

What is my cloud?



Who I am?

Web/Mobile Developer

Systems Engineer

(USFX)

(Scholarship 2010 Navarra Public University Spain)

Master Security Informatics

(Scholarship 2016 Salamanca University Spain)

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Developer Questions?

Localhost to Production

Hosting?
New Language Programming?
1M users?



Cloud Clients




Why use Cloud? (Economic)



HPE ProLiant DL380 Gen10 base server

with one Intel® Xeon® Silver 4110 processor, 32 GB dual rank memory, P816i-a storage controller, 12 large form factor chassis and 2 800W power supply

PRODUCT : 868710-B21

Partner	Availability	Price (USD)	Lease Option
<input type="radio"/> PCM 	 In Stock	\$4,539.99	<u>from \$137.79/mo*</u>
<input type="radio"/> Insight 	 In Stock	\$4,937.99	-

4539,99 USD



Why use Cloud? (Economic)

Select Instance Type

Operating System

☐ Windows ☒ Linux

☐ Windows and Std. SQL Server ☐ Red Hat Enterprise Linux

☐ Windows and Web SQL Server ☐ SUSE Linux Enterprise Server

☐ Windows and Enterprise SQL Server

☐ EBS-Optimized

Select	Name	vCPU	Memory (GiB)	Instance Storage (GB)	I/O	EBS Opt.	On-Demand Hourly Cost	Reserved Effective Hourly Cost (Savings %) *
<input type="radio"/>	t1.micro	1	0.6	--	Very Low	--	\$0.020	\$0.008 (60%)
<input type="radio"/>	t2.nano	1	0.5	--	Low	--	\$0.006	\$0.002 (66%)
<input type="radio"/>	t2.micro	1	1.0	--	Low to Moderate	--	\$0.012	\$0.004 (66%)
<input type="radio"/>	t2.small	1	2.0	--	Low to Moderate	--	\$0.023	\$0.009 (61%)
<input type="radio"/>	t2.medium	2	4.0	--	Low to Moderate	--	\$0.046	\$0.017 (63%)
<input type="radio"/>	t2.large	2	8.0	--	Low to Moderate	--	\$0.093	\$0.035 (62%)
<input type="radio"/>	t2.xlarge	4	16.0	--	Low to Moderate	--	\$0.186	\$0.070 (62%)
<input checked="" type="radio"/>	t2.2xlarge	8	32.0	--	Low to Moderate	--	\$0.371	\$0.140 (62%)

T2.2xlarge




Why use Cloud? (Economic)

Select Billing Option

Instance Type: t2.2xlarge
Operating System: Linux
Usage: 100 % Utilized/Month

Per Instance Prices & Projected Costs (all in USD)

Select	Name	Upfront Price	Effective Hourly Cost	Effective Monthly Cost	1 Year Cost	3 Year Cost
<input type="radio"/>	On-Demand (No Contract)	---	0.371	271.72 	3260.64	9781.92
<input type="radio"/>	1 Yr No Upfront Reserved	0.00	0.230	167.90	2014.80	6044.40
<input type="radio"/>	1 Yr Partial Upfront Reserved	959.00	0.219	159.86	1918.28	5754.84
<input type="radio"/>	1 Yr All Upfront Reserved	1880.00	0.215	156.67	1880.00	5640.00
<input type="radio"/>	3 Yr No Upfront Reserved	0.00	0.160	117.09	---	4215.24
<input type="radio"/>	3 Yr Partial Upfront Reserved	1951.00	0.148	108.37	---	3901.12
<input checked="" type="radio"/>	3 Yr All Upfront Reserved	3668.00	0.140	101.89	---	3668.00
<input type="radio"/>	3 Yr No Upfront Convertible	0.00	0.184	134.61	---	4845.96
<input type="radio"/>	3 Yr Partial Upfront Convertible	2244.00	0.171	124.68	---	4488.24
<input type="radio"/>	3 Yr All Upfront Convertible	4398.00	0.167	122.17	---	4398.00

Close

Close and Save

3668 USD



Why use Cloud? (Engineering)

Auto Scaling
Load Balancing
Snapshots
Backups
ServerLess



Why use Cloud? (Engineering)



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with one Intel® Xeon® Silver 4110 processor, 32 GB dual rank memory, P816i-a storage controller, 12 large form factor chassis and 2 800W power supply

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<input type="radio"/> Insight <small>i</small>	■ In Stock	\$4,937.99	-

32Gb x 1024 Mb = **32768 Mb**

App → 4Mb/User = **8192 user**

100.000 users?



