Elastic Beanstalk

Felipe Reyes

AWS SCL User Group

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Outline

Que es EB?

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

Workflow

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

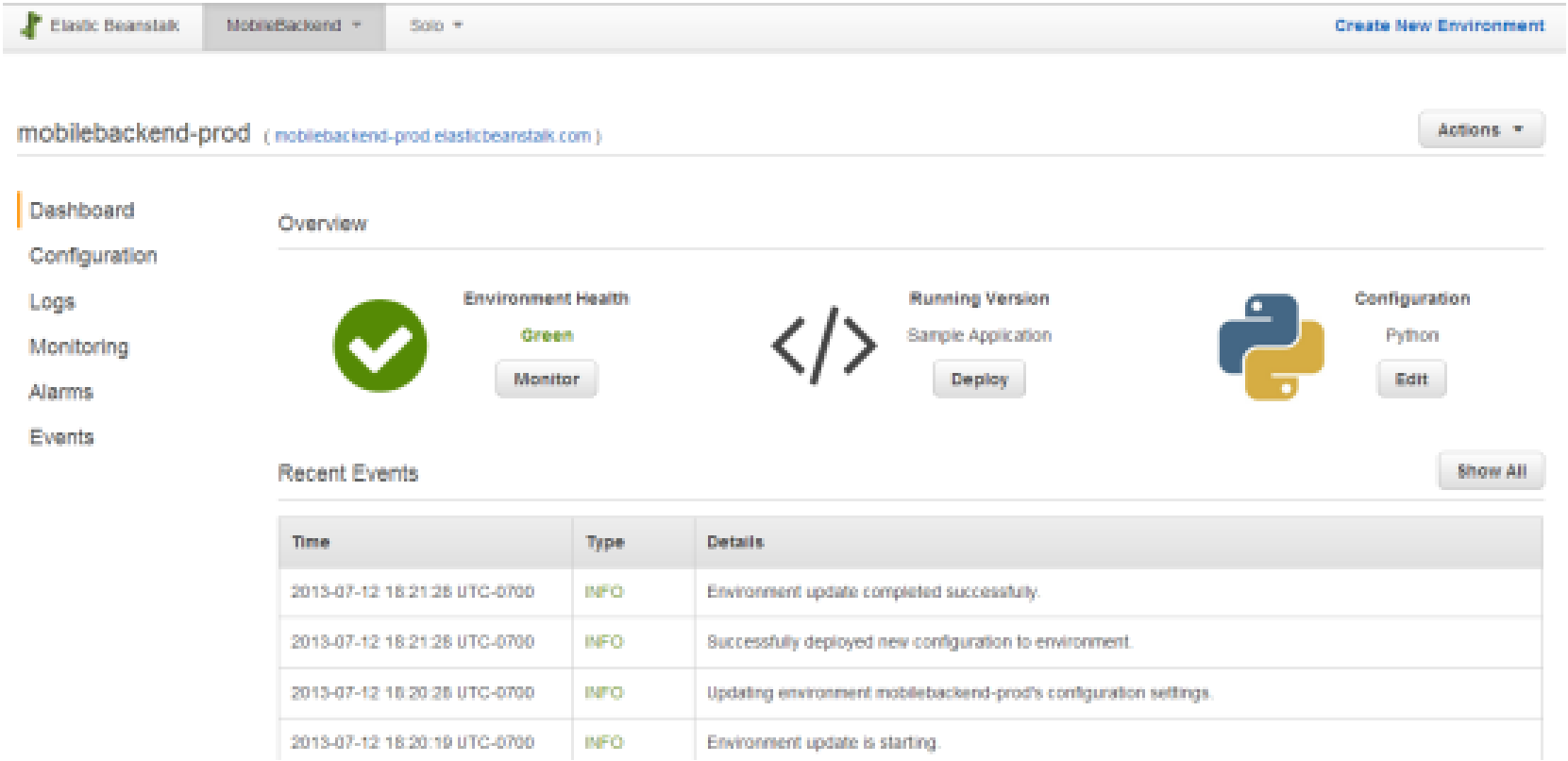
Highlights

- Multiples lenguajes de programacion soportados (tomcat/java, PHP, Python, Node.js, Ruby, .NET)
- Integracion 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

