

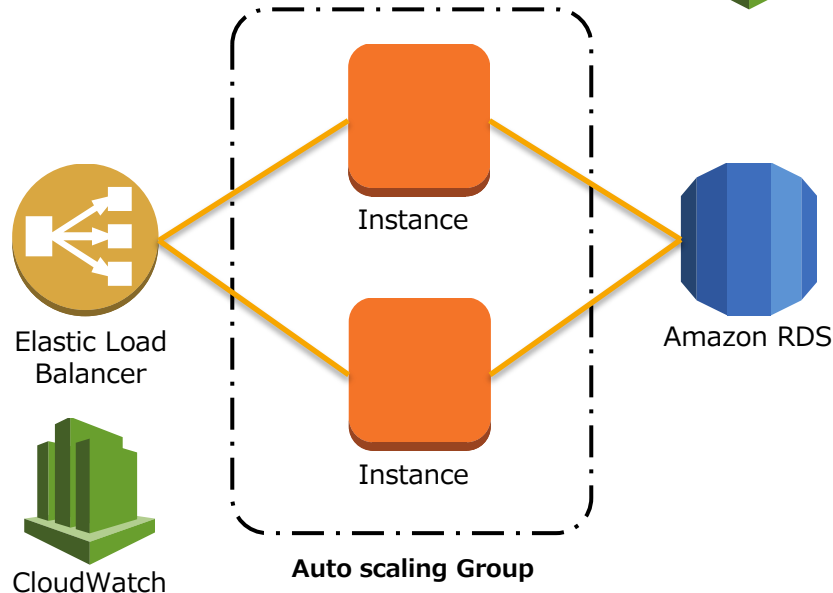
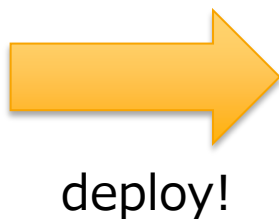
はじめてのElastic Beanstalk

Amazon Data Services Japan



Elastic Beanstalkとは

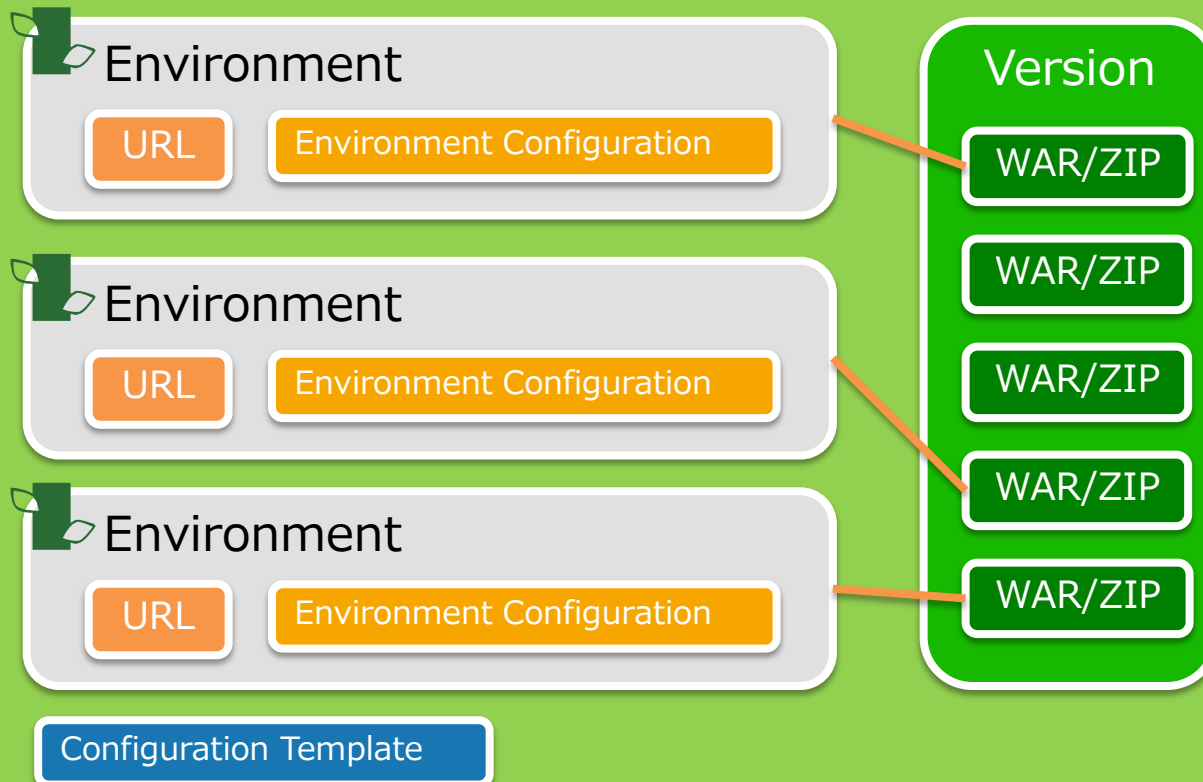
- AWS上のベストプラクティス構成を自動作成
- コードをデプロイするだけでWebアプリケーションを開始



