

Subir una aplicación a Amazon EC2

Curso de Redes de Telecomunicaciones – Policía Nacional

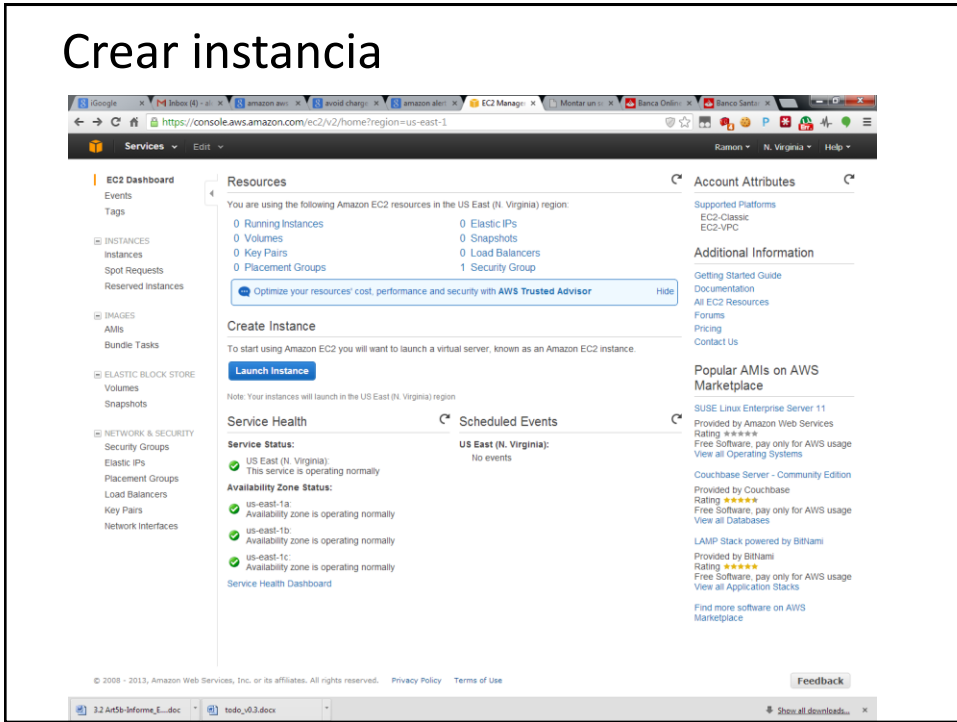
Autor: Ramón Dablo Alcarria Garrido



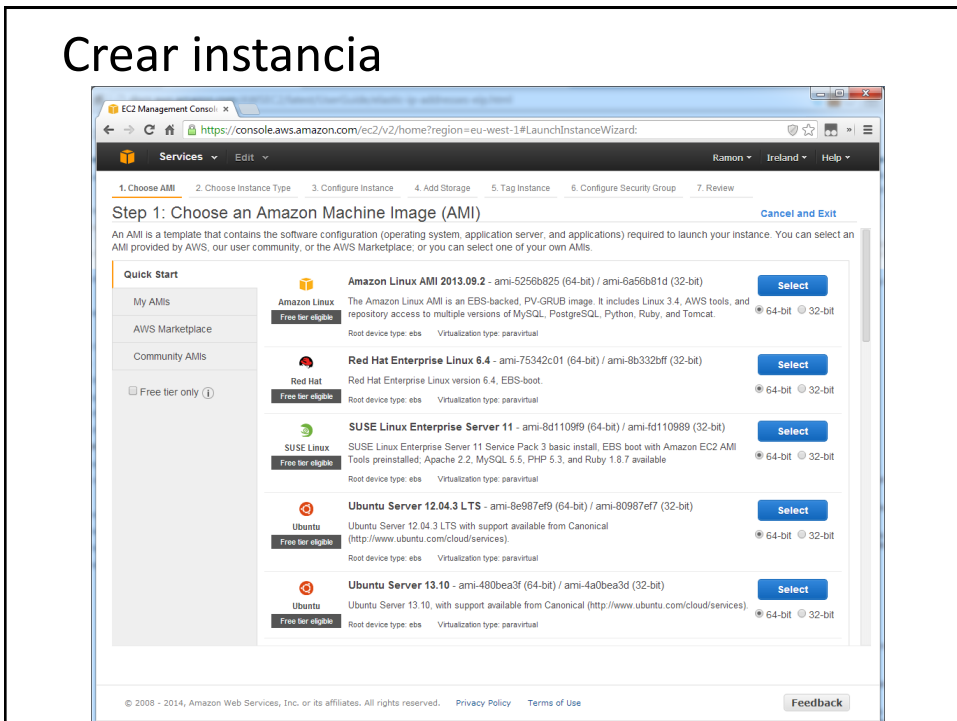
Subir una app

- A través de Amazon EC2
 - Creamos una instancia
 - Almacenamos la clave
 - Arrancamos la instancia
 - Nos conectamos a ella
 - Configuramos la instancia

Crear instancia



Crear instancia



Crear instancia

- Seleccionamos Windows Server

Microsoft Windows Server 2012 Base - ami-4eb74739 Select

Windows Microsoft Windows 2012 Standard edition with 64-bit architecture. [English] 64-bit

Free tier eligible Root device type: ebs Virtualization type: hvm

Currently selected: t1.micro (up to 2 ECUs, 1 vCPUs, 0.613 GiB memory, EBS only)

Micro instances

Micro instances are a low-cost instance option, providing a small amount of CPU resources. They are suited for lower throughput applications, and websites that require additional compute cycles periodically, but are not appropriate for applications that require sustained CPU performance. Popular uses for micro instances include low traffic websites or blogs, small administrative applications, bastion hosts, and free trials to explore EC2 functionality.

Size	ECUs	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance
t1.micro	up to 2	1	0.613	EBS only	-	Very Low

Micro instances are eligible for the AWS free usage tier. For the first 12 months following your AWS sign-up date, you get up to 750 hours of micro instances each month. When your free usage tier expires or if your usage exceeds the free tier restrictions, you pay standard, pay-as-you-go service rates.

Cancel Previous Review and Launch Next: Configure Instance Details

Crear instancia

EC2 Management Console

Services Edit Ramon Ireland Help

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1

Purchasing option: Request Spot Instances

Network: vpc-a17976ca (172.31.0.0/16) (default) Create new VPC

Subnet: No preference (default subnet in any Availability Zone) Create new subnet

