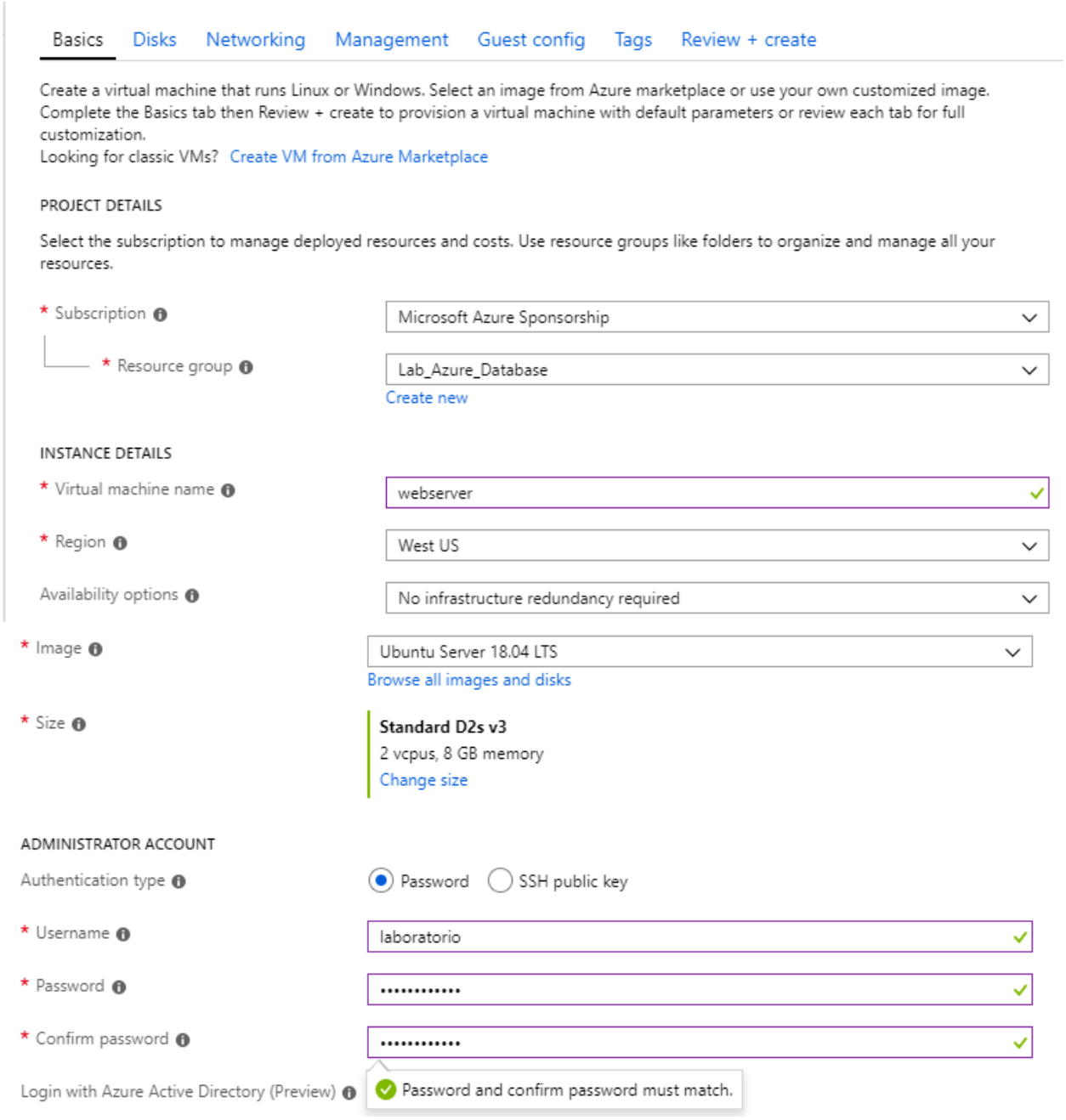
Laboratorio Azure Database for MySQL y Postgres

1. Ingresar a la suscripción con el azure pass
2. Crear un Resource Group llamado Lab_Azure_Database
3. Crear una máquina virtual en el grupo de recursos creado, así: Clave Ms1234567890



INBOUND PORT RULES

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

* Public inbound ports ⓘ ○ None ◉ Allow selected ports

* Select inbound ports HTTP

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Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. Learn more

DISK OPTIONS

* OS disk type ⓘ Standard HDD

The selected VM size supports premium disks. We recommend Premium SSD for high IOPS workloads. Virtual machines with Premium SSD disks qualify for the 99.9% connectivity SLA.

