Subir una aplicación a Amazon EC2

Curso de Redes de Telecomunicaciones — Policía Nacional

Autor: Ramón Pablo 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



1 EC2 Management Console ×			- 0
← → C ♠ 🔒 https://com	nsole.aws.amazon.co	om/ec2/v2/home?region=eu-west-1#LaunchInstanceWizard:	♥☆ ×
🎁 Services 🗸 Edi	it ∽	Ramon	· Ireland • Help •
1. Choose AMI 2. Choose Ins	tance Type 3. Config	ure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review	
Step 1: Choose an	n Amazon Ma	chine Image (AMI)	Cancel and Exit
An AMI is a template that conta AMI provided by AWS, our user	ins the software config community, or the AV	guration (operating system, application server, and applications) required to launch your inst VS Marketplace; or you can select one of your own AMIs.	ance. You can select ar
Quick Start	Ĩ	Amazon Linux AMI 2013.09.2 - ami-5256b825 (64-bit) / ami-6a56b81d (32-bit)	Select
My AMIs	Amazon Linux	The Amazon Linux AMI is an EBS-backed, PV-GRUB image. It includes Linux 3.4, AWS tools, and respectively access to multiple versions of MySOL RestarsSOL Pattern Publy and Tanacit	64-bit 32-bit
AWS Marketplace	Free tier eligible	Root device type: ebs Virtualization type: paravirtual	
Community AMIs		Red Hat Enterprise Linux 6.4 - ami-75342c01 (64-bit) / ami-8b332bff (32-bit)	Select
Eree tier only (i)	Red Hat	Red Hat Enterprise Linux version 6.4, EBS-boot.	● 64-bit ◎ 32-bit
	rree ber eligible	Root device type: ebs Virtualization type: paravirtual	
	SIISE Linux	SUSE Linux Enterprise Server 11 - ami-8d1109f9 (64-bit) / ami-fd110989 (32-bit)	Select
	Free tier eligible	Tools preinstalled, Apache 2.2, MySQL 5.5, PHP 5.3, and Ruby 1.8.7 available	🖲 64-bit 🏾 32-bit
		Root device type: ebs Virtualization type: paravirtual	
	(O)	Ubuntu Server 12.04.3 LTS - ami-8e987ef9 (64-bit) / ami-80987ef7 (32-bit) Ubuntu Server 12.04.3 LTS with support available from Canonical	Select
	Free tier eligible	(http://www.ubuntu.com/cloud/services).	🖲 64-bit 🔍 32-bit
		Root device type: ebs Virtualization type: paravirtual	
	(O)	Ubuntu Server 13.10 - ami-480bea3f (64-bit) / ami-4a0bea3d (32-bit) Ubuntu Server 13.10, with support available from Canonical (http://www.ubuntu.com/cloud/services).	Select
	Free tier eligible	Root device type: ebs Virtualization type: paravirtual	🖲 64-bit 🄍 32-bit

Cr	ear	in:	st	an		ws Sarvar		
		Micros	soft	Windows	s Server 2012 Ba	se - ami-4eb74739		Select
V Free	Vindows e tier eligible	Microso Root devi	ift Wi	ndows 20 e: ebs	12 Standard edition v Virtualization type: hvm	with 64-bit architecture. [E	inglish]	64-bit
Currently Micro in Micro insta	selected: t1.mic stances nces are a low-c at require additi	ost instance	CUs, 1	vCPUs, 0.61 providing a s	3 GiB memory, EBS only) mall amount of CPU resour	ces. They are suited for lower throo	ighput applications, and CPU performance. Popular	
uses for mi functionalit	cro instances ind y.	lude low traf	fic web:	sites or blogs	s small administrative applic	ations, bastion hosts, and free trial	s to explore EC2	
Size	ECUs (i)	vCPUs	()	Memory (GiB)	Instance Storage (GIB)	EBS-Optimized Available	Network Performance	
t1.micro	up to 2	1		0.613	EBS only	-	Very Low	
	ro instances are	eligible for th	ne AWS	free usage t	ier. For the first 12 months tier expires or if your usage	following your AWS sign-up date, y exceeds the free tier restrictions, y	ou get up to 750 hours of ou pay standard, pay-as-	