Why use cloud? (Productivity)

USE YOUR TIME FOR
YOUR BUSINESS

Not for infrastructure



Google Cloud - Compute Engine



Google Cloud Platform



Google Cloud - Compute Engine



Por qué elegir Google

Productos

Soluciones

Launcher

Precios

Clientes

Documentación



PRUE

Diseña el futuro Desarrolla mejor software, más rápido

- ✓ Utiliza la infraestructura base, el análisis de datos y el sistema de aprendizaje automático de Google.
- ✓ Es seguro y cuenta con todas las funciones que necesita cualquier empresa.
- ✓ Comprometido con el software libre, y con un precio y un rendimiento sin precedentes.



PRUEBALO GRATIS

CONTACTAR CON VENTAS



Google Cloud - Compute Engine

Tipo de pago



Pagos automáticos mensuales

Pagas todos los meses a través de un cargo automático cuando vence el pago.

Método de pago ⓘ



Mastercard •••7207 



La dirección de la tarjeta de crédito o de débito es la misma que figura arriba.

[Iniciar la versión de prueba gratuita](#)



Google Cloud Platform

Hola, victor

Muchas gracias por haberte registrado en la prueba gratuita de 12 meses.

Tienes a tu disposición un crédito de 300 USD para que los gastes en el periodo de prueba. No te preocupes si lo gastas todo, ya que no te cobraremos hasta que tengamos tu consentimiento.

[ENTENDIDO](#)



Google Cloud - Compute Engine

Guías de inicio rápido



Prueba Compute Engine

En este tutorial aprenderás a crear una instancia de VM de Linux en Compute Engine.



Crea una aplicación de libro de visitas en Container Engine

Despliega una aplicación de libro de visitas con Google Container Engine y Kubernetes.

Soluciones populares



App Engine

Google

Una plataforma para crear aplicaciones web y móviles que se escalan automáticamente.



Compute Engine

Google

Máquinas virtuales escalables de alto rendimiento



Google Cloud - Compute Engine


Inicio rápido de Compute Engine


¿Quieres crear un proyecto o usar uno ya disponible?

Crear proyecto

Seleccionar un proyecto

Nuevo proyecto

 Te quedan 4 proyectos en la cuota. [Obtén más información.](#)

Nombre del proyecto 

linuxcloud

El ID del proyecto será linuxcloud-187714  [Editar](#)

Crear

Cancelar



Google Cloud - Compute Engine

Google Cloud Platform linuxcloud

Inicio

Las chinchetas aparecen aquí

- Cloud Launcher
- Facturación
- APIs y servicios
- Asistencia
- IAM y administración
- Primeros pasos

RECURSOS INFORMÁTICOS

- App Engine
- Compute Engine
- Kubernetes Engine
- Cloud Functions

PANEL DE CONTROL ACTIVIDAD

Información del proyecto

Nombre de proyecto
linuxcloud

ID de proyecto
linuxcloud-187714

Número del proyecto
58355930196

→ Ir a la configuración del proyecto

Recursos

Compute Engine
No tienes permiso para ver esta información

Traza

No hay datos de trazas de los últimos 7 días

Compute Engine

CPU (%)

Este gráfico no contiene datos


→ Ir al panel de control de Compute Engine

APIs

Solicitudes (solicitudes/s)

Este gráfico no contiene datos

Google Cloud - Compute Engine

 **Compute Engine**

- Instancias de VM**
- Grupos de instancias
- Plantillas de instancias
- Discos
- Capturas
- Imágenes
- Descuentos por uso confir...
- Metadatos
- Comprobaciones estado
- Zonas
- Operaciones

Instancias de VM

Compute Engine se está preparando y puede tardar un minuto o más. [Documentación de Compute Engine](#)

Compute Engine
Instancias de VM

Con Compute Engine puedes utilizar máquinas virtuales ejecutadas en la infraestructura de Google. Puedes elegir desde micromáquinas virtuales hasta instancias de gran tamaño que ejecuten Debian, Windows u otras imágenes estándar. Crea tu primera instancia de VM e impórtala con el servicio de migración CloudEndure, o prueba el inicio rápido para compilar una aplicación de muestra.

Crear

o


Importar


o

Usar inicio rápido





Google Cloud - Compute Engine

[←](#) Crear una instancia 


Nombre 

instancialinux

Zona 


us-east1-b 

Tipo de máquina
Customize to select cores, memory and GPUs.


micro (1 vCPU c.. 


