



**“Despliegue y gestión de servidores
en la Nube con Bitnami”**



Beltrán Rueda

Bitnami Project Manager @beltranruba

Índice

- **Qué es Bitnami**
- **Cloud Computing vs Hosting tradicional**
- **Casos de uso**
- **Despliegue de Drupal en Windows Azure**
- **Sácale el máximo partido a tu instancia**

Más de 90 Aplicaciones en Bitnami



Supported Platforms



vmware



Windows Azure



SAVVIS

Qué es Bitnami

- Instaladores nativos



- Máquinas Virtuales

vmware®



- Imágenes en la nube



Cloud Computing

- ***“Servicios de computación a través de internet”***
Analogía con la red eléctrica - “The Big Switch” Nick Carr
- **Tipos de Cloud:**
 - **Públicas.** AWS, Microsoft Azure, RackSpace, Google Compute Engine, Savvis
 - **Privadas/Híbridas.** Eucalyptus, OpenStack (RackSpace), vCloud & Cloud Foundry (VMWare), OpenShift (RedHat), Apache CloudStack (XenServer-Citrix)

Cloud Computing

- **2002 - AWS nació para aprovechar sus propios recursos**
- **2006 - Se abrió al público de forma limitada**
- **2011 - Elastic Block Store (EBS)**
- **Tecnología**
 - Acceso: HTTP, REST, SOAP
 - Virtualización: XEN
- **Equipo**
 - Jeff Bezos (CEO)
 - Werner Vogels (CTO) <http://allthingsdistributed.com>
 - Jeff Barr (AWS Evangelist) <http://aws.typepad.com>

Cloud Computing vs hosting tradicional

- **Hosting compartido**

Precio, fácil de usar

Flexibilidad, rendimiento, fiabilidad

- **VPS**

Mayor control, fiabilidad

Admon sistemas, flexibilidad

- **Servidor dedicado**

Control completo, SLAs

Admon sistemas, fallos HW, precio, tiempo

- **Cloud Computing**

Control completo, flexibilidad de recursos, servidores distribuidos

Admon sistemas, precio por uso

Bitnami Drupal en Microsoft Azure

- **Escalabilidad**
 - Cambiar los recursos de la instancia: disco, RAM, CPU
- **Coste vs Inversión**

Pero además..

- **Un cliente pide una demo**
 - Servidor “low-cost” del tamaño necesario por el tiempo que se necesite
- **¡Mi sitio lo han hackeado!**
 - Copias de seguridad automáticas e incrementales del servidor completo

- **Quiero probar un cambio o mejora**
 - Clona la máquina con un click y prueba los cambios en el mismo entorno
- **Mover a producción: asigna la IP a la nueva instancia**
- **Acceso a más recursos**
 - MySQL (ClearDB)
 - CDN para ficheros estáticos y descargas
- **Necesito una versión específica de PHP**
 - Evita fallos de seguridad
 - Acceso a las últimas funcionalidades

Bitnami Drupal



VM Depot - Image Drupal

vmdepot.msopentech.com/Vhd/Show?vhdId=36211&version=37291

**VM Depot**PREVIEW
by Microsoft Open Technologies

[Subscribe](#)
Sign in and join the community

[Back](#)

[DEPLOYMENT SCRIPT](#)

[PUBLISH](#)

[SHARE](#)

[HELP](#)

[Browse Images](#)

[My Account](#)

Drupal 8.0.alpha11-0-dev (Ubuntu 12.10)

★★★★★

0 comments



Drupal powered by Bitnami is a pre-configured, ready to run image for running Drupal on Microsoft Azure. Drupal is a content management platform that allows users to easily publish, manage, and organize a wide variety of content on a website. It is used for community web portals, discussion sites, corporate web sites, Intranet applications and many other sites. Drupal is easy to extend by plugging in freely available modules. For more information on the Bitnami Drupal visit our website (<https://bitnami.com/stack/drupal>), wiki (<http://wiki.bitnami.com>) and forums (<http://community.bitnami.com>). Default credentials are username: 'user' / password: 'bitnami'.