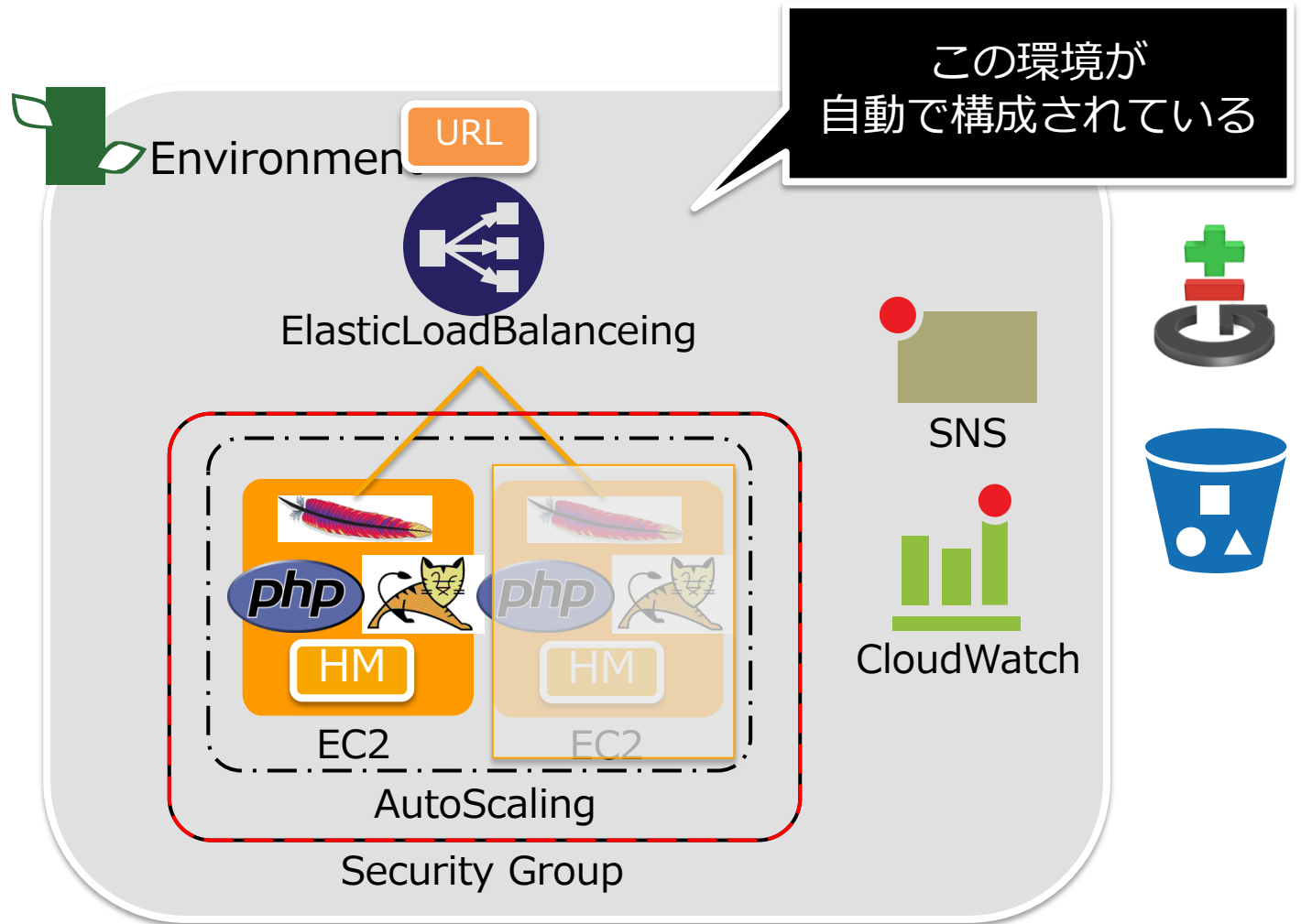
ElasticBeanstalkの論理構成



Application



各環境の中を覗くと



アプリケーションの作成



Application












アプリケーションと環境の作成

希望のアプリケーションコンテナを選択してStartを押す

You do not have any AWS Elastic Beanstalk applications launched. AWS Elastic Beanstalk makes it even easier to deploy and manage scalable and fault-tolerant applications on the AWS cloud, while retaining the ability to control the underlying resources. To get started, simply upload your application to AWS Elastic Beanstalk and within minutes access your application running on AWS's infrastructure services. [Learn more about creating and launching your applications using AWS Elastic Beanstalk](#)→

Select your platform and click start

Launch an Elastic Beanstalk environment to get started. You can then upload your own application or customize the environment.

