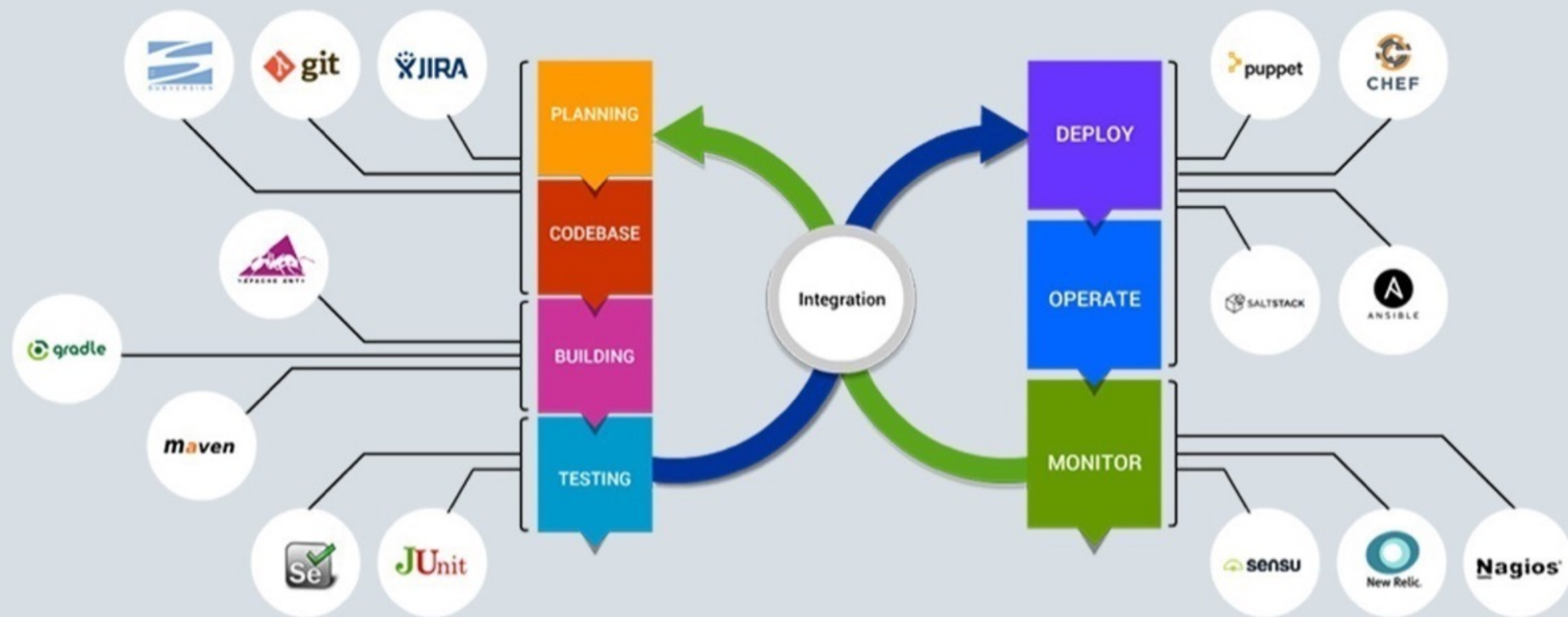


AWS

AWS - ELASTIC BEANSTALK

Agile | Linux | AWS | DevOps | Python

Keshav Kumhari



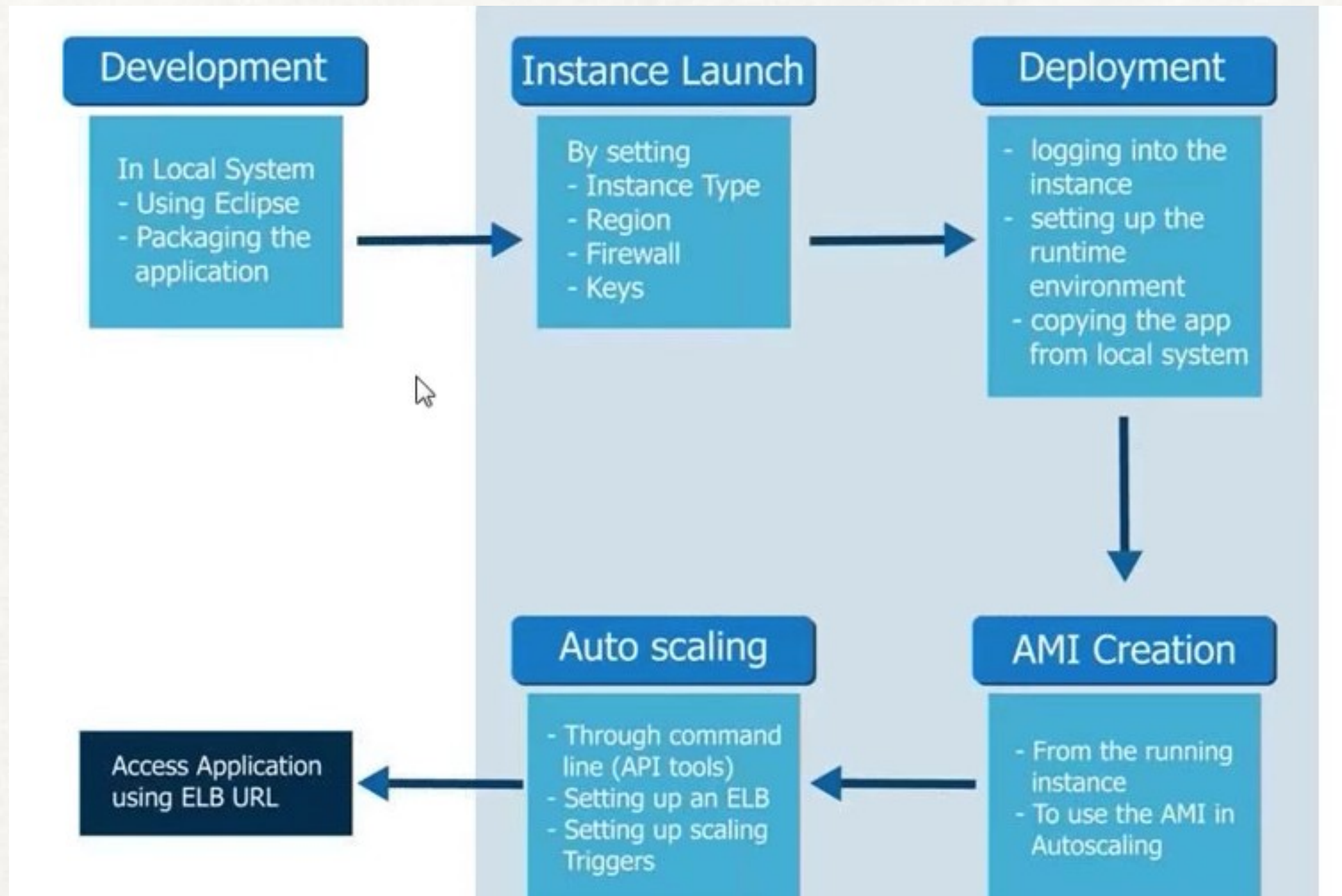
AWS ELASTIC BEANSTALK

1. WHAT IS ELASTIC BEANSTALK?

- AWS 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 Tomcat, Nginx, Passenger, and IIS**.
- You can simply **upload your code** and **Elastic Beanstalk** automatically handles the **deployment**, from **capacity provisioning, load balancing, auto-scaling** to **application health monitoring**.
- At the same time, you **retain full control** over the **AWS resources powering** your application and can access the **underlying resources** at any time.
- There is no additional charge for Elastic Beanstalk - **you pay only for the AWS resources** needed to **store and run your applications**.