Public IP: Automatically assign a public IP address to your instances

IAM role: None

Shutdown behavior: Stop

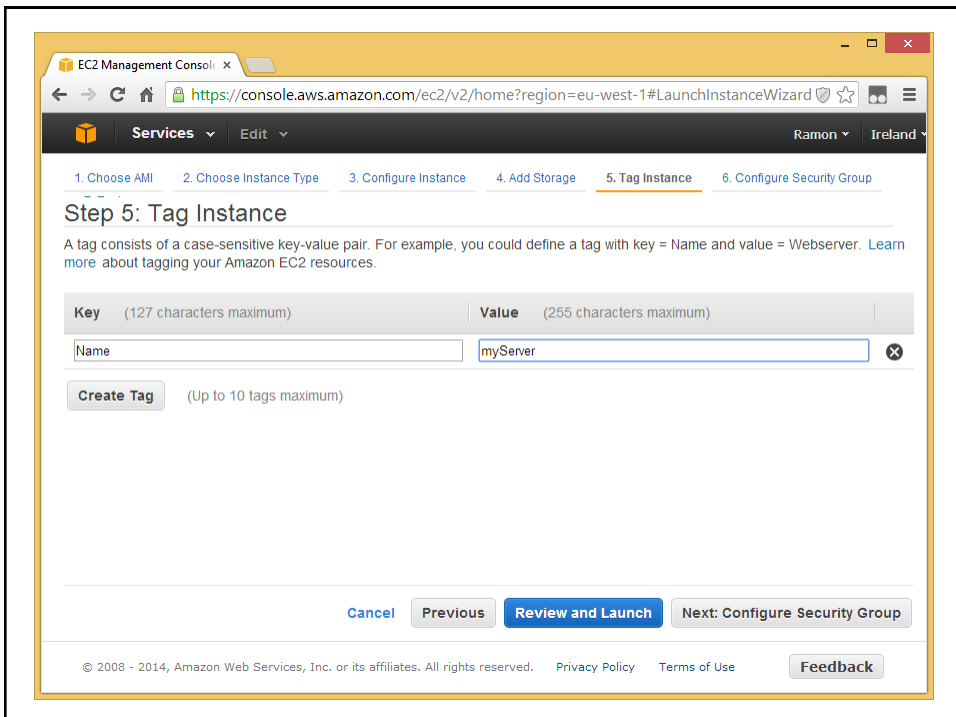
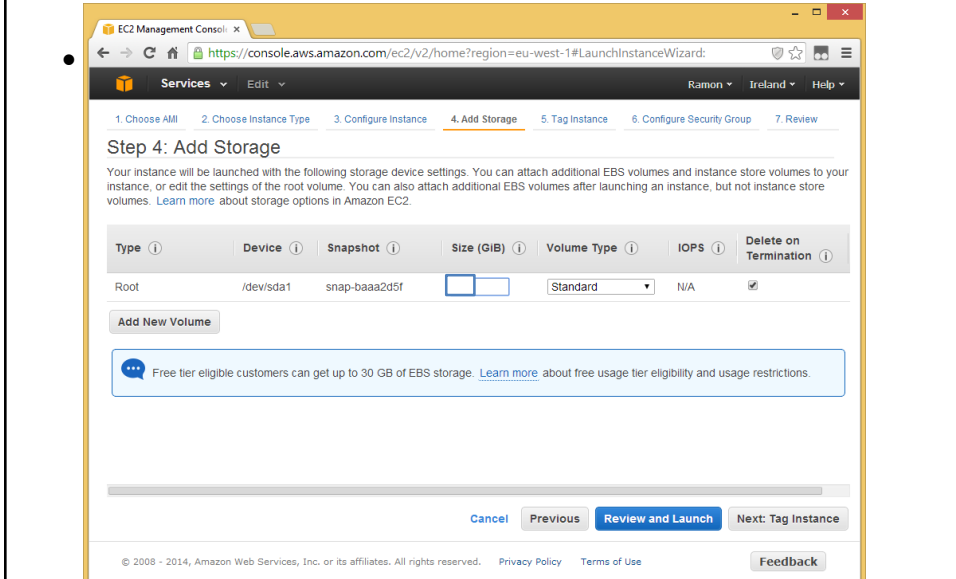
Enable termination protection: Protect against accidental termination

Monitoring: Enable CloudWatch detailed monitoring

Cancel Previous Review and Launch Next: Add Storage

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Crear instancia



EC2 Management Console

Services Edit Ramon Ireland

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Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group
 Select an existing security group

Security group name:

Description:

Type	Protocol	Port Range	Source
RDP	TCP	3389	Anywhere 0.0.0.0/0

Add Rule

Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

[Cancel](#) [Previous](#) [Review and Launch](#)

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EC2 Management Console

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

Improve your instance's security. Your security group, myFirstGroup, is open to the world.

Your instance may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#).

AMI Details [Edit AMI](#)