 Apache Tomcat 6	 Apache Tomcat 7	 IIS 7.5	 IIS 8	 PHP 5.4	 Python	 Ruby 1.8.7	 Ruby 1.9.3	 Customize...
------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------

Start

アプリケーションと環境の作成

環境の構成が終わるのを待つ

The screenshot displays the AWS Elastic Beanstalk console interface. On the left, the 'My First Elastic Beanstalk Application' overview is shown, including tabs for Overview, Events, and Versions. The application description states it is a sample application provided by Amazon Web Services. The 'Created on' date is 2013-01-10 15:32 GMT+09. Below this, the 'My First Elastic Beanstalk Application Environments' section is visible, showing the 'Default-Environment' as the 'Successfully running version Sample Application.' A large orange arrow points from the application overview to the environment details. On the right, the 'Environment Details' for the 'Default-Environment' are expanded, showing tabs for Overview, Logs, Monitoring, and Events. The environment details include the URL (http://Default-Environment-mgghc65dfg.elasticbeanstalk.com), the running version (Sample Application), the container type (64bit Amazon Linux running PHP 5.4), and the changed on date (2013-01-10 15:38 GMT+0900). Links for 'Deploy a Different Version' and 'Edit Configuration' are also present.

My First Elastic Beanstalk Application

Upload New Version Launch New Environment Create New Application

Elastic Beanstalk Application Details

Overview Events Versions

Application Description: This is the sample application provided by Amazon Web Services for demonstrating AWS Elastic Beanstalk.

Created on: 2013-01-10 15:32 GMT+09

Edit Application Description | Delete This Application

My First Elastic Beanstalk Application Environments

Default-Environment
Latest Event: Using elasticbeanstalk-ap-southeast-2-40

Environment Details

My First Elastic Beanstalk Application

Elastic Beanstalk Application Details

Overview Events Versions

Application Description: This is the sample application provided by Amazon Web Services for demonstrating AWS Elastic Beanstalk.