DATA DISKS

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

LUN	NAME	SIZE (GIB)	DISK TYPE	HOST CACHING

Create and attach a new disk Attach an existing disk

ADVANCED

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Configure a new or existing virtual network for your VM as well as how your VM will be accessed on the virtual network. Learn more

NETWORK INTERFACE

When creating a virtual machine, a network interface will be created for you.

* Virtual network: (new) Lab_Azure_Database-vnet
Create new

* Subnet: (new) default (10.0.16.0/24)

Public IP: (new) webserver-ip
Create new

Network security group: Basic / Advanced

* Public inbound ports: None / Allow selected ports

* Select inbound ports: HTTP

Accelerated networking: On / Off
The selected VM size does not support accelerated networking.

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Configure monitoring and management options for your VM.

MONITORING

Boot diagnostics: On / Off

OS guest diagnostics: On / Off

IDENTITY

System assigned managed identity: On / Off

AUTO-SHUTDOWN

Enable auto-shutdown: On / Off

CANONICAL SUPPORT PLAN

Add Ubuntu Advantage support plan

BACKUP

Enable backup: On / Off

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Add additional configuration, agents, scripts or applications via virtual machine extensions or cloud-init.

EXTENSIONS

Extensions provide post-deployment configuration and automation.

Extensions Select an extension to install

CLOUD INIT

Cloud init is a widely used approach to customize a Linux VM as it boots for the first time. You can use cloud-init to install packages and write files or to configure users and security. Learn more

Cloud init

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Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Learn more

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

KEY	VALUE	RESOURCE TYPE
		All resources to be created

Create a virtual machine

Validation passed

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PRODUCT DETAILS

Ubuntu Server 18.04 LTS
by Canonical
Terms of use | Privacy policy

Standard D2s v3
by Microsoft
Terms of use | Privacy policy

Pricing not available for this offering
View Pricing details for more information.

Subscription credits apply

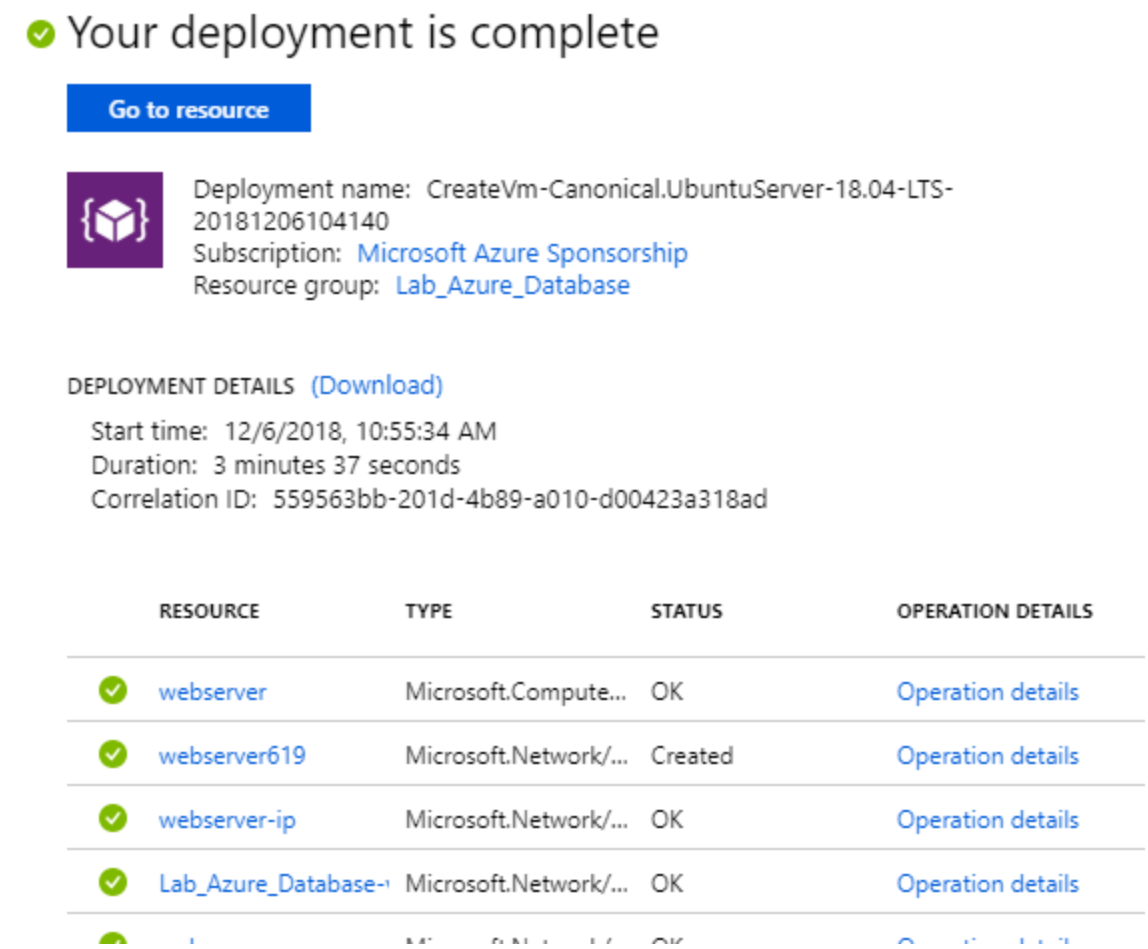
0.1170 USD/hr
Pricing for other VM sizes

