Tasques UD17-MongoDB

Realiza la instalación de todo el stack tecnológico necesario para el desarrollo de tu sistema de base de datos con MongoDB en Fedora 35.

Para ello has de instalar y configurar lo siguiente:

- 1. Mongo Community Server.
- 2. Compass.
- 3. Robomongo.

Una vez instalado todo el stack has de crear la base de datos Biblioteca y añadir la siguiente colección de datos:

Debes adjuntar capturas de pantalla de cada una de las instalaciones. Recuerda que tienes **fecha límite de entrega**.

Instalación Mongo en Fedora-Server

ownloading Packages:				
nano-5.8-4.fc35.x86_64.rpm			1.0 MB/s 709 kB	00:00
otal			451 kB/s 709 kB	00:01
unning transaction check				
ansaction check succeeded				
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ansaction test succeeded.				
nning transaction				
Preparing :				1/
Installing : nano-5.8-4.fc35.x86_64				1/
Running scriptlet: nano-5.8-4.fc35.x86_64				1/
Verifying : nano-5	.8-4.fc35.x86_64			1,
stalled:				
nano-5.8-4.fc35.x86_64				
mplete!				
oot@fedora ~]# sudo nano ;	/etc/yum.repos.d/mongodb.org-4.4.repo			
root@fedora ~]# sudo yum update				
Repositorio de MongoDB para Fedora 31			59 kB/s 35 kB	00:00
ast metadata expiration ch	eck: 0:00:01 ago on Wed Feb 2 09:35:50 2	022.		
ependencies resolved.				
ackage	Architecture	Version	Repository	Siz
stalling:				
	x86_64	5.15.18-200.fc35	updates	16
grading:				
udit	x86_64	3.0.7-1.fc35	updates	251
	x86_64	3.0.7-1.fc35	updates	116
:hrony	x86 64	4.2-1.fc35	updates	311

```
Install 3 Packages
        Upgrade 51 Packages
         Total download size: 99 M
        Is this ok [y/N]:
         Operation aborted.
          [root@fedora ~]# sudo nano /etc/yum.repos.d/mongodb.org-4.4.repo
           [root@fedora ~]# sudo yum update
         Last metadata expiration check: 0:01:32 ago on Wed Feb 2 09:35:50 2022.
         Dependencies resolved.
             Package
                                                                                                                                                                                                                                                             Architecture
                                                                                                                                                                                                                                                                                                                                                                                                                                         Version
(36/54): sssd-ipa-2.6.3-1.fc35.x86_64.rpm

(37/54): sssd-kcm-2.6.3-1.fc35.x86_64.rpm

(38/54): sssd-kcb5-2.6.3-1.fc35.x86_64.rpm

(39/54): sssd-ldap-2.6.3-1.fc35.x86_64.rpm

(48/54): sssd-ldap-2.6.3-1.fc35.x86_64.rpm

(41/54): sssd-frs-idmap-2.6.3-1.fc35.x86_64.rpm

(42/54): sssd-proxy-2.6.3-1.fc35.x86_64.rpm

(43/54): util-linux-core-2.37.3-1.fc35.x86_64.rpm

(43/54): util-linux-core-2.37.3-1.fc35.x86_64.rpm

(45/54): vtil-linux-core-2.37.3-1.fc35.x86_64.rpm

(45/54): vim-deaut-ser-2.37.3-1.fc35.x86_64.rpm

(47/54): vim-deaut-editor-8.2.4232-1.fc35.noarch.rpm

(48/54): vim-defaut-editor-8.2.4232-1.fc35.noarch.rpm

(48/54): vim-efaut-editor-8.2.4232-1.fc35.noarch.rpm

(58/54): vim-inimal-8.2.4232-1.fc35.x86_64.rpm

(58/54): vim-enimal-8.2.4232-1.fc35.x86_64.rpm
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  ($6)/$4): vzm-filesystem-8.2.4/32-1.7c35.Noarch.rpm
($15/$4): vim-minimal-8.2.4/32-1.7c35.Noarch.rpm
($1,4 MB/s | 710 kB 00:00
($25/$4): wpm_supplicant-2.10-2.fc35.x86_64.rpm
($1.0 MB/s | 1.6 MB 00:01
($3/$54): kernel-core-5.15.18-200.fc35.x86_64.rpm
($1.0 MB/s | 1.6 MB 00:01
($1,4 MB/s | 3.7 MB 00:01
(
 Luego del Update, procedemos a instalar MongoDB
```

```
omplete!
root@fedora ~]# sudo yum install -y mongodb-org
ast metadata expiration check: 0:23:13 ago on Wed Feb 2 09:47:32
  Running scriptlet: mongodb-org-server-4.4.4-1.el8.x86_64
Created symlink /etc/systemd/system/multi-user.target.wants/mongod.service → /usr/lib/systemd/system/mongod.service.
  Running scriptlet: cyrus-sasl-2.1.27-13.fc35.x86_64
  Installing
                     : cyrus-sasl-2.1.27-13.fc35.x86_64
  Running scriptlet: cyrus-sasl-2.1.27-13.fc35.x86_64
  Running scriptlet: mongodb-database-tools-100.5.2-1.x86 64
  Installing
                      : mongodb-database-tools-100.5.2-1.x86_64 [============
Installed:
 cyrus-sasl-2.1.27-13.fc35.x86_64
                                                  fontconfig-2.13.94-3.fc35.x86_64
                                                                                                 langpacks-core-font-en-3.0-15.fc35.noarch
 libX11-1.7.3.1-1.fc35.x86_64
libXft-2.3.3-7.fc35.x86_64
                                                  libX11-common-1.7.3.1-1.fc35.noarch
libXrender-0.9.10-15.fc35.x86 64
                                                                                                 libXau-1.0.9-7.fc35.x86_64
libxcb-1.13.1-8.fc35.x86_64
 mongodb-database-tools-100.5.2-1.x86_64
                                                  mongodb-org-4.4.4-1.el8.x86_64
                                                                                                 mongodb-org-database-tools-extra-4.4.4-1.el8.x86_64
 mongodb-org-mongos-4.4.4-1.el8.x86_64
mongodb-org-tools-4.4.4-1.el8.x86_64
                                                  mongodb-org-server-4.4.4-1.el8.x86_64
python2.7-2.7.18-15.fc35.x86_64
                                                                                                 mongodb-org-shell-4.4.4-1.el8.x86_64
tix-1:8.4.3-32.fc35.x86_64
 tk-1:8.6.10-7.fc35.x86_64
                                                   xml-common-0.6.3-57.fc35.noarch
Skipped:
 mongodb-org-4.4.12-1.el8.x86_64
                                            mongodb-org-database-tools-extra-4.4.12-1.el8.x86_64
                                                                                                            mongodb-org-tools-4.4.12-1.el8.x86_64
 omplete!
```