Image name	Drupal 8.0.alpha11-0-dev (Ubuntu 12.10)
Publisher	Bitnami
Platform	ubuntu
Packages	apache drupal mysql php
Tags	bitnami cms drupal

Bitnami Drupal



Virtual machines - Windows x

<https://manage.windowsazure.com/@azuretestsbitrock.onmicrosoft.com#Workspaces/VirtualMachineExtension/image>

Choose an image

ALL

CENTOS

OPENSUSE

SUSE ENTERPRISE SERVER

UBUNTU

A-Z

Drupal 7.26-2 (Ubuntu 12.10)

Drupal 7.27-0 (Ubuntu 12.10)

Drupal 8.0.alpha10-3-dev (Ubuntu ...)

Drupal 8.0.alpha11-0-dev (Ubuntu ...)

Drupal-8_CodeSprint_Ubuntu1204...

ehpcazure

ElasticHPCv1.0

embela-az-img

EnanoCMS 1.1.8-2 (Ubuntu 12.10)

eZ Publish 2012.8-0 (Ubuntu 12.10)

eZ Publish 2014.01-2 (Ubuntu 12....)

 **Drupal 8.0.alpha11-0-...**
★★★★★ (0)

Drupal powered by Bitnami is a pre-configured, ready to run image for running Drupal on Microsoft Azure. Drupal is a content management platform that allows use... [More](#)

PUBLISHER
Bitnami

PUBLISH DATE
4/24/2014

PACKAGES
apache, drupal, mysql, php

SIZE
30 GB

Bitnami Drupal



Virtual machines - Window x

← → ↻ 🏠 🔒

https://manage.windowsazure.com/@azuretestsbitrock.onmicrosoft.com#Workspaces/VirtualMachineExtension/vms

☆ 🔧

Virtual machine configuration

CLOUD SERVICE ?
Create a new cloud service ▼

CLOUD SERVICE DNS NAME
drupal8test ✓.cloudapp.net

REGION/AFFINITY GROUP/VIRTUAL NETWORK ?
West US ▼

AVAILABILITY SET ?
(None) ▼

ENDPOINTS

NAME	PROTOCOL	PUBLIC PORT	PRIVATE PORT
SSH	TCP	22	22
HTTP	TCP	80	80
HTTPS	TCP	443	443
ENTER OR SELECT A VALUE ▼			

Drupal-8-0-alpha11-0-dev-Ubuntu-12-10

Drupal powered by Bitnami is a pre-configured, ready to run image for running Drupal on Microsoft Azure. Drupal is a content management platform that allows use... [More](#)

