

## Instalación:

<http://yannickloriot.com/2016/04/install-mongodb-and-node-js-on-a-raspberry-pi/>

## Comandos Utilizados:

```
sudo apt-get update
sudo apt-get upgrade
sudo apt-get install mongodb-server
```

## Correr el servicio

```
sudo service mongod start
```

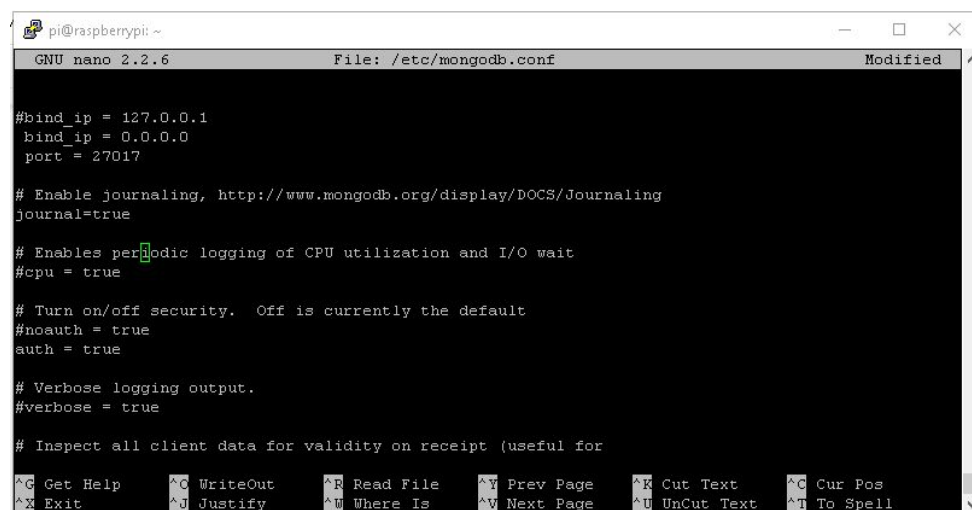
## Configurar mongo remotamente

Si se desea que mongodb pueda ser accedido remotamente desde un computador que esté conectado a la red de la raspberry:

```
sudo nano /etc/mongod.conf
```

- buscar la linea **bind\_ip = 127.0.0.1** y cambiarla por **bind\_ip = 0.0.0.0**
- Quitar **#** en **auth=true**

La configuración debe quedar de la siguiente manera



```
pi@raspberrypi: ~
GNU nano 2.2.6      File: /etc/mongod.conf      Modified

#bind_ip = 127.0.0.1
bind_ip = 0.0.0.0
port = 27017

# Enable journaling, http://www.mongodb.org/display/DOCS/Journaling
journal=true

# Enables periodic logging of CPU utilization and I/O wait
#cpu = true

# Turn on/off security.  Off is currently the default
#noauth = true
auth = true

# Verbose logging output.
#verbose = true

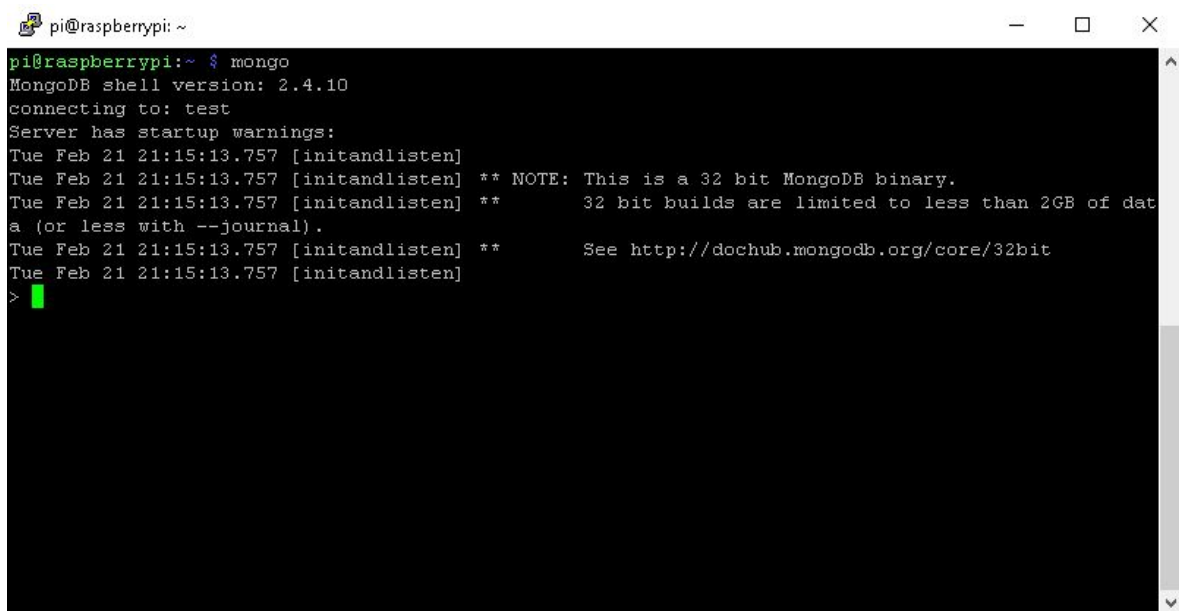
# Inspect all client data for validity on receipt (useful for

^G Get Help      ^O WriteOut      ^R Read File      ^Y Prev Page      ^K Cut Text      ^C Cur Pos
^X Exit          ^J Justify        ^W Where Is       ^V Next Page      ^U UnCut Text    ^T To Spell
```