0,6 GB de memoria [Personalizar](#)

[Actualiza la cuenta](#) para crear instancias con un máximo de 64 núcleos

Contenedor 

☐ Desplegar una imagen de contenedor en esta instancia de VM. [Más información](#)

Disco de arranque 



Nuevo disco persistente estándar de 10 GB

Imagen


Debian GNU/Linux 9 (stretch)


[Cambiar](#)


4,28 \$ al mes (estimación)

Tarifa por horas efectiva: 0,006 \$ (730 horas)

Tus primeras 744 horas de la instancia f1-mi [información](#)

Elemento
1 vCPU compartida + 0,6 GB de memoria
Disco persistente estándar de 10 GB
Descuento por uso continuado 
Total

[Precios de Compute Engine](#) 

 [Menos](#)



Google Cloud - Compute Engine

Machine type	Virtual CPUs	Memory	Price (USD)	Preemptible price (USD)
n1-standard-1	1	3.75GB	\$0.0475	\$0.0100
n1-standard-2	2	7.5GB	\$0.0950	\$0.0200
n1-standard-4	4	15GB	\$0.1900	\$0.0400
n1-standard-8	8	30GB	\$0.3800	\$0.0800
n1-standard-16	16	60GB	\$0.7600	\$0.1600
n1-standard-32	32	120GB	\$1.5200	\$0.3200
n1-standard-64	64	240GB	\$3.0400	\$0.6400
n1-standard-96 (Beta) Skylake Platform only	96	360GB	\$4.5600	\$0.9600



Google Cloud - Compute Engine

Disco de arranque

Selecciona una imagen o captura para crear un disco de arranque nuevo o acopla uno disponible

Imágenes del SO

Imágenes de la aplicación

Imágenes personalizadas

Capturas

Discos disponibles

- ☐ Debian GNU/Linux 8 (jessie)
amd64 built on 2017-11-29
- ☐ Debian GNU/Linux 9 (stretch)
amd64 built on 2017-11-29
- ☐ CentOS 6
x86_64 built on 2017-11-29
- ☐ CentOS 7
x86_64 built on 2017-11-29
- ☐ CoreOS alpha 1590.1.0
amd64-usr published on 2017-11-30
- ☐ CoreOS beta 1576.3.0
amd64-usr published on 2017-11-30
- ☐ CoreOS stable 1520.9.0
amd64-usr published on 2017-11-30
- ☐ Ubuntu 14.04 LTS
amd64 trusty image built on 2017-11-15
- ☒ Ubuntu 16.04 LTS
amd64 xenial image built on 2017-11-21
- ☐ Ubuntu 17.04
amd64 zesty image built on 2017-11-21

¿No encuentras lo que buscas? Explora cientos de soluciones de VM en [Cloud Launcher](#)

Tipo de disco de arranque ?

Tamaño (GB) ?

Disco persistente estándar ▼

10

Seleccionar

Cancelar



Google Cloud - Compute Engine

Identidad y acceso de API ?

Cuenta de servicio ?

Compute Engine default service account

Alcance del acceso ?

- ☒ Permitir el acceso predeterminado
- ☐ Permitir el acceso completo a todas las API de Cloud
- ☐ Definir acceso para cada API

Cortafuegos ?

Añade reglas de cortafuegos y etiquetas para permitir tráfico de red concreto de Internet

- ☒ Permitir el tráfico HTTP
- ☐ Permitir el tráfico HTTPS

Administración

Discos

Redes

Claves SSH

Descripción (Opcional)

instancia linux test

Etiquetas ? (Opcional)

+ Añadir etiqueta



Google Cloud - Compute Engine

Filtrar las instancias de VM

?

Columnas

<div><div><div></div></div></div> <div>Nombre ^</div>	Zona	Recomendación	IP interna	IP externa	Conectar
<div><div><div></div></div><div><div></div> instancialinux</div></div>	us-east1-b		10.142.0.2	35.185.102.104 <div></div>	SSH <div></div> <div></div>



Google Cloud - Compute Engine

Instanc... de VM



MOSTRAR PANEL DE INFORMACIÓN



Filtrar las instancias de VM



Columnas ▾

<input checked="" type="checkbox"/> Nombre ^	Zona	Recomendación	IP interna	IP externa	Conectar
<input checked="" type="checkbox"/>  instancialinux	us-east1-b		10.142.0.2	35.185.102.104 	SSH ▾ 

