

Big Data Training

Amazon Web Services

Introducción

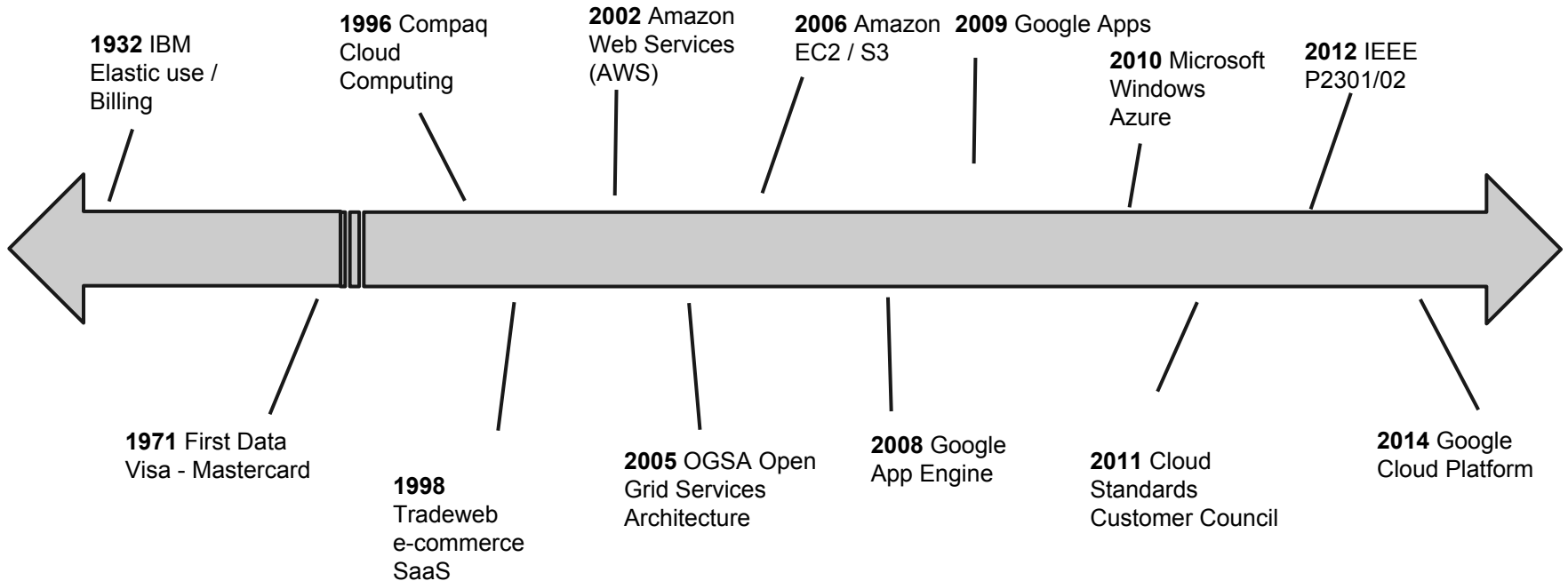
Cloud computing o computación en nube es un **paradigma** para ofrecer **servicios** de computación en Internet.



Introducción

- > Ilusión de **recursos** de computación **infinitos** disponibles **bajo demanda**.
- > **Eliminación** de **compromisos tempranos** de los Cloud Users
- > **Pagar** por el **uso** de recursos de computación

Evolución



Estandarización

A Standard Isn't a Document - It's a Process!

- > IEEE P2301 (Cloud Profiles)
- > IEEE P2302 (Intercloud)

Otros Paradigmas

Cloud Computing

vs

In House



Ventajas

Escalabilidad

> Crecimiento y decrecimiento de las instancias según la necesidad del sistema. Convertir CapEx a OpEx.

Ventajas

Disponibilidad del servicio

> La disponibilidad del servicio es mayor en un ámbito distribuido como también su elasticidad para evitar ataques DoS y DDoS.

Ventajas

Costo

> El costo es menor en términos de inversión, mantenimiento, cambio y migración de la tecnología actual.

Ventajas

Actualizaciones automáticas

> Las actualizaciones de SW/HW quedan delegadas al proveedor de cloud dependiendo del modelo de servicio.

Ventajas

Replicación

- > Facilidad de replicar instancias y servicios
- > Generación de backups y deploy de servicios para testing.

Ventajas

Uso de Energía

> Los datacenters consumen mucha energía. En la nube los nodos son usados de manera más eficiente.

Inconvenientes

Ataques EDoS (Economic Denial of Sustainability)

> Ante un ataque DoS/DDoS se genera un escalamiento dinámico del servicio para evitar que el servicio caiga. Esto puede provocar un aumento del costo económico y perjudicar al servicio.

> **Solución: Capacity Planning**

Inconvenientes

Vendor Lock-in

> La mayoría de las API de servicio son cerradas (clientes cautivos!)

> **Solución: Standards**

Inconvenientes

Confidencialidad de la información y auditabilidad

> La geolocalización distribuida de la información puede generar conflictos con las legislaciones de diferentes países.

> **Solución: Cloud Geolocalizadas**

Inconvenientes

Reputación compartida entre Cloud User y Cloud provider

> La mala praxis por parte de un usuario puede afectar la reputación de otro, por ejemplo que su IP sea blacklistada.

