

Elastic Beanstalk

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Outline

1 Deploying with Elastic Beanstalk

2 Ejemplos

3 Referencias

Que es EB?

- EB -> Elastic Beanstalk
- PaaS -> Platform as a Service
- Otros servicios similares: Google App Engine, Heroku, OpenShift


- Crear aplicacion
- Crear environment
- Seleccionar un stack (por ejemplo: python 2.7 en 64 bits)
- (opcional) Crear un base de datos RDS

- Múltiples lenguajes de programación soportados (tomcat/java, PHP, Python, Node.js, Ruby, .NET)
- Integración con RDS, S3, Elastic Load Balancing, Auto Scaling
- No hay un pago extra por el servicio, solamente se paga por los recursos usados (EC2, S3, RDS, etc).
- Definir alarmas
- Snapshot de logs de las instancias EC2 son almacenados en S3

Cosas que me perturban

- Usa Apache para Java (tomcat), php, python
- Usa Amazon Linux (basada en RHEL)
-

Control Panel (1)

 Elastic Beanstalk MobileBackend ▾ Solo ▾ [Create New Environment](#)

mobilebackend-prod (mobilebackend-prod.elasticbeanstalk.com) [Actions ▾](#)

Dashboard

Configuration


Logs


Monitoring


Alarms

Events

Overview

 **Environment Health**
Green
[Monitor](#)

 **Running Version**
Sample Application
[Deploy](#)

 **Configuration**
Python
[Edit](#)

Recent Events

[Show All](#)

Time	Type	Details
2013-07-12 18:21:28 UTC-0700	INFO	Environment update completed successfully.
2013-07-12 18:21:28 UTC-0700	INFO	Successfully deployed new configuration to environment.
2013-07-12 18:20:26 UTC-0700	INFO	Updating environment mobilebackend-prod's configuration settings.
2013-07-12 18:20:19 UTC-0700	INFO	Environment update is starting.

Control Panel (2)

eb24-env (eb24-env-cmnc2pukfr.elasticbeanstalk.com)

Actions ▾

Dashboard
Configuration
Logs
Monitoring
Alarms
Events

Overview

Time Range 1 day ▾

Edit ↗

53.6

Average Latency
in milliseconds

148K

Sum Requests

65%

CPU Utilization

354KB

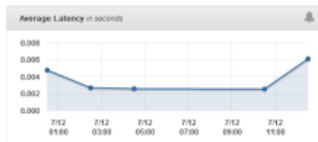
Max Network In

3.4GB

Max Network Out

Monitoring

Edit ↗



Control Panel (3)

- Dashboard
- Configuration
- Logs
- Monitoring
- Alarms
- Events

Existing Alarms

Show All ▾



Control Panel (4)

Select the VPC to use when creating your environment. [Learn more.](#)

VPC: [Refresh](#)

Select different subnets for ELB and EC2 instances in your Availability Zone.

AZ	Subnet	ELB	EC2
us-east-1a			
	subnet-f8848a97	<input type="checkbox"/>	<input type="checkbox"/>
us-east-1b			
us-east-1c			
us-east-1d			
	subnet-016d306a	<input type="checkbox"/>	<input type="checkbox"/>
	subnet-ae4936c1	<input type="checkbox"/>	<input type="checkbox"/>
	subnet-0c6d3067	<input type="checkbox"/>	<input type="checkbox"/>
us-east-1e			

VPC security group: [Refresh](#)

ELB visibility: Select Internal when load balancing a back-end service that should not be publicly available.

Crear una aplicacion y ambiente

```
eb init # crear aplicacion/environment/rds/etc
eb start # instala la aplicacion
eb status --verbose

# actualizar app despues de haber hecho commit (1 o mas)
git aws.push

# para terminar
eb stop # liberar los recursos y no seguir gastando $$
eb delete
```

Ejemplo de uso de RDS

```
import os

if 'RDS_HOSTNAME' in os.environ:
    DB_URI = "mysql://%(USER)s:%(PASSWORD)s@%(HOST)s:%(PORT)s/%(NAME)s" % {
        'NAME': os.environ['RDS_DB_NAME'],
        'USER': os.environ['RDS_USERNAME'],
        'PASSWORD': os.environ['RDS_PASSWORD'],
        'HOST': os.environ['RDS_HOSTNAME'],
        'PORT': os.environ['RDS_PORT']}
}
else:
    DB_URI = "sqlite:///"
```

- AWS Elastic Beanstalk
- What Is AWS Elastic Beanstalk and Why Do I Need It?