

AWS Elastic Beanstalk

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What is Elastic Beanstalk?

An even easier way for developers to quickly deploy and manage applications in the AWS cloud.

Upload and launch applications to AWS in minutes.

Retain control over the underlying

Create my first application

- Launch a sample application
Launch a sample application to learn how AWS Elastic Beanstalk works. You can create and upload your own application later.
- Upload your own application

Launch Application ▶

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Who Should Use Elastic Beanstalk?

Java developers with web applications
targeting the Apache Tomcat software stack

Elastic Beanstalk is designed so that it can be extended to support multiple development stacks and programming languages in the future.



What Makes Elastic Beanstalk Different?

Developers retain ownership and full control over their AWS resources.

Root access to your EC2 instances

Easily manage configuration changes in one place

EC2 instance type, security group, load balancer settings, auto-scaling, multi-AZ, notifications, and other settings.

Use any database

Amazon RDS, Amazon SimpleDB, Microsoft SQL Server, or Oracle.

Create custom AMIs

Run other services side-by-side in EC2

Easily move your application out of Elastic Beanstalk



Why Not Use My Own Tomcat AMI?

Automated (de)provisioning of environments

Automated version deployment (including rollback)

Managed environment 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



How Do I Access Elastic Beanstalk?

AWS Management Console

AWS Toolkit for Eclipse

Command Line Tools

SDKs and API



Launch New Environment Details

Launch New Environment Cancel

ENVIRONMENT DETAILS CONFIGURATION DETAILS REVIEW

Enter the details below to create and launch a new environment for your application. Launching a new environment may take several minutes. [Learn more about launching new environments.](#)

Environment Name:

Environment URL:
http://.elasticbeanstalk.com

Description: (optional, 200 char maximum)

Version:

Select an existing application version

Upload and use a new application version

Container Type:



Launch New Environment Configuration

Launch New Environment Cancel

ENVIRONMENT DETAILS **CONFIGURATION DETAILS** REVIEW

We will be launching your environment with the following default configuration. Modify the defaults before launch or just click **Continue**.

Instance Type:
The instance type determines the processing power of the servers in your environment.

Existing Key Pair:
Key pairs are used to enable remote login to your instances.

Email Address:
We can notify you via email of any major changes to your environment.

Application Health Check URL:
We continually monitor your application to make sure it's available. What relative URL would you like us to monitor?

[< Back](#) [Continue](#)



Console for Elastic Beanstalk

Application

The screenshot displays the AWS Elastic Beanstalk console interface. At the top, there is a navigation bar with various AWS services like S3, EC2, VPC, CloudWatch, Elastic MapReduce, CloudFront, CloudFormation, RDS, and SNS. Below this, the console shows the 'Application Details' section for an application named 'Second Life Datacenter'. The 'Overview' tab is selected, showing the application's description, creation date (2011-01-16 14:45 PST), and options to edit the description or delete the application. Below this, the 'Second Life Datacenter Environments' section shows a single environment named 'sldc-prod1' which is successfully running version 'v14'. The 'Environment Details' tab is selected, displaying the URL (http://sldc-prod1.elasticbeanstalk.com), running version (v14), container type (64bit Amazon Linux running Tomcat 6), and change date (2011-03-16 13:13 PDT). There are also options to deploy a different version or edit the configuration. Green arrows point from text labels to specific parts of the interface: 'Application' points to the application name, 'All Versions' points to the 'Versions' tab, 'Environment and Running Version' points to the environment details, and 'Edit Configuration' points to the 'Edit Configuration' link.

All Versions

Environment
and Running
Version

Edit
Configuration



Console - Edit Environment Configuration

Edit Configuration Cancel X

Edit the attributes of your configuration below. When you are finished making edits, click "Apply Changes".

Server Load Balancer Auto Scaling Database Notifications Container

These settings allow you to control your environment's servers and enable login. [Learn more >>](#)

- * **EC2 Instance Type**
Note: Pick the instance type that best meets your compute, memory, and cost needs.
- * **EC2 Security Groups**
- * **Existing Key Pair**
Note: Key pairs are used to enable login to your instances.
- * **Monitoring Interval**
- * **Custom AMI ID**

Note: * The environment will be rebuilt when changing these configuration settings. Your application may be unavailable for several minutes.

Cancel Apply Changes



AWS Toolkit for Eclipse - New Environment

New Server

Define a New Server

Choose the type of server to create

[Download additional server adapters](#)

Select the server type:

type filter text

- Amazon Web Services
 - AWS Elastic Beanstalk for Tomcat 6**
- Apache
- Basic
- IBM
- JBoss
- ObjectWeb
- Oracle

An AWS-managed Apache Tomcat application server

Server's host name: localhost

Server name: AWS Elastic Beanstalk for Tomcat 6 at localhost

Server runtime environment: Apache Tomcat v6.0 in AWS Elastic Beanstalk [Add...](#)


[Configure runtime environments...](#)

[?](#) [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

New Server

Configure Application and Environment

Choose a name for your application and environment



Region: US-East (Northern Virginia)

AWS regions are geographically isolated, allowing you to position your Elastic Beanstalk application closer to you or your customers.

Application:

Create a new application:

Name:

Description:

Choose an existing application: Second Life Datacenter

Environment:

Name: testthis

Description:

[Import an existing environment into the Servers view](#)

[?](#) [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

AWS Toolkit for Eclipse - Edit Configuration

Save the editor to apply your changes to your AWS Elastic Beanstalk environment. Changing a configuration value marked with * will cause your application server to restart. Changing a value marked with ** will cause your environment to restart. Your environment will become unavailable for 5 minutes.