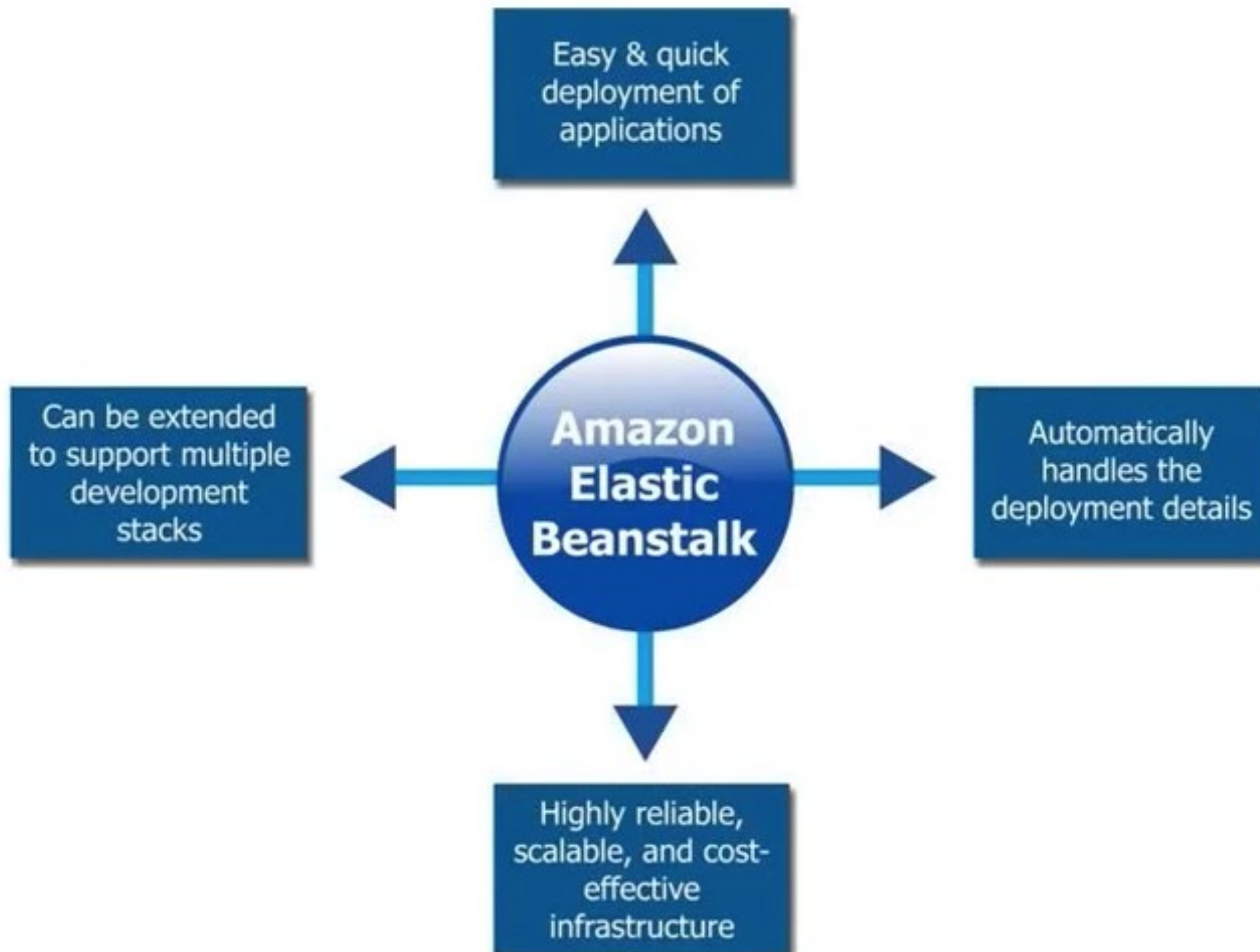
- With Elastic Beanstalk, you can **deploy, Monitor, and scale** an application quickly.
- It provides **developers or end users** with the ability to **provision application infrastructure** in an almost **transparent way**.
- It has a highly **abstract focus** towards **infrastructure**, focusing on **components** and **performance - not configuration** and **specifications**.
- It attempts to **remove, or significantly** simplify infrastructure management, allowing **applications to be deployed** into **infrastructure environments easily**.

DEVELOP & DEPLOY FLOW



Development & Operation Work Flow using Elastic Bean Stack

USAGES OF ELASTIC BEANSTACK



EB - FLOW

BEANSTALK KEY ARCHITECTURE COMPONENTS

- Applications are the high level structure in beanstalk.
- Either your entire Application, is one EB Application, or
- Each logical component of your Application, can be a EB Application or a EB environment within an application.



EB

BEANSTALK KEY ARCHITECTURE COMPONENTS

- Applications can have multiple environments(Dev, Test, Acceptance, & Production)
- or functional type(Front-End,Back-End)
- Environments are either single instance or scalable
- Environments are either web server environments or worker environments



Elastic Bean Stak

BEANSTALK KEY ARCHITECTURE COMPONENTS

- Application Versions are unique packages which represent versions of apps.
- An Application is uploaded to Elastic beanstalk as an application bundle i.e. .zip
- Each "Application" can have many versions 1:M relationship.
- Application versions can be deployed to environments within an application.



AWS EB

ELASTIC BEANSTALK ADVANTAGES

- 1 Developer retain full control over the AWS resources
- 2 Root access to your EC2 instances
- 3 Easily manage configuration changes in one place
- 4 Use any database - Amazon RDS, Amazon SimpleDB, or Oracle
- 5 Create custom AMIs
- 6 Run other services side-by-side in EC2
- 7 Easily move your application out of Elastic Beanstalk

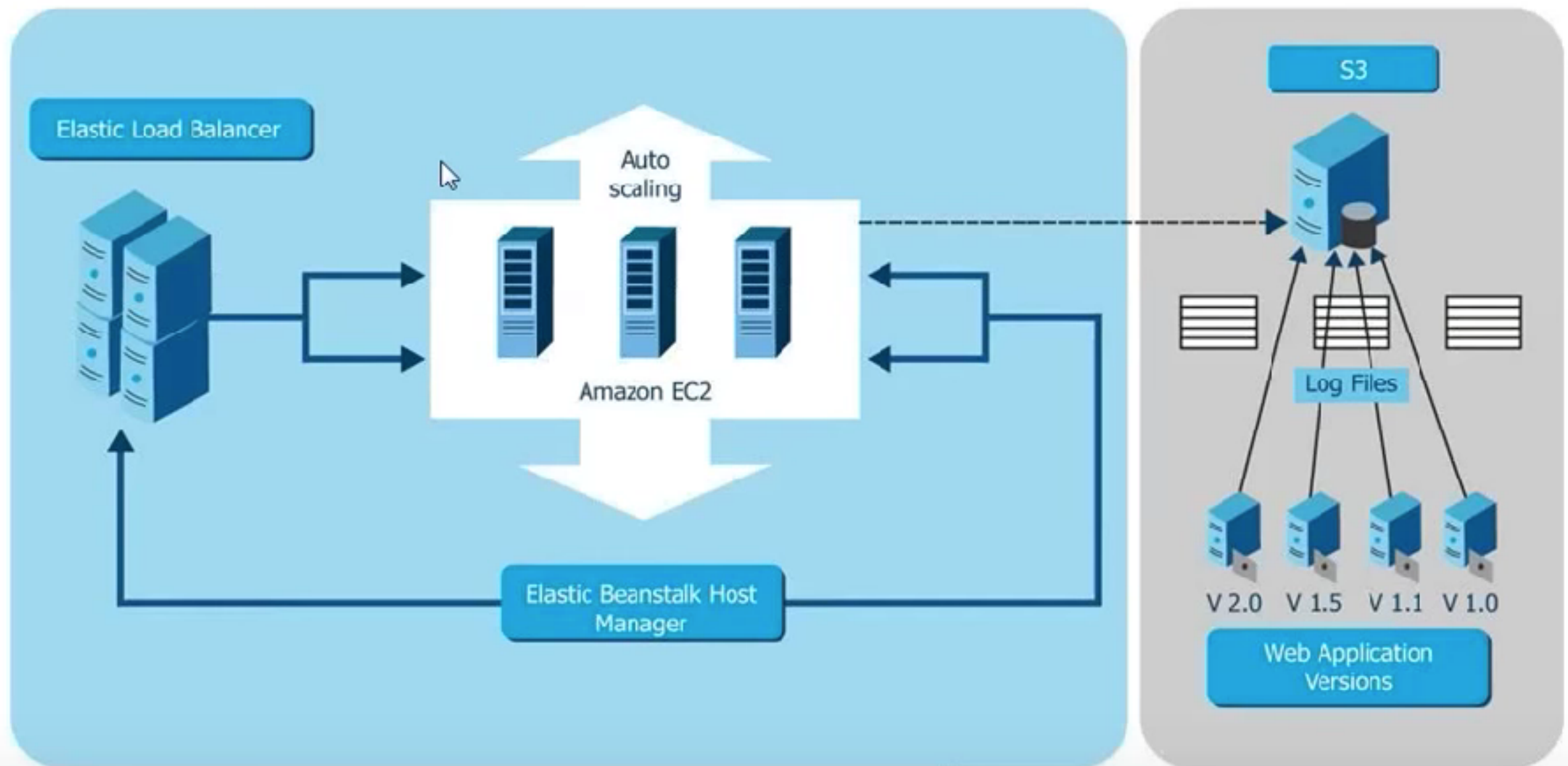
HIGHLIGHTS OF EB

- Easy to Use
Automated Scalability
- Complete Control
- Flexible
- Reliable
- Free of Cost

Why Not Use My Own App Server AMI?