> **Solución: políticas en los proveedores de servicio**

Inconvenientes

Reproducción de errores en entornos de desarrollo

> La replicación de errores se puede dificultar si no se conoce con detalle la infraestructura sobre la que se trabaja.

> **Solución: soluciones open source**

Inconvenientes

Privacidad!

> La información de carácter sensible está expuesta a terceros que pueden copiarla o acceder a ella.

> **Solución: proveedores confiables / Criptografía**

Modelos

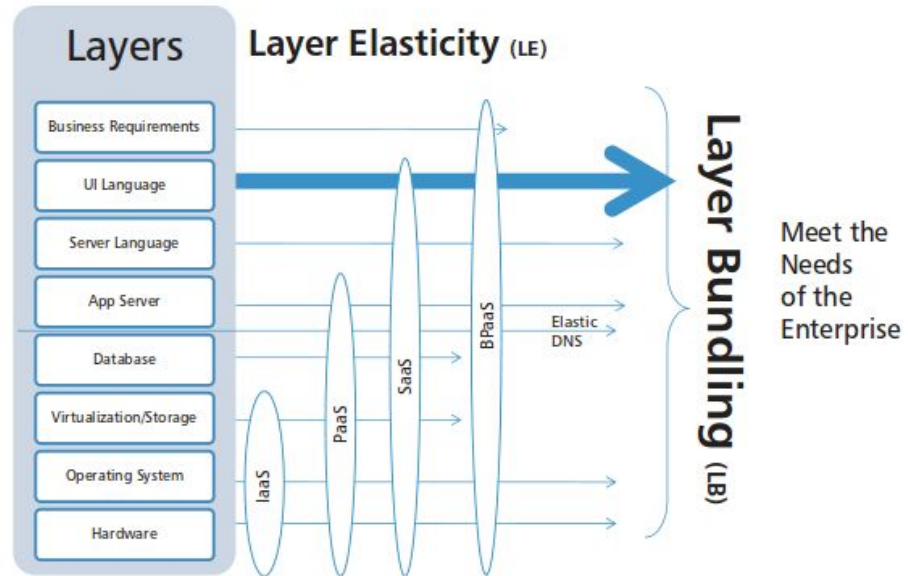
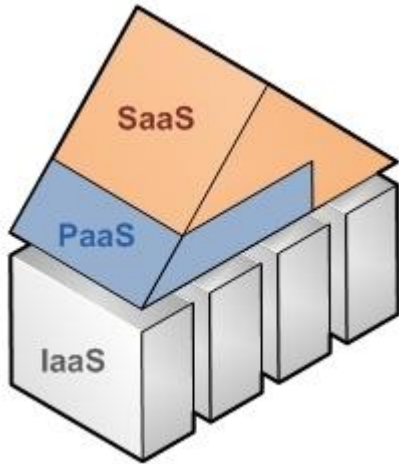


Figure 1 — The cloud is a convergence of layer elasticity and layer bundling.

IaaS

Infrastructure as a Service

> Es un medio de entregar almacenamiento y capacidades de cómputo, virtualización y clustering, entre otros.

(Amazon EC2, Eucalyptus, IBM SBC, GoGrid, OpenNebula, Rackspace, RHEV-M, RimuHosting, Terremark, vSphere, OpenStack, FGCP)

IaaS - Amazon EC2

All AWS Services

Compute

Storage & Content Delivery

Database

Networking

Administration & Security

Analytics

Application Services

Deployment & Management

Mobile Services

Enterprise Applications



EC2



Amazon Elastic Compute Cloud (EC2) provides resizable compute capacity in the cloud.



Lambda

AWS Lambda is a compute service that runs your code in response to events and automatically manages the compute resources for you.

IaaS - Amazon EC2

AWS Services Edit [AWS-13] HPS Big Data N. Virginia Support

EC2 Dashboard Events Tags Reports Limits

INSTANCES

- Instances
- Spot Requests
- Reserved Instances

IMAGES

- AMIs
- Bundle Tasks

ELASTIC BLOCK STORE

- Volumes
- Snapshots

NETWORK & SECURITY

- Security Groups
- Elastic IPs
- Placement Groups
- Load Balancers
- Key Pairs
- Network Interfaces

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

| Name | Instance ID | Instance Type | Availability Zone | Instance State | Status Checks | Alarm Status | Public DNS | Public IP |
|------------|-------------|---------------|-------------------|----------------|---------------|--------------|------------|---------------|
| Training-1 | i-6048ec8c | m3.medium | us-east-1a | running | 2/2 checks... | None | | 54.172.223.97 |
| HR | i-60a30f4d | t2.medium | us-east-1a | running | 2/2 checks... | None | | 54.86.167.90 |
| Training-2 | i-6148ec8d | m3.medium | us-east-1a | running | 2/2 checks... | None | | |
| Training-3 | i-6248ec8e | m3.medium | us-east-1a | running | 2/2 checks... | None | | |
| Training-4 | i-6348ec8f | m3.medium | us-east-1a | running | 2/2 checks... | None | | |