TERMS

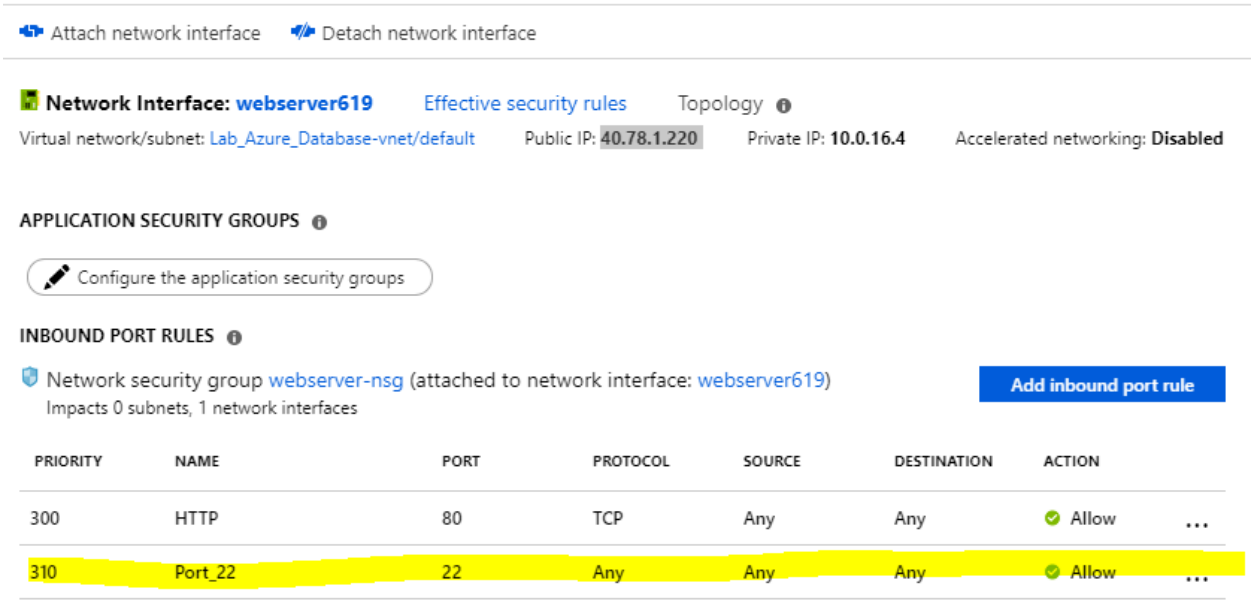
By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the Azure Marketplace Terms for additional details.