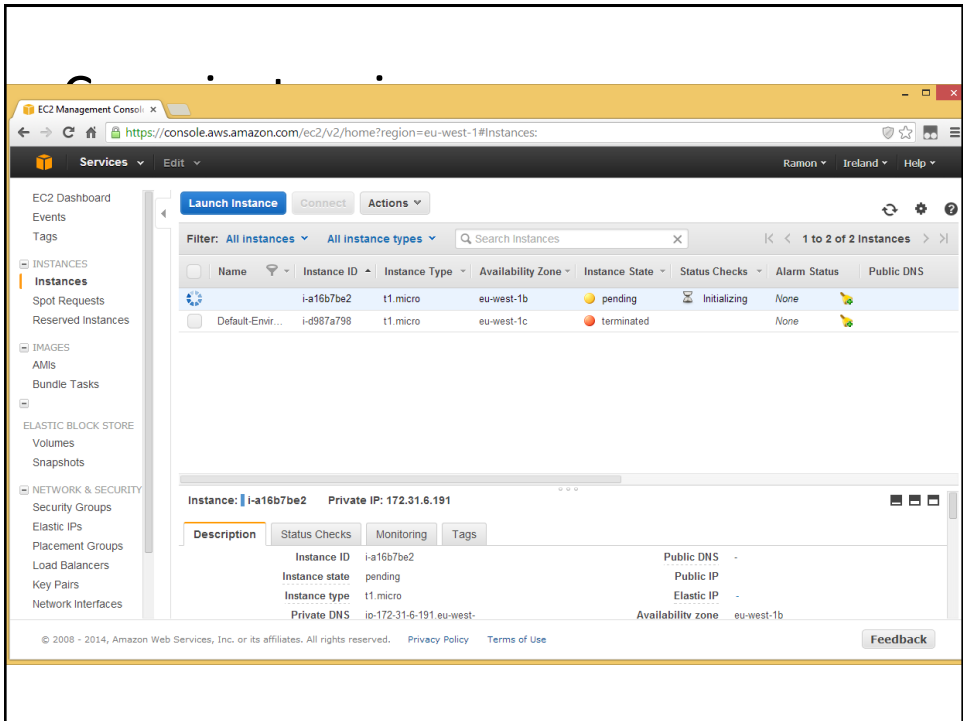
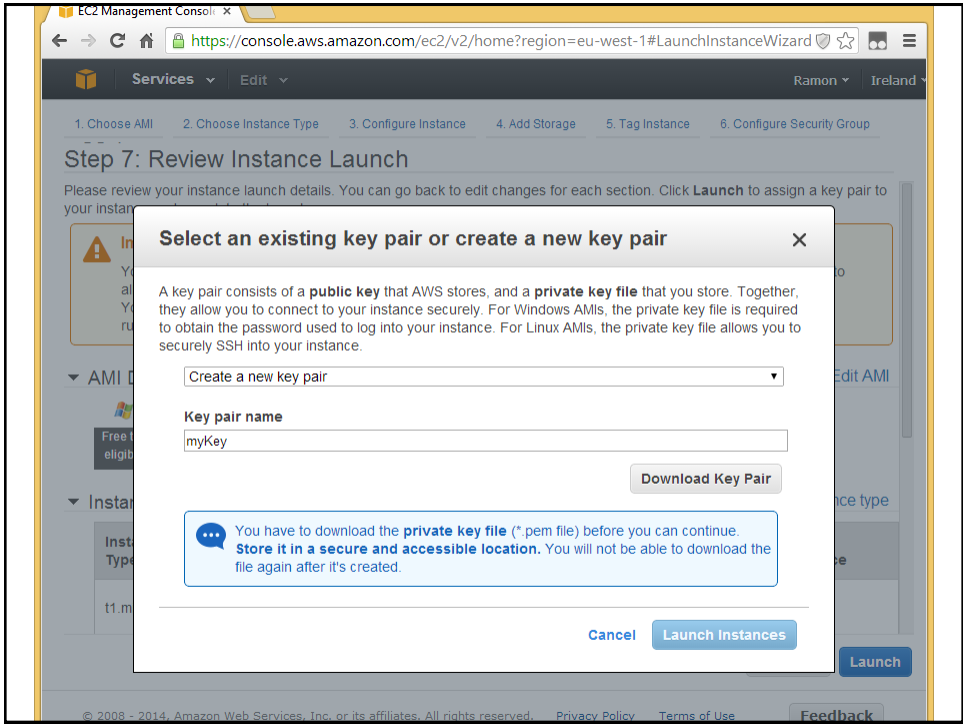
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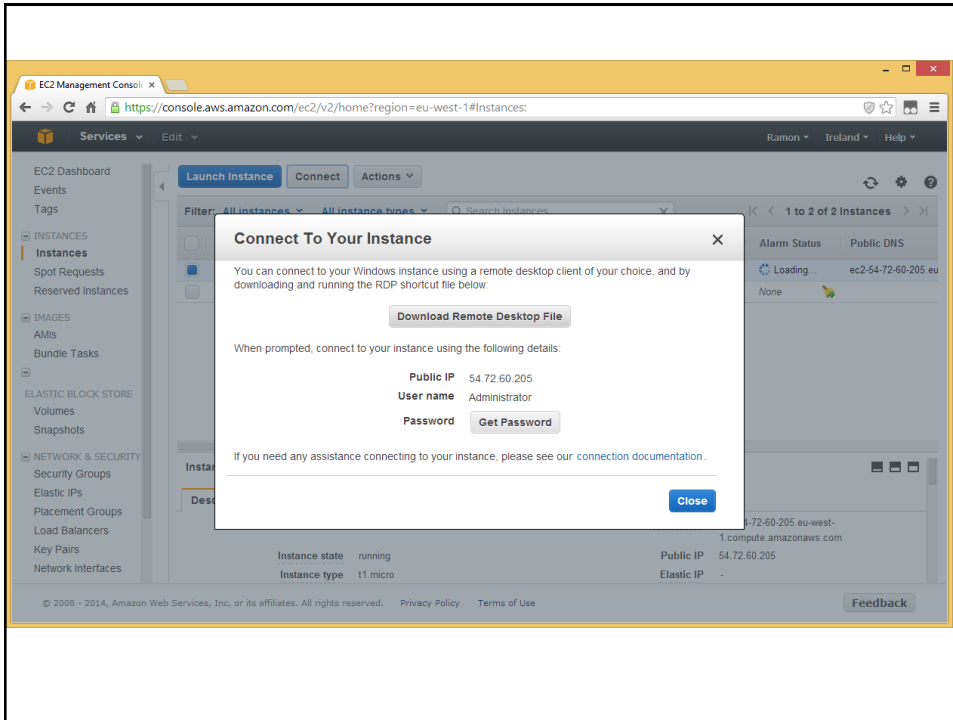
Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance
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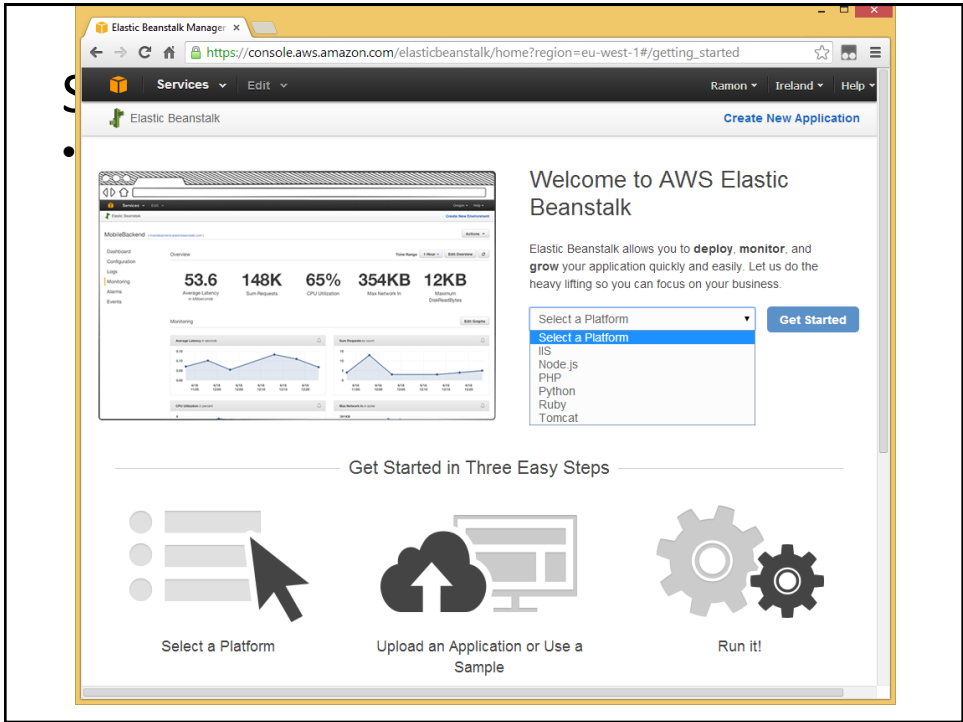
Subir una app