Instance: i-6048ec8c (Training-1) Elastic IP: 54.172.223.97

Description Status Checks Monitoring Tags

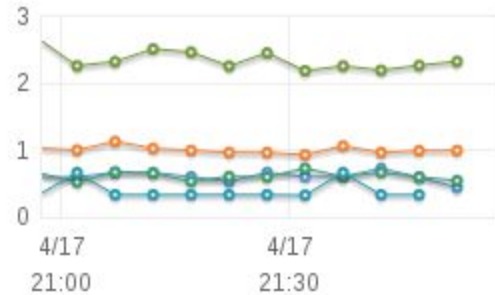
| | | | |
|-----------------------|-----------------------------|-------------------|---|
| Instance ID | i-6048ec8c | Public DNS | - |
| Instance state | running | Public IP | 54.172.223.97 |
| Instance type | m3.medium | Elastic IP | 54.172.223.97 |
| Private DNS | ip-179-30-0-26.ec2.internal | Availability zone | us-east-1a |
| Private IPs | 179.30.0.26 | Security groups | Training . view rules |
| Secondary private IPs | | Scheduled events | No scheduled events |
| VPC ID | vpc-2940d04c | AMI ID | amzn-ami-hvm-2014.09.1.x86_64-eb (ami-b66ed3de) |
| Subnet ID | subnet-53d5090a | Platform | - |

IaaS - Amazon EC2

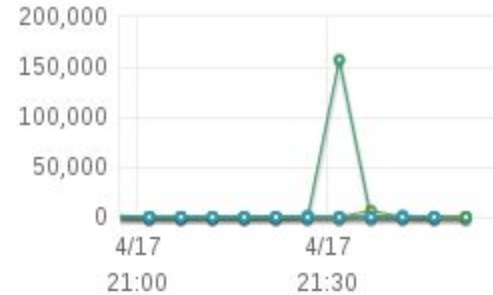
| | vCPU | ECU | Memoria (GiB) | Almacenamiento de instancias (GB) | Uso de Linux/UNIX |
|---------------------------------|------|-----|---------------|-----------------------------------|-------------------|
| Uso general – Generación actual | | | | | |
| m3.medium | 1 | 3 | 3.75 | 1 x 4 SSD | \$0.070 por hora |
| m3.large | 2 | 6.5 | 7.5 | 1 x 32 SSD | \$0.140 por hora |
| m3.xlarge | 4 | 13 | 15 | 2 x 40 SSD | \$0.280 por hora |
| m3.2xlarge | 8 | 26 | 30 | 2 x 80 SSD | \$0.560 por hora |

IaaS - Amazon EC2

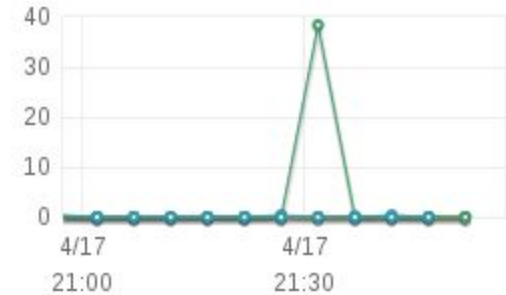
CPU Utilization (Percent)



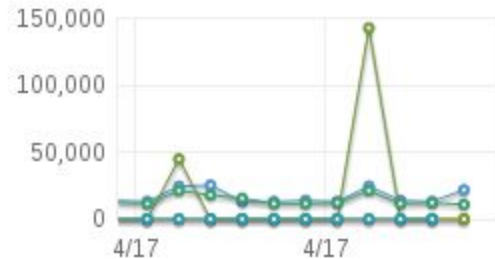
Disk Reads (Bytes)



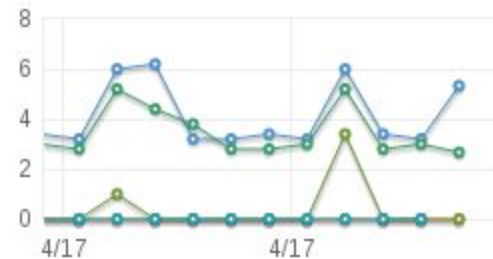
Disk Read Operations (Operations)



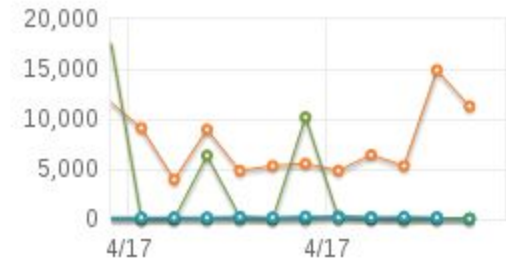
Disk Writes (Bytes)



Disk Write Operations (Operations)



Network In (Bytes)



IaaS - Amazon EC2

EC2 Dashboard

Events

Tags

Reports

INSTANCES

Instances

Spot Requests

Reserved Instances

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Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots

Create Volume

Actions

Filter: All volumes

Search Volumes

1 to 6 of 6 Volumes

| <input type="checkbox"/> | Name | Volume ID | Capacity | Volume Type | Snapshot | Created | Zone | State | Alarm Status | Attach |
|--------------------------|------|--------------|----------|-------------|---------------|-------------------------|------------|-----------|--------------|----------|
| <input type="checkbox"/> | | vol-b57299b8 | 125 GiB | standard | snap-cdb10e25 | April 16, 2014 12:41... | sa-east-1a | in-use | None | i-17f5f3 |
| <input type="checkbox"/> | | vol-03eb070e | 50 GiB | standard | snap-cb49e323 | April 1, 2014 11:28:... | sa-east-1a | in-use | None | i-b8073 |
| <input type="checkbox"/> | | vol-51769b5c | 15 GiB | standard | snap-3717bcd | March 31, 2014 3:1... | sa-east-1a | in-use | None | i-54ae9 |
| <input type="checkbox"/> | | vol-bdfb1db0 | 10 GiB | standard | snap-349f6f04 | March 17, 2014 1:5... | sa-east-1a | in-use | None | i-11e5d |
| <input type="checkbox"/> | | vol-80052cd2 | 8 GiB | standard | snap-09e74039 | November 27, 2013 ... | sa-east-1a | available | None | i-11e5d |
| <input type="checkbox"/> | | vol-e3d68cb1 | 8 GiB | standard | snap-3ac4210a | October 18, 2013 1... | sa-east-1a | in-use | None | i-d1b4f4 |

IaaS - Amazon EC2

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Snapshots

Create Snapshot Actions

Filter: Owned By Me Search Snapshots

1 to 24 of 24 Snapshots

| | Name | Snapshot ID | Capacity | Description | Status | St |
|--------------------------|--------------------------------|---------------|----------|--|-----------|-----|
| <input type="checkbox"/> | ([REDACTED]) | snap-011bc7e9 | 8 GiB | ([REDACTED]) | completed | |
| <input type="checkbox"/> | vt5.4 | snap-07f13eef | 10 GiB | | completed | Jar |
| <input type="checkbox"/> | ([REDACTED]) | snap-081bc7e0 | 8 GiB | ([REDACTED]) | completed | Fe |
| <input type="checkbox"/> | ([REDACTED]) | snap-3023e1d8 | 8 GiB | All OK Problem with ([REDACTED]) solved! | completed | Jar |
| <input type="checkbox"/> | ([REDACTED])_AMI_VOLUME_CHANGE | snap-35b90ddd | 8 GiB | ([REDACTED]) | completed | Ap |
| <input type="checkbox"/> | | snap-3717bcd | 8 GiB | ([REDACTED]) | completed | Ma |
| <input type="checkbox"/> | (vtiger 5.4)__2014_02_04 | snap-42569eaa | 10 GiB | Testing, solo .ar | completed | Fe |
| <input type="checkbox"/> | ([REDACTED])__2014_02_04 | snap-51569eb9 | 8 GiB | All OK. | completed | Fe |
| <input type="checkbox"/> | ([REDACTED])__2014_02_04 | snap-58569eb0 | 8 GiB | All OK. Still no landing included. | completed | |

IaaS - Amazon EC2

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Launch Actions

Filter: Owned by me All images All platforms Search AMIs...

1 to 3 of 3 Images

| | Name | AMI Name | AMI ID | Source | Owner | Visibility | Status | Platform | Root D |
|--------------------------|---------------|----------|--------------|-------------------|--------------|------------|-----------|-------------|--------|
| <input type="checkbox"/> | | PROD_ARG | ami-55943648 | 439095449996/... | 439095449996 | Private | available | Other Linux | ebs |
| <input type="checkbox"/> | | _AMI | ami-a58f2db8 | 439095449996/F... | 439095449996 | Private | available | Other Linux | ebs |
| <input type="checkbox"/> | update sto... | _OLD_AMI | ami-c10dafdc | 439095449996/F... | 439095449996 | Private | available | Other Linux | ebs |

IaaS - Amazon EC2

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NETWORK & SECURITY

Security Groups

Elastic IPs

Placement Groups

Load Balancers

Key Pairs

Network Interfaces

Create Security Group Actions

Filter: All security groups Search Security Groups 1 to 16 of 16 Security Groups

| Name | Group ID | Group Name | VPC ID | Description | IP Permissions |
|------|-------------|-------------------------------|--------------|--------------------------------|----------------------|
| | sg-efadbf8d | vTiger CRM - Customer Rela... | vpc-555dce3d | This security group was gen... | 6 Permission Entries |
| | sg-fb806094 | Firewall_test | vpc-555dce3d | Firewall_test | 6 Permission Entries |

Security Group: sg-fb806094

Description Inbound Outbound Tags

Edit

| Type | Protocol | Port Range | Source |
|------------------|--------------|------------|--------------|
| Custom TCP Rule | TCP | 5432 | 201.0.0.0/24 |
| Custom TCP Rule | TCP | 8081 | 0.0.0.0/0 |
| Custom TCP Rule | TCP | 8080 | 0.0.0.0/0 |
| SSH | TCP | 22 | 0.0.0.0/0 |
| HTTP | TCP | 80 | 0.0.0.0/0 |
| Custom ICMP Rule | Echo Request | N/A | 200.0.0.0/24 |

IaaS - Amazon EC2

EC2 Dashboard

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 - Key Pairs
 - Network Interfaces

[Refresh](#)
[Settings](#)
[Help](#)

Allocate New Address | **Release Address** | **Associate Address** | **Disassociate Address**