BASICS

Create | Previous | Next | Download a template for automation



Abrir puerto 22 para poder conectarnos por SSH al servidor:



Ingreso al servidor

Ingresar al servidor usando Azure Cloud Shell con el usuario **laboratorio**, la clave **Ms1234567890** y la ip de la maquina creada.

```
ssh laboratorio@<ip>
```

Pasarase al super usuario

```
sudo su -
```

Descargar desde github el código de configuración de sitio web de prueba

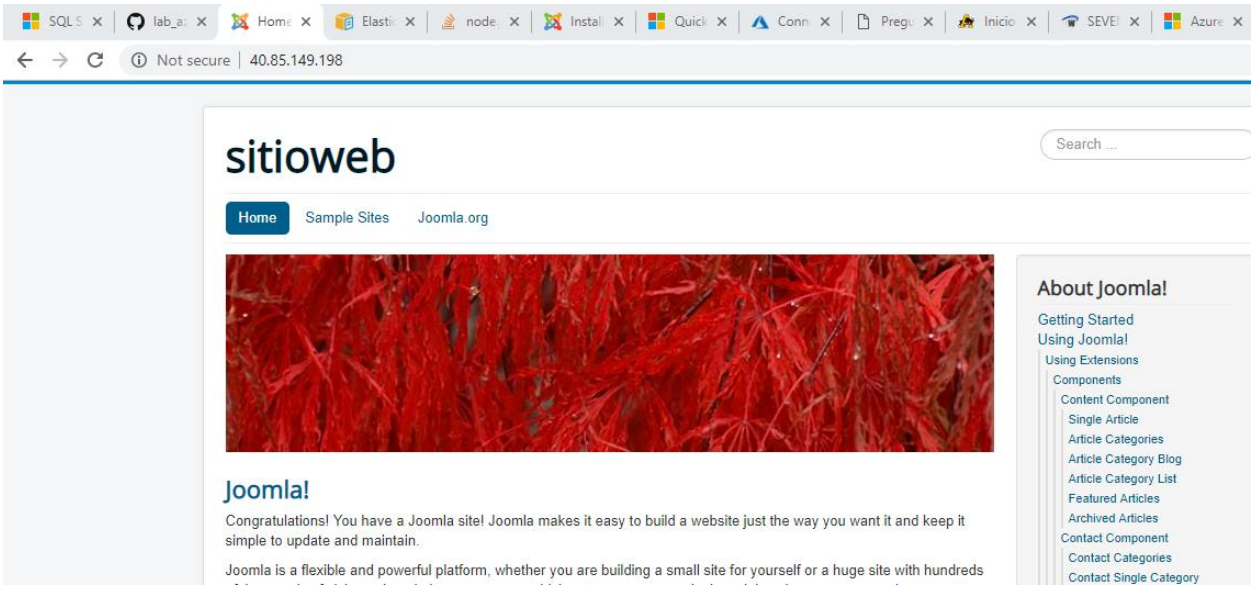
```
git clone https://github.com/juansesin/lab_azure.git
```

