

Instalación y prueba de MongoDB LOCAL

Instalación de MongoDB

Comenzamos instalando MongoDB en nuestro servidor Ubuntu:

```
sudo apt install -y mongodb-org
sudo systemctl start mongod
sudo systemctl enable mongod
```

```
ubuntu@w7:~$ sudo systemctl status mongod
● mongod.service - MongoDB Database Server
   Loaded: loaded (/usr/lib/systemd/system/mongod.service; enabled; preset: enabled)
   Active: active (running) since Mon 2025-01-13 18:37:50 UTC; 3s ago
     Docs: https://docs.mongodb.org/manual
    Main PID: 114867 (mongod)
      Memory: 71.2M (peak: 71.3M)
        CPU: 733ms
      CGroup: /system.slice/mongod.service
             └─114867 /usr/bin/mongod --config /etc/mongod.conf

Jan 13 18:37:50 w7 systemd[1]: Started mongod.service - MongoDB Database Server.
Jan 13 18:37:50 w7 mongod[114867]: {"t":{"$date":"2025-01-13T18:37:50.390Z"},"s":"I", "c":"CONTROL", "id":7484500, "c"
```

Ya tenemos el servicio de Mongo funcionando, y entramos a `/etc/mongod.conf` y nos aseguramos que la siguiente información esté tal que así:

```
# network interfaces
net:
  port: 27017
  bindIp: 127.0.0.1

# how the process runs
processManagement:
  timeZoneInfo: /usr/share/zoneinfo

security:
  authorization: "disabled"
```

Reiniciamos el servicio:

```
sudo systemctl restart mongod
```

Y ya lo tenemos instalado correctamente, ahora podemos ejecutar mongosh y crearemos los usuarios:

```
use admin;

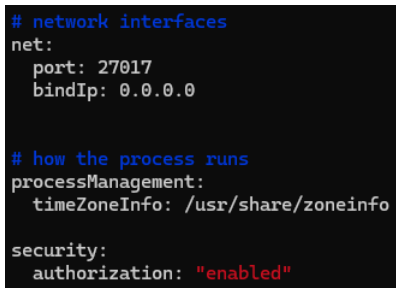
db.createUser({
  user: "admin",
  pwd: "admin",
  roles: [ { role: "userAdminAnyDatabase", db: "admin" }, { role:
"readWriteAnyDatabase", db: "admin" } ]
});

db.createUser({
  user: "backupAdmin",
  pwd: "backupAdmin",
  roles: [ { role: "userAdminAnyDatabase", db: "admin" } ]
});

use ejercicio;
db.createUser({
  user: "limitedUser",
  pwd: "limited_user",
  roles: [ { role: "readWrite", db: "ejercicio" } ]
});
```

El primer usuario es el administrador principal, el segundo es un usuario administrativo de respaldo, y el tercero es un usuario limitado a la base de datos del ejercicio.

Ahora volvemos al archivo /etc/mongod.conf y cambiamos así:



```
# network interfaces
net:
  port: 27017
  bindIp: 0.0.0.0

# how the process runs
processManagement:
  timeZoneInfo: /usr/share/zoneinfo

security:
  authorization: "enabled"
```

```
sudo systemctl restart mongod
```

Conexión desde Compass

Ahora probamos la conexión desde Windows usando Compass, y veremos que nos podemos conectar sin problema.

Aquí me conecto como admin:

79.72.63.217:27017

Manage your connection settings

General **Authentication** TLS/SSL Proxy/SSH In-Use Encryption Advanced

Authentication Method

Username/Password admin Optional

Password ***** Optional

Authentication Database Optional

Authentication Mechanism

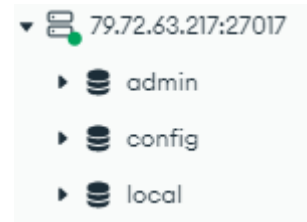
ⓘ TLS/SSL is disabled. If possible, enable TLS/SSL to avoid security vulnerabilities.

How do I find my connection string in Atlas?

If you have an Atlas cluster, go to the Cluster view. Click the 'Connect' button for the cluster to which you wish to connect. [See example](#)

How do I format my connection string?