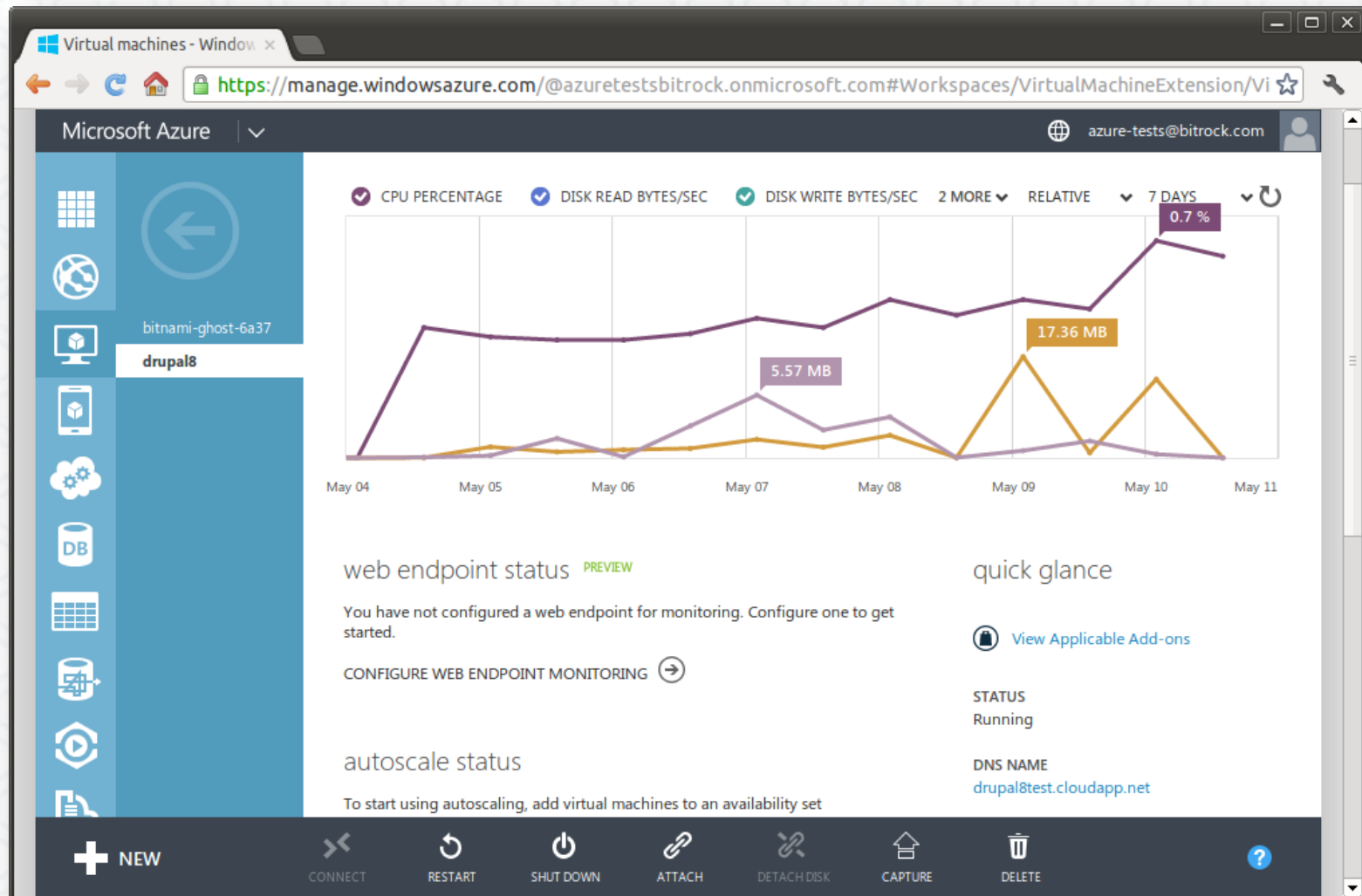
OS FAMILY
Linux

SUBSCRIPTION
3-Month Free Trial

LOCATIONS
West US

PRICING INFORMATION
Pricing varies based on the subscription you select to provision your virtual machine.