Ingrese a la carpeta lab_azure y ejecute el comando configurar.sh

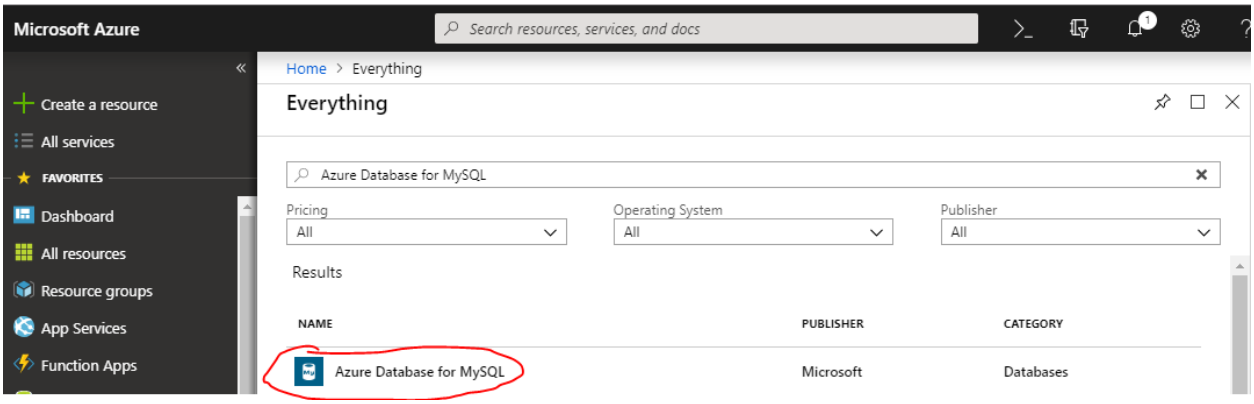
```
sh configurar.sh
```

Verifique en un navegador

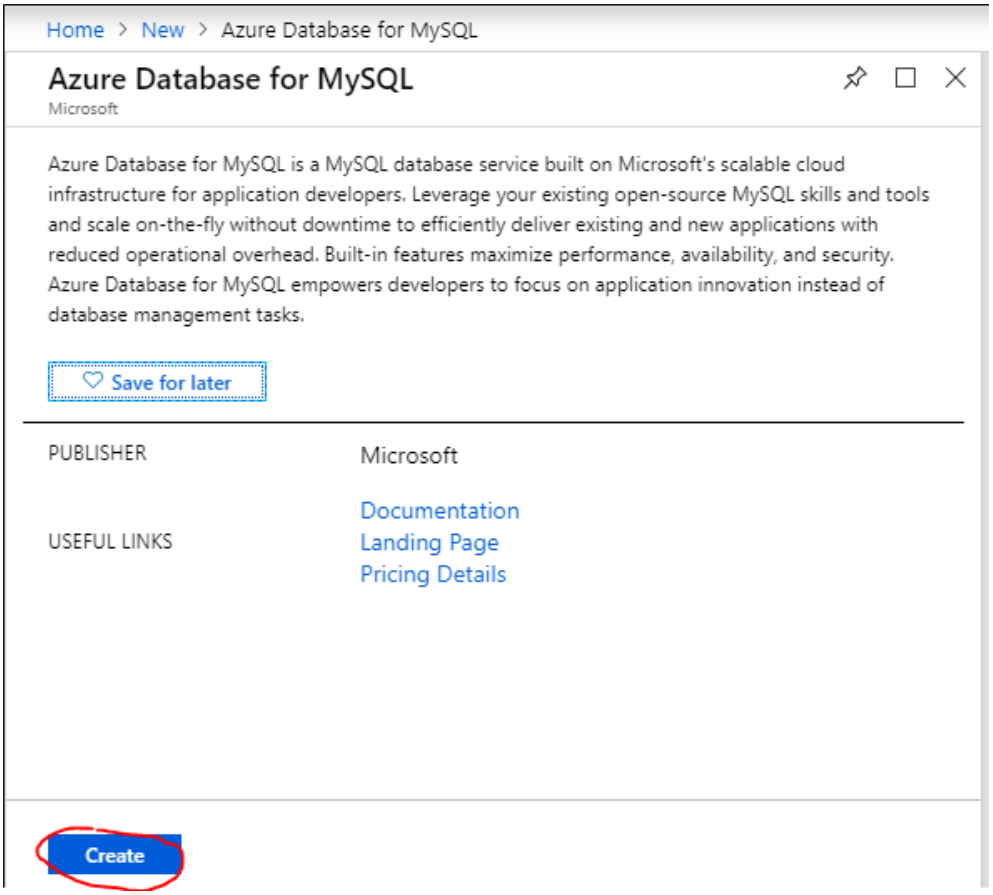
Ingrese en la URL del navegador la ip de su servidor web.