- Método rápido: Amazon Elastic Beanstalk

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

Ejecución de la aplicación en Amazon Linux

Servicio y recurso	Unidad	Desglose del coste	Coste
Instancia t1.micro Amazon EC2 Linux	1	0,02 USD/h * 24 horas * 30 días	14,40 USD
Elastic Load Balancer	1	0,025 USD/h * 24 horas * 30 días	18,00 USD
Procesamiento de datos de Elastic Load Balancer	15 GB	0,008 USD/GB * 15 GB	0,12 USD
Volumen de Elastic Block Store	8 GB	0,10 USD/GB * 8GB	0,80 USD
S3 Storage para archivo WAR y Access	1 GB	0,095 USD/1 GB + 0,01 USD por <1k PUT + 0,01 USD por <10k GET	0,115 USD
Banda ancha entrante y saliente	15 GB	Entrante gratuita, 1 GB saliente gratuita + 14 GB * 0,12 USD	1,68 USD
Coste mensual total sin la capa gratuita			35,115 USD
Coste mensual total con la capa gratuita			0 USD



Subir una app con Elastic Beanstalk

- Muy importante: **Quitar "Autoscaling"**
(seleccionar Single Instance)

Welcome to AWS Elastic Beanstalk

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

Tomcat

Elastic Beanstalk will create a load-balancing, autoscaling Tomcat 7 Java 7 environment on 64bit Amazon Linux 2013.09. [Change Defaults](#)

Welcome to AWS Elastic Beanstalk

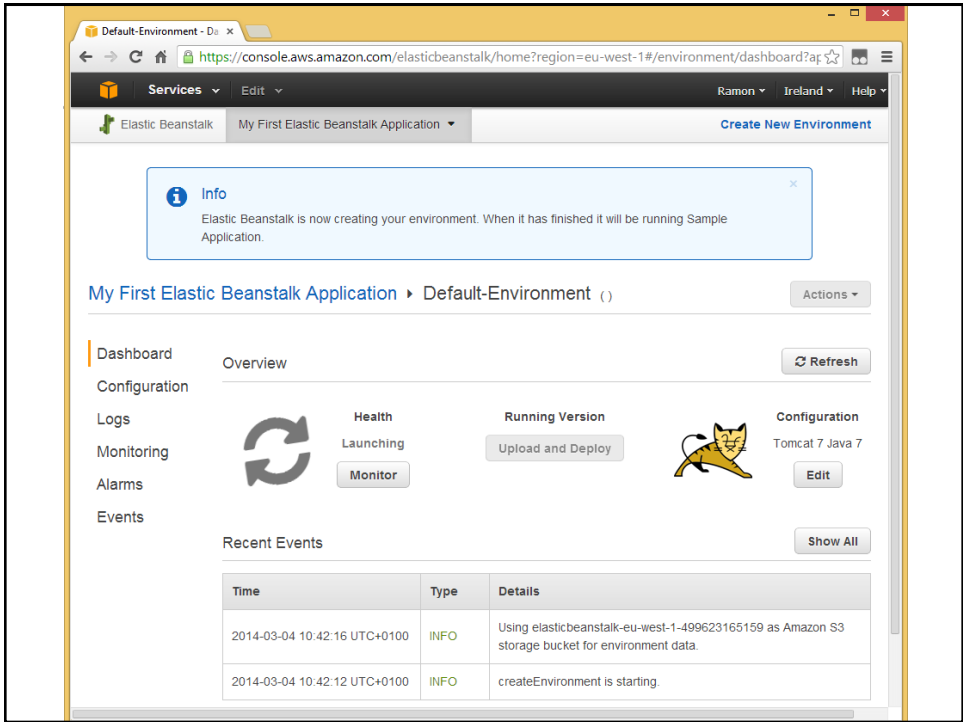
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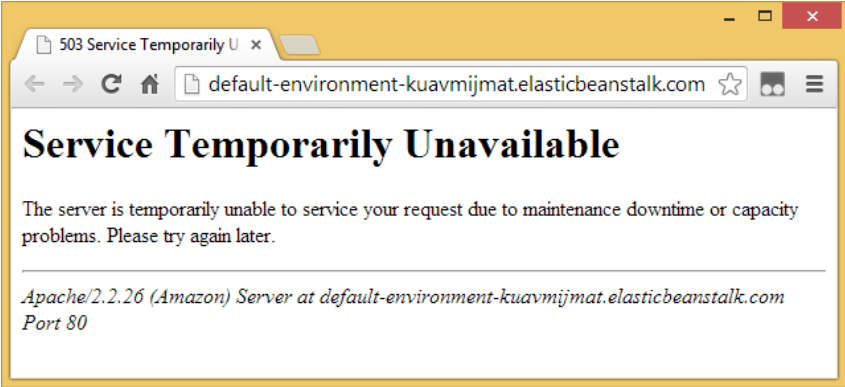
7 Java 7 on 32bit Amazon Linux 2013

