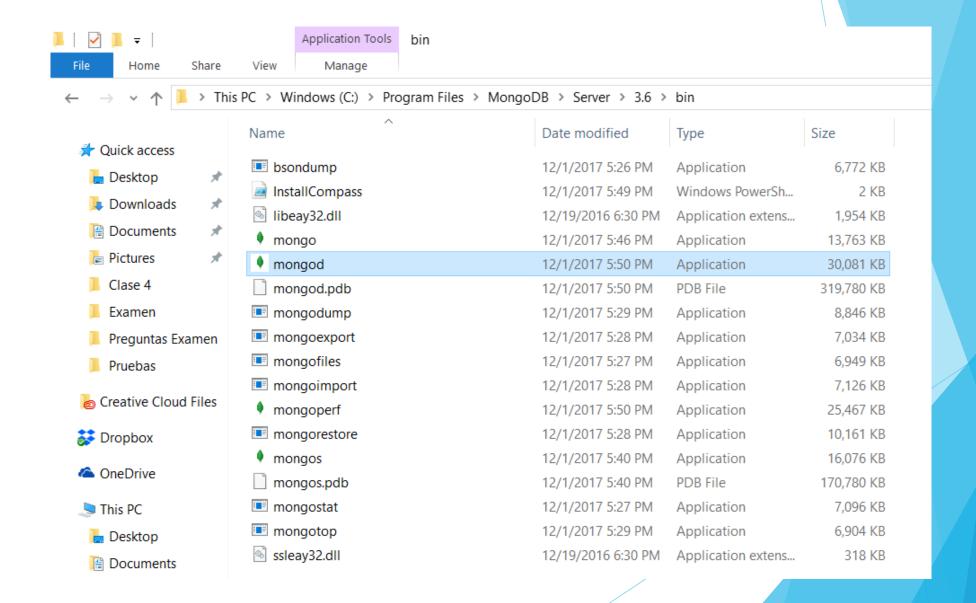
# MongoDb - Clase 4 CRUD (Create/Read/Update/Delete)