Filter: All addresses ▾ Search Addresses X << 1 to 5 of 5 Addresses >>

| <input type="checkbox"/> | Address | Instance | Private IP Address | Scope | Public DNS |
|-------------------------------------|--------------|---------------------------------|--------------------|--------------|----------------------|
| <input type="checkbox"/> | 54.██████.7 | i-d1b4f4ce (www.██████.com) | 172.31.██████.██ | vpc-555dce3d | ██████.sa-east-1.... |
| <input type="checkbox"/> | 54.██████.█ | i-17f5f308 (app.██████.com) | 172.31.██████.██ | vpc-555dce3d | ██████.sa-east-1.... |
| <input type="checkbox"/> | 54.██████.██ | i-11e5d103 (crm.██████.com) | 172.31.██████.██ | vpc-555dce3d | ██████.sa-east-1.... |
| <input type="checkbox"/> | 54.██████.2 | i-b80739aa (crmtest.██████.com) | 172.31.██████.██ | vpc-555dce3d | ██████.sa-east-1.... |
| <input checked="" type="checkbox"/> | 54.██████.█ | i-54ae9146 (test.██████.com) | 172.31.██████.██ | vpc-555dce3d | ██████.sa-east-1.... |

Address: 54.207.80.97

| | | | |
|-------------------|--|--------------------------------|-----------------------------|
| Public IP | ██████.██████.██████.██████ | Network interface ID | eni-206a9245 |
| Instance | i-54ae9146 (test.██████.com) | Private IP address | ██████.██████.██████.██████ |
| Scope | vpc | Network interface owner | 439095449996 |
| Public DNS | ██████.sa-east-1.compute.amazonaws.com | Allocation ID | eipalloc-34a7b256 |

IaaS - Amazon EC2

Navigation

> Hosted Zones

> Health Checks

Route 53: Hosted Zones

Go to Record Sets

Create Hosted Zone

Delete Hosted Zone

Refresh

Help

Search:

1 to 4 of 4 Hosted Zones

| | Domain Name | Hosted Zone ID | Record Set Count | Comment |
|-------------------------------------|--------------------|----------------|------------------|---------|
| <input checked="" type="checkbox"/> | r[REDACTED].com. | Z5IWPYUSRT5AO | 16 | |
| <input type="checkbox"/> | [REDACTED].com.ar. | Z3KG128X6R1T8S | 4 | |
| <input type="checkbox"/> | [REDACTED].com.ar. | ZDCFQP5YPZ3JY | 5 | |
| <input type="checkbox"/> | [REDACTED].com. | Z3KQKXJDJ109EO | 13 | |

Hosted Zone Details

Domain Name:

[REDACTED].com.

Hosted Zone ID:

Z5IWPYUSRT5AO

Record Set Count:

[16](#)

Comment

Delegation Set *:

ns-302.awsdns-37.com
ns-1777.awsdns-30.co.uk
ns-1473.awsdns-56.org
ns-627.awsdns-14.net

* Before the Domain Name System will start to route queries for this domain to Route 53 name servers, you must update the name server records either with the current DNS service or with the registrar for the domain, as applicable. For more information, see Help.

IaaS - Amazon EC2

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S3

Amazon Simple Storage Service (S3) can be used to store and retrieve any amount of data.



Glacier

Amazon Glacier is a low-cost storage service that provides secure and durable storage for data archiving and backup.



CloudFront

Amazon CloudFront provides a way to distribute content to end users with low latency and high data transfer speeds.



Storage Gateway

AWS Storage Gateway securely integrates on-premises IT environments with cloud storage for backup and disaster recovery.

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RDS

Amazon Relational Database Service (RDS) provides familiar SQL databases while automatically managing administrative tasks.



DynamoDB

Amazon DynamoDB is a scalable NoSQL data store that manages distributed replicas of your data for high availability.



ElastiCache

Amazon ElastiCache improves application performance by allowing you to retrieve information from an in-memory caching system.



Redshift

Amazon Redshift is a fast, fully managed, petabyte-scale data warehouse service that lets you efficiently analyze all your data using your existing business intelligence tools.

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VPC

Amazon Virtual Private Cloud (VPC) lets you launch AWS resources in a private, isolated cloud.



Direct Connect

AWS Direct Connect lets you establish a dedicated network connection from your network to AWS.



Route 53

Amazon Route 53 is a scalable and highly available Domain Name System (DNS) and Domain Name Registration service.

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Directory Service

AWS Directory Service provides managed directories in the cloud.



Trusted Advisor

AWS Trusted Advisor inspects your AWS environment and finds opportunities to save money, improve system performance and reliability, or help close security gaps.



Config

AWS Config gives you inventory of your AWS resources, lets you audit resource configuration history, and notifies you when resource configurations change.



IAM

AWS Identity and Access Management (IAM) lets you securely control access to AWS services and resources.



CloudTrail

AWS CloudTrail provides increased visibility into user activity by recording API calls made on your account.



CloudWatch

Amazon CloudWatch provides monitoring for resources and applications.

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EMR

Amazon Elastic MapReduce lets you perform big data tasks such as web indexing, data mining, and log file analysis.



Kinesis

Amazon Kinesis is a managed service that scales elastically for real-time processing of streaming big data.



Data Pipeline

AWS Data Pipeline is a lightweight orchestration service for periodic, data-driven workflows.

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SQS

Amazon Simple Queue Service (SQS) offers a reliable, highly scalable, hosted queue for storing messages.



AppStream

Amazon AppStream lets you stream resource intensive applications and games from the cloud to multiple end-user devices.



SES

Amazon Simple Email Service (SES) is a bulk and transactional email-sending service.



SWF

Amazon Simple Workflow (SWF) coordinates all of the processing steps within an application.