Created on: 2013-01-10 15:32 GMT+0900

Edit Application Description | Delete This Application

My First Elastic Beanstalk Application Environments

Default-Environment
Successfully running version **Sample Application.**

Environment Details

Overview Logs Monitoring Events

URL: http://Default-Environment-mgghc65dfg.elasticbeanstalk.com

Running Version: Sample Application

Container Type: 64bit Amazon Linux running PHP 5.4

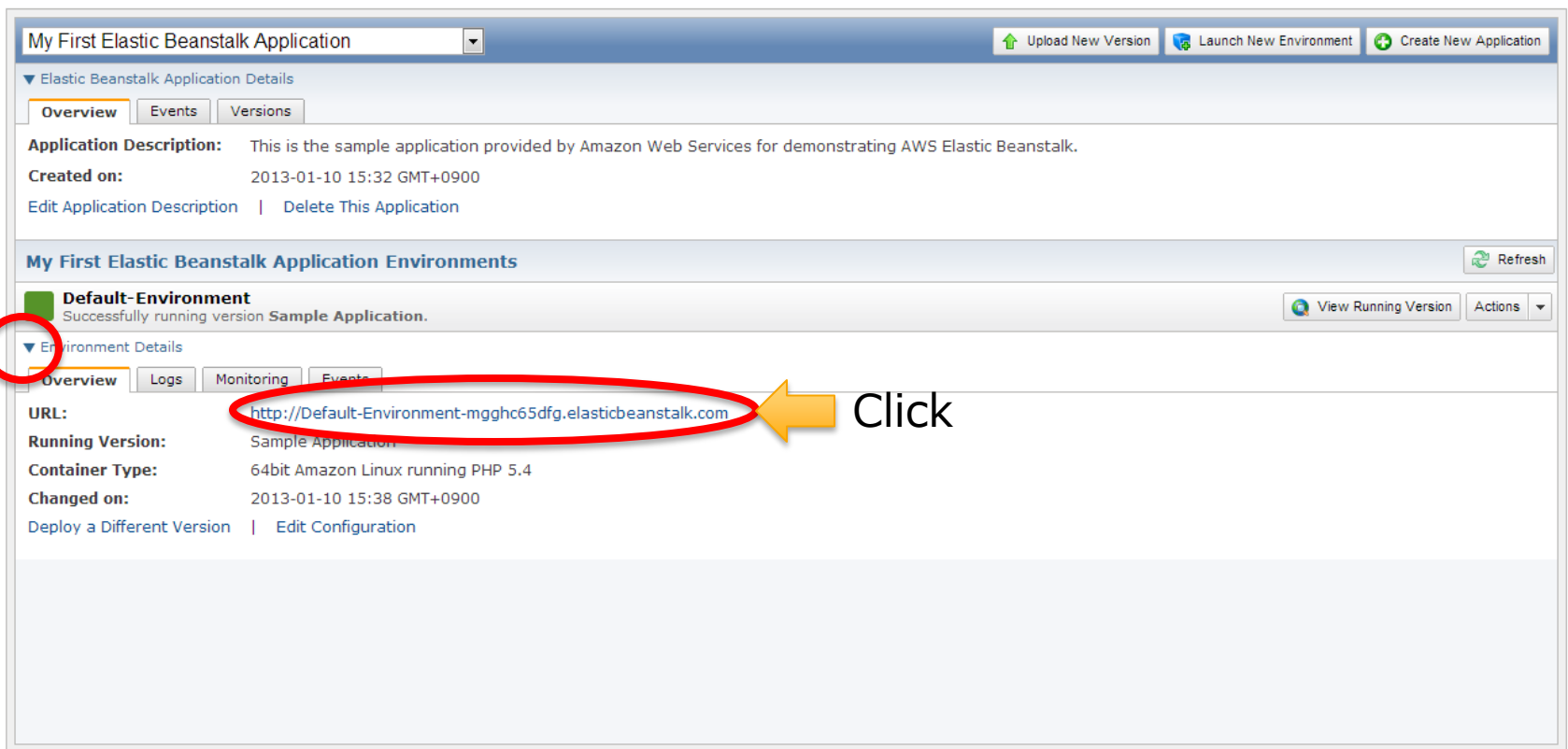
Changed on: 2013-01-10 15:38 GMT+0900

Deploy a Different Version | Edit Configuration

© 2008 - 2013, Amazon Web Services, Inc. or its affiliates. A

アプリケーションと環境の作成

初期バージョンにアクセス



My First Elastic Beanstalk Application

Upload New Version Launch New Environment Create New Application

▼ Elastic Beanstalk Application Details

Overview Events Versions

Application Description: This is the sample application provided by Amazon Web Services for demonstrating AWS Elastic Beanstalk.

Created on: 2013-01-10 15:32 GMT+0900

[Edit Application Description](#) | [Delete This Application](#)

My First Elastic Beanstalk Application Environments Refresh

Default-Environment Successfully running version Sample Application. View Running Version Actions

▼ Environment Details

Overview Logs Monitoring Events

URL: <http://Default-Environment-mgghc65dfg.elasticbeanstalk.com> Click

Running Version: Sample Application

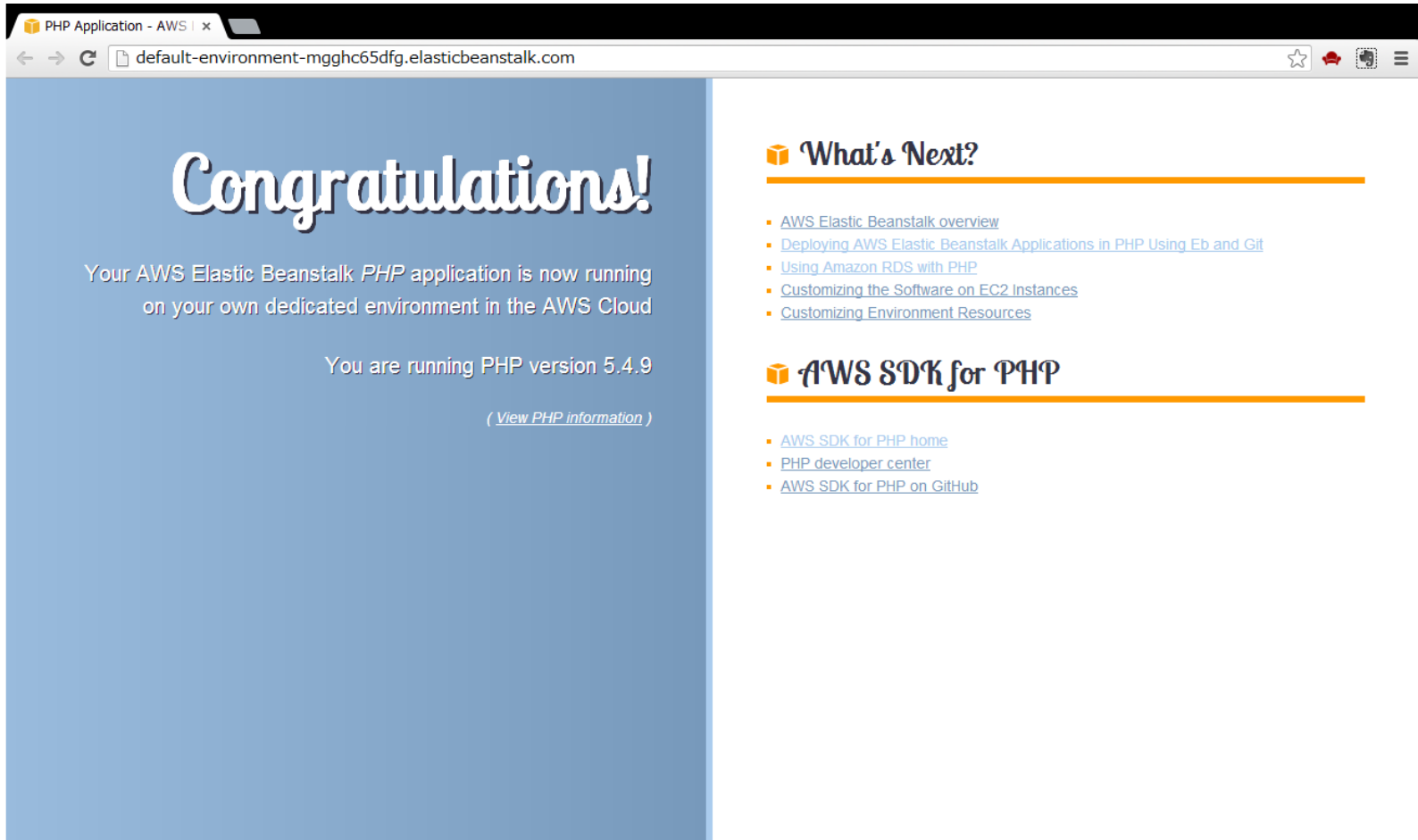
Container Type: 64bit Amazon Linux running PHP 5.4

