

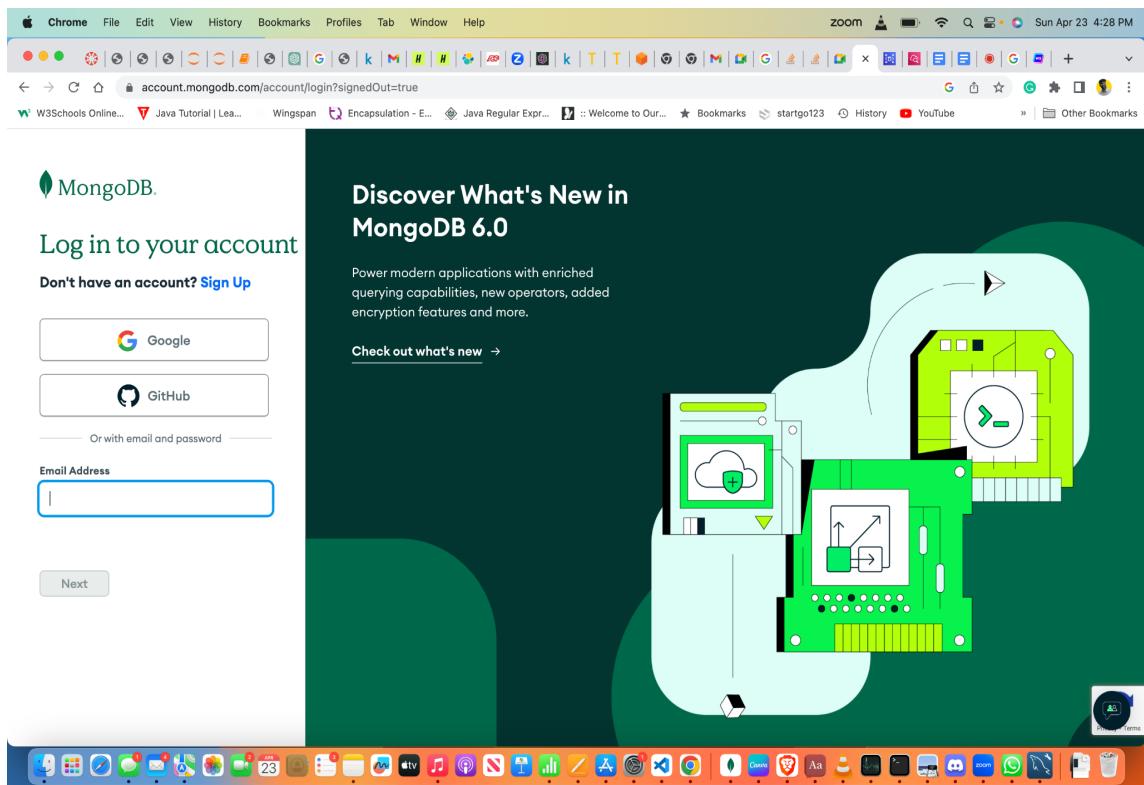
SJSU CHATGPT TWITTER ANALYSIS

Mongodb-Connectivity - Lab Report - 2 (Team - 8)