Elastic Transcoder

Amazon Elastic Transcoder lets you convert your media files in the cloud easily, at low cost, and at scale.



CloudSearch

AWS CloudSearch is a fully managed search service for websites and apps.

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Elastic Beanstalk

AWS Elastic Beanstalk is an application container for deploying and managing applications.



OpsWorks

AWS OpsWorks is a DevOps platform for managing applications of any scale or complexity on the AWS cloud.



CloudFormation

AWS CloudFormation lets you create and update a collection of related AWS resources in a predictable fashion.



CodeDeploy

AWS CodeDeploy lets you fully automate code deployments.

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Cognito

Amazon Cognito is a simple user identity and data synchronization service that helps you securely manage and synchronize app data for your users across their mobile devices.



Mobile Analytics

Amazon Mobile Analytics is a service that lets you easily collect, visualize, and understand app usage data at scale.



SNS

Amazon Simple Notification Service (SNS) lets you publish messages to subscribers or other applications.

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WorkSpaces

Amazon WorkSpaces is a fully managed desktop computing service in the cloud.



Zocalo

Amazon Zocalo is a fully managed, secure enterprise storage and sharing service with strong administrative controls and feedback capabilities that improve user productivity.

PaaS

Platform as a Service

> Es la capa dentro del Cloud Computing que ofrece las herramientas de plataforma. Ej: Lenguajes de programación, pilas de desarrollo (LAMP - MEAN), bases de datos, webserver, etc.

(Heroku - Google App Engine - RedHat OpenShift)

PaaS - Google App Engine



PaaS - Google App Engine

The following components will be installed:

| | | | |
|-------|--|--------------------|--|
| ----- | | | |
| --- | | | |
| B | App Engine SDK for Go (Linux, x86_64) | 1.9.3 31.9 M | |
| B | App Engine SDK for Python and PHP | 1.9.3 35.9 M | |
| B | BigQuery Command Line Tool | 2.0.18 < 1 M | |
| B | BigQuery Command Line Tool (Platform Specific) | 2.0.18 < 1 M | |
| B | Cloud SDK Core Command Line Tools | 1 | |
| | Cloud SDK Core Libraries (Platform Specific) | 2014.04.08 < 1 M | |
| B | Cloud SDK for Go Developers | 1 | |
| | Cloud SQL Admin Command Line Interface | 2014.04.15 < 1 M | |
| B | Cloud Storage Command Line Tool | 3.42 1.8 M | |
| B | Cloud Storage Command Line Tool (Platform Specific) | 3.42 < 1 M | |
| B | Compute Engine Command Line Tool | 1.15.0 < 1 M | |
| B | Compute Engine Command Line Tool (Platform Specific) | 1.13.0 < 1 M | |
| B | | | |
| ----- | | | |
| --- | | | |

PaaS - Google App Engine

Archivo de configuración app.yaml

```
application: helloworld
version: 1
runtime: go
api_version: go1

handlers:
- url: /.*
  script: _go_app
```

PaaS - Google App Engine

| Instance Class | Memory Limit | CPU Limit | Cost per Hour per Instance |
|----------------|--------------|-----------|----------------------------|
| B1 | 128 MB | 600 Mhz | \$0.05 |
| B2 | 256 MB | 1.2 Ghz | \$0.10 |
| B4 | 512 MB | 2.4 Ghz | \$0.20 |
| B4_1G | 1024 MB | 2.4 Ghz | \$0.30 |
| B8 | 1024 MB | 4.8 Ghz | \$0.40 |
| F1 | 128 MB | 600 Mhz | \$0.05 |
| F2 | 256 MB | 1.2 Ghz | \$0.10 |
| F4 | 512 MB | 2.4 Ghz | \$0.20 |
| F4_1G | 1024 MB | 2.4 Ghz | \$0.30 |

PaaS - Google App Engine

Google app engine

[My Account](#) | [Help](#) | [Sign out](#)

My Applications

◀ Prev 20 **1-2 of 2** Next 20 ▶

| Application | Title | Storage Scheme | Status |
|-------------------------------------|--------------------|------------------|---------------|
| fifth-incentive-553 | My First Project 1 | High Replication | None Deployed |
| fine-transit-553 | My First Project | High Replication | None Deployed |

Create Application

You have 23 applications remaining.

◀ Prev 20 **1-2 of 2** Next 20 ▶

PaaS - Google App Engine



SaaS

Software as a Service

> Es un modelo para ofrecer el software como servicio, dejando al usuario solo la configuracion y utilizacion del mismo.

(ERP- CRM -BLOGS -FOROS - NOTICIAS - EMAILS - DOCS)

SaaS - Bitnami

The screenshot shows the Bitnami SaaS dashboard. On the left is a sidebar with navigation links: Dashboard, Noticias, Servidores, Backups, Monitorización, Programado, Clouds, Importar Servidores, Usuario, and Facturación. The main content area has a large blue banner with the text 'Awesome!' and 'Bitnami hace que alojar aplicaciones en la Cloud sea un proceso simple y agradable'. A green button labeled 'Crear Servidor' is in the top right of the banner, with the text 'Lanza tus aplicaciones favoritas en segundos' below it. Below the banner are four panels: 'Servidores Arrancados' (showing 'No hay servidores arrancados' and a 'Nuevo Servidor' button), 'Últimas Backups' (showing 'No hay Backups' and a 'Ver todos' button), 'Últimas Noticias' (a list of updates like 'Roller 5.0.3-1 Publicada' with 'Más' links), and 'Coste Estimado' (showing 'No hay Cuentas de Cloud definidas').