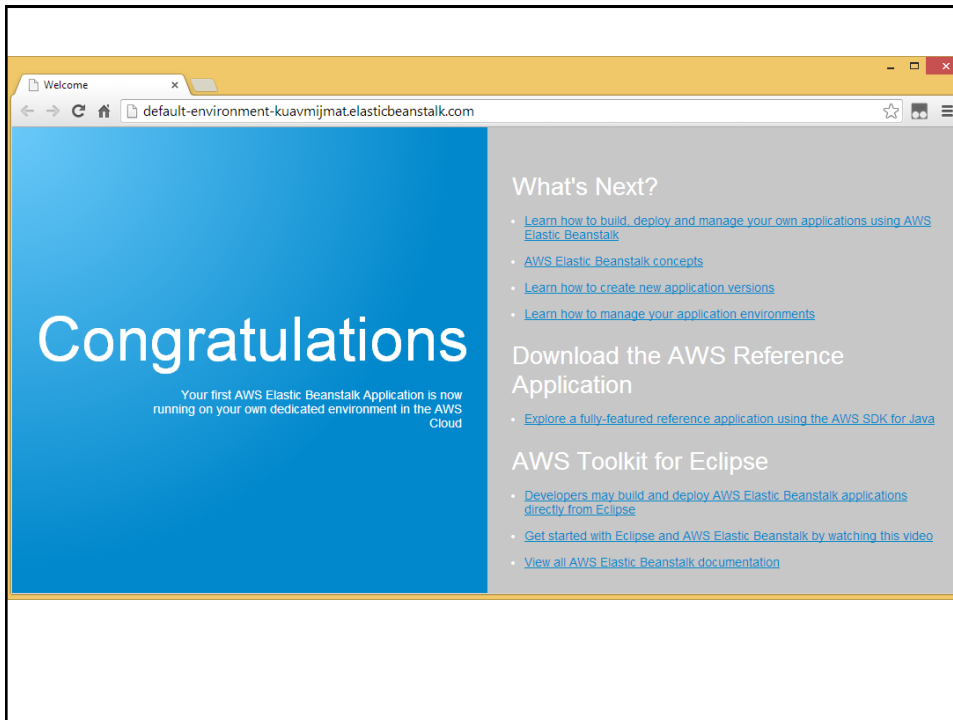
Single instance
 Single instance
 Load balancing, autoscaling





Subir una app con Elastic Beanstalk





Lo que arranca Elastic Beanstalk

- Using elasticbeanstalk-eu-west-1-499623165159 as Amazon S3 storage bucket for environment data.
- Created EIP: 54.72.60.16
- Created security group named: awseb-e-abgbpyn2pi-stack-AWSEBSecurityGroup-A18W292KKBKQ
- Adding instance 'i-d987a798' to your environment.
- New Volume (8GiB) Volume: vol-d06e64fc

Lo que arranca Elastic Beanstalk