rear instai	ncia
EC2 Management Console ×	
← → C ↑ H https://console.aws	amazon.com/ec2/v2/nome?region=eu-west-1#LaunchinstanceWizard: 🛛 🖉 😪 🔜 🔳 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 Instan Configure the instance to suit your require of the lower pricing, assign an access mai	Ce Details ments 'You can launch multiple instances from the same AMI, request Spot Instances to take advantage agement role to the instance, and more.
Number of instances	0 1
Purchasing option	Request Spot Instances
Network	() vpc-a17976ca (172.31.0.0/16) (default) C Create new VPC
Subnet	No preference (default subnet in any Availability Zor Create new subnet
Public IP	(i) Automatically assign a public IP address to your instances
IAM role	() None •
Shutdown behavior	(i) Stop •
Enable termination protection	Protect against accidental termination
Monitoring	Enable Cloudwatch detailed monitoring
	Cancel Previous Review and Launch Next: Add Storage

👔 EC2 Management	Console ×					-	□ ×
⊢⇒ C ni	https://console.aws.	amazon.com/ec2/v2/	home?region=eu-	west-1#Launchl	nstanceWizard:	© ☆	
🧊 Servio	es 🖌 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. Revie	w
Step 4: Ad	d Storage						
instance, or edit ti volumes. Learn n	he settings of the root vo	lume. You can also atta ns in Amazon EC2.	ach additional EBS v	olumes after laund	hing an instance, bi	ut not instance sto	ore
туре ()	Device ()	Snapsnot ()	Size (GIB) ()	Volume Type	() IOPS ()	Termination	n (i)
Root	/dev/sda1	snap-baaa2d5f		Standard	▼ N/A	 Image: A second s	
Add New Volu	me						
Free tier	eligible customers can g	et up to 30 GB of EBS	storage. Learn more	about free usag	e tier eligibility and u	isage restrictions.	

			<u>_</u>			
🧊 Serv	rices 👻 Edit 👻				Ramon ¥	Irela
1. Choose AMI	2. Choose Instance Type	3. Configure Instance	4. Add Storage	5. Tag Instance	6. Configure Security Gro	up
Step 5: T	ag Instance					
A tag consists o	f a case-sensitive key-valu	e pair. For example, yo	ou could define a t	ag with key = Name	e and value = Webserver	Lear
more about tag	ging your Amazon EC2 res	ources.				
Кеу (127 с	haracters maximum)		Value (255 cl	naracters maximum	1)	
Name			myServer			
Create Tag	(Up to 10 tags maximur	n)				
Create Tag	(Up to 10 tags maximur	n)				
Create Tag	(Up to 10 tags maximur	n)				
Create Tag	(Up to 10 tags maximur	n)				
Create Tag	(Up to 10 tags maximur	n)				
Create Tag	(Up to 10 tags maximur	n)				
Create Tag	(Up to 10 tags maximur	n)				
Create Tag	(Up to 10 tags maximur	n)				
Create Tag	(Up to 10 tags maximur	n)				
Create Tag	(Up to 10 tags maximur	n) Cancel Previoi	us Review ar	d Launch Ne:	xt: Configure Security	Grou