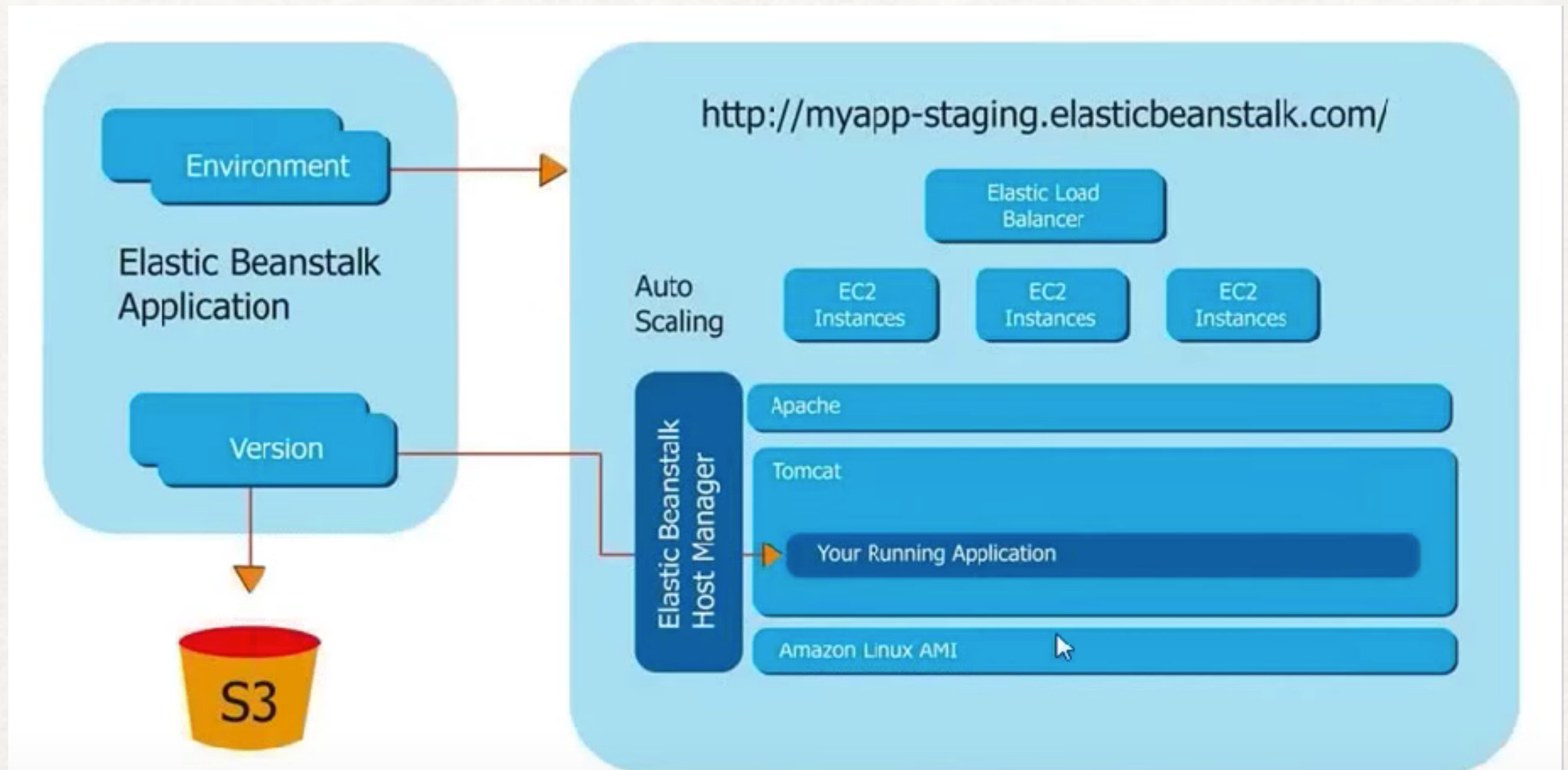
- Automated Provisioning & De-Provisioning of Environments
- Automated version deployment(Including Rollback)
- Managed Environments settings
- Built-in monitoring and notifications
 - Application Health and Other Important Events
- Basic log file rotation to Amazon S3
- Easy troubleshooting
 - Snapshot logs
 - Restart application server

FLOW OF AWS ELASTIC BEANSTALK



Architecture of EB

EXAMPLE OF AWS EB

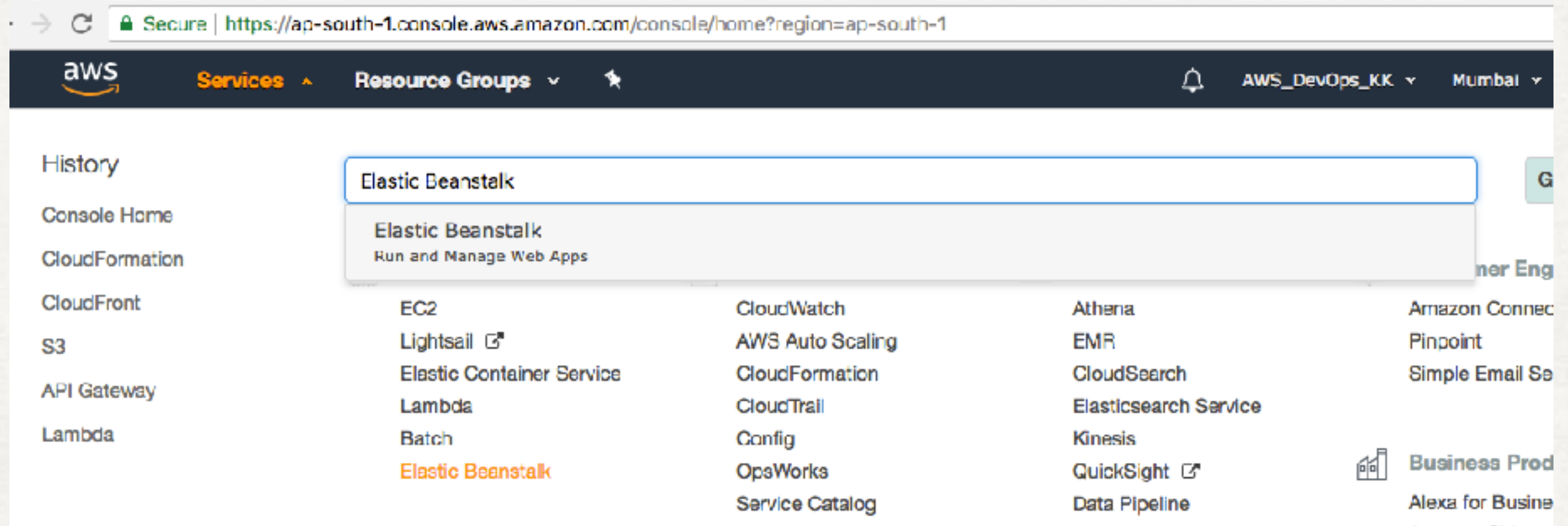


EB FLOW

HOW DO I ACCESS ELASTIC BEANSTALK?