Bitnami Drupal



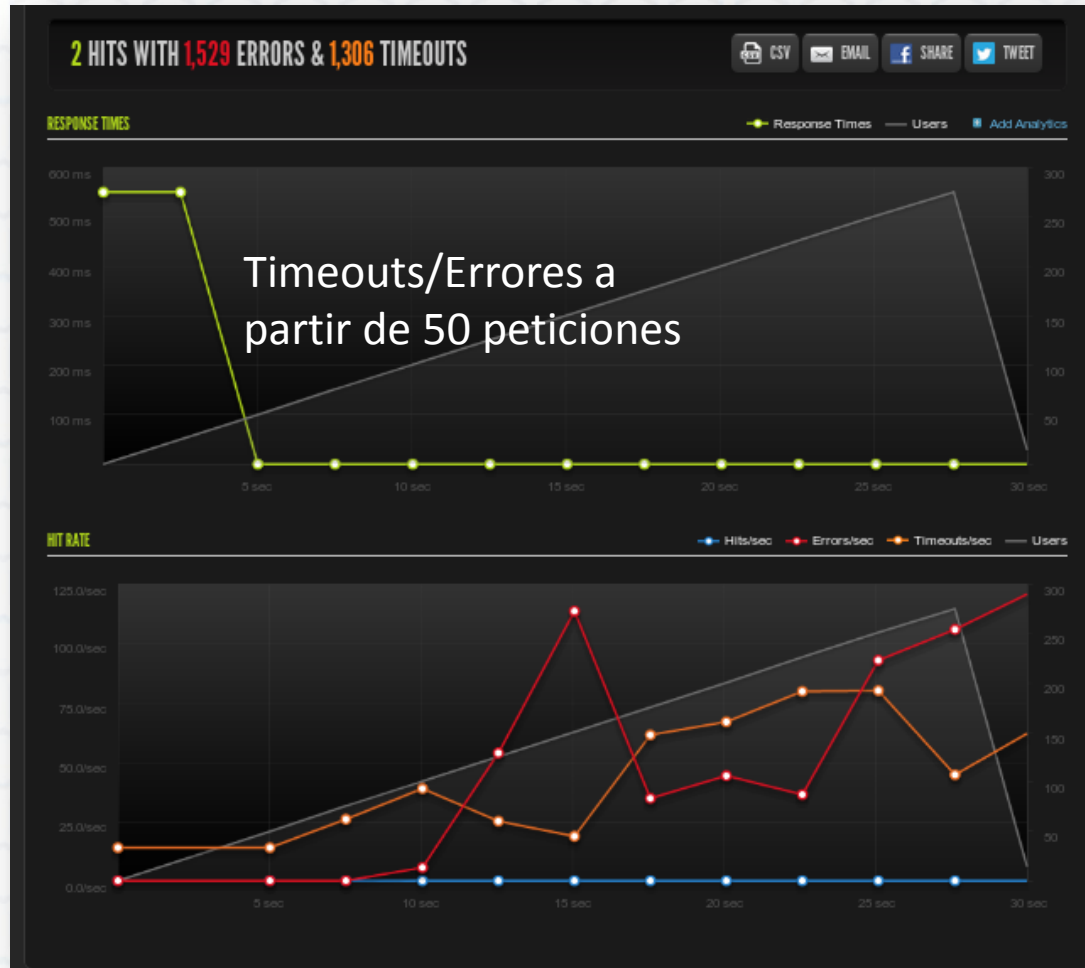
Bitnami Drupal 8: Mejoras en rendimiento

- **Apache modo “event”**
 - Permite servir más “requests” simultáneamente
 - Funcionamiento similar a Nginx
- **PHP-FPM**
 - PHP FastCGI Process Manager
- **Google PageSpeed**
 - Compresión de imágenes
 - Compilación de javascripts y css
 - Caché