Cindy López

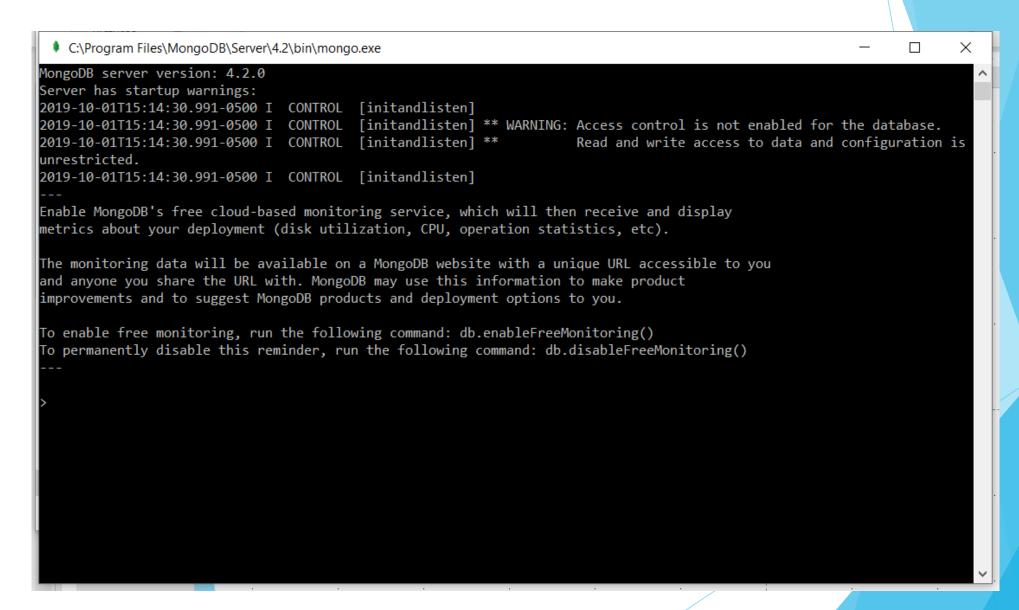
# Ejecutar MongoDB en Windows



# Instalación MongoDB en Windows

```
C:\Program Files\MongoDB\Server\3.6\bin\mongod.exe
                                                                                                                  X
2017-12-19T14:32:36.623-0700 I CONTROL <code>[initandlisten]</code> ** WARNING: Access control is not enabled for the database.
Read and write access to data and configuration is u
nrestricted.
2017-12-19T14:32:36.624-0700 I CONTROL [initandlisten]
2017-12-19T14:32:36.624-0700 I CONTROL [initandlisten]
                                                      ** WARNING: This server is bound to localhost.
2017-12-19T14:32:36.624-0700 I CONTROL [initandlisten] **
                                                                 Remote systems will be unable to connect to this ser
ver.
Start the server with --bind ip <address> to specify
which IP
2017-12-19T14:32:36.624-0700 I CONTROL [initandlisten] **
                                                                 addresses it should serve responses from, or with -
bind ip all to
2017-12-19T14:32:36.624-0700 I CONTROL [initandlisten] **
                                                                 bind to all interfaces. If this behavior is desired,
start the
2017-12-19T14:32:36.624-0700 I CONTROL [initandlisten] **
                                                                 server with --bind ip 127.0.0.1 to disable this warn
ing.
2017-12-19T14:32:36.625-0700 I CONTROL [initandlisten]
2017-12-19T14:32:36.626-0700 I CONTROL [initandlisten]
2017-12-19T14:32:36.627-0700 I CONTROL <code>[initandlisten] **</code> <code>WARNING: The file system cache of this machine is configured</code>
to be greater than 40% of the total memory. This can lead to increased memory pressure and poor performance.
2017-12-19T14:32:36.627-0700 I CONTROL [initandlisten] See http://dochub.mongodb.org/core/wt-windows-system-file-cache
                                      [initandlisten]
2017-12-19T14:32:36.628-0700 I CONTROL
                                      [initandlisten] createCollection: admin.system.version with provided UUID: 11e56
2017-12-19T16:32:36.630-0500 I STORAGE
004-1d3b-4d20-a3f6-67e11dbedda4
2017-12-19T16:32:36.644-0500 I COMMAND [initandlisten] setting featureCompatibilityVersion to 3.6
2017-12-19T16:32:36.653-0500 I STORAGE
                                      [initandlisten] createCollection: local.startup log with generated UUID: 5571bd4
f-603d-4dea-a3fb-1f224961912c
                                      [initandlisten] Initializing full-time diagnostic data capture with directory 'C
2017-12-19T16:32:37.052-0500 I FTDC
:/data/db/diagnostic.data'
2017-12-19T16:32:37.057-0500 I NETWORK [initandlisten] waiting for connections on port 27017
```

# Instalación MongoDB en Windows



# Primeros comandos en MongoDB Mostrar bdd

```
2017-12-19T14:43:53.8
> show dbs
admin 0.000GB
config 0.000GB
local 0.000GB
```

# Crear base de datos y mostrar colecciones

```
> use clasemongodb
switched to db clasemongodb
```

```
{ "_id" : ObjectId("5d952144a1c79b2a8c2b1144"), "nombre" : "cindy" }
> show collections
Collection
> _
```

#### Ver contenido

```
> db.bookmarks.find();
{ "_id" : ObjectId("5a398be8c4d604cc6cf89fc3"), "id" : 1, "nombre" : "Cindy", "apellido" : "Lopez", "clase" : "MongoDB" }
```

## Crear un registro

```
> db.bookmarks.save({id:1, nombre: "Cindy", apellido: "Lopez", clase:"MongoDB"})
WriteResult({ "nInserted" : 1 })
>
```