Changed on: 2013-01-10 15:38 GMT+0900

[Deploy a Different Version](#) | [Edit Configuration](#)

アプリケーションと環境の作成

デプロイされたサンプルアプリケーションを確認



The screenshot shows a web browser window with the title "PHP Application - AWS" and the URL "default-environment-mgghc65dfg.elasticbeanstalk.com". The main content area has a blue background and displays the following text:

Congratulations!

Your AWS Elastic Beanstalk *PHP* application is now running on your own dedicated environment in the AWS Cloud

You are running PHP version 5.4.9

([View PHP information](#))

What's Next?

- [AWS Elastic Beanstalk overview](#)
- [Deploying AWS Elastic Beanstalk Applications in PHP Using Eb and Git](#)
- [Using Amazon RDS with PHP](#)
- [Customizing the Software on EC2 Instances](#)
- [Customizing Environment Resources](#)

AWS SDK for PHP

- [AWS SDK for PHP home](#)
- [PHP developer center](#)
- [AWS SDK for PHP on GitHub](#)

ここまでに出て上がった構成



Application

Default Environment

URL

Environment Configuration

<http://Default-Environment-XXXXXX.elasticbeanstalk.com>

Version

WAR/ZIP

サンプルアプリケーション

マネージメントコンソールから コードをデプロイ

📦 WARファイルやZIPで固めたプロジェクトなど

My First Elastic Beanstalk Application

Elastic Beanstalk Application Details

Overview Events Versions

Application Description: This is the sample application provided by Amazon

Created on: 2013-01-10 15:32 GMT+0900

[Edit Application Description](#) | [Delete This Application](#)

My First Elastic Beanstalk Application Environments

Default-Environment
Successfully running version **Sample Application**.

Environment Details

Overview Logs Monitoring Events

URL: <http://Default-Environment-mgghc65dfg.elasticbeanstalk.com/>

Running Version: Sample Application

Container Type: 64bit Amazon Linux running PHP 5.4

Changed on: 2013-01-10 15:38 GMT+0900

[Deploy a Different Version](#) | [Edit Configuration](#)

Deploy a Different Version

Select a different version to deploy to this environment, or upload a new version and deploy it to this environment.

Environment: Default-Environment

Deployment

☐ Deploy an existing version

Sample Application

☒ Upload and deploy a new version

Version Label:

SecondVersion

Description: (optional, 200 char maximum)

Upload Existing Application: (e.g. WAR file)

ファイルを選択 選択されていません

Cancel Deploy Version

Check

バージョンに付ける名前

アップロードする
ファイルを選択

Gitでコードをデプロイ ～準備編～

📦 作業環境の用意（既があればスキップ）

- EC2インスタンスを起動（t1.microで十分）
- ログインしてgitをインストール

```
$ sudo yum -y install git
```

📦 ElasticBeanstalkのCLIツールをダウンロード

- 下記URLから最新版のURLを取得
 - <http://aws.amazon.com/code/6752709412171743>
- ダウンロードと解凍（下記例ではVersion 2.3）

```
$ wget https://s3.amazonaws.com/elasticbeanstalk/cli/AWS-ElasticBeanstalk-CLI-2.3.zip  
$ unzip AWS-ElasticBeanstalk-CLI-2.3.zip
```

