



Input example 2:



Output:



Dashboard:

The screenshot shows the AWS Elastic Beanstalk console dashboard for an environment named ASElab10. The interface includes a left-hand navigation menu with options like Dashboard, Configuration, Logs, Health, Monitoring, Alarms, Events, and Tags. The main content area displays an Overview section with a green 'Health OK' status, a 'Running Version' of 'aselab10-source2', and a 'Configuration' of '64bit Amazon Linux 2015.09 v2.0.8 running Tomcat 8 Java 8'. Below this, a 'Recent Events' table lists several informational events related to environment updates and deployments. At the bottom, there is a footer with 'Feedback', 'English', and copyright information.

Dashboard

Configuration

Logs

Health **NEW**

Monitoring

Alarms

Events

Tags

Overview

Health **OK**

Causes

Running Version

aselab10-source2

Upload and Deploy

Configuration

64bit Amazon Linux 2015.09
v2.0.8 running Tomcat 8 Java 8

Change

Recent Events

Time	Type	Details
2016-04-04 17:55:27 UTC-0500	INFO	Environment update completed successfully.
2016-04-04 17:55:27 UTC-0500	INFO	New application version was deployed to running EC2 instances.
2016-04-04 17:55:08 UTC-0500	INFO	Deploying new version to instance(s).
2016-04-04 17:55:03 UTC-0500	INFO	Environment update is starting.
2016-04-04 17:28:14 UTC-0500	INFO	Environment health has transitioned from Pending to OK.

Application Versions:

This screenshot displays the 'Application Versions' section of the AWS Elastic Beanstalk console for the ASElab10 environment. It features a table with columns for Version Label, Description, Date Created, Source, and Deployed To. Two versions are listed: 'aselab10-source2' and 'aselab10-source'. Above the table, there are buttons for 'Delete', 'Deploy', 'Upload', and 'Refresh'.

ASElab10

Environments

Application Versions

Saved Configurations

Version Label	Description	Date Created	Source	Deployed To
aselab10-source2	Removed <p> tags from system out print	2016-04-04 17:54:49 UTC-0500	2016095JJ-Lab6.war	aselab10
aselab10-source		2016-04-04 17:23:56 UTC-0500	2016095CIC-Lab6.war	

Configuration:

The screenshot shows the 'Configuration' section of the AWS Elastic Beanstalk console for the ASElab10 environment. It is divided into two main sections: 'Web Tier' and 'Data Tier'. The 'Web Tier' section contains six configuration panels: Scaling, Instances, Notifications, Software Configuration, Updates and Deployments, and Health. The 'Data Tier' section is currently empty, displaying a message that prompts the user to create a new RDS database or use an existing one.

Dashboard

Configuration

Logs

Health **NEW**

Monitoring

Alarms

Events

Tags

Web Tier

Scaling

Environment type: Single instance
Custom Availability Zones: blank

Instances

Instance type: t1.micro
Availability Zones: Any

Notifications

Notifications: Off

Software Configuration

Log publication: Off
Initial JVM heap size: 256m
JVM command line options: blank
Maximum JVM heap size: 256m
Maximum JVM permanent generation size: 64m

Updates and Deployments

Rolling updates are disabled

Health

Application health check URL: blank
Health reporting: Enhanced

Data Tier

You do not have a database. You can [create a new RDS database](#) or [use an existing database](#).

Logs:

The screenshot shows the AWS Elastic Beanstalk console interface. The top navigation bar includes 'AWS', 'Services', 'Edit', and user information. The breadcrumb trail is 'Elastic Beanstalk' > 'ASElab10' > 'Sampleapp' > 'yoshita_vikesh'. The main content area is titled 'ASElab10 > aselab10' with the environment ID 'e-pp8tpejehv' and URL 'aslab10.55v2r4cbc.us-west-2.elasticbeanstalk.com'. A sidebar on the left lists navigation options: Dashboard, Configuration, Logs (selected), Health, Monitoring, Alarms, Events, and Tags. The 'Logs' section displays a message: 'Click Request Logs to retrieve the last 100 lines of logs or the entire set of logs from each EC2 instance. Learn more'. Below this is a table with columns 'Log file', 'Time', 'EC2 instance', and 'Type'. One entry is shown for 'Download' at '2016-04-04 18:04:01 UTC-0500' for instance 'i-0937743e249317b1d', showing 'Last 100 Lines'. Buttons for 'Request Logs' and 'Refresh' are present.