Abrir en la ventana del navegador

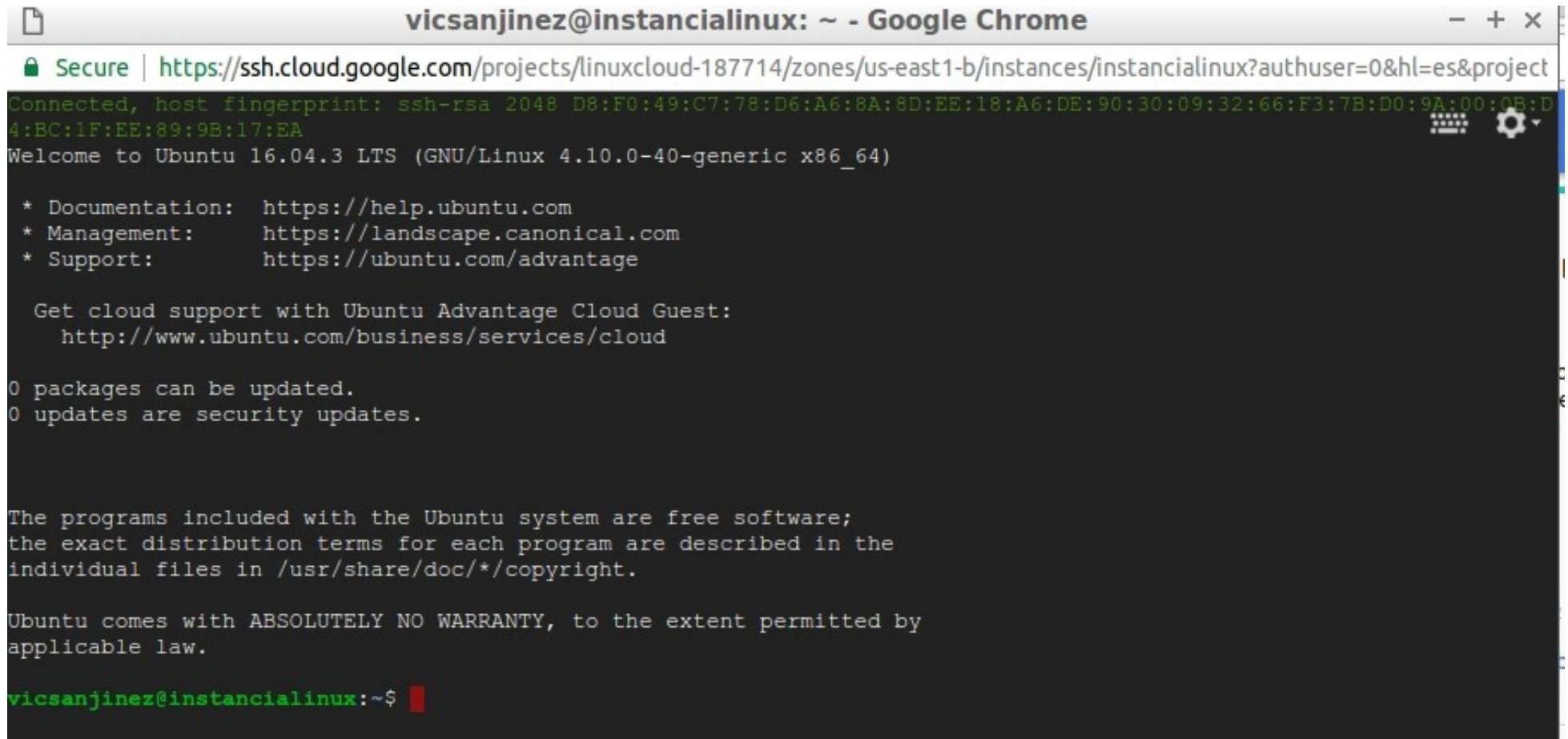
Abrir en una ventana de navegador en un puerto personalizado

Ver comando gcloud

Utilizar otro cliente de SSH



Google Cloud - Compute Engine



The screenshot shows a Google Chrome browser window with the address bar displaying a secure SSH connection to a Google Cloud Compute Engine instance. The browser window has a title bar that reads "vicsanjinez@instancialinux: ~ - Google Chrome". The address bar shows a "Secure" lock icon followed by the URL: <https://ssh.cloud.google.com/projects/linuxcloud-187714/zones/us-east1-b/instances/instancialinux?authuser=0&hl=es&project>. The main content area of the browser displays the output of an SSH session. It starts with a connection message showing the host fingerprint: "Connected, host fingerprint: ssh-rsa 2048 D8:F0:49:C7:78:D6:A6:8A:8D:EE:18:A6:DE:90:30:09:32:66:F3:7B:D0:9A:00:0B:D4:BC:1F:EE:89:9B:17:EA". This is followed by the Ubuntu 16.04.3 LTS login banner, which includes the kernel version "GNU/Linux 4.10.0-40-generic x86_64" and links for documentation, management, and support. The banner also mentions that 0 packages can be updated and 0 security updates are available. At the bottom, there is a disclaimer about the Ubuntu system being free software and the warranty provided. The prompt "vicsanjinez@instancialinux:~\$" is visible at the bottom of the terminal window.

```
vicsanjinez@instancialinux: ~ - Google Chrome
Secure | https://ssh.cloud.google.com/projects/linuxcloud-187714/zones/us-east1-b/instances/instancialinux?authuser=0&hl=es&project
Connected, host fingerprint: ssh-rsa 2048 D8:F0:49:C7:78:D6:A6:8A:8D:EE:18:A6:DE:90:30:09:32:66:F3:7B:D0:9A:00:0B:D4:BC:1F:EE:89:9B:17:EA
Welcome to Ubuntu 16.04.3 LTS (GNU/Linux 4.10.0-40-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

Get cloud support with Ubuntu Advantage Cloud Guest:
http://www.ubuntu.com/business/services/cloud

0 packages can be updated.
0 updates are security updates.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

vicsanjinez@instancialinux:~$
```