	ices 🗸	Edit 🗸				Ramon	۲ Ireland
1. Choose AMI	2. Choos	e Instance Type	3. Configure Instan	ce 4. Add Storage	5. Tag Instance	6. Configure Security	Group
Step 6: C	onfigu	re Securit	y Group				
a security group raffic to reach y ules that allow u ne below. Lear	is a set of our instanc unrestricted n more ab	firewall rules that te. For example, access to the H out Amazon EC2	t control the traffic if you want to set u TTP and HTTPS p security groups.	for your instance. C ip a web server and orts. You can create	on this page, you ca allow Internet traffi a new security gro	an add rules to allow sj c to reach your instand oup or select from an e	pecific ce, add existing
	Assign	a security grou	ip: Create a n 	ew security group			
			Select an e	existing security gro	oup		
	Secu	rity group nam	e:				
myFirstGrou	ıp						
		Descriptio	n:				
created on I	uesday, Ma	arch 4, 2014 11:45	:57 AM UIC+1				
Туре 🕕		Protocol (j)	Port	Range (j	Source (j)		
RDP	•	TCP	3389		Anywhere •	0.0.0/0	⊗
Add Rule							
Rules v rules to	ng vith source allow acce	of 0.0.0.0/0 allo ess from known ll	v all IP addresses t P addresses only.	to access your insta	nce. We recommer	nd setting security grou	ıp 🗌
					Cancel Pre	vious Review an	d Launch

	S ❤ EC	lit ∽				Ramon 👻 Irela
I. Choose AMI	2. Choose In:	stance Type	3. Configure	Instance 4. Add Storage	5. Tag Instance 6. C	onfigure Security Group
tep 7: Rev	view Ins	stance	Launch			
ease review your	instance la	unch detai e launch p	ls. You can go l rocess	back to edit changes for e	each section. Click Launch	to assign a key pair to
A Improve	your inst	ance's se	ecurity. Your	security group, mvFi	rstGroup, is open to th	e world.
Your insta	nce may be	e accessibl	e from any IP a	ddress. We recommend t	hat you update your securi	ty group rules to
allow acce You can a	ss from kno	own IP add	resses only.	urity group to facilitate ac	ress to the application or s	ervice vou're
running, e	.g., HTTP (80) for web	servers. Edit	security groups	cess to the application of s	civice you're
						Edit AM
Aivii Detalis	arocoft Wii	ndows So	nuor 2012 Bas	o - ami-4ob74739		Edit Awi
Free tier Mic	rosoft Windo	ows 2012 St	andard edition w	ith 64-bit architecture. [Eng	lish]	
	Device Type:	ebs Virtual	lization type: hvm			
eligible Root						Edit instance type
eligible Root	pe					
eligible Root	pe		Memory	Instance Storage	EBS-Optimized	Network
eligible Root	ECUs	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance
eligible Roof	ECUs	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance
eligible Roof	ECUs up to 2	vCPUs	Memory (GiB) 0.613	Instance Storage (GIB) EBS only	EBS-Optimized Available -	Network Performance Very Low

🄰 Ser	vices 🗸 🛛 Edit 🗸 Ra	amon 👻 🛛 Irel
1. Choose AMI	2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Se	curity Group
Step 7: F	Review Instance Launch	
Please review y	your instance launch details. You can go back to edit changes for each section. Click Launch to assign	a key pair to
	Select an existing key pair or create a new key pair ×	
	5 51 51	to
al Yo	A key pair consists of a public key that AWS stores, and a private key file that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required	
ru	to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.	
	Create a new key pair	Edit AMI
A	Key nair name	
Freet	myKey	
eligib	Download Key Pair	
▼ Instar		nce type
Inst	You have to download the private key file (*.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the	
Туре	file again after it's created.	e
t1.m		
	Cancel Launch Instances	