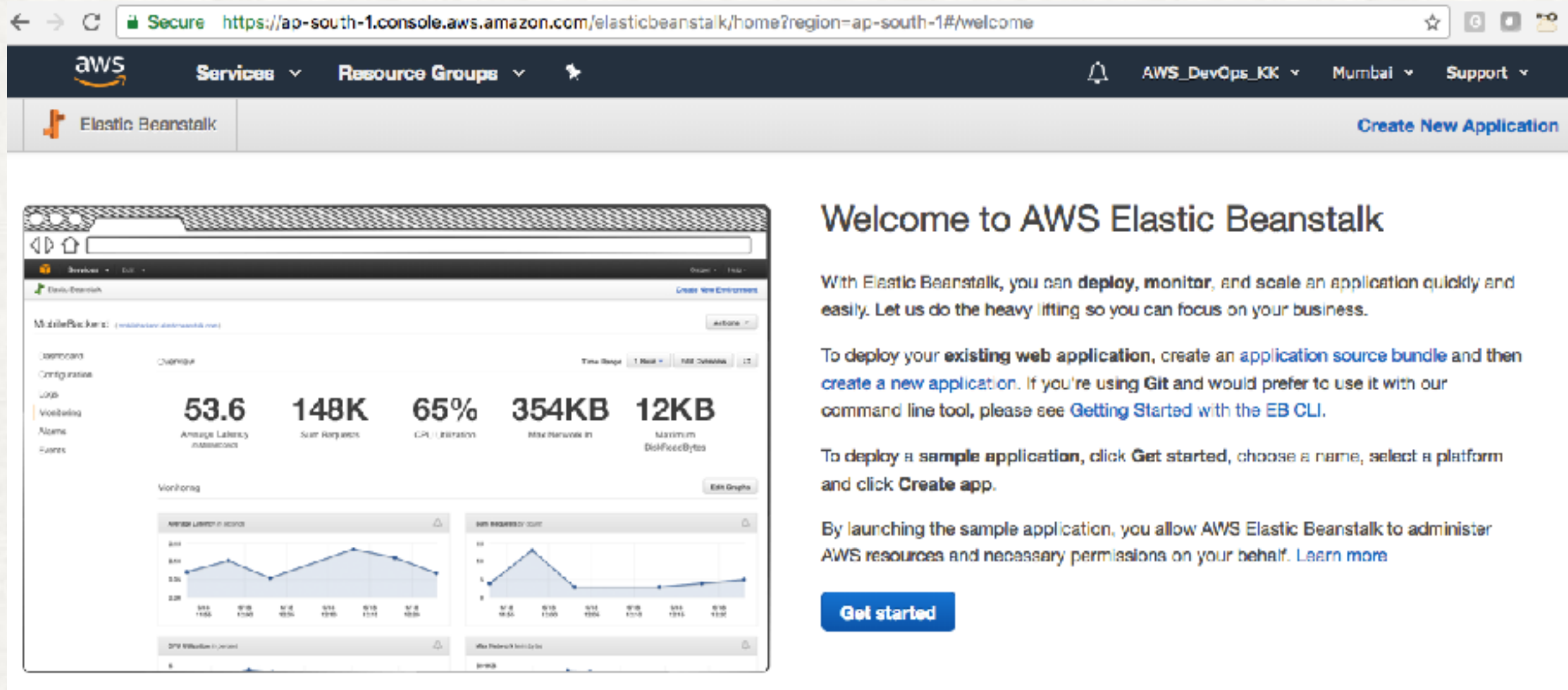
- AWS Management Console
- AWS Toolkit for Eclipse, Visual Studio
- Command Line Tools
- SDK's and API

STEP BY STEP PRACTICAL STEPS OF EB



Step-1 : Go to AWS Management Console & Search for EB

STEP-2: CLICK ON “GET STARTED”



The screenshot shows the AWS Elastic Beanstalk console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a user profile 'AWS_DevOps_KK'. The main content area is titled 'Welcome to AWS Elastic Beanstalk' and contains the following text:

With Elastic Beanstalk, you can **deploy, monitor, and scale** an application quickly and easily. Let us do the heavy **lifting** so you can focus on your business.

To **deploy** your **existing web application**, create an **application source bundle** and then **create a new application**. If you're using **Git** and would prefer to use it with our command line tool, please see [Getting Started with the EB CLI](#).

To **deploy a sample application**, click **Get started**, choose a name, select a platform and click **Create app**.

By launching the sample application, you allow AWS Elastic Beanstalk to administer AWS resources and necessary permissions on your behalf. [Learn more](#)

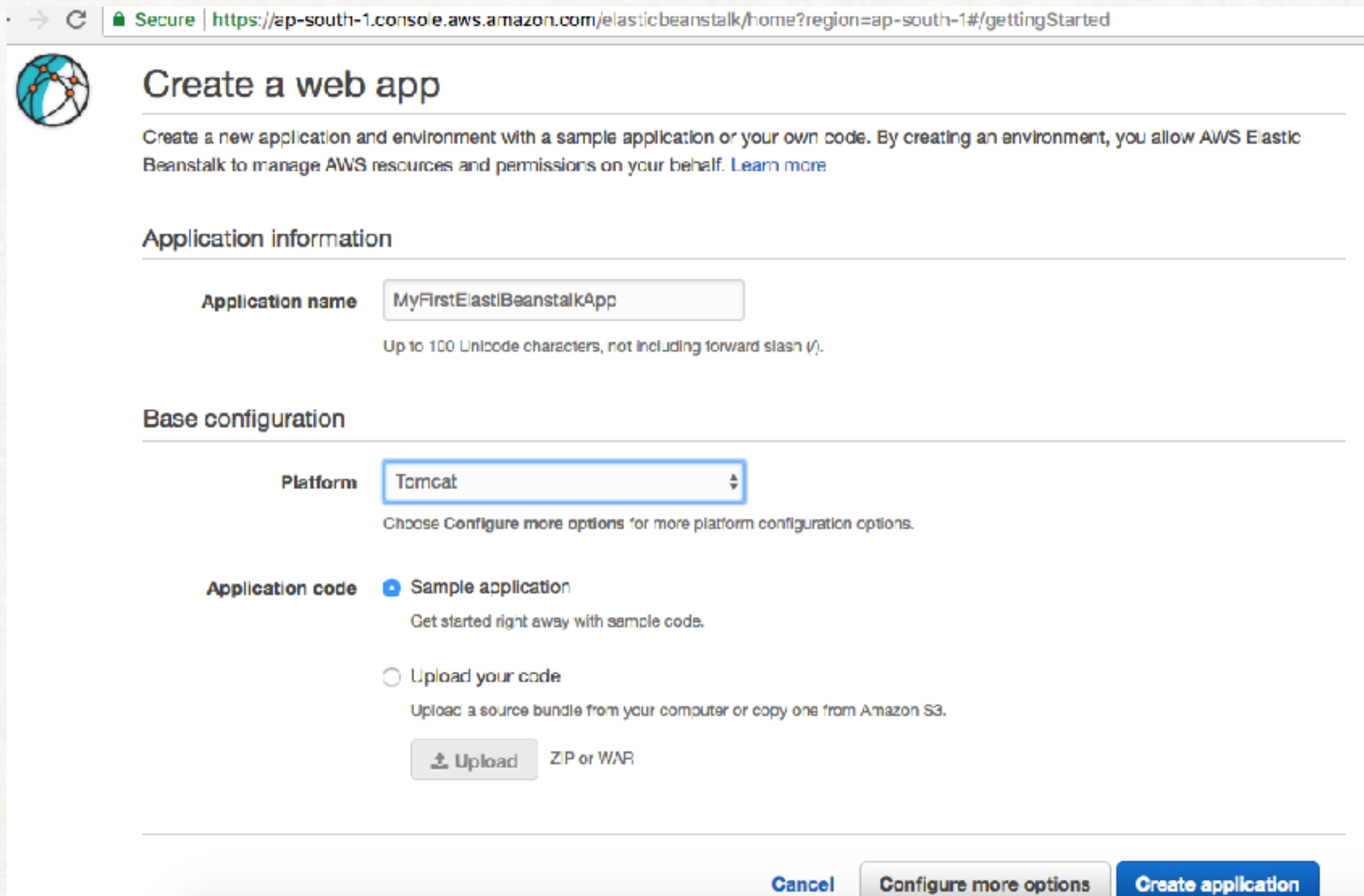
A sidebar on the left shows a 'Monitoring' section with various metrics:

- Average Latency: 53.6
- Sum Requests: 148K
- CPU Utilization: 65%
- Max Network In: 354KB
- Max Network Out: 12KB

Below these metrics are four line graphs showing trends over time for Average Latency, Sum Requests, CPU Utilization, and Max Network In/Out.