Google Cloud - Compute Engine

```
vicsanjinez@instancialinux:~$ uname -a
Linux instancialinux 4.10.0-40-generic #44~16.04.1-Ubuntu SMP Thu Nov 9 15:37:44 UTC 2017 x86_64 x86_64 x86_64 GNU/Linux
vicsanjinez@instancialinux:~$ apt-get update
Reading package lists... Done
W: chmod 0700 of directory /var/lib/apt/lists/partial failed - SetupAPTPartialDirectory (1: Operation not permitted)
E: Could not open lock file /var/lib/apt/lists/lock - open (13: Permission denied)
E: Unable to lock directory /var/lib/apt/lists/
W: Problem unlinking the file /var/cache/apt/pkgcache.bin - RemoveCaches (13: Permission denied)
W: Problem unlinking the file /var/cache/apt/srcpkgcache.bin - RemoveCaches (13: Permission denied)
vicsanjinez@instancialinux:~$ sudo apt-get update
Hit:1 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial InRelease
Get:2 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial-updates InRelease [102 kB]
Get:3 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial-backports InRelease [102 kB]
Get:4 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial/main Sources [868 kB]
Get:5 http://security.ubuntu.com/ubuntu xenial-security InRelease [102 kB]
Get:6 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial/restricted Sources [4,808 B]
Get:7 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial/universe Sources [7,728 kB]
Hit:8 http://archive.canonical.com/ubuntu xenial InRelease
Get:9 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial/multiverse Sources [179 kB]
Get:10 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial-updates/main Sources [285 kB]
Get:11 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial-updates/restricted Sources [3,404 B]
Get:12 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial-updates/universe Sources [184 kB]
Get:13 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial-updates/multiverse Sources [7,600 B]
Get:14 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial-updates/main amd64 Packages [670 kB]
Get:15 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial-updates/main Translation-en [280 kB]
Get:16 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial-updates/universe amd64 Packages [561 kB]
Get:17 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial-updates/universe Translation-en [227 kB]
Get:18 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial-backports/main Sources [3,428 B]
Get:19 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial-backports/universe Sources [4,948 B]
Get:20 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial-backports/universe amd64 Packages [6,624 B]
Get:21 http://us-east1.gce.archive.ubuntu.com/ubuntu xenial-backports/universe Translation-en [3,768 B]
Get:22 http://security.ubuntu.com/ubuntu xenial-security/main Sources [103 kB]
Get:23 http://security.ubuntu.com/ubuntu xenial-security/restricted Sources [2,600 B]
Get:24 http://security.ubuntu.com/ubuntu xenial-security/universe Sources [46.0 kB]
Get:25 http://security.ubuntu.com/ubuntu xenial-security/multiverse Sources [1,140 B]
Get:26 http://security.ubuntu.com/ubuntu xenial-security/main amd64 Packages [397 kB]
Get:27 http://security.ubuntu.com/ubuntu xenial-security/main Translation-en [175 kB]
Get:28 http://security.ubuntu.com/ubuntu xenial-security/universe amd64 Packages [183 kB]
Get:29 http://security.ubuntu.com/ubuntu xenial-security/universe Translation-en [96.5 kB]
Fetched 12.3 MB in 2s (4,702 kB/s)
Reading package lists... 77%
```

WUW insatisfecio

Google Cloud - Compute Engine


```
studio@instancialinux:~$ sudo apt-get install apache2  
studio@instancialinux:~$ sudo service apache2 start
```