#### Insertar documentos

#### Listar y buscar elementos

```
db.frutas.find()
  frutas 0.001 sec.
   " id" : ObjectId("5995ac144203395df3c70a43"),
   "nombre" : "Naranja",
   "color" : "naranja"
   " id" : ObjectId("5995ad18c7d369ba40b6b8dc"),
   "nombre" : "Manzana",
   "color" : "Verde"
* 3 */
```

#### **Formato**

```
> use curso_mongo
switched to db curso_mongo
> db.frutas.find();
{ "_id" : ObjectId("5995ac144203395df3c70a43"), "nombre" : "Naranja", "color" : "naranja" >
{ "_id" : ObjectId("5995ad18c7d369ba40b6b8dc"), "nombre" : "Manzana Especial", "color" : "Verdoso", "temporada" :
Alta", "pais" : "España", "provincia" : "Murcia" >
{ "_id" : ObjectId("5995ad36c7d369ba40b6b8dd"), "nombre" : "Manzana Roja", "color" : "Rojo" >
{ "_id" : ObjectId("5995ad36c7d369ba40b6b8de"), "nombre" : "hola", "color" : 12 >
{ "_id" : ObjectId("5995ae21b5c2a31565593028"), "nombre" : "Uva", "color" : "Violeta", "temporada" : false >
}
```

```
db.frutas.find().pretty();

"_id" : ObjectId("5995ac144203395df3c70a43"),
"nombre" : "Naranja",
"color" : "naranja"
```

#### Listar y buscar elementos

```
db.frutas.find((color:'Rojo'))
frutas 0.029 sec.
   " id" : ObjectId("5995ad36c7d369ba40b6b8dd"),
   "nombre" : "Manzana Roja",
   "color" : "Rojo"
```

#### Listar y buscar elementos

```
db.frutas.find((color:'naranja', nombre:'Mango'))
  frutas 0.011 sec.
   " id" : ObjectId("5995b13fb5c2a31565593029"),
   "nombre" : "Mango",
   "color" : "naranja"
```

#### Borrar documentos

```
> db.frutas.remove({maduracion:true});
WriteResult({ "nRemoved"; 1 })
> _
```

```
db.frutas.remove({
        id: ObjectId("5995b13fb5c2a31565593029") [
});
```

#### Editar documentos

```
> db.frutas.update({nombre:'Manzana'}, {nombre:'Manzana Verde'})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

db.frutas.update({nombre:'Manzana'}, {nombre: 'Manzana Verde'})

```
Updated 1 existing record(s) in 4ms
```

# Editar y crear nuevos campos

```
* db.frutas.update({
                 MongoDB Local localhost: 27017
                              curso_mongo
db.frutas.update({
       nombre: 'Manzana Especial'
   Sset: {
        pais: 'España',
        provincia: 'Murcia'
  0.002 sec.
Updated 1 existing record(s) in 2ms
```

```
db.getCollection('frutas').find({})
  frutas 0.001 sec.
   " id" : ObjectId("5995ac144203395df3c70a43"),
   "nombre" : "Naranja",
   "color" : "naranja"
   " id" : ObjectId("5995ad18c7d369ba40b6b8dc"),
   "nombre" : "Manzana Especial",
   "color" : "Verdoso",
   "temporada" : "Alta",
   "pais" : "España",
   "provincia" : "Murcia"
   " id" : ObjectId("5995ad36c7d369ba40b6b8dd"),
   "nombre" : "Manzana Roja",
   "color" : "Rojo"
   " id" : ObjectId("5995adb6c7d369ba40b6b8de"),
   "nombre" : "hola",
   "color" : 12.0
```

#### Borrar base de datos

```
> db.dropDatabase()
{ "dropped" : "base_de_datos_probando", "ok" : 1 }
>
```

## Ejercicio

- Crear una colección de videos
- Cada video tiene los siguientes atributos
  - Título
  - Archivo de video asignado
  - Descripción
  - Campo de palabras claves
  - Comentarios