[See example](#)



Y aquí como usuario limitado:

79.72.63.217:27017

Manage your connection settings

Authentication Method

Username/Password limitedUser Optional

Password ***** Optional

Authentication Database ejercicio Optional

Authentication Mechanism

ⓘ TLS/SSL is disabled. If possible, enable TLS/SSL to avoid security vulnerabilities.

How do I find my connection string in Atlas?

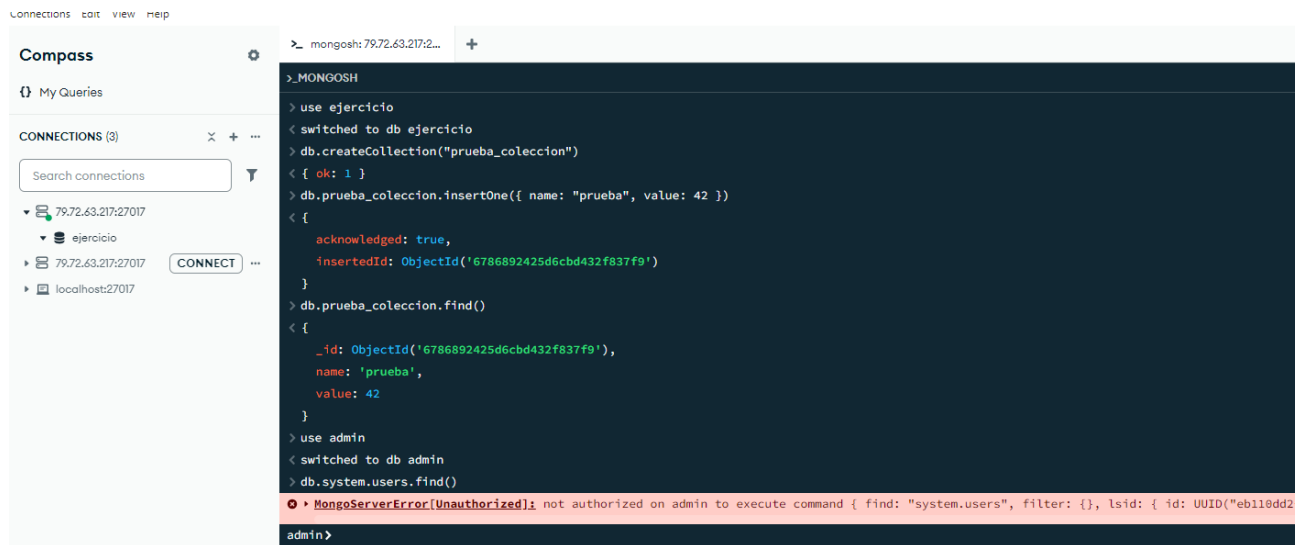
If you have an Atlas cluster, go to the Cluster view. Click the 'Connect' button for the cluster to which you wish to connect. [See example](#)

How do I format my connection string?

[See example](#)



Prueba de Shell



The screenshot shows the MongoDB Compass application interface. On the left, the 'CONNECTIONS (3)' panel lists three connections: '79.72.63.217:27017' (selected), '79.72.63.217:27017', and 'localhost:27017'. A 'CONNECT' button is visible next to the second connection. The main panel displays a MongoDB shell session with the following commands and output:

```
> use ejercicio
< switched to db ejercicio
> db.createCollection("prueba_coleccion")
< { ok: 1 }
> db.prueba_coleccion.insertOne({ name: "prueba", value: 42 })
< {
  acknowledged: true,
  insertedId: ObjectId('6786892425d6cbd432f837f9')
}
> db.prueba_coleccion.find()
< [
  {
    _id: ObjectId('6786892425d6cbd432f837f9'),
    name: 'prueba',
    value: 42
  }
]
> use admin
< switched to db admin
> db.system.users.find()
MongoServerError[Unauthorized]: not authorized on admin to execute command { find: "system.users", filter: {}, lsid: { id: UUID("eb118dd2...), $clusterId: "79.72.63.217:27017" } }
admin>
```