EB

STEP-3: PROVIDE APPLICATION NAME & PLATFORM



The screenshot shows the AWS Elastic Beanstalk console in the 'ap-south-1' region. The page title is 'Create a web app'. Below the title, there is a description: 'Create a new application and environment with a sample application or your own code. By creating an environment, you allow AWS Elastic Beanstalk to manage AWS resources and permissions on your behalf. [Learn more](#)'. The 'Application information' section contains a text input for 'Application name' with the value 'MyFirstElasticBeanstalkApp' and a note: 'Up to 100 Unicode characters, not including forward slash (/)'. The 'Base configuration' section has a 'Platform' dropdown menu set to 'Tomcat' with a note: 'Choose [Configure more options](#) for more platform configuration options.' Under 'Application code', the 'Sample application' radio button is selected, with the text 'Get started right away with sample code.' Below it, the 'Upload your code' radio button is unselected, with the text 'Upload a source bundle from your computer or copy one from Amazon S3.' and an 'Upload' button with the text 'ZIP or WAR' next to it. At the bottom right, there are three buttons: 'Cancel', 'Configure more options', and 'Create application'.

Secure | <https://ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/gettingStarted>

Create a web app

Create a new application and environment with a sample application or your own code. By creating an environment, you allow AWS Elastic Beanstalk to manage AWS resources and permissions on your behalf. [Learn more](#)

Application information

Application name

Up to 100 Unicode characters, not including forward slash (/).

Base configuration

Platform

Choose [Configure more options](#) for more platform configuration options.

Application code

☒ **Sample application**
Get started right away with sample code.

☐ **Upload your code**
Upload a source bundle from your computer or copy one from Amazon S3.

ZIP or WAR

Click on “Create Application”

STEP-4 : IT'S CREATING NOW!

The screenshot shows the AWS Elastic Beanstalk console interface. The browser address bar displays the URL: `https://ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/launchEnvironment?applicationName=MyFirstElastiB...`. The console header includes the AWS logo, navigation tabs for 'Services' and 'Resource Groups', and user information for 'AWS_DevOps_KK' in the 'Mumbai' region. The main navigation bar shows 'Elastic Beanstalk' and the selected application 'MyFirstElastiBeanstalkApp', with a 'Create New Application' button. The breadcrumb trail indicates the current view: 'All Applications > MyFirstElastiBeanstalkApp > Myfirstelastibeanstalkapp-env (Environment ID: e-servxtqzc2)'. A central notification box titled 'Creating Myfirstelastibeanstalkapp-env' states 'This will take a few minutes...' and displays a log of events: '12:10pm Using elasticbeanstalk-ap-south-1-631258978606 as Amazon S3 storage bucket for environment data.' and '12:10pm createEnvironment is starting.'. On the right, a 'Learn More' section provides links for 'Get started using Elastic Beanstalk', 'Modify the code', 'Create and connect to a database', and 'Add a custom domain'. Below this, a 'Featured' section links to 'Create your own custom platform', and a 'Command Line Interface (v3)' section links to 'Installing the AWS EB CLI' and 'EB CLI Command Reference'.

← → ↻ Secure | <https://ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/launchEnvironment?applicationName=MyFirstElastiB...> ☆

aws Services ▾ Resource Groups ▾

Elastic Beanstalk MyFirstElastiBeanstalkApp ▾ Create New Application

All Applications > MyFirstElastiBeanstalkApp > Myfirstelastibeanstalkapp-env (Environment ID: e-servxtqzc2) Actions ▾

i Creating Myfirstelastibeanstalkapp-env
This will take a few minutes...

12:10pm Using elasticbeanstalk-ap-south-1-631258978606 as Amazon S3 storage bucket for environment data.
12:10pm createEnvironment is starting.

Learn More

- [Get started using Elastic Beanstalk](#)
- [Modify the code](#)
- [Create and connect to a database](#)
- [Add a custom domain](#)

Featured


- [Create your own custom platform](#)

Command Line Interface (v3)

- [Installing the AWS EB CLI](#)
- [EB CLI Command Reference](#)

Observe the output

STEP-5 : IT'S CREATED!

 Elastic Beanstalk

MyFirstElastiBeanstalkApp ▾

Create New Application

[All Applications](#) > [MyFirstElastiBeanstalkApp](#) > [Myfirstelastibeanstalkapp-env](#) (Environment ID: a-servxtqzc2, URL: Myfirstelastibeanstalkapp-a-nv.w5zpx2jg5h.ap-south-1.elasticbeanstalk.com)

Dashboard

Configuration

Logs

Health

Monitoring

Alarms

Managed Updates

Events

Tags

Overview Refresh



Health
Ok
[Causes](#)

Running Version
Sample Application
[Upload and Deploy](#)


Configuration
Tomcat 8 with Java 8 running on
64bit Amazon Linux/2.8.0
[Change](#)

Navigate each tab which is located at Left Side Panel

STEP-6: GO THROUGH ALL THE LEFTSIDE PANEL TABS

Dashboard

Configuration

Logs

Health

Monitoring

Alarms

Managed Updates

Events

Tags

Events

Refresh

SeverityTRACE

2018-03-25 12:15:00 UTC+05302018-05-13 12:18:00 UTC+0530

Time	Type	Details
2018-05-13 12:13:10 UTC+0530	INFO	Successfully launched environment: Myfirstelastibeanstalkapp-env
2018-05-13 12:12:45 UTC+0530	INFO	Environment health has transitioned from Pending to Ok. Initialization completed 9 seconds ago and took 2 minutes.
2018-05-13 12:11:46 UTC+0530	INFO	Added instance [j-00d1524174c7f2250] to your environment.
2018-05-13 12:11:37 UTC+0530	INFO	Waiting for EC2 instances to launch. This may take a few minutes.
2018-05-13 12:10:49 UTC+0530	INFO	Created EIP: 52.56.134.146
2018-05-13 12:10:46 UTC+0530	INFO	Environment health has transitioned to Pending. Initialization in progress (running for 24 seconds). There are no instances.
2018-05-13 12:10:33 UTC+0530	INFO	Created security group named: awseb-e-servxtqzc2-stack-AWSEBSecurityGroup-U1W7LNN3AGW5
2018-05-13 12:10:09 UTC+0530	INFO	Using elasticbeanstalk-ap-south-1-631258978805 as Amazon S3 storage bucket for environment data.
2018-05-13 12:10:08 UTC+0530	INFO	createEnvironment is starting.

We are looking at one of the TAB output i.e. Events

STEP-7 : CHECK THE CLI COMMANDS

Learn More

- [Get started using Elastic Beanstalk](#)
- [Modify the code](#)
- [Create and connect to a database](#)
- [Add a custom domain](#)

Featured

- [Create your own custom platform](#)

Command Line Interface (v3)

[Installing the AWS EB CLI](#)
[EB CLI Command Reference](#)

If you want to use a command line to create, manage, and scale your Elastic Beanstalk applications, please use the Elastic Beanstalk Command Line Interface (EB CLI).

Get Started

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

To deploy updates to your applications, use 'eb deploy'.

All Applications

Filter by Application Name:

MyFirstElastiBeanstalkApp Actions ▾

Myfirstelastibeanstalkapp-env

Environment tier: Web Server

Platform: Tomcat 8 with Java 8 running on 64bit Amazon Linux/2.8.0

Running versions: Sample Application

Last modified: 2018-05-13 12:13:10 UTC+0530

URL: Myfirstelastibeanstalkapp-env.w5zpx2jg5h...

