

MongoDB

Mimanshu Maheshwari

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Chapter 1

Introduction

1.1 Getting Started with MongoDB Atlas

1.1.1 Creating and Deploying on Atlas Cluster

1. Create a Organization
2. Create a Project under Organization
3. Create a cluster → Advanced Settings → Shared M0 cluster → Add username and password → Add you ip as allowed origin.
4. Open Database tab and navigate to your cluster
5. Load default data
6. Navigate to collections tab to see loaded clusters
7. Sample database fetch from analytics accounts table

```
1 {
2   "_id": {
3     "$oid": "5ca4bbc7a2dd94ee5816238c"
4   },
5   "account_id": {
6     "$numberInt": "371138"
7   },
8   "limit": {
9     "$numberInt": "9000"
10  },
11  "products": [
12    "Derivatives",
13    "InvestmentStock"
14  ]
15 }
```

Listing 1.1: account test data

8. To filter on account id:

```
1 {
2   account_id: 794875
3 }
```

Listing 1.2: filter on account id

9. To login into atlas login use `atlas auth login`

10. create cluster with user and password:

```
1 atlas setup --clusterName myAtlasClusterEDU --provider WS --currentIp --skipSampleData --  
  ↪ username myAtlasDBUser --password myatlas-001 --projectId 66d19clf26ef8b512df3b41 |  
  ↪ tee atlas_cluster_details.txt
```

Listing 1.3: load cluster

11. Load sample data: `atlas clusters smapleData load myAtlasClusterEDU`

1.2 Introduction to MongoDB

1.2.1 Key Terms

Document

The basic using of data in MongoDB

Collections

A grouping of documents. Documents in collection are typically similar they don't necessarily have same structuer.

Database

A container for Collections

1.3 MongoDB and The Document Model

1.3.1 The MongoDB Document Model