Iniciamos el servicio en Fedora con la comanda:

```
Skipped:
mongodb-org-4.4.12-1.el8.x86_64 mongodb-org-
Complete!
[root@fedora ~]# <mark>s</mark>udo systemctl start mongod
```

- Verificamos el estado del servicio con la comanda:

```
[root@fedora ~]# systemctl status mongod
  mongod.service - MongoDB Database Server
     Loaded: loaded (/usr/lib/system/system/mongod.service; enabled; vendor preset: disabled)
     Active: active (running) since Wed 2022-02-02 10:19:00 CET; 1min 6s ago
       Docs: https://docs.mongodb.org/manual
    Process: 43088 ExecStartPre=/usr/bin/mkdir -p /var/run/mongodb (code=exited, status=0/SUCCESS)
    Process: 43090 ExecStartPre=/usr/bin/chown mongod:mongod /var/run/mongodb (code=exited, status=0/SUCCESS)
    Process: 43092 ExecStartPre=/usr/bin/chmod 0755 /var/run/mongodb (code=exited, status=0/SUCCESS)
    Process: 43093 ExecStart=/usr/bin/mongod $OPTIONS (code=exited, status=0/SUCCESS)
   Main PID: 43097 (mongod)
     Memory: 58.4M
        CPU: 2.306s
     CGroup: /system.slice/mongod.service

_43097 /usr/bin/mongod -f /etc/mongod.conf
Feb 02 10:18:57 fedora systemd[1]: Starting MongoDB Database Server...
Feb 02 10:18:57 fedora mongod[43093]: about to fork child process, waiting until server is ready for connections.
Feb 02 10:18:57 fedora mongod[43097]: forked process: 43097
Feb 02 10:19:00 fedora mongod[43093]: child process started successfully, parent exiting
Feb 02 10:19:00 fedora systemd[1]: Started MongoDB Database Server.
[root@fedora ~]#
```

Conectamos el servicio:

Procedemos a entrar como admin para editar las contraseñas

```
> use admin
switched to db admin
>
```

- Luego de indicar el usuario "remote" y la contraseña, iniciamos la sesión para comprobar que nos reconoce el usuario

```
[root@fedora ~]# mongo -u remote
MongoDB shell version v4.4.4
Enter password:
connecting to: mongodb://127.0.0.1:27017/₹compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : WUIO("e67a9728-8b12-4925-93d8-cd14cce3c33e") }
MongoDB server version: 4.4.4
---
The server generated these startup warnings when booting:
2022-02-02110:19:00.390+01:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
---
> ■
```

- Procedemos a forzar el uso de autenticación, activando la seguridad.

```
# network interfaces
net:
    port: 27017
    bindIp: 127.0.0.1 # Enter 0.0.0.0.0,:: to bind to all IPv4 and IPv6 addresses or, alternatively, use the net.bindIpAll setting.
security:
    authorization: enabled
#operationProfiling:
#replication:
```

- Reiniciamos el servicio luego de guardar los cambios

```
[root@fedora ~]# sudo nano /etc/mongod.conf
[root@fedora ~]# sudo systemctl restart mongod
[root@fedora ~]#
```

Activamos el Firewall

```
[root@fedora ~]# sudo firewall-cmd --permanent --add-service=mongodb
success
[root@fedora ~]# sudo firewall-cmd --reload
success
[root@fedora ~]#
```

Procedemos a configurar el acceso remoto:

```
[root@fedora ~]# mongo --host 192.168.1.156:27017 -u remote

MongoDB shell version v4.4.4

Enter password:

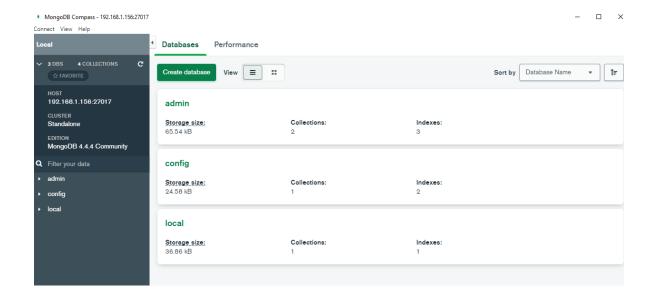
connecting to: mongodb://192.168.1.156:27017/?compressors=disabled&gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("6cbe5f33-e6ee-4cbf-b48f-a15570d2a553") }

MongoDB server version: 4.4.4

> ■
```

- Instalamos el compass y iniciamos la conexión con nuestro server fedora:



Ejercicio de Prueba, crear database de Libros