Gitでコードをデプロイ ～プロジェクトセットアップ編～

プロジェクトを作成して初期化

```
$ mkdir helloworld  
$ cd helloworld  
$ git init
```

AWS Dev Toolを使ってデプロイに関するコンフィグ

- スクリプトを走らせてgit の拡張コマンドをインストール

```
$ ~/AWS-ElasticBeanstalk-CLI-2.3/AWSDevTools/Linux/AWSDevTools-RepositorySetup.sh
```

- aws.configコマンドでデプロイに関するコンフィグを設定

```
$ git aws.config  
AWS Access Key: AKIXXXXXXXXXXXXXXXXXXXXX  
AWS Secret Key: zGt9B9XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
AWS Region [default to us-east-1]: ap-northeast-1  
AWS Elastic Beanstalk Application: My First Elastic Beanstalk Application  
AWS Elastic Beanstalk Environment: Default-Environment
```

Gitでコードをデプロイ ～実施編～

📦 コードを開発、ローカルでテスト

```
$ cat > index.php
<html><head><title>PHP Test</title></head>
<body><?php echo '<h1>Hello, World!</h1>'; ?></body></html>
Ctrl+d
```

📦 Git でローカルレポジトリに変更をコミット

```
$ git add index.php
$ git commit -m "initial commit"
```

📦 Beanstalkの環境にコードをデプロイ

```
$ git aws.push
Counting objects: 3, done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 306 bytes, done.
Total 3 (delta 0), reused 0 (delta 0)
remote:
To https://AKIA....
* [new branch] HEAD -> master
```

更新されたコードのデプロイを確認

The screenshot displays the AWS Elastic Beanstalk console interface. At the top, there's a header for 'My First Elastic Beanstalk Application' with buttons for 'Upload New Version', 'Launch New Environment', and 'Create New Application'. Below this, the 'Elastic Beanstalk Application Details' section shows the application description, creation time (2013-01-10 15:32 GMT+0900), and links to 'Edit Application Description' and 'Delete This Application'. The 'My First Elastic Beanstalk Application Environments' section shows the 'Default-Environment' with a 'Latest Event' indicating an update is starting. A large orange arrow points from the 'Default-Environment' section to a detailed view of the environment on the right. This detailed view shows the 'Running Version' as 'git-95b720b3f06dc3a4787fba34741e91d78affeb40-1357805197470', which is circled in red. Other details include the URL, container type (64bit Amazon Linux running PHP 5.4), and creation time (2013-01-10 17:08 GMT+0900).

My First Elastic Beanstalk Application

Upload New Version Launch New Environment Create New Application

Elastic Beanstalk Application Details

Overview Events Versions

Application Description: This is the sample application provided by Amazon Web Services for demonstrating AWS Elastic Beanstalk.

Created on: 2013-01-10 15:32 GMT+0900

Edit Application Description | Delete This Application

My First Elastic Beanstalk Application Environments

Default-Environment

Latest Event: Environment update is starting. (Note: Updating your environment)

Environment Details

Overview Logs Monitoring Events

URL: http://Default-Environment-mgghc65drg.elasticbeanstalk.com

Running Version: Sample Application

Container Type: 64bit Amazon Linux running PHP 5.4

Changed on: 2013-01-10 15:38 GMT+0900

Deploy a Different Version | Edit Configuration

My First Elastic Beanstalk Application

Upload New Version

Elastic Beanstalk Application Details

Overview Events Versions

Application Description: This is the sample application provided by Amazon Web Services for demonstrating AWS Elastic Beanstalk.

Created on: 2013-01-10 15:32 GMT+0900

Edit Application Description | Delete This Application

My First Elastic Beanstalk Application Environments

Default-Environment

Successfully running version git-95b720b3f06dc3a4787fba34741e91d78affeb40-1357805197470.

Environment Details

Overview Logs Monitoring Events

URL: http://Default-Environment-mgghc65drg.elasticbeanstalk.com

Running Version: git-95b720b3f06dc3a4787fba34741e91d78affeb40-1357805197470

Container Type: 64bit Amazon Linux running PHP 5.4

Changed on: 2013-01-10 17:08 GMT+0900

Deploy a Different Version | Edit Configuration

更新が完了するとステータスが再びグリーンに
Running Versionも更新される

各バージョンの一覧を確認

バージョンタブを選択

The screenshot shows the AWS Elastic Beanstalk console interface. At the top, there's a header for 'My First Elastic Beanstalk Application' with buttons for 'Upload New Version', 'Launch New Environment', and 'Create New Application'. Below this, the 'Elastic Beanstalk Application Details' section has tabs for 'Overview', 'Events', and 'Versions'. The 'Versions' tab is selected and circled in red. Below the tabs are buttons for 'Upload New Version', 'Deploy Version', and 'Delete Version', along with 'Show/Hide' and 'Refresh' buttons. A table lists the application versions. The second version is selected with a checkmark. Below the table, the 'My First Elastic Beanstalk Application Environments' section shows the 'Default-Environment' as the 'Successfully running version'. A yellow callout box points to the 'Versions' tab and the selected version in the table, containing the text '任意のバージョンを選択してロールバックすることも可能'.