Google Cloud - Compute Engine

Apache2 Ubuntu D x

← → ↻ ⓘ 35.185.102.104



Apache2 Ubuntu Default Page

ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|   |-- ports.conf
|-- mods-enabled
|   |-- *.load
|   |-- *.conf
|-- conf-enabled
|   |-- *.conf
|-- sites-enabled
|   |-- *.conf
```

AWS - EC2



AWS - EC2

The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo, 'Services' dropdown, 'Resource Groups' dropdown, and a search icon. Below this, the 'AWS services' section is displayed. It includes a search bar with the placeholder text 'Find a service by name or feature (for example, EC2, S3 or VM, storage)'. Under the 'Recently visited services' section, 'EC2' is listed with its icon. The 'All services' section is expanded, showing a grid of service categories: Compute (EC2, Elastic Container Service, Lightsail, Elastic Beanstalk, Lambda, Batch), Storage (S3, EFS, Glacier, Storage Gateway), Database, Developer Tools (CodeStar, CodeCommit, CodeBuild, CodeDeploy, CodePipeline, X-Ray), Management Tools (CloudWatch, CloudFormation, CloudTrail, Config, OpsWorks, Service Catalog, Trusted Advisor), Internet of Things (AWS IoT, AWS Greengrass), Contact Center (Amazon Connect), Game Development (Amazon GameLift), and Mobile Services (Mobile Hub, Cognito, Device Farm).

AWS services

Find a service by name or feature (for example, EC2, S3 or VM, storage).

✓ Recently visited services

EC2

✓ All services

Compute <ul style="list-style-type: none">EC2Elastic Container ServiceLightsail Elastic BeanstalkLambdaBatch	Developer Tools <ul style="list-style-type: none">CodeStarCodeCommitCodeBuildCodeDeployCodePipelineX-Ray	Internet of Things <ul style="list-style-type: none">AWS IoTAWS Greengrass
Storage <ul style="list-style-type: none">S3EFSGlacierStorage Gateway	Management Tools <ul style="list-style-type: none">CloudWatchCloudFormationCloudTrailConfigOpsWorksService CatalogTrusted Advisor	Contact Center <ul style="list-style-type: none">Amazon Connect
Database		Game Development <ul style="list-style-type: none">Amazon GameLift
		Mobile Services <ul style="list-style-type: none">Mobile HubCognitoDevice Farm

AWS - EC2

The screenshot displays the AWS Management Console interface for the EC2 service. At the top, the navigation bar includes the AWS logo, 'Services' with a dropdown arrow, 'Resource Groups' with a dropdown arrow, and a pin icon. The left-hand navigation pane is titled 'EC2 Dashboard' and lists various options: 'Events', 'Tags', 'Reports', 'Limits', 'INSTANCES' (with a minus icon), 'Images' (with a minus icon), and 'ELASTIC BLOCK STORE' (with a minus icon). Under 'INSTANCES', there are links for 'Instances', 'Spot Requests', 'Reserved Instances', 'Scheduled Instances', and 'Dedicated Hosts'. Under 'Images', there are links for 'AMIs' and 'Bundle Tasks'. The main content area is titled 'Resources' and states, 'You are using the following Amazon EC2 resources in the US West (Oregon) region:'. It lists the following resource counts: 1 Running Instances, 0 Dedicated Hosts, 3 Volumes, 3 Key Pairs, 0 Placement Groups, 1 Elastic IPs, 1 Snapshots, 0 Load Balancers, and 4 Security Groups. Below this list is a light blue promotional box for 'EC2 Spot' with the text 'Save up to 90% off On-Demand Prices. Turbo Boost your Workloads. [Get started with EC2 Spot.](#)'. At the bottom of the main content area, there is a section titled 'Create Instance' with the text 'To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance' and a prominent blue 'Launch Instance' button.