Dashboard

- Noticias
- Servidores
- Backups
- Monitorización
- Programado
- Clouds
- Importar Servidores
- Usuario
- Facturación

Awesome!

Bitnami hace que alojar aplicaciones en la Cloud sea un proceso simple y agradable

[Crear Servidor](#)

Lanza tus aplicaciones favoritas en segundos

Servidores Arrancados

No hay servidores arrancados

0 arrancados / 0 total

[Nuevo Servidor](#) [Ver todos](#)

Últimas Backups

No hay Backups

0 backups

[Ver todos](#)

Últimas Noticias

| | |
|-----------------------------|---------------------|
| Roller 5.0.3-1 Publicada | Más |
| Dolibarr 3.5.2-0 Publicada | Más |
| SiteCake 1.0.41-1 Publicada | Más |
| PhpCompta 6.71-1 Publicada | Más |
| Moodle 2.6.2-1 Publicada | Más |

Coste Estimado

No hay Cuentas de Cloud definidas

SaaS - Bitnami

Dashboard

Noticias

Servidores

Backups

Monitorización

Programado

Clouds

Importar Servidores

Usuario

Facturación

Cuenta de Cloud

GuardarCerrarAyuda

Configurar Cuenta de Cloud

Nombre

Mi Cuenta de AWS

Localización por Defecto

EEUU Costa Este (Virginia)

Credenciales de AWS

Access Key ID

Secret Access Key

Por favor consulta la información sobre [cómo registrarte en Amazon EC2](#) y [cómo conseguir tus credenciales](#)

Contraseña de Administración

Por favor introduce una contraseña de administración para tu cuenta de Bitnami que será utilizada para encriptar tus credenciales de Cloud y otra información sensible. Se preguntará por esta contraseña antes de realizar algunas operaciones en tu cuenta de Cloud.

Contraseña de Administración

Repetir Contraseña

Ayuda

Añadiendo una Cuenta de Cloud

Para poder lanzar servidores con Bitnami Cloud Hosting, debes introducir las credenciales de tu cuenta en Amazon Web Services. Esta información será inmediatamente encriptada en nuestro sistema por seguridad y no será accesible a través de nuestra interfaz.

Cuando las credenciales hayan sido añadidas, Bitnami Cloud Hosting generará un nuevo par de claves SSH y un 'Security Group'. Si quieres conectarte a los servidores por SSH, utiliza el botón de descarga que aparece al hacer click en la cuenta de cloud para obtener tu clave privada.

Nota: Bitnami Cloud Hosting permite gestionar servidores en varias cuentas

SaaS - Bitnami

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Nuevo Servidor

❗ Estás creando un servidor demo. Ten en cuenta que este servidor se parará tras una hora. Puedes [añadir tus credenciales de Cloud](#) para empezar a crear servidores permanentes. Si deseas lanzar servidores demo, haz clic en "Añadir nueva aplicación", selecciona una aplicación y haz clic en "Lanzar Demo de 1h".

Nombre

Dominio .bitnamiapp.com

Opciones de Aplicación

Opciones de Desarrollo

Añadir Aplicación

Ubuntu 12.04.3 64-bit

Micro \$14.40 /mes

10 GB \$1.00 /mes

1-Hour Demo

EEUU Costa Este (Virginia)

IP Dinámica

Estimación de gastos de Amazon:

| | |
|--------------|---------------------|
| Micro | \$14.40 /mes |
| 10 GB | \$1.00 /mes |
| Total | \$15.40 /mes |

✓ **Free Tier Eligible**
Ten en cuenta que tu servidor podría ser GRATIS si reunes los requisitos. [Más información](#)

Lanzar Demo de 1 hora

Cancelar

SaaS - Bitnami

Añadir Aplicación

Buscar

Todo

CMS


CRM

Blog

Developer Tools

e-Commerce

| | |
|-------------------------------------|-----------------------------------|
| <input type="checkbox"/> | CiviCRM 4.4.4-1 |
| <input type="checkbox"/> | Dolibarr 3.5.2-0 |
| <input type="checkbox"/> | OpenERP 7.0-12 |
| <input checked="" type="checkbox"/> | SugarCRM 6.5.16-2 |
| <input type="checkbox"/> | SugarCRM Enterprise 6.5.15-0 \$ |
| <input type="checkbox"/> | SugarCRM Professional 6.5.15-0 \$ |
| <input type="checkbox"/> | X2CRM 4.0.2-1 |





SugarCRM es una solución flexible de gestión de clientes para compañías de todos los tamaños. SugarCRM puede ser fácilmente modificada e integrada con otras aplicaciones. Entre sus funcionalidades básicas están la automatización de la fuerza de ventas, campañas de marketing, casos de soporte y gestión de proyectos.