	• •		•				_ 0
👔 EC2 Management Console ×							
← → Ĉ 🏦 🗎 https://	console.aws.amazon.coi	m/ec2/v2/hom	ie?region=eu-w	est-1#Instances:			◎ ☆
🎁 Services 🗸	Edit 🗸					Ramon	 Ireland < Help
EC2 Dashboard Events	Launch Instance	Connect	Actions 👻				e 🛊 🕯
Tags	Filter: All instance	s 👻 All insta	ance types 👻	Q Search Instances	×	K < 1t	o 2 of 2 Instances \rightarrow >
INSTANCES Instances	Name 🕈 -	Instance ID	Instance Type	 Availability Zone - 	Instance State × Status	Checks 👻 Alarm S	atus Public DNS
Spot Requests		i-a16b7be2	t1.micro	eu-west-1b	🥥 pending 🛛 🛣 Ini	tializing None	5
Reserved Instances	Default-Envir	i-d987a798	t1.micro	eu-west-1c	🥚 terminated	None	6
AMIs Bundle Tasks ELASTIC BLOCK STORE Volumes Snapshots							
NETWORK & SECURITY Security Groups Elastic IPs	Instance: i-a16b7t	be2 Private	IP: 172.31.6.191	001			
Placement Groups	Description	atus Checks	Monitoring	Tags	D 1/2 D2	<u></u>	
Load Balancers	In	instance ID i	-a roor be2 pending		Public DN Public I	э - Р	
Key Pairs		istance type t	1.micro		Elastic I	Р	
Network Interfaces		Private DNS i	p-172-31-6-191.eu-	west-	Availability zon	e eu-west-1b	
							Feedback
© 2008 - 2014, Amazon We	b Services, Inc. or its affiliat	es. All rights rese	rved. Privacy Po	alicy Terms of Use			recubuch



Subir una app

• Método rápido: Amazon Elastic Beanstalk

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

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 toral con la capa gratuita	0 USD

🎁 Services 🗸 Edit 🗸		Ramon 🖌 Ireland 🖌 Hel
∦ Elastic Beanstalk		Create New Application
And	Welco Beans Compared Static Bear grow your beavy lifting Compared Select a P Color to F Node js PP Python Ruby Tomcat	and the second s
	 Get Started in Three Easy Ste 	ps
Soloct a Platform	Upload an Application or Use a	Bun it!



← → Ĉ 🕯 🔒 h	https://console.aws.amazon.com/	elasticbeansta	alk/home?region=eu-west-1#/envi	ronment/dashboard?ar 🔂 🗖
i Services				Ramon 👻 Ireland 👻 Help
🧜 Elastic Beanstal	Ik My First Elastic Beanstalk Ap	plication 🝷		Create New Environment
My First Elasti	nfo Elastic Beanstalk is now creating yo Application. ic Beanstalk Application	ur environment.	When it has finished it will be running	Sample Actions •
Dashboard Configuration	Overview			C Refresh
	Health		Running Version	Configuration
Logs Monitoring Alarms	Launchin Monitor	g	Upload and Deploy	Tomcat 7 Java 7 Edit
Logs Monitoring Alarms Events	Recent Events	g	Upload and Deploy	Tomcat 7 Java 7 Edit Show All
Logs Monitoring Alarms Events	Recent Events	g Type	Upload and Deploy	Tomcal 7 Java 7 Edit Show All
Logs Monitoring Alarms Events	Recent Events Time 2014-03-04 10:42:16 UTC+01	g Type 00 INFO	Upload and Deploy Details Using elasticbeanstalk-eu-west-1 storage bucket for environment da	Tomcal 7 Java 7 Edit Show All 199623165159 as Amazon S3 ta.







Lo que arranca Elastic Beanstalk

🗋 Welcome 🗙 👔 S3 Management Console 🗴 🛄				- □ ×
← → C A A https://console.aws.amazon.com/s3/home?region	n=eu-west-1#			୭☆ 🖬 ≡
🎁 Services 🗸 Edit 🗸			Ramon ¥	Global 🕶 He
Create Bucket Actions 😁	None	Properties	Transfers	୯
All Buckets				
Name				
elasticbeanstalk-eu-west-1-499623165159				
© 2008 - 2014, Amazon Web Services, Inc. or its affiliates. All rights reserved	Privacy Policy	Terms of Use	Fee	dback