

ARCHITECTURE

INVESTMENT ANALYTICS

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Version 1.0

❖ INDEX

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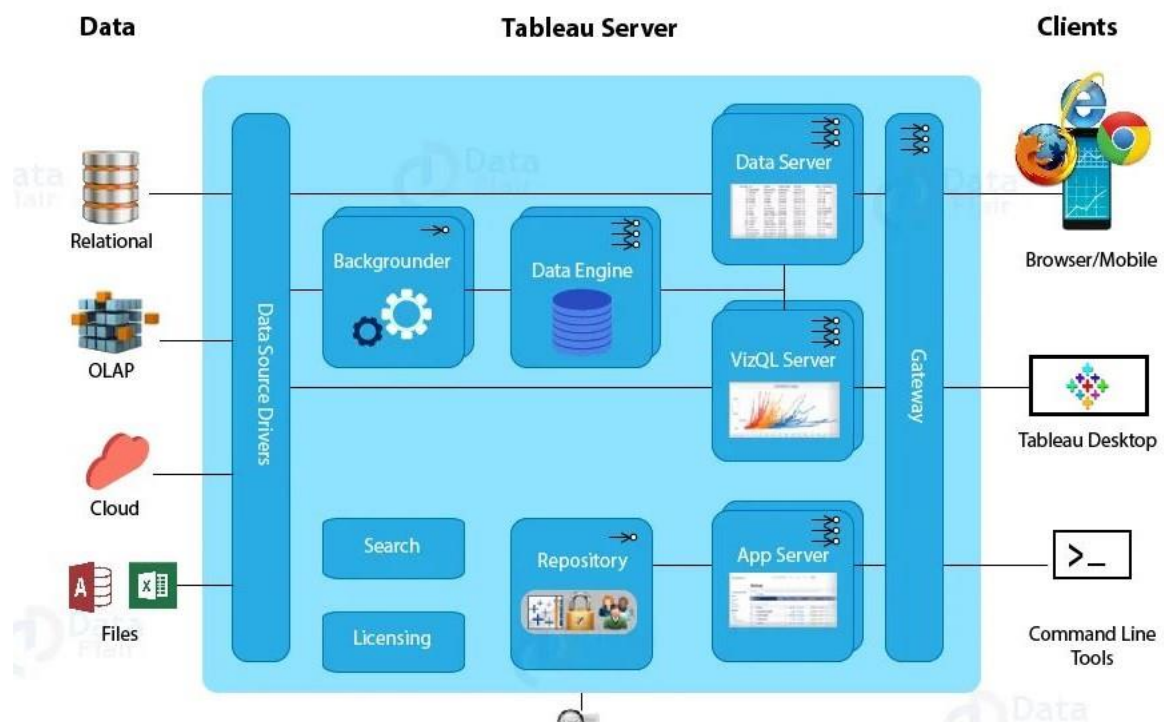
❖ INTRODUCTION

- ❖ Investment Analytics focuses on analysis of FDI made in India from the year 2000 - 2017 in various sectors.
- ❖ The objective of the project is to perform data visualization techniques to understand the insight of data. This mainly aims to apply visualization tools such as Tableau. Microsoft Excel is used to get a better understanding of the data.

❖ SCOPE

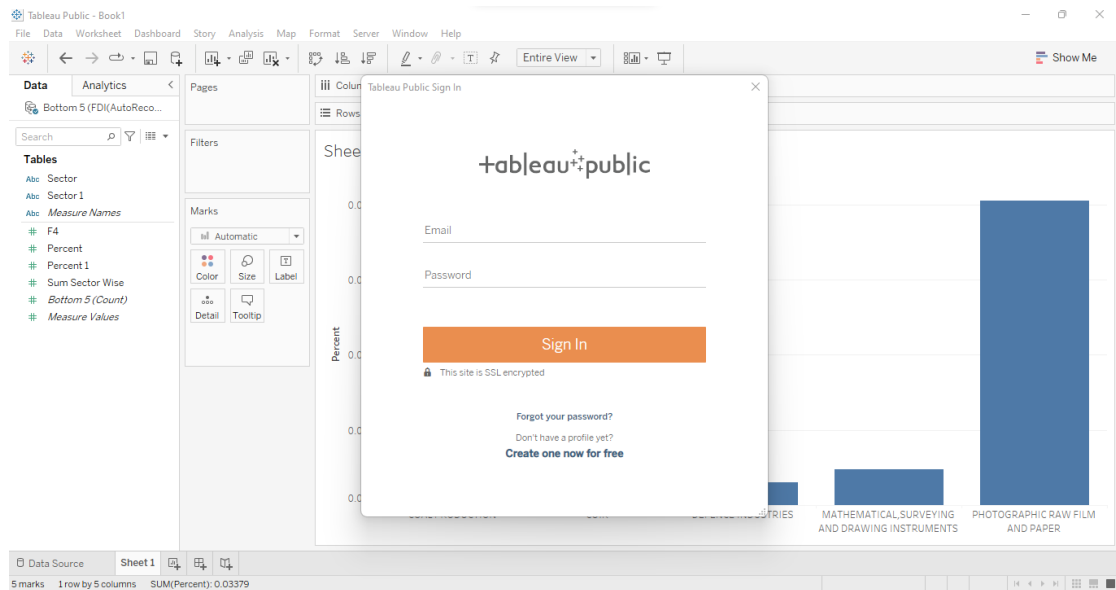