AWS CLI Commands

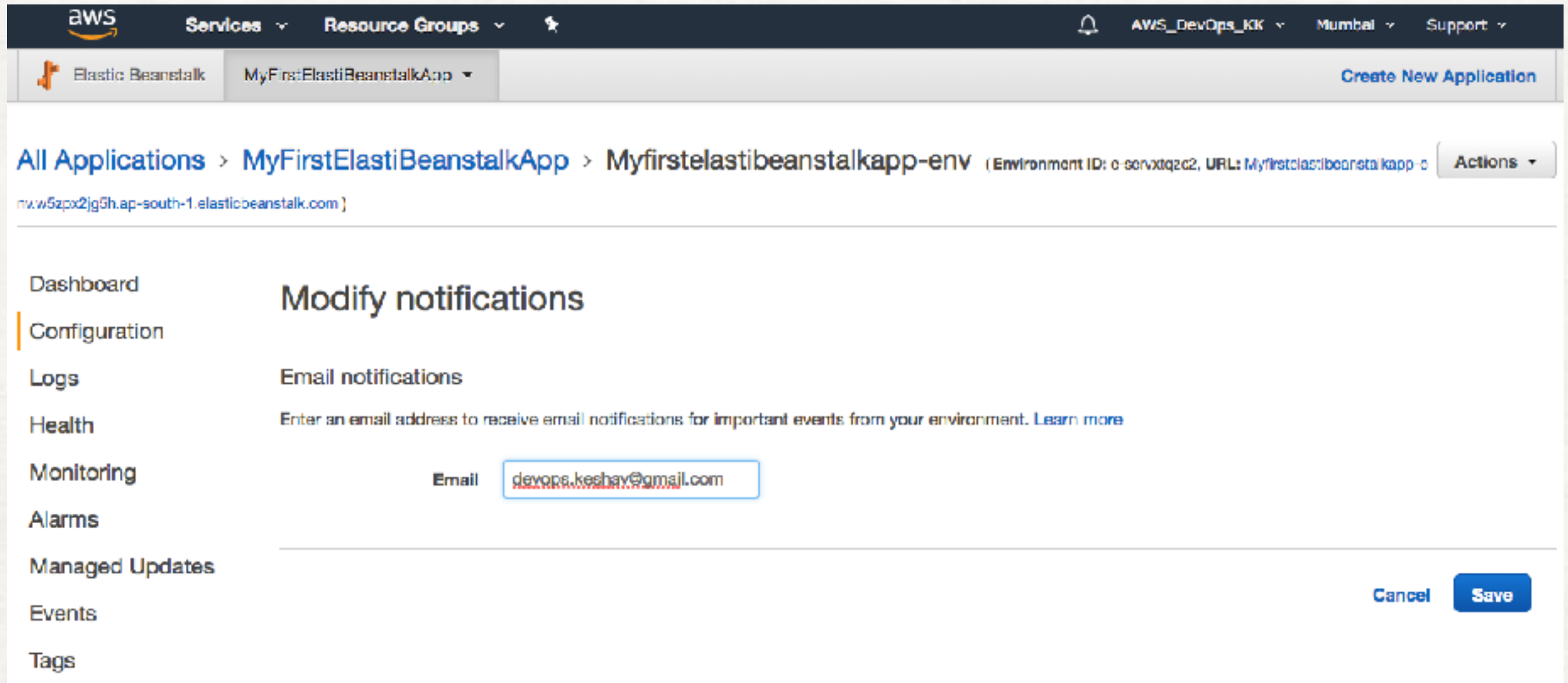
STEP-8: DO REQUIRED CONFIGURATION CHANGES

- Add “Private Key”

The screenshot shows the AWS Elastic Beanstalk console interface. At the top, there's a navigation bar with the AWS logo, 'Services', 'Resource Groups', and user information. Below this, a breadcrumb trail shows 'All Applications > MyFirstElasticBeanstalkApp > Myfirstelastibeanstalkapp-env'. The left sidebar contains a list of navigation options: Dashboard, Configuration (highlighted with an orange bar), Logs, Health, Monitoring, Alarms, Managed Updates, Events, and Tags. The main content area is titled 'Modify security' and contains three sections: 'Service role' with a dropdown menu showing 'aws-elasticbeanstalk-service-role', 'Virtual machine permissions' with 'EC2 key pair' set to 'aws-Server0' and 'IAM instance profile' set to 'aws-elasticbeanstalk-ec2-role' (the latter is highlighted with a blue border), and 'Cancel' and 'Save' buttons at the bottom right.

Click on Save

STEP-9: ADD EMAIL ID FOR ALERTS



The screenshot shows the AWS Elastic Beanstalk console. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The breadcrumb trail is 'All Applications > MyFirstElasticBeanstalkApp > Myfirstelastibeanstalkapp-env'. The left sidebar lists navigation options: Dashboard, Configuration (highlighted), Logs, Health, Monitoring, Alarms, Managed Updates, Events, and Tags. The main content area is titled 'Modify notifications' and contains the 'Email notifications' section. It prompts the user to 'Enter an email address to receive email notifications for important events from your environment.' The 'Email' field is labeled and contains the text 'devops.keshav@gmail.com', which is highlighted with a red box. At the bottom right, there are 'Cancel' and 'Save' buttons.

aws Services Resource Groups

Elastic Beanstalk MyFirstElasticBeanstalkApp Create New Application

All Applications > MyFirstElasticBeanstalkApp > Myfirstelastibeanstalkapp-env (Environment ID: e-servxtqz2, URL: Myfirstelastibeanstalkapp-nw.w5zpx2jg5h.ap-south-1.elasticbeanstalk.com) Actions

Dashboard

Configuration

Logs

Health

Monitoring

Alarms

Managed Updates

Events

Tags

Modify notifications

Email notifications

Enter an email address to receive email notifications for important events from your environment. [Learn more](#)

Email

Cancel Save

Click on "Save"

STEP-10 : ADD DB PARAMETERS

Database settings

Choose an engine and instance type for your environment's database.

Engine

Engine version

Instance class

Storage

Choose a number between 5 GB and 1024 GB.

Username

Password

Retention

When you terminate your environment, your database instance is also terminated. Choose **Create snapshot** to save a snapshot of the database prior to termination. Snapshots incur standard storage charges.

Availability

[Cancel](#)

[Save](#)

Click on "Save"

STEP-11: MODIFY THE AUTO SCALING GROUP AS PER THE REQUIREMENT

Logs

Health

Monitoring

Alarms

Managed Updates

Events

Tags

Auto Scaling Group

Configure the compute capacity of your environment and Auto Scaling settings to optimize the number of instances used.

Environment type

Single instance

Instances

Min

1

Max

1

Availability Zones

Any

Number of Availability Zones (AZs) to use.

Placement

ap-south-1a
ap-south-1b

Specify Availability Zones (AZs) to use.

Scaling cooldown

360

seconds

Time-based Scaling

Use the following settings to control time-based scaling actions. [Learn more](#)

Current status

1 instance(s) in service, Min: 1, Max: 1

Time zone

☒ UTC ☐ Local

Actions

Add scheduled action

<input type="checkbox"/>	Name	Min	Max	Desired	Next occurrence (UTC)
--------------------------	------	-----	-----	---------	-----------------------

Edit required things

STEP-12: ADD AUTOSCALING GROUP

← → ↻ Secure | <https://ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/environment/configuration?application>

Logs	Auto Scaling Group	
Health	Configure the compute capacity of your environment and Auto Scaling settings to optimize the number of instances used.	
Monitoring	Environment type	Load balanced
Alarms	Instances	Min 1 Max 4
Managed Updates	Availability Zones	Any
Events		Number of Availability Zones (AZs) to use.
Tags	Placement	ap-south-1a ap-south-1b
		Specify Availability Zones (AZs) to use.
	Scaling cooldown	360 seconds

Select Load Balancer & Add the AutoScaling

ADD AUTO SCALING

Scaling triggers

Metric NetworkOut

Change the metric that is monitored to determine if the environment's capacity is too low or too high.

Statistic Average

Choose how the metric is interpreted.

Unit Bytes

Period 5 Min

The period between metric evaluations.

Breach duration 5 Min

The amount of time a metric can exceed a threshold before triggering a scaling operation.