Version Label	Description	Running on	Created on	Location
<input type="checkbox"/> git-95b720b3f06dc3a4787fb	3rd	Default-Environment	2013-01-10 17:06 GMT+0900	git-95b720b3f06dc3a4787fba34741e91d78affeb40-1357805197470.zip
<input checked="" type="checkbox"/> git-e41e4d543dff4a89c4403	2nd	-	2013-01-10 16:08 GMT+0900	git-e41e4d543dff4a89c440345847b248107fc13aad-1357801711523.zip
<input type="checkbox"/> git-3d5f316a158602fd99714	initial	-	2013-01-10 16:05 GMT+0900	git-3d5f316a158602fd997146f33e2b1d5b785d4b70-1357801532830.zip
<input type="checkbox"/> Sample Application	This is the sample application provided by Amazon V	-	2013-01-10 15:32 GMT+0900	Generic Sample Application

My First Elastic Beanstalk Application Environments

Default-Environment
Successfully running version git-95b720b3f06dc3a4787fba34741e91d78affeb40-1357805197470

Environment Details

Overview | Logs | Monitoring | Events

URL: <http://Default-Environment-mqgchc65c...>

Running Version: git-95b720b3f06dc3a4787fba34741e91d78affeb40-1357805197470

Container Type: 64bit Amazon Linux running PHP 5.4

Changed on: 2013-01-10 17:08 GMT+0900

Deploy a Different Version | Edit Configuration

ここまでに出て上がった構成



Application

サンプルアプリケーション

Default Environment

URL

Environment Configuration

<http://Default-Environment-XXXXXX.elasticbeanstalk.com>

Version

WAR/ZIP

⋮

WAR/ZIP

最後にデプロイしたバージョン

ステージング環境の追加

My First Elastic Beanstalk Application

Upload New Version Launch New Environment Create New Application

Elastic Beanstalk Application Details

Overview Events Versions

Application Description: This is the sample application provided by Amazon Web Services for demonstrating AWS Elastic Beanstalk.

Created on: 2013-01-10 15:32 GMT+0900

Edit Application Description | Delete This Application

My First Elastic Beanstalk Application Environments

Default-Environment
Successfully running version git-95b720b3f06dc3a4787fba34741e91d78affeb40-13

Environment Details

Overview Logs Monitoring Events

URL: http://Default-Environment-mgghc65dfg.elasticbeanstalk.com

Running Version: git-95b720b3f06dc3a4787fba34741e91d78affeb40-13578

Container Type: 64bit Amazon Linux running PHP 5.4

Changed on: 2013-01-10 17:08 GMT+0900

Deploy a Different Version | Edit Configuration

© 2008 - 2013, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy

Launch New Environment

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: Staging-Environment

Environment URL: http://Staging-Environment-mgghc65dfg.elasticbeanstalk.com

Check Availability

Description: (optional, 200 char maximum)

Version:

- ☒ Select an existing application version
Sample Application
- ☐ Upload and use a new application version
ファイルを選択 選択されていません

Container Type: 64bit Amazon Linux running PHP 5.4

☐ Create an RDS DB Instance with this environment

Continue

環境名

環境に割り当てるURL
(要Global Unique)

デプロイするバージョンを指定
(ここでは再びサンプルを選択)

新環境の初期設定

Launch New Environment Cancel X

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**.

Load a Saved Configuration: Saved configurations provide an easy way to replicate settings across multiple environments.

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 >](#)

← 使用するインスタンスタイプ

← インスタンスにログインするための
SSHキーペア名（任意）

追加された環境の確認

My First Elastic Beanstalk Application

Upload New Version

Launch New Environment

Create New Application

▼ Elastic Beanstalk Application Details

Overview

Events

Versions

Application Description:

This is the sample application provided by Amazon Web Services for demonstrating AWS Elastic Beanstalk.

Created on:

2013-01-10 15:32 GMT+0900

Edit Application Description

Delete This Application

My First Elastic Beanstalk Application Environments

Refresh

Staging-Environment

Successfully running version Sample Application.