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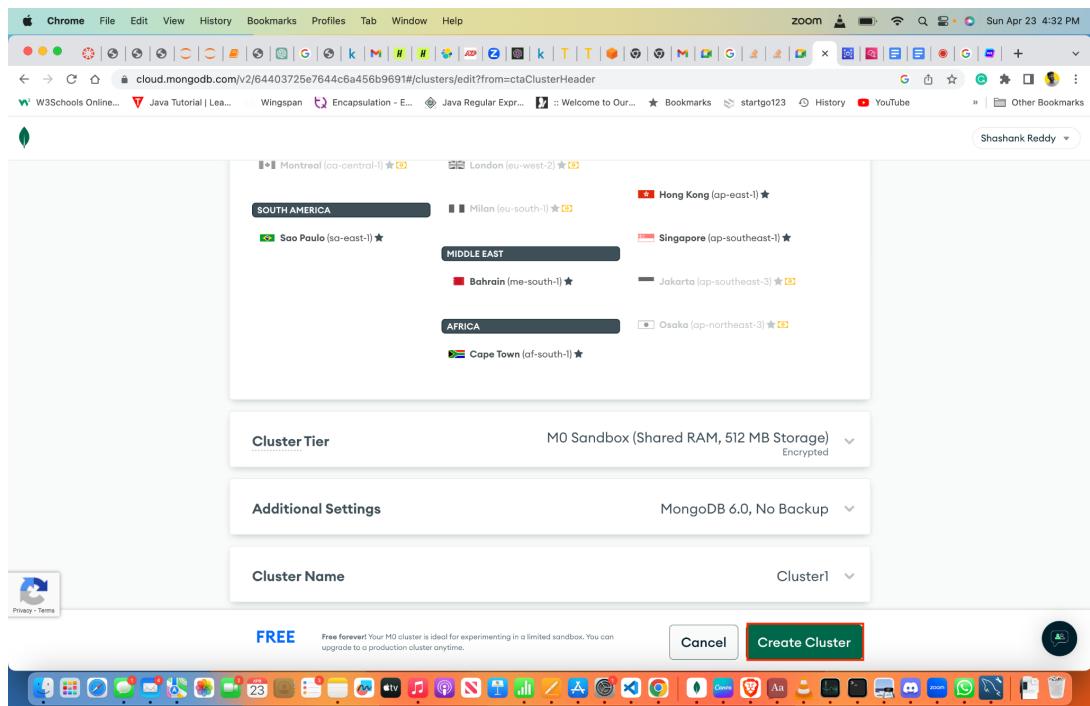
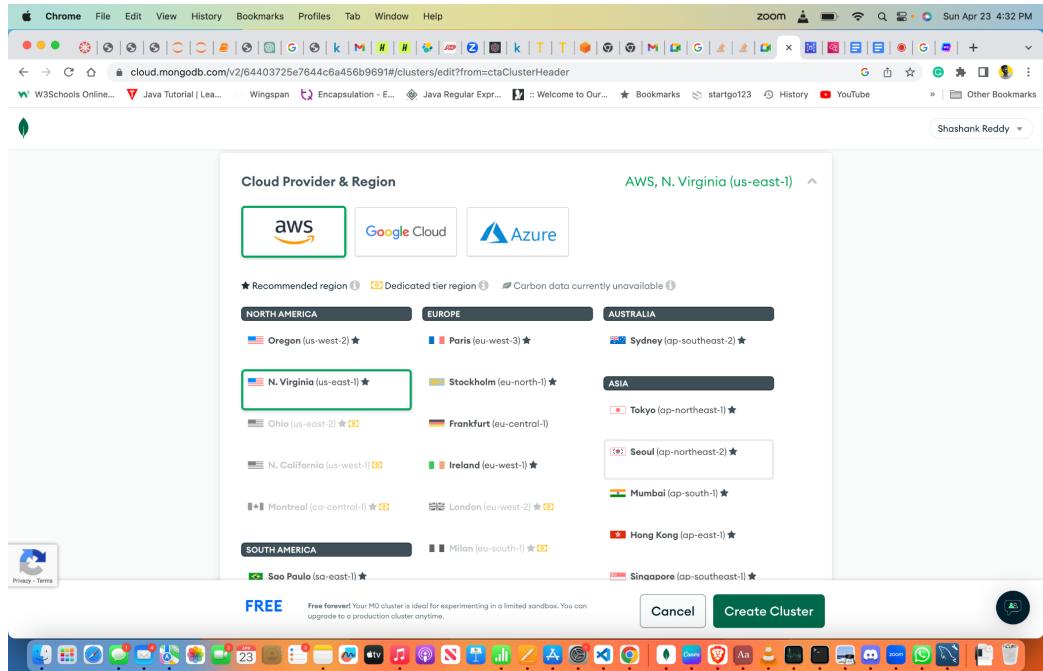
Step-By-Step Procedure For Connecting Mongodb In The Cloud:

1. We have to Sign up for a cloud MongoDB service provider, such as MongoDB Atlas, mLab, or Compose. Here in this project, we used MongoDB Atlas.



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2. We have created a MongoDB instance with the desired configuration, such as the number of nodes, storage size, and region.



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3. We created a network access for the MongoDB instance, including whitelisting IP addresses or enabling VPC peering.