Crear un servidor de Azure Database for Mysql



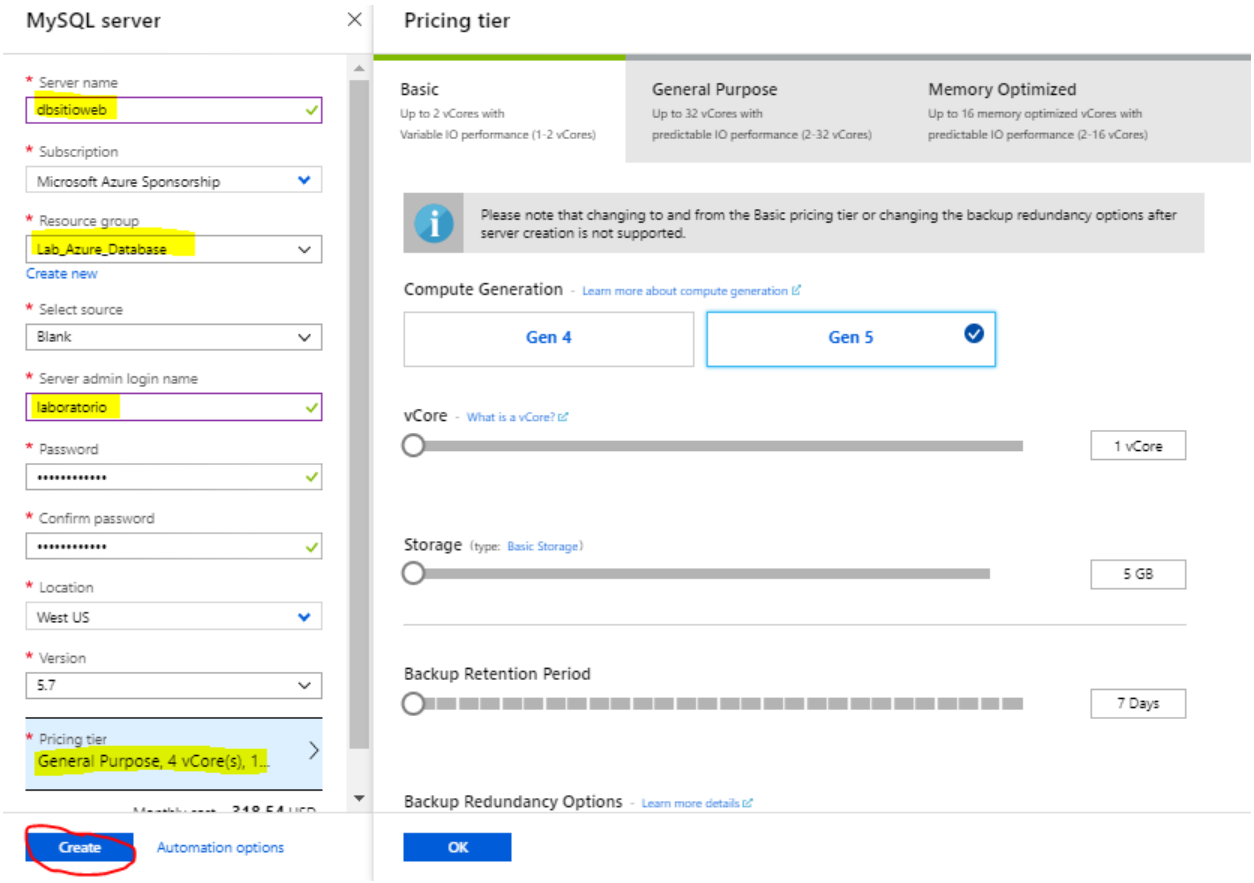
Seleccione la opción Create



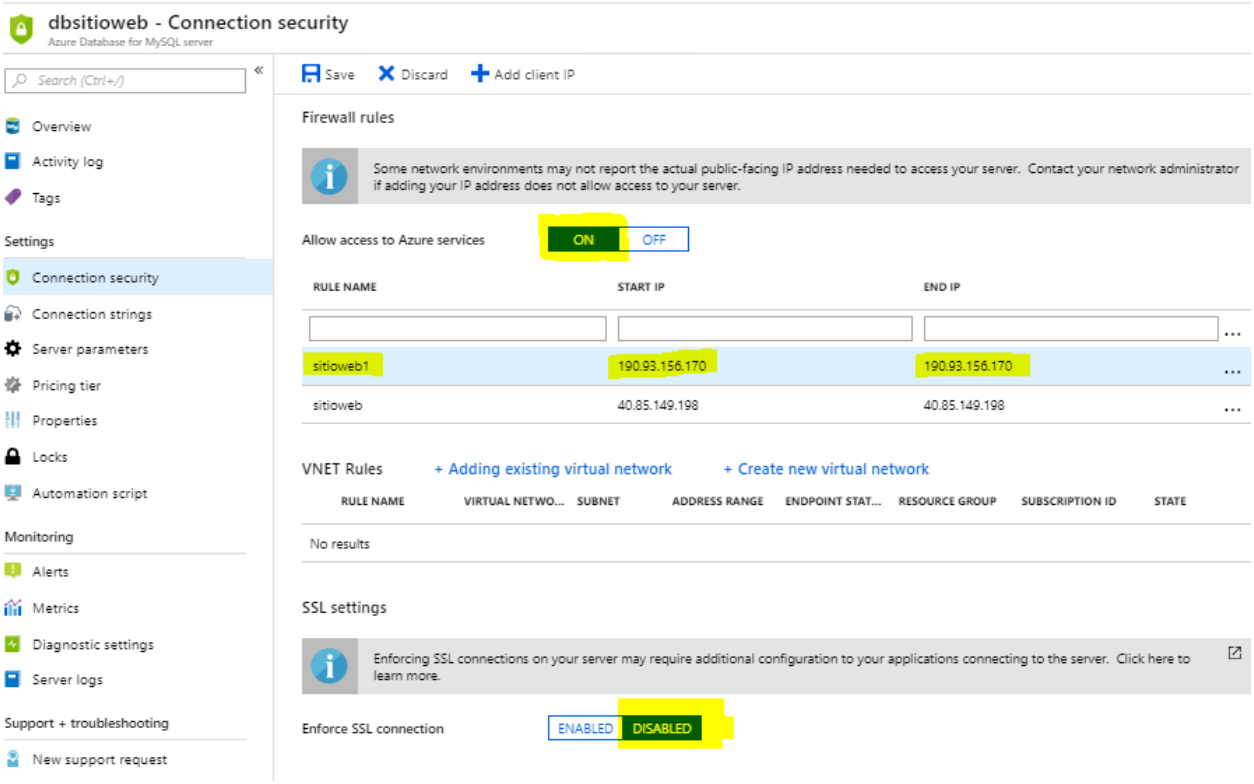
Diligenciar los datos para crear la base de datos