View Running Version

Actions

▼ Environment Details

Overview

Logs

Monitoring

Events

URL:

http://Staging-Environment-mgg.elasticbeanstalk.com

Running Version:

Sample Application

Container Type:

64bit Amazon Linux running PHP 5.4

Changed on:

2013-01-10 17:33 GMT+0900

Deploy a Different Version

Edit Configuration

Default-Environment

Successfully running version git-95b720b3f06dc3a4787fba34741e91d78affeb40-1357805197470.

View Running Version

Actions

▶ Environment Details

ここまでに出て上がった構成



Application

サンプルアプリケーション

Default Environment

URL

Environment Configuration

<http://Default-Environment-XXXXXX.elasticbeanstalk.com>

Staging Environment

URL

Environment Configuration

Version

WAR/ZIP

⋮

WAR/ZIP

新たにデプロイしたバージョン

環境のスワッピング

ステージング環境を本番環境に移行する場合など
DNSの切り替えにより実施される

My First Elastic Beanstalk Application

Upload New Version Launch New Environment Create New Application

Elastic Beanstalk Application Details

Overview Events Versions

Application Description: This is the sample application provided by Amazon Web Services for demonstrating AWS Elastic Beanstalk.

Created on: 2013-01-10 15:32 GMT+0900

Edit Application Description Delete This Application

My First Elastic Beanstalk Application Environments

Refresh

Staging-Environment
Successfully running version Sample App

Environment Details

Overview Logs Monitoring Events

URL: http://Staging-Environment-mjg.elasticbeanstalk.com

Running Version: Sample App

Container Type: 64bit Amazon Linux

Changed on: 2013-01-10 15:32 GMT+0900

Deploy a Different Version Edit Configuration

Default-Environment
Successfully running version git-95b720

Environment Details

Swap Environment URL

Swapping an environment's URL with another environment's URL allows you to deploy versions with no downtime. [Learn more >>](#)

Swapping the environment URL will modify the Route 53 DNS configuration which may take a few minutes. Your application will continue to run while the changes propagate.

Environment Details

Environment Name: Staging-Environment

Environment URL: Staging-Environment-mjg.elasticbeanstalk.com

Select an Environment to Swap

Environment Name: Default-Environment

Environment URL: Default-Environment-mjg.sdfg.elasticbeanstalk.com

Cancel Swap URL

Deploy a Different Version Edit/Load Configuration Save Configuration Swap Environment URL Restart the App Server(s) Rebuild this Environment Terminate this Environment

Feedback

環境スワップが実行されたことを確認

The screenshot shows the AWS Elastic Beanstalk console interface. At the top, there's a header for 'My First Elastic Beanstalk Application' with buttons for 'Upload New Version', 'Launch New Environment', and 'Create New Application'. Below this, the 'Elastic Beanstalk Application Details' section is visible, including 'Overview', 'Events', and 'Versions' tabs. The 'Application Description' states it's a sample application for demonstrating AWS Elastic Beanstalk, created on 2013-01-10 15:32 GMT+0900. Below this, the 'My First Elastic Beanstalk Application Environments' section shows two environments: 'Staging-Environment' and 'Default-Environment'. The 'Staging-Environment' is highlighted with a green status icon and shows it's successfully running version 'Sample Application'. Its URL, <http://Default-Environment-mgghc65dfg.elasticbeanstalk.com>, is circled in red. The 'Default-Environment' is also shown as successfully running version 'git-95b720b3f06dc3a4787fba34741e91d78affeb40-1357805197470'. An arrow points from the red-circled URL to an orange text box at the bottom right.

My First Elastic Beanstalk Application

Upload New Version Launch New Environment Create New Application

Elastic Beanstalk Application Details

Overview Events Versions

Application Description: This is the sample application provided by Amazon Web Services for demonstrating AWS Elastic Beanstalk.

Created on: 2013-01-10 15:32 GMT+0900

Edit Application Description | Delete This Application

My First Elastic Beanstalk Application Environments

Refresh

Staging-Environment
Successfully running version **Sample Application**. View Running Version Actions

Environment Details

Overview Logs Monitoring Events

URL: <http://Default-Environment-mgghc65dfg.elasticbeanstalk.com>

Running Version: Sample Application

Container Type: 64bit Amazon Linux running PHP 5.4

Changed on: 2013-01-10 17:42 GMT+0900

Deploy a Different Version | Edit Configuration

Default-Environment
Successfully running version **git-95b720b3f06dc3a4787fba34741e91d78affeb40-1357805197470**. View Running Version Actions

Environment Details

今までDefault-EnvironmentについていたURLがStaging-Environmentに

© 2008 - 2013, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Feedback

ここまでに出て上がった構成



Application

サンプルアプリケーション

Default Environment

URL

Environment Configuration

<http://Default-Environment-XXXXXX.elasticbeanstalk.com>

Staging Environment

URL

Environment Configuration

Version

WAR/ZIP

⋮

WAR/ZIP

新たにデプロイしたバージョン