The screenshot shows the MongoDB Atlas interface for managing network access. The left sidebar has sections for Deployment, Services (selected), and Database Access (selected). Under Database Access, Network Access is highlighted. The main area displays the 'IP Access List' tab, which lists whitelisted IP addresses. A note says: "You will only be able to connect to your cluster from the following list of IP Addresses:". The table includes columns for IP Address, Comment, Status, and Actions (Edit, Delete). The status for all listed IPs is Active. A green '+ ADD IP ADDRESS' button is at the top right. The bottom navigation bar shows 'System Status: All Good' and links to MongoDB Inc., Status, Terms, Privacy, Atlas Blog, and Contact Sales.

4. We have created MongoDB server users with the appropriate level of permissions, such as read/write access to specific databases or collections.

The screenshot shows the MongoDB Atlas interface for managing database access. The left sidebar has sections for Deployment, Services (selected), and Database Access (selected). Under Database Access, Database Users is highlighted. The main area displays the 'Database Users' tab, which lists user accounts. A green '+ ADD NEW DATABASE USER' button is at the top right. The table includes columns for User Name, Authentication Method, MongoDB Roles, Resources, and Actions (Edit, Delete). The authentication method for all users is SCRAM. The MongoDB Roles are either 'atlasAdmin@admin' or 'readWriteAnyDatabase@admin'. The resources granted vary by user. The bottom navigation bar shows 'System Status: All Good' and links to MongoDB Inc., Status, Terms, Privacy, Atlas Blog, and Contact Sales.

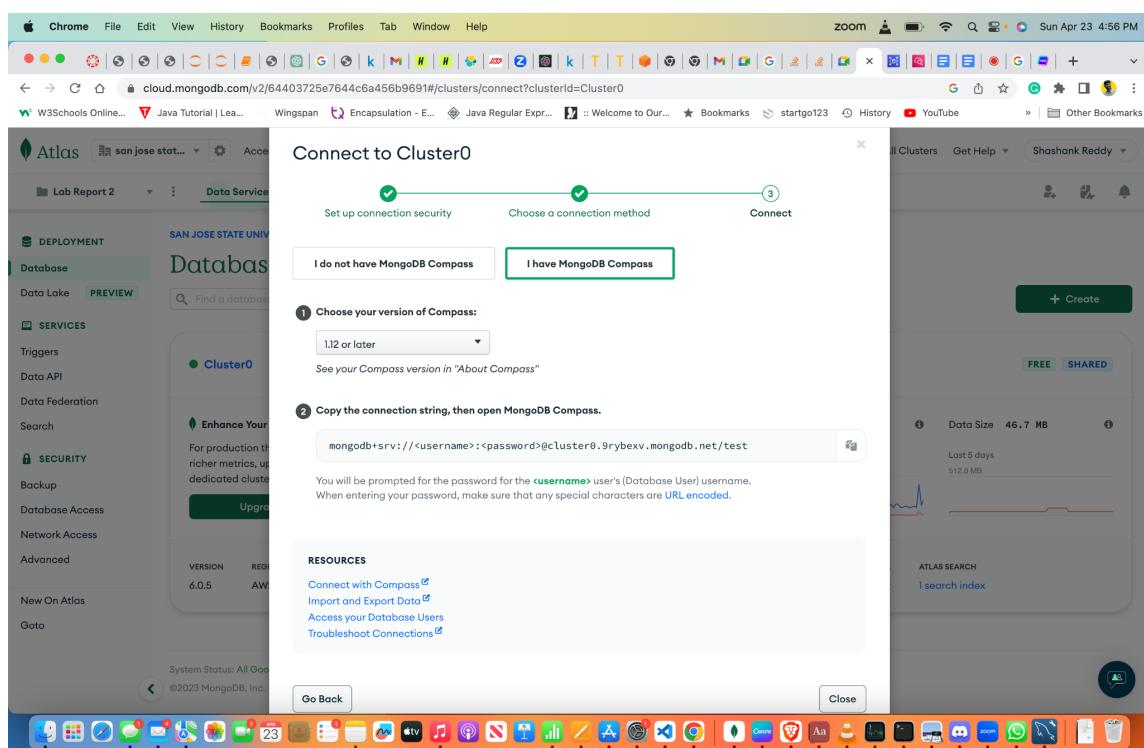
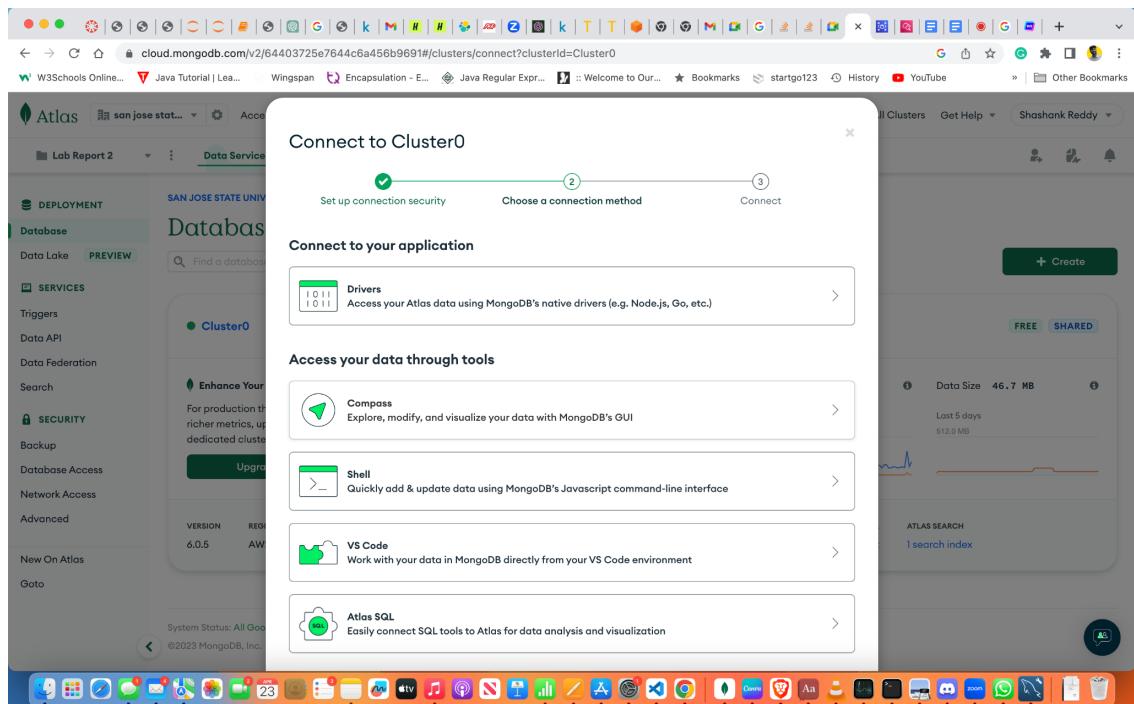
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The screenshot shows the MongoDB Atlas interface. On the left sidebar, under 'Database Access', 'Database' is selected. In the main panel, a form for creating a 'Database User Privileges' is displayed. The 'Built-in Role' dropdown is set to 'Read and write to any database'. The 'Custom Roles' section is collapsed. The 'Specific Privileges' section is also collapsed. Below these, the 'Restrict Access to Specific Clusters/Federated Database Instances' section has a toggle switch turned on, and it lists '1 Cluster, 0 Federated Database Instances' with 'Cluster0' under 'CLUSTERS'. The right side of the screen shows a list of existing database users with edit and delete actions. The top navigation bar includes links like 'Lab Report 2', 'SAN JOSE', 'Data Lake', and 'PREVIEW'. The bottom of the screen shows a Mac OS X dock with various application icons.