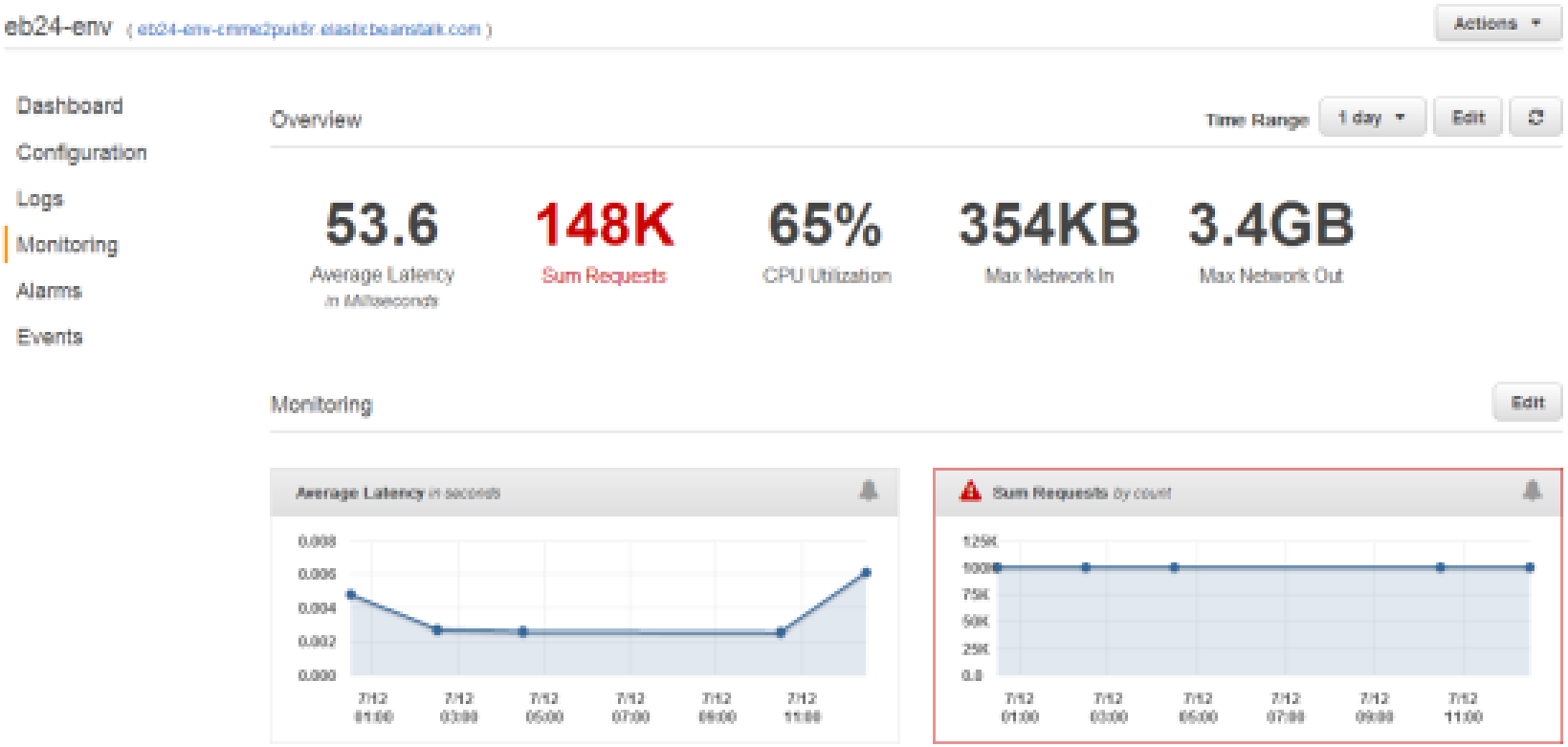
Cosas que me perturban

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

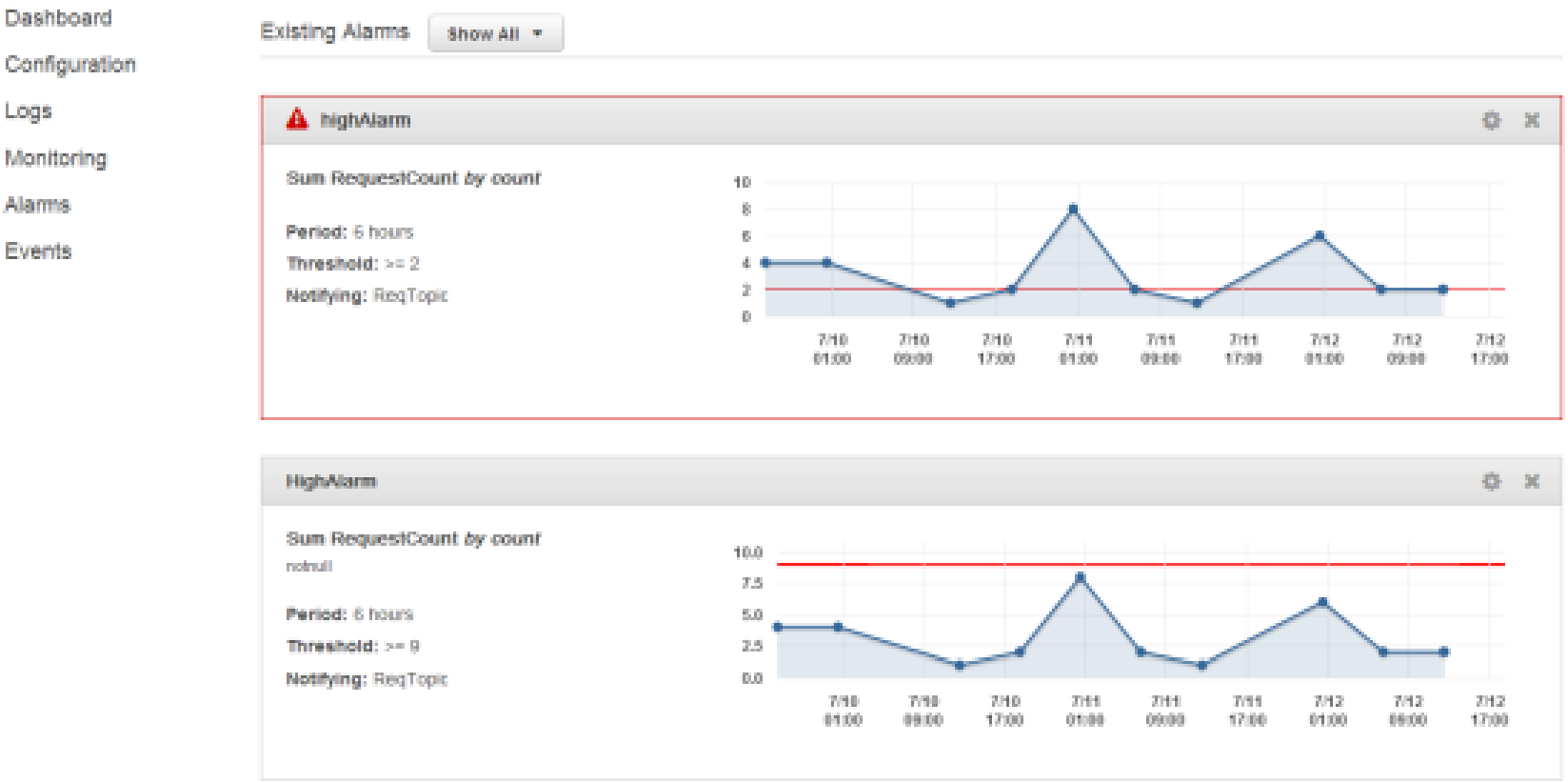
Control Panel (1)



Control Panel (2)



Control Panel (3)



Control Panel (4)

Select the VPC to use when creating your environment. Learn more.

VPC: vpc-0a6d3061 Refresh

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

AZ	Subnet	ELB	EC2
us-east-1a			
	subnet-f8848a97	☐	☐
us-east-1b			
us-east-1c			
us-east-1d			
	subnet-016d306a	☐	☐
	subnet-ae4936c1	☐	☐
	subnet-0c6d3067	☐	☐
us-east-1e			

VPC security group: EB-Instances--sg-f71df298--c Refresh

ELB visibility: External 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
                {'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:///"
```

Referencias

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