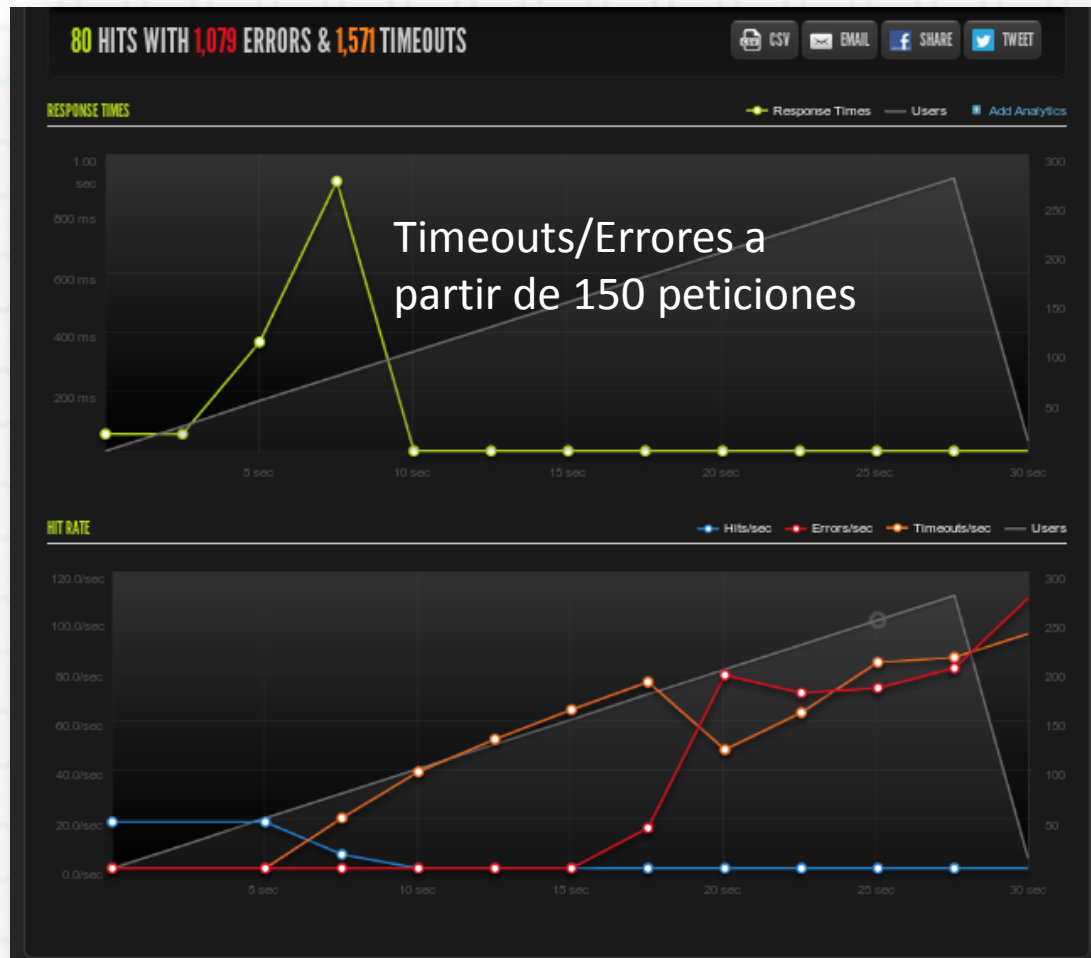
Bitnami Drupal 8: Mejoras en rendimiento

- **Configuración según instancia**
 - Apache, PHP, MySQL se adaptan a los recursos de la instancia
- **Varnish Cache**
 - Permite mayor número de usuarios
 - Reduce significativamente la carga de PHP y MySQL
 - Fácil de configurar
- **Monit**
 - Monitoriza y reinicia automáticamente los servidores

Bitnami Drupal 8: Apache “prefork” + mod_php



Bitnami Drupal 8: Apache “event” + PHP-FPM



Bitnami Drupal 8: Apache “event” + PHP-FPM + Varnish



Bitnami Hosting

← → ↺ 🏠

https://app.bitnamihosting.com/servers/new#application-options-email

☆ ⚙

Bitnami Cloud Hosting > Servers

🇺🇸🇪🇸 | Welcome, beltran@bitrock.com | Sign Out

Dashboard

News

Servers

Backups

Monitoring

Scheduling

Clouds

Import Servers

User

Billing

New Server

Name

drupal8

✓ ?

Domain Name

drupal8test

✓ .bitnamiapp.com ?