1. Nombre del servidor de bd
2. Elija la suscripción
3. Admin -> laboratorio

4. Clave -> Ms1234567890
5. Elegir el servidor con menores características



Una vez se ha creado el servidor de base de datos debe configurar los permisos para poderse conectar desde el servidor Linux, debe deshabilitarse el uso de ssl para que el laboratorio funcione.



Desde el servidor Linux debemos conectarnos a la base de datos así:

mysql -h dbsitioweb.mysql.database.azure.com -u laboratorio@dbsitioweb -pMs1234567890

Ejecute los siguientes comandos para crear la base de datos nueva y el usuario:

create database sitioweb;

CREATE USER 'us_sitioweb'@'localhost' IDENTIFIED BY 'password';

GRANT ALL PRIVILEGES ON sitioweb.* TO 'us_sitioweb'@'localhost';

Cargue la copia de la base de datos

mysql -h dbsitioweb.mysql.database.azure.com -u laboratorio@dbsitioweb -pMs1234567890 sitioweb < sitioweb.sql

Debemos cambiar en el archivo /var/www/html/configuration.php las variables de conexión a la base de datos:

public $host = 'dbsitioweb.mysql.database.azure.com';

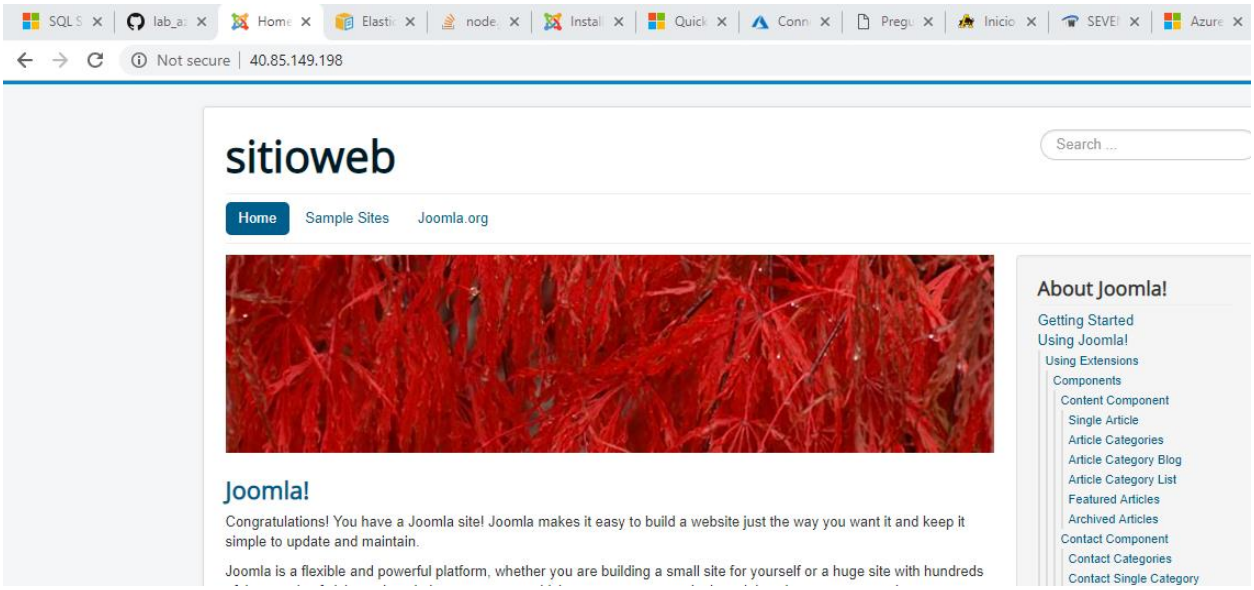
public $user = 'laboratorio@dbsitioweb';

public $password = 'Ms1234567890';

public $db = 'sitioweb';

Verifique el correcto funcionamiento del sitio web con la base de datos migrada a Azure.

