**Tableau Setup**

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| **Libraries / Applications** | **Version** | **Usage** |
| Tableau Prep Builder | 2022.4 | Programming in tableau is done here. |
| Tableau Desktop | Updated Version | Building and Visualization of Dashboards. |
| MongoDB | Updated Version | Storing/Retrieve/Updation of Data |
| Drivers/Connectors: JDBC, ODBC, MongoDB BI connector. | Updated Version | Used to connect the database and the application |
| Python | Updated Version | Customize the application using Python. |
| TabPy | Updated Version | Tableau + Python this is used to execute python programming in Tableau. |
| Tableau Cloud | Updated Version | Tableau Cloud is a Cloud version of Tableau Desktop. |
| Ask Data from Tableau Cloud | Updated Version | Ask Data generates the charts on its own and suggest new charts with the data given. |

**Process / Steps:**

* Install the MongoDB updated version and set the environmental path.
* Start the MongoDB using the command in the command prompt.
  + Open a cmd and execute – “mongod”
  + Open a cmd and execute – “mongo”
* Run the “mongosqld” file from the MongoDB folder in the System.
* Connecting to the Database from Tableau.
  + Install the drivers given above.
  + Source we are going to give to Tableau is through MongoDB.
  + Once we are accessing the Visual Workbench Platform the Data is stored in the MongoDB. The stored data will be the source data for tableau.
  + To access this data, Open tableau and navigate to source and click on “MongoDB BI Connector” and then enter the local path and save it. This will connect the Database as a source to Tableau.
* ODBC
  + Once after successful installation of ODBC Driver, From the windows panel navigate to ODBC driver and click on source and then give the MongoDB local instance as the source. On click this will show the data, once confirming hit the test button. When the test is successful, click on save.
* Navigate to Tableau, now you can able to see the Data connected from MongoDB to Tableau.
* TabPy
  + Tableau + Python, Tableau provides a option to integrate python code into tableau using TabPy interface.
  + Install TabPy in the system using the command “pip install tabpy”
  + Open another terminal and start the tabpy using the command “tabpy”
  + Once after installation, navigate to Tableau > Help > Settings and Performance > Manage Analytics Extension Connection.
  + Choose TabPy and give the local instance portal number and click on run. This will instantiate the TabPy connection.