Upper threshold 75 Bytes

Scale up increment 1 EC2 instances

Lower threshold 10 Bytes

Scale down increment -1 EC2 instances

Click on "Save"

STEP-13: PART OF CONFIGURATION TAB, WE HAVE MODIFIED FEW

[All Applications](#) > [MyFirstElastiBeanstalkApp](#) > [Myfirstelastibeanstalkapp-env](#) (Environment ID: e-scrvxtqpc2, URL: Myfirstelastibeanstalkapp-nrv.w5zpx2jg5h.ap-south-1.elasticbeanstalk.com)

[Dashboard](#)
[Configuration](#)
[Logs](#)
[Health](#)
[Monitoring](#)
[Alarms](#)
[Managed Updates](#)
[Events](#)
[Tags](#)

Configuration overview

Software

AWS X-Ray: enabled
Rotate logs: disabled (default)
Log streaming: disabled (default)
Environment properties: 2

[Modify](#)

Instances

EC2 instance type: t2.micro
EC2 image ID: ami-0ed3f063
Monitoring interval: 5 minute
Root volume type: container default
Root volume size (GB): container default
Root volume IOPS: container default
Security groups: sg-085d6ac5a5d28aa61

[Modify](#)

Capacity

Environment type: load balancing, auto scaling
Availability Zones: Any
Instances: 1-4

[Modify](#)

Load balancer

Load balancer type: classic
Listeners: 1
Session stickiness: disabled
Cross-zone load balancing: disabled
Connection draining: disabled (default)

[Modify](#)

Rolling updates and deployments

Deployment policy: All at once
Rolling updates: disabled
Health check: enabled

[Modify](#)

Security

Service role: aws-elasticbeanstalk-service-role
Virtual machine key pair: --
Virtual machine instance profile: aws-elasticbeanstalk-ec2-role

[Modify](#)

[Cancel](#)[Apply configuration](#)

Scroll Down

PAGE 2

Monitoring

Health check path: *blank*

Health reporting system: Enhanced

Modify

Managed updates

Managed updates: disabled

Modify

Notifications

Email address: --

Modify

Network

This environment is not part of a VPC.

Database

Engine: --

Instance class: --

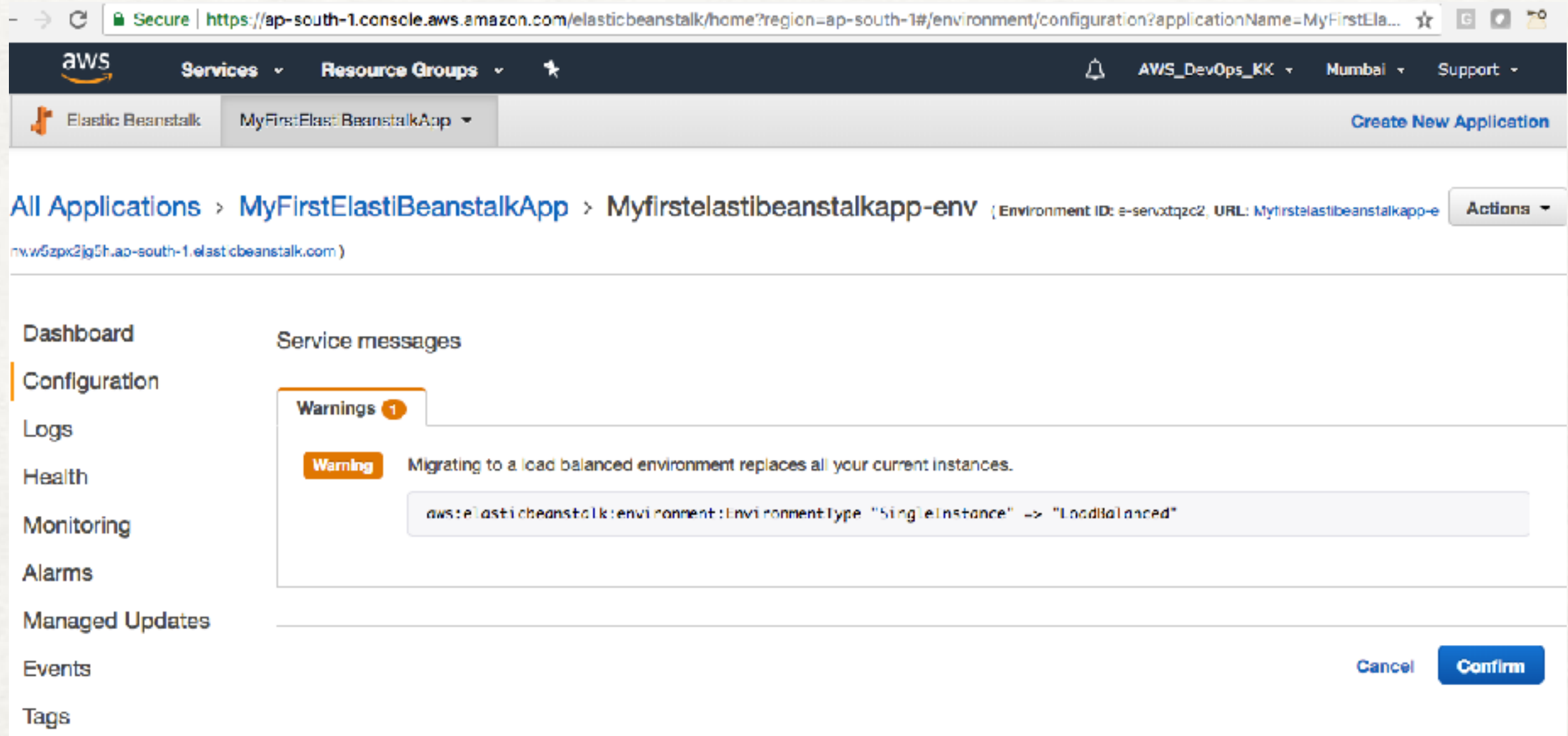
Storage (GB): --

Multi-AZ: --

Modify

Scroll Up & Click on “Apply Configuration”

STEP-14 : APPLYING ALL THE CONFIGURATION CHANGES WERE MADE BY US



The screenshot shows the AWS Elastic Beanstalk console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The breadcrumb trail indicates the path: 'All Applications > MyFirstElasticBeanstalkApp > Myfirstelastibeanstalkapp-env'. A warning message is displayed, stating: 'Migrating to a load balanced environment replaces all your current instances.' Below this, a code snippet shows the environment type change: 'aws:elasticbeanstalk:environment:EnvironmentType "SingleInstance" => "LoadBalanced"'. At the bottom right, there are 'Cancel' and 'Confirm' buttons.

Dashboard

Configuration

Logs

Health

Monitoring

Alarms

Managed Updates

Events

Tags

Service messages

Warnings 1

Warning

Migrating to a load balanced environment replaces all your current instances.

aws:elasticbeanstalk:environment:EnvironmentType "SingleInstance" => "LoadBalanced"

Cancel Confirm

Click on "Confirm"

STEP-15: CROSS CHECK THE RESOURCES

https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:sort=InstanceState

services ▾ Resource Groups ▾

Launch Instance ▾ Connect Actions ▾

Filter by tags and attributes or search by keyword ? |< < 1 to 2 of 2 > >|

<input type="checkbox"/>	Name ▾	Instance ID ▾	Instance Type ▾	Availability Zone ▾	Instance State ▴	Status Checks ▾	Alarm Status	Pul
<input checked="" type="checkbox"/>	Myfirstelastibeanstalkapp-env	i-00d1524174c7f2250	t2.micro	ap-south-1b	● running	✓ 2/2 checks ...	None	ec2
<input type="checkbox"/>	dev.example.com	i-0e0f0c0188496bd0e	t2.micro	ap-south-1a	● stopped		None	

Instance: **i-00d1524174c7f2250 (Myfirstelastibeanstalkapp-env)** Elastic IP: 52.66.134.146