Ingrese en la URL del navegador la ip de su servidor web.



Montaje sitio web en Azure Database for Postgres

Crear un nuevo Azure Database for Postgres siguiendo las mismas instrucciones que usamos para crear el Azure Database for MySQL.

Ir a la ruta /var/www/html

```
cd /var/www/html
```

Crear una carpeta llamada postgres

```
mkdir postgres
```

Mover el archivo joomla.tar.gz a la carpeta postgres

```
mv joomla.tar.gz postgres
```

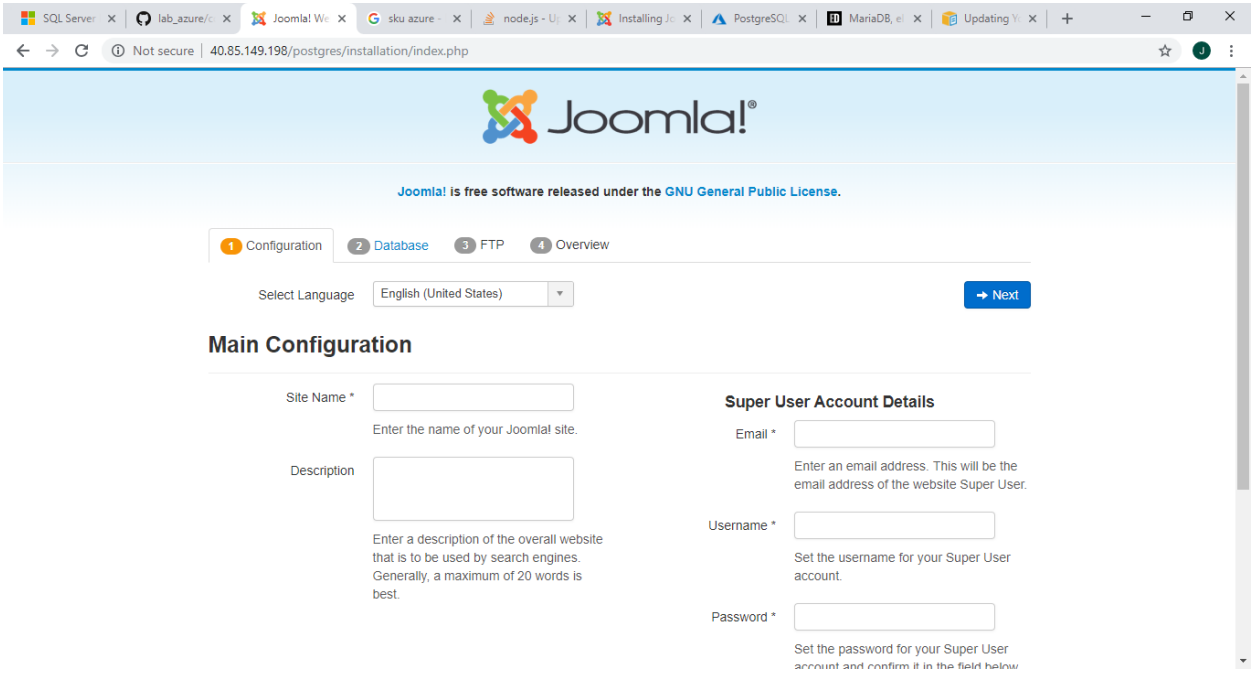
Pasarse a la carpeta postgres

cd postgres

Descomprimir el archivo joomla.tar.gz

tar xvf joomla.tar.gz

Ingresar al browser con la dirección ip del servidor web seguido de postgres y seguir los pasos de instalación de joomla con la información de la base de datos postgres que acabamos de crear.




```
public $host = 'sitioweb.postgres.database.azure.com';

public $user = 'laboratorio@sitioweb';

public $password = 'Ms1234567890';

public $db = 'sitioweb';
```