aws Services ▾ Resource Groups ▾

EC2 Dashboard

- Events
- Tags
- Reports
- Limits
- ▾ INSTANCES
 - Instances
 - Spot Requests
 - Reserved Instances
 - Scheduled Instances
 - Dedicated Hosts
- ▾ IMAGES
 - AMIs
 - Bundle Tasks
- ▾ ELASTIC BLOCK STORE

Resources

You are using the following Amazon EC2 resources in the US West (Oregon) region:

1 Running Instances	1 Elastic IPs
0 Dedicated Hosts	1 Snapshots
3 Volumes	0 Load Balancers
3 Key Pairs	4 Security Groups
0 Placement Groups	

EC2 Spot. Save up to 90% off On-Demand Prices. Turbo Boost your Workloads. [Get started with EC2 Spot.](#)

Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance

Launch Instance

AWS - EC2

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

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

Community AMIs

☐ Free tier only ⓘ

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes



Red Hat Enterprise Linux 7.4 (HVM), SSD Volume Type - ami-9fa343e7

Select

64-bit

Red Hat

Free tier eligible

Red Hat Enterprise Linux version 7.4 (HVM), EBS General Purpose (SSD) Volume Type

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes



SUSE Linux Enterprise Server 12 SP3 (HVM), SSD Volume Type - ami-e3ef329b

Select

64-bit

SUSE Linux

Free tier eligible

SUSE Linux Enterprise Server 12 Service Pack 3 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes



Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-0a00ce72

Select

64-bit

Free tier eligible

Ubuntu Server 16.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes



Microsoft Windows Server 2016 Base - ami-343ef84c

Select

64-bit

Windows

Free tier eligible

Microsoft Windows 2016 Datacenter edition. [English]

AWS - EC2

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation [Show/Hide Columns](#)

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes

[Cancel](#)

[Previous](#)

[Review and Launch](#)

[Next: Configure Instance Details](#)



AWS - EC2

Q

search : i-09ed6dbcea06cb520

×

Add filter

?

K

<

1 to 1 of 1

>

<input type="checkbox"/>	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
<input type="checkbox"/>		i-09ed6dbcea06cb520	t2.micro	us-west-2a	● running	Initializing	None	ec2-34-211-255-42.us-w..

Instance: i-09ed6dbcea06cb520

Public DNS: ec2-34-211-255-42.us-west-2.compute.amazonaws.com

Description

Status Checks

Monitoring

Tags

Instance ID

i-09ed6dbcea06cb520

Instance state

running

Instance type

t2.micro

Elastic IPs

Availability zone

us-west-2a

Security groups

launch-wizard-4 . [view inbound rules](#)

Scheduled events

[No scheduled events](#)

AMI ID

ubuntu/images/hvm-ssd/ubuntu-xenial-16.04-amd64-server-20171026.1 (ami-0a00ce72)

Public DNS (IPv4)

ec2-34-211-255-42.us-west-2.compute.amazonaws.com

IPv4 Public IP

34.211.255.42

IPv6 IPs

-

Private DNS

ip-172-31-25-3.us-west-2.compute.internal

Private IPs

172.31.25.3

Secondary private IPs

VPC ID

vpc-7bd9f41c

Subnet ID

subnet-9e730bf9



AWS - EC2