Cancel


Ok


SaaS - Bitnami


 Dashboard


 Noticias


 **Servidores**


 Backups

 Monitorización

 Programado

 Clouds

 Importar
Servidores

 Usuario

Gestión de Servidores

Nuevo

Gestionar

Arrancar

Parar

Reiniciar







Eliminar

Clonar

Filtrar

Refrescar

Ayuda

| | Nombre | Estado | Sistema Operativo | Tipo de Servidor | Localización | Cuenta de Cloud |
|-------------------------------------|--|--|--|------------------|--|---|
| <input checked="" type="checkbox"/> |  Sistemas Operativos (Demo) |  Construyendo (30%)  |  Ubuntu | Micro |  EEUU Costa Este (Virginia) |  1-Hour Demo |

SaaS - Bitnami

Dashboard

Noticias

Servidores

Backups

Monitorización

Programado

Clouds

Importar Servidores

Usuario

Facturación

Monitorización

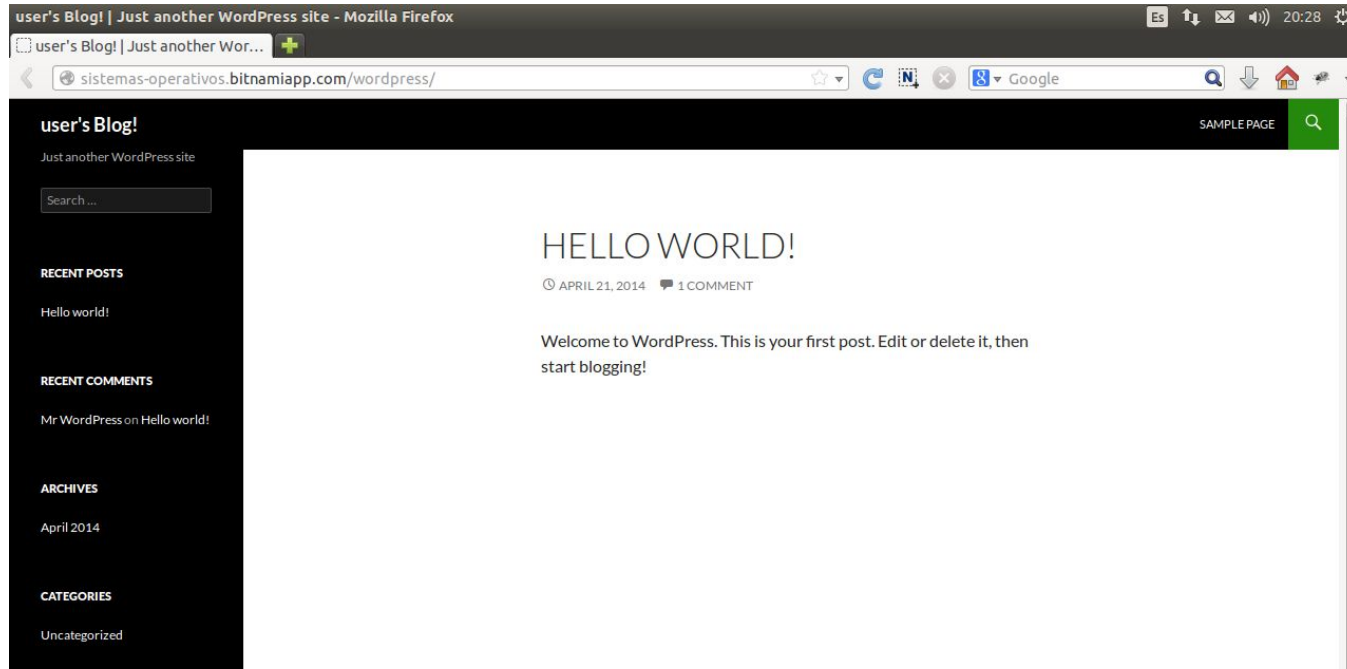
Servidores

Detalles

FiltrarRefrescar

| Servidor | Estado | Estado de Servicios | CPU | MEM | Disco | Actualizado |
|---------------------|-------------------------------|---------------------|-------------|-------------|-------------|----------------|
| Sistemas Operativos | Arrancado (47 mins restantes) | Todo arrancado | <div></div> | <div></div> | <div></div> | Hace 3 minutos |

SaaS - Bitnami



XaaS

X as a Service

> Dentro de las capas de IaaS y SaaS existen múltiples servicios que pueden ofrecerse de forma individual, respetando el paradigma de Cloud Computing.

XaaS

MBaaS: Mobile Backend as a Service.

> Incluye servicios de push notification, data storage, redes sociales a través de APIs y SDKs (Ej: Apache UserGrid)

XaaS

DBaaS

Database as a Service

DRaaS

Disaster Recovery as a Service

XaaS

HDaaS

HelpDesk as a Service

DaaS

Desktop as a Service

Conclusiones

- > La computación en nube reduce costos, flexibiliza la elasticidad, facilita el deploy y pone énfasis en los aspectos que el consumidor necesita.
- > Es un modelo adecuado, sencillo y de bajo costo.

Links útiles

| | |
|---------------|---|
| AWS Status | http://status.aws.amazon.com/ |
| AWS Pricing | https://aws.amazon.com/ec2/pricing/ |
| AWS Instances | http://aws.amazon.com/ec2/instance-types/ |
| RH OpenShift | https://www.openshift.com/ |
| Bitnami | https://bitnami.com/ |
| IEEE | http://cloudcomputing.ieee.org/standards/articles |
| Open Grid | http://forge.gridforum.org/sf/projects/ogsa-wg/ |
| Coursera | https://www.coursera.org/course/mobilecloud |