Reiniciar el servicio de mongo

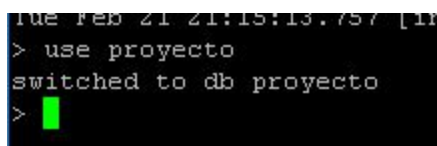
```
sudo service mongod restart
```

Entrar a mongo

A terminal window titled 'pi@raspberrypi: ~' showing the command 'mongo' being executed. The output displays the MongoDB shell version (2.4.10), the connection to 'test', and several startup warnings. The warnings include a note about the 32-bit binary being limited to less than 2GB of data and a link to the MongoDB documentation for 32-bit builds. The prompt '>' is visible at the bottom of the terminal.

```
pi@raspberrypi:~ $ mongo
MongoDB shell version: 2.4.10
connecting to: test
Server has startup warnings:
Tue Feb 21 21:15:13.757 [initandlisten] ** NOTE: This is a 32 bit MongoDB binary.
Tue Feb 21 21:15:13.757 [initandlisten] **      32 bit builds are limited to less than 2GB of data (or less with --journal).
Tue Feb 21 21:15:13.757 [initandlisten] **      See http://dochub.mongodb.org/core/32bit
Tue Feb 21 21:15:13.757 [initandlisten]
>
```

seleccionar la base de datos a usar:

A terminal window showing the MongoDB shell prompt '>'. The user enters the command 'use proyecto', and the output shows 'switched to db proyecto'. The prompt '>' is visible at the bottom of the terminal.

```
Tue Feb 21 21:15:13.757 [initandlisten]
> use proyecto
switched to db proyecto
>
```

ingresar el usuario que permita leer y escribir en las colecciones

```
db.addUser(
{
  user: "usuario",
  pwd: "contraseña",
  roles: [ "rol", "base_de_datos" ]
}
)
```

```
> use proyecto
switched to db proyecto
> db.addUser(
...   {
...     user: "remoteuser",
...     pwd: "remoteuser",
...     roles: [ "readWrite", "proyecto" ]
...   }
... )
```

Los roles pueden encontrarse en esta dirección:

<https://docs.mongodb.com/manual/reference/built-in-roles/#built-in-roles>

### Ejemplo en python para conectarse

```
import pymongo

#client =
pymongo.MongoClient("mongodb://usuarop:contrasena@ip/base_datos") #
defaults to port 27017

client =
pymongo.MongoClient("mongodb://remoteuser:remoteuser@192.168.1.104/proy
ecto")

db = client.proyecto

# print the number of documents in a collection
print db.prueba.count()

#Muestra los datos de la coleccion
for prueba in db.prueba.find():
    print prueba
```