Server

These settings allow you to control your environment's servers and enable login.

EC2 Instance Type **

EC2 Security Groups **

Existing Key Pair **

Name
✓ brianwhkey
✓ brianwhkey2011

Monitoring Interval **

Custom AMIID **

Auto Scaling

Auto-scaling automatically launches or terminates EC2 instances based on defined metrics and thresholds called triggers. Auto-scaling will launch a new EC2 instance in the event of a failure. These settings allow you to control auto-scaling behavior.

Minimum Instance Count

Maximum Instance Count

Availability Zones

Scaling Cooldown Time (seconds)

Scaling Trigger

Trigger Measurement

Trigger Statistic

Unit of Measurement

Measurement Period (seconds)

Breach Duration (seconds)

Upper Threshold

Scale-up Increment

Lower Threshold

Scale-down Increment

Load Balancing

These settings allow you to control the behavior of your environment's load balancer.

HTTP Port

HTTPS Port

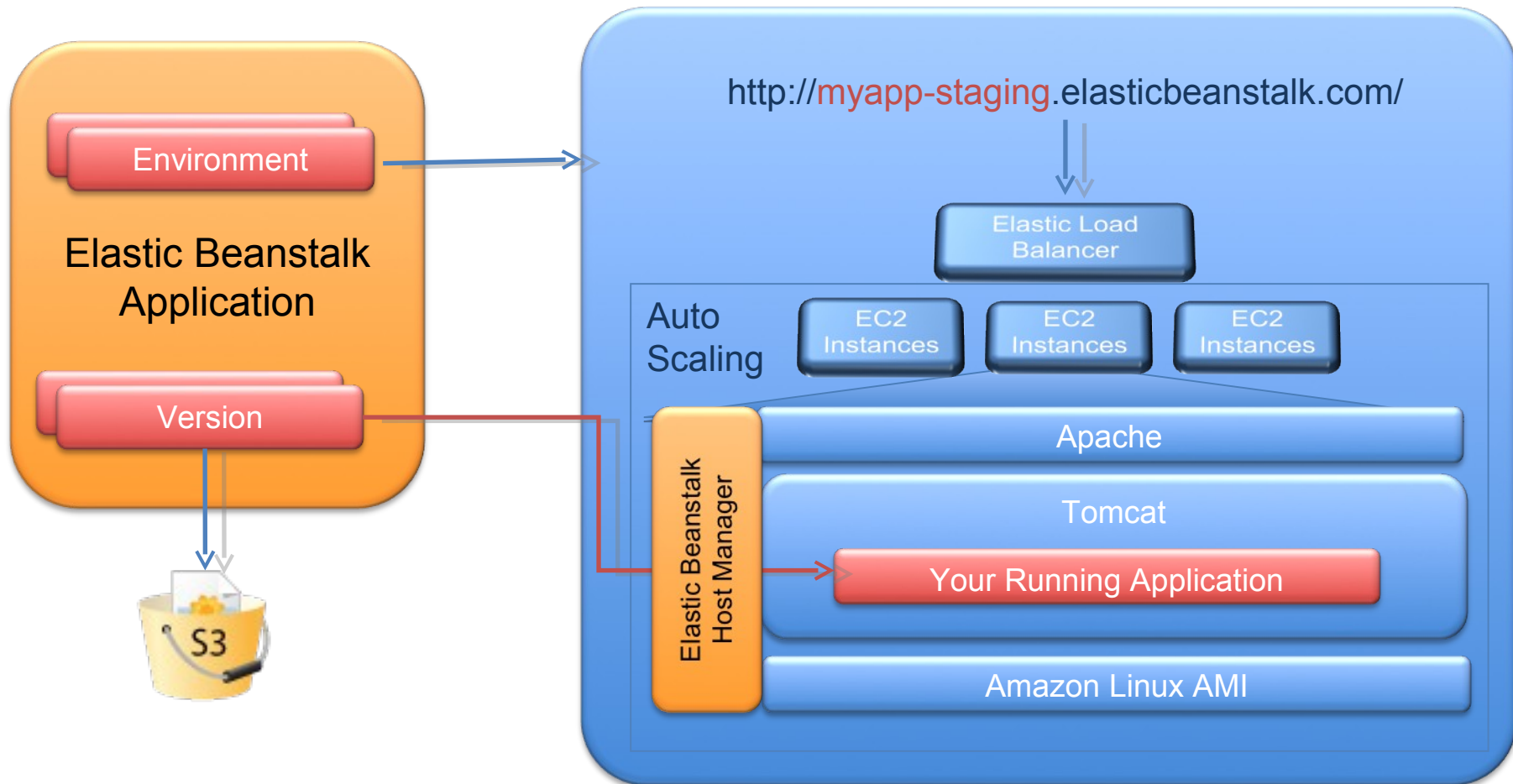
SSL Certificate Id

EC2 Instance Health Check

These settings allow you to configure how AWS Elastic Beanstalk



Elastic Beanstalk Under-the-Hood



What Does Elastic Beanstalk Cost?

No additional charge.

Pay only for the AWS resources used.



Questions?

For more information

<http://aws.amazon.com/elasticbeanstalk>

<http://aws.amazon.com/documentation/elasticbeanstalk/>

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