Application Options



Development Options



Drupal 7.27-0



Add New Application



Ubuntu 12.04.3
64-bit



Micro
\$14.40 /mo



10 GB
\$1.00 /mo







Estimated Amazon charges:

 Micro

\$14.40 /mo

 10 GB

\$1.00 /mo

Total

\$15.40 /mo

✓ Free Tier Eligible

Note that your server may be FREE if you qualify. [Learn more](#)

Build and Launch

Cancel

© 2014, Bitnami. All rights reserved.

Support

Privacy Policy

Terms of Use

Bitnami Cloud Hosting

- Fácil de usar y ahorro de tiempo
- Últimas versiones y de sus componentes
- Fácil de añadir otras aplicaciones
- Copias de seguridad, copias para desarrollo
- Escalar el servidor de forma sencilla
- Mejoras en rendimiento
- Monitorización de servidores y alertas
- Control completo del servidor
- Documentación
- Soporte <http://community.bitnami.com>

Bitnami Hosting

https://app.bitnamihosting.com/servers?items%5B%5D=69067

Bitnami Cloud Hosting > Servers

US

ES

Welcome, beltran@bitrock.com | Sign Out

Dashboard

News

Servers

Backups

Monitoring

Scheduling

Clouds

Import Servers

User

Billing

Server Management

New

Manage

Start

Stop

Restart

Delete

Clone

Filter

Refresh

Help

	Name	Status	Operating System	Server Type	Server Location	Cloud Account
☒	drupal8	Running	Ubuntu	Micro	US East Coast (Virginia)	My AWS Account
☐	moodle3	Stopped	Ubuntu	Micro	US East Coast (Virginia)	My AWS Account
☐	joomla3	Stopped	Ubuntu	Micro	US East Coast (Virginia)	My AWS Account
☐	own	Stopped	Ubuntu	Micro	US East Coast (Virginia)	My AWS Account
☐	wp4	Stopped	Ubuntu	Micro	US East Coast (Virginia)	My AWS Account
☐	trac3	Stopped	Ubuntu	Micro	US East Coast (Virginia)	My AWS Account
☐	wp3	Stopped	Ubuntu	Micro	US East Coast (Virginia)	My AWS Account
☐	lif	Stopped	Ubuntu	Small	US East Coast (Virginia)	My AWS Account

Details

drupal8

Applications

Drupal 7.27-0

Latest Backup

Never

Estimated Cost

\$0.02 hour / \$15.40 month ⓘ

Go to Application

Manage Server

© 2014, Bitnami. All rights reserved.

Support

Privacy Policy

Terms of Use

Bitnami Hosting

← → ↺ 🏠

🔒 <https://app.bitnamihosting.com/servers/73496/manage#>

☆ ⚙️

Bitnami Cloud Hosting > Servers

🇺🇸🇪🇸 | Welcome, beltran@bitrock.com | Sign Out

Dashboard

News

Servers

Backups

Monitoring

Scheduling

Clouds

Import Servers

User

Billing

Manage Server: drupal8

Close Start Stop Restart Delete Clone Refresh Help

 **drupal8** ✎
Drupal 7.27-0

Assign IP Resize Connect System Log

Properties

Applications Backups Scheduled Tasks Monitoring Firewall Notes

Status ● Running [more info](#)

IP Address 75.101.227.248 (Dynamic) 📄

Public DNS <http://d8.bitnamiapp.com> ✎ 📄

Operating System  Ubuntu Linux 12.04.3 LTS 64-bit (rev. 28)

Server Location 🇺🇸 US East Coast (Virginia)

Availability Zone us-east-1a

Estimated Cost \$0.02 hour / \$15.40 month ⓘ

Application Credentials [show](#)

Server Type Micro (t1.micro, 615 MiB RAM, Up to 2 ECUs)

Disk Size 10 GB

Created 9 minutes ago ⓘ

© 2014, Bitnami. All rights reserved. | [Support](#) | [Privacy Policy](#) | [Terms of Use](#)

Gracias



Beltrán Rueda

Bitnami Project Manager @beltranruba