Health:

The screenshot displays the 'Enhanced Health Overview' page in the AWS Elastic Beanstalk console. The interface is similar to the Logs page, with the same navigation sidebar and breadcrumb trail. The main content area shows a summary of the environment's health. A table lists various metrics for the instance 'i-0937743e249317b1d', including Status (Ok), Running time (40 minutes), and various request and latency metrics. A summary bar indicates the overall health is 'Ok' with counts for different states: Total 1, Ok 1, Pending 0, Info 0, Unknown 0, No data 0, Warning 0, Degraded 0, and Severe 0. The bottom of the table shows detailed metrics for the instance, such as CPU utilization (0.0), Load average (0.04), and I/O wait (0.1).

Monitoring:

The screenshot shows the 'Monitoring' page in the AWS Elastic Beanstalk console. The navigation sidebar and breadcrumb trail are consistent with the previous pages. The main content area features a summary of key metrics: CPU Utilization at 15.1%, Max Network In at 259KB, and Max Network Out at 72KB. Below this, there are four line charts showing the history of these metrics over time. The charts are titled 'Environment Health by health code', 'CPU Utilization in percent', 'Max Network In in bytes', and 'Max Network Out in bytes'. The 'Environment Health by health code' chart shows a single 'Ok' status. The other three charts show fluctuations in CPU utilization and network traffic over the selected time range.

Events:

- Dashboard
- Configuration
- Logs
- Health ^{NEW}
- Monitoring
- Alarms
- Events
- Tags

Events

Refresh

Severity	2016-02-15 17:05:00 UTC-0600 <input type="range" value="2016-04-04 18:06:00 UTC-0500"/>	
Time	Type	Details
2016-04-04 18:04:06 UTC-0500	INFO	Pulled logs for environment instances.
2016-04-04 18:04:01 UTC-0500	INFO	[Instance: i-0937743e249317b1d] Successfully finished tailing 14 log(s)
2016-04-04 18:03:58 UTC-0500	INFO	requestEnvironmentInfo is starting.
2016-04-04 17:57:11 UTC-0500	INFO	Environment health has transitioned from Info to Ok.
2016-04-04 17:56:11 UTC-0500	INFO	Environment health has transitioned from Ok to Info. Command is executing on all instances.
2016-04-04 17:55:27 UTC-0500	INFO	Environment update completed successfully.
2016-04-04 17:55:27 UTC-0500	INFO	New application version was deployed to running EC2 instances.
2016-04-04 17:55:08 UTC-0500	INFO	Deploying new version to instance(s).
2016-04-04 17:55:03 UTC-0500	INFO	Environment update is starting.
2016-04-04 17:28:14 UTC-0500	INFO	Environment health has transitioned from Pending to Ok.
2016-04-04 17:28:01 UTC-0500	INFO	Successfully launched environment: aselab10
2016-04-04 17:26:14 UTC-0500	INFO	Added instance [i-0937743e249317b1d] to your environment.
2016-04-04 17:25:55 UTC-0500	INFO	Waiting for EC2 instances to launch. This may take a few minutes.
2016-04-04 17:24:29 UTC-0500	INFO	Created EIP: 52.37.144.167
2016-04-04 17:24:23 UTC-0500	INFO	Created security group named: awseb-e-ppt8pejtv-stack-AWSEBSecurityGroup-1HKUKTJ3LHAE0
2016-04-04 17:24:14 UTC-0500	INFO	Environment health has transitioned to Pending. There are no instances.
2016-04-04 17:23:58 UTC-0500	INFO	Using elasticbeanstalk-us-west-2-588214077529 as Amazon S3 storage bucket for environment data.
2016-04-04 17:23:57 UTC-0500	INFO	createEnvironment is starting.