

MONGODB - OBJECTID

https://www.tutorialspoint.com/mongodb/mongodb_objectid.htm

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We have been using MongoDB Object Id in all the previous chapters. In this chapter, we will understand the structure of ObjectId.

An **ObjectId** is a 12-byte BSON type having the following structure –

- The first 4 bytes representing the seconds since the unix epoch
- The next 3 bytes are the machine identifier
- The next 2 bytes consists of **process id**
- The last 3 bytes are a random counter value

MongoDB uses ObjectIds as the default value of **_id** field of each document, which is generated while the creation of any document. The complex combination of ObjectId makes all the **_id** fields unique.

Creating New ObjectId

To generate a new ObjectId use the following code –

```
>newObjectId = ObjectId()
```

The above statement returned the following uniquely generated id –

```
ObjectId("5349b4ddd2781d08c09890f3")
```

Instead of MongoDB generating the ObjectId, you can also provide a 12-byte id –

```
>myObjectId = ObjectId("5349b4ddd2781d08c09890f4")
```

Creating Timestamp of a Document

Since the **_id** ObjectId by default stores the 4-byte timestamp, in most cases you do not need to store the creation time of any document. You can fetch the creation time of a document using **getTimestamp** method –

```
>ObjectId("5349b4ddd2781d08c09890f4").getTimestamp()
```

This will return the creation time of this document in ISO date format –

```
ISODate("2014-04-12T21:49:17Z")
```

Converting ObjectId to String

In some cases, you may need the value of ObjectId in a string format. To convert the ObjectId in string, use the following code –

```
>newObjectId.str
```

The above code will return the string format of the Guid –

```
5349b4ddd2781d08c09890f3
```