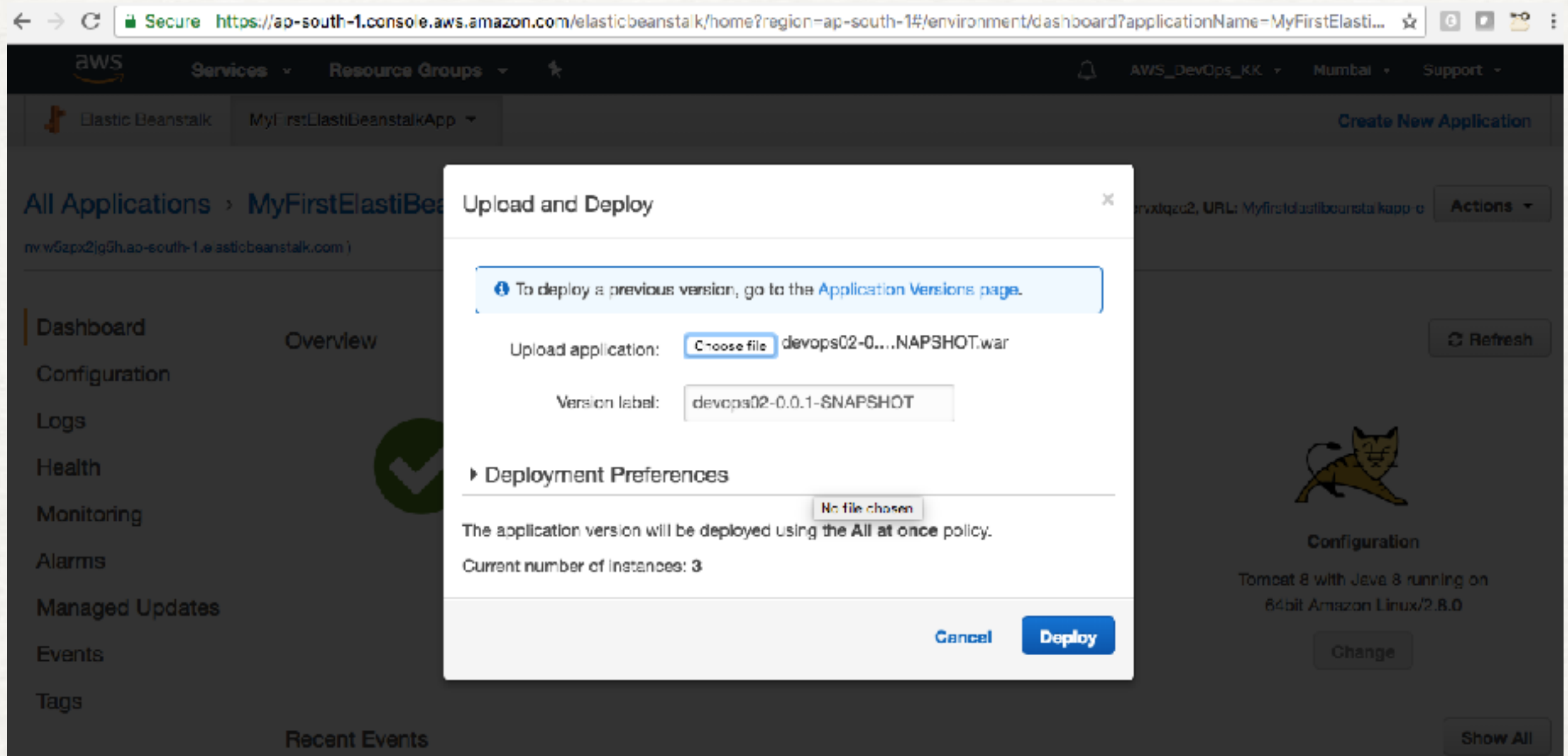
Description Status Checks Monitoring Tags

Instance ID	i-00d1524174c7f2250	Public DNS (IPv4)	ec2-52-66-134-146.ap-south-1.compute.amazonaws.com
Instance state	running	IPv4 Public IP	52.66.134.146
Instance type	t2.micro	IPv6 IPs	-
Elastic IPs	52.66.134.146*	Private DNS	ip-172-31-8-216.ap-south-1.compute.internal
Availability zone	ap-south-1b	Private IPs	172.31.8.216
Security groups	awseb-o-scrvxtqz2-stack-AWSEBSecurityGroup-U1W7LNN3AGW5. view inbound rules	Secondary private IPs	
Scheduled events	No scheduled events	VPC ID	vpc-38a52f50
AMI ID	aws-elasticbeanstalk-amzn-	Subnet ID	subnet-9d19e6d1

EC2 Instance is created

STEP-16 : CLICK ON UPLOAD & DEPLOY A JAVA BUILD

- On my Local Machine I have Have build i.e. devops02-0.0.1-SNAPSHOT.war file



Upload a .war file

Click on Deployment Preference & Check the configuration

Upload and Deploy

To deploy a previous version, go to the [Application Versions page.](#)

Upload application:

Choose file

devops02-0...NAPSHOT.war

Version label:

devops02-0.0.1-SNAPSHOT

Deployment Preferences

Deployment policy:

All at once

Healthy threshold:

Ok

Ignore health check:

False

Batch size:

☒ Percentage

100

% of instances at a time

☐ Fixed

1

instances at a time (max: 4)

The application version will be deployed using the **All at once** policy.

Current number of instances: 3

Click on Deploy

STEP-17 : CLICK ON APPLICATIONS VERSIONS & CHECK THE LIST OF VERSIONS

Secure <https://ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/application/versions?applicationName=MyFirstElastiBea...>

aws Services - Resource Groups - AWS_DevOps_KK - Mumbai - Support -

Elastic Beanstalk MyFirstElastBeanstalkApp Create New Application

All Applications > MyFirstElastiBeanstalkApp

Environments

Application versions

Saved configurations

Settings Delete Deploy Upload Refresh

<input type="checkbox"/>	Version Label	Description	Date Created	Source	Deployed To
<input type="checkbox"/>	devops02-0.0.1-SNAPSHOT		2018-05-13 13:23:58 UTC+0530	201813307w-devops02-0.0.1-SNAPSHOT.war	
<input type="checkbox"/>	Sample Application		2018-05-13 12:10:07 UTC+0530	Sample Application	Myfirstelastibeanstalkapp-env

STEP-18 : JAVA BUILD HAS BEEN DEPLOYED TO TOMCAT

Secure | <https://ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/environment/dashboard?applicationName=MyFirstElasti...>

aws Services ▾ Resource Groups ▾

Elastic Beanstalk MyFirstElastiBeanstalkApp ▾ Create New Application

All Applications > MyFirstElastiBeanstalkApp > Myfirstelastibeanstalkapp-env (Environment ID: e-servxtqzcd2, URL: Myfirstelastibeanstalkapp-0-nw.w5zpx2jg5h.ap-south-1.elasticbeanstalk.com) Actions ▾

Dashboard Overview Refresh

Configuration

Logs

Health


Monitoring

Alarms


Managed Updates

Events

Tags

 Health **Ok** Causes

Running Version devops02-0.0.1-SNAPSHOT Upload and Deploy

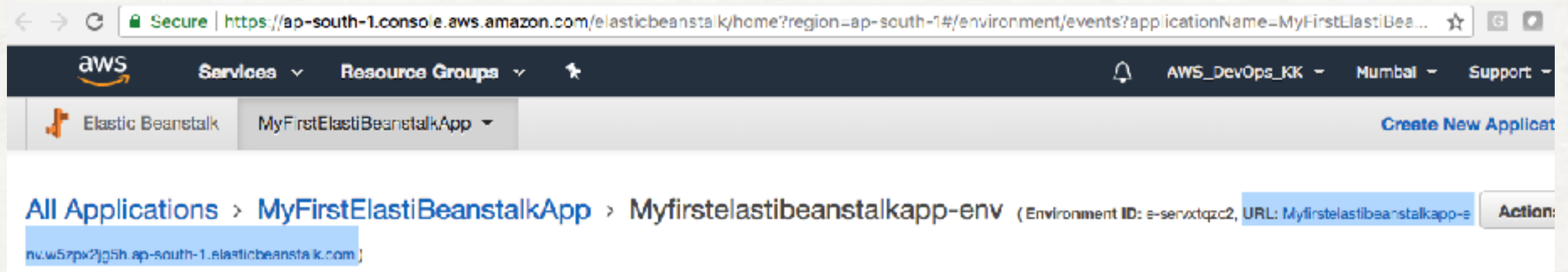
 Configuration Tomcat 8 with Java 8 running on 64bit Amazon Linux/2.8.0 Change

Recent Events Show All

Time	Type	Details
2018-05-13 13:25:09 UTC+0530	INFO	Environment update completed successfully.

Go to Events check the steps

COPY THE URL & GO TO BROWSER & CHECK



<http://myfirstelastibeanstalkapp-env.w5zpx2jg5h.ap-south-1.elasticbeanstalk.com/>



Java Application is Up!

SUMMARY & EXAM TIPS

- You can have multiple versions of your applications
- Your applications can be split in to tiers(Web Tier/Application Tier/Database Tier)
- You can update your application
- You can update your configuration
- Updates can be 1 instance at a time, a % of instances or an immutable update
- You pay for the resources that you use, but Elastic Beanstalk is free
- If elastic beantalk creates your RDS database then it will delete it when you delete your application.
- If not then the RDS instance stays
- Know what languages are supported!

- Apache Tomcat for Java applications
- Apache HTTP Server for PHP applications
- Apache HTTP Server for Python applications
- Nginx or Apache HTTP Server for Node.js applications
- Passenger or Puma for Ruby applications
- Microsoft IIS 7.5, 8.0 for .NET applications
- Java SE
- Docker
- GO