```
testaws | => ssh -i testaws.pem ubuntu@34.211.255.42
```

```
ubuntu@ip-172-31-25-3:~$ wget https://bitnami.com/redirect/to/163849/bitnami-lampstack-5.6.32-0-linux-x64-installer.run
```

```
ubuntu@ip-172-31-25-3:~$ cd /home/ubuntu/lampstack-5.6.32-0/
ubuntu@ip-172-31-25-3:~/lampstack-5.6.32-0$ ls
README.txt      config          licenses        scripts
apache2         ctlscript.sh   manager-linux-x64.run  sqlite
apps            docs           mysql            uninstall
changelog.txt   git            php              uninstall.dat
common          img             properties.ini   use_lampstack
ubuntu@ip-172-31-25-3:~/lampstack-5.6.32-0$
```

```
ubuntu@ip-172-31-25-3:~/lampstack-5.6.32-0$ ./ctlscript.sh start apache
Syntax OK
/home/ubuntu/lampstack-5.6.32-0/apache2/scripts/ctl.sh : httpd (pid 2410) already running
ubuntu@ip-172-31-25-3:~/lampstack-5.6.32-0$ ./ctlscript.sh start mysql
/home/ubuntu/lampstack-5.6.32-0/mysql/scripts/ctl.sh : mysql started at port 3306
```



AWS - EC2

← → ↻ ⓘ 34.211.255.42



WELCOME

APPLICATIONS



We created the Bitnami Project to help spread the adoption of freely available, high quality Open Source web applications. Bitnami aims to make it easier than ever to discover, download and install Open Source software such as document and content management systems, wikis and blogging software.

You can learn more about Bitnami at <https://bitnami.com>

The Bitnami LAMP Stack is an easy to install software platform that greatly simplifies the deployment of Open Source web stacks. It includes ready-to-run versions of Apache, MySQL and PHP. Bitnami LAMP Stack is distributed for free under the Apache 2.0 license.

To get started with Bitnami LAMP Stack we suggest the following:

- 1.- [Check our documentation](#). The stack is self-contained and independent on your system, you can find all components in your installation directory: `/home/ubuntu/lampstack-5.6.32-0`
- 2.- [Start the servers](#). Open the graphical "Manager" tool in your installation directory to start & stop the installed servers. You can also use "ctlscrip.sh" from the command line prompt.
- 3.- [Add more apps](#). Download and install any Bitnami application module to run on top of this Stack.
- 4.- [Deploy your own project](#).



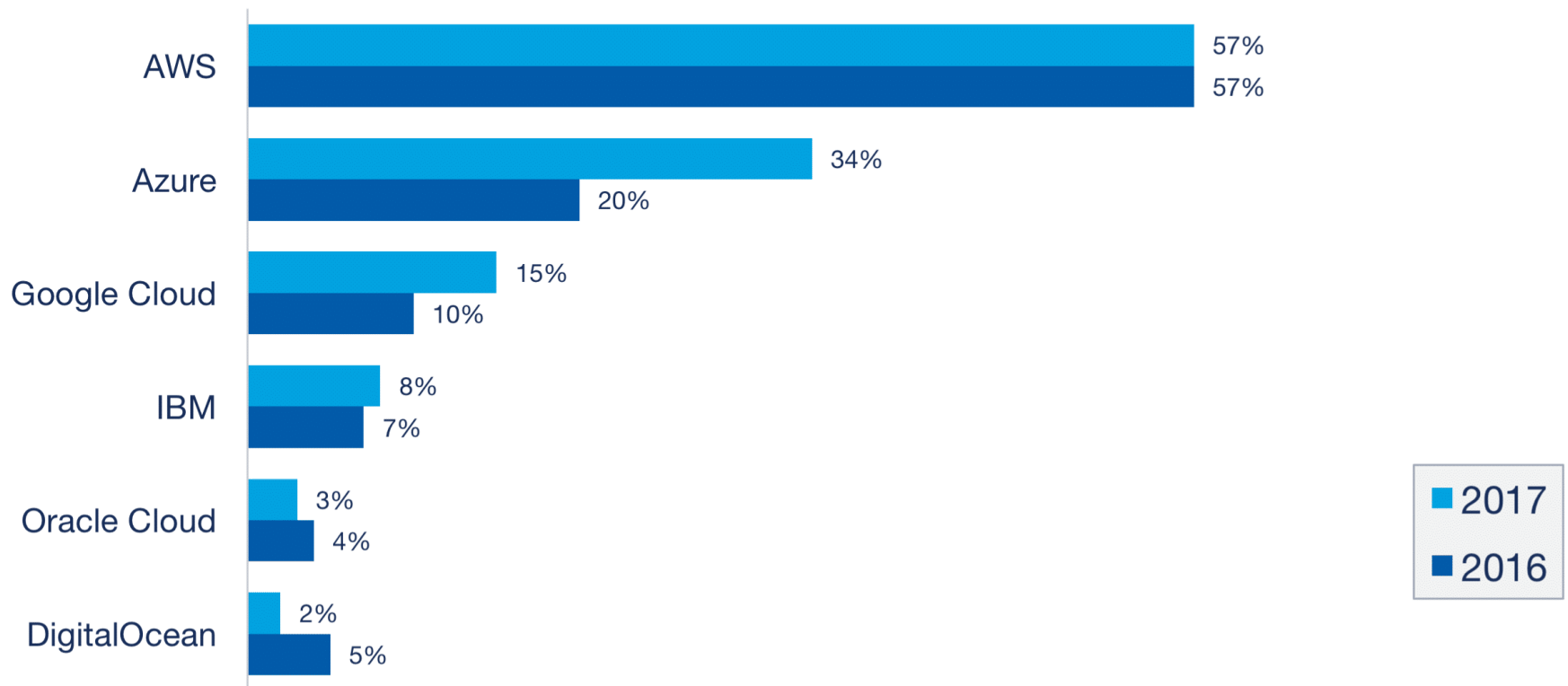
What is my cloud?



What is my cloud?

Public Cloud Adoption 2017 vs. 2016

% of Respondents Running Applications



Source: RightScale 2017 State of the Cloud Report



What is my cloud?

AWS

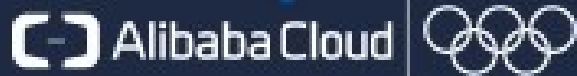
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- 2.-** AWS Educate Free 75 USD without Credit Card
- 3.-** Just Classic Terminal
- 4.-** No available
- 5.-** AWS Activate for Startups (1000 USD) Be a new services with a website and business email

Google Cloud

- 1.-** Just Linux, Windows, and some optimized
- 2.-** Free 300 USD with Credit Card
- 3.-** Terminal Web
- 4.-** Mobile App Android/IOS for Administration
- 5.-** Google Cloud for Startups (20000 USD) Be part of a risk capital, accelerator or incubator fund



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