This screenshot shows the same MongoDB Atlas interface as the previous one, but with a modal dialog open over the main content. The modal is titled 'Password Authentication' and contains a single input field with the placeholder 'shashankreddy'. Below this, there's an 'Edit Password' button. The main configuration area for 'Database User Privileges' is visible again, showing the 'Atlas admin' role selected in the 'Built-in Role' dropdown. The 'Custom Roles' and 'Specific Privileges' sections are collapsed. The 'Restrict Access to Specific Clusters/Federated Database Instances' section is also present. At the bottom right of the modal, there are 'Cancel' and 'Update User' buttons. The rest of the interface and the Mac OS X dock at the bottom remain the same.

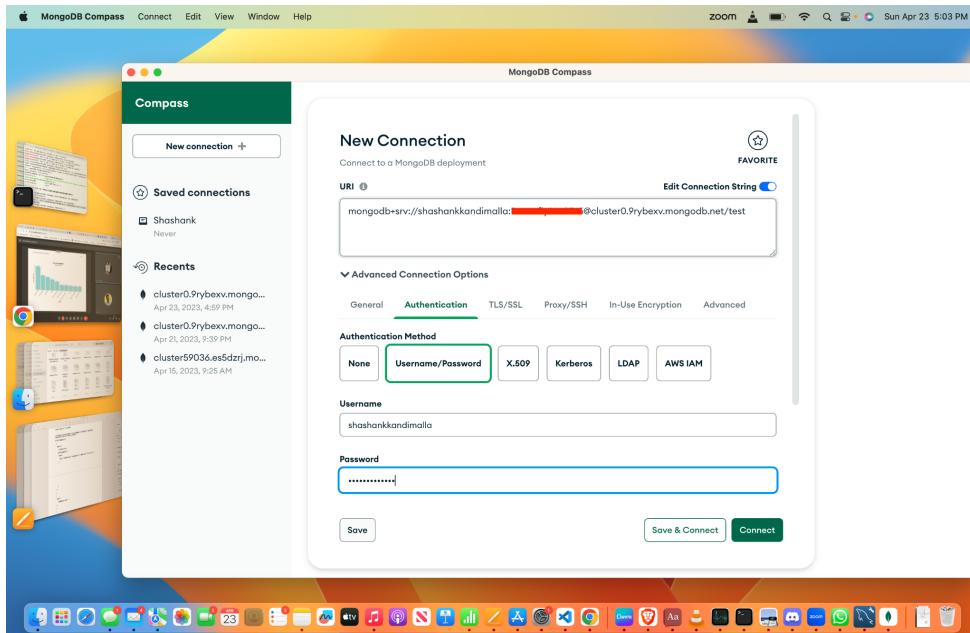
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5. Then, we generated a connection string for the MongoDB instance, including the username, password, and host address.



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6. We can connect to the MongoDB instance using a MongoDB client or driver, such as the Mongo shell, MongoDB Compass, or a programming language driver. Here in our case, we have used MongoDB Compass.



7. Further, we tested the connection and verified that the MongoDB instance is accessible and functioning correctly.

A screenshot of the MongoDB Compass interface. On the left, the sidebar shows databases like "admin", "config", "labreport2", and "local", with "labreport2" currently selected. Under "labreport2", the "Tweet" collection is selected. The main pane shows the "Documents" tab for the "labreport2.Tweet" collection, with 50.0k documents and 1 index. A search bar at the top of the documents list has the query "Type a query: { field: 'value' }". Below the search bar are "ADD DATA" and "EXPORT COLLECTION" buttons. The document list shows one document with the following details:

```
_id: ObjectId('6409ec1d194497fc885421bf5265ea900')
Dateime: "2023-01-22T03:45:00Z"
Tweet Id: 1617156291046133761
Text: "Caput_Lupinum5G
AlexandrovnaIng of ChatGPT has been added to the honor co."
Username: "Caput_Lupinum5G"
Permalink: "https://twitter.com/Caput_Lupinum5G/status/1617156291046133761"
User: "https://twitter.com/Caput_Lupinum5G"
ReplyCount: 1
RetweetCount: 0
LikeCount: 5
QuoteCount: 0
ConversationId: 161714839993806848
Language: "en"
Source: "ca href="http://twitter.com/download/iphone" rel="nofollow">Twitter fo."
MentionedUsers: "[User(username='AlexandrovnaIng', id=2827059006, displayname='Alexandr_'
hashtag: "#"
hashtag_counts: 0
```

At the bottom of the screen, a mongo shell session is running:

```
> _MONGOSH
> db.Tweet.find({Text: /ChatGPT/}).sort({'RetweetCount': -1}).limit(1).pretty()
< ...
  _id: ObjectId("6409ec1d194497fc885421bf5265ea900"),
  Dateime: "2023-01-22T03:45:00Z",
  'Tweet Id': 1617156291046133761,
  Text: 'Caput_Lupinum5G
AlexandrovnaIng of ChatGPT has been added to the honor co.'
  Username: "Caput_Lupinum5G"
  Permalink: "https://twitter.com/Caput_Lupinum5G/status/1617156291046133761"
  User: "https://twitter.com/Caput_Lupinum5G"
  ReplyCount: 1
  RetweetCount: 0
  LikeCount: 5
  QuoteCount: 0
  ConversationId: 161714839993806848
  Language: "en"
  Source: "ca href="http://twitter.com/download/iphone" rel="nofollow">Twitter fo."
  MentionedUsers: "[User(username='AlexandrovnaIng', id=2827059006, displayname='Alexandr_'
  hashtag: "#"
  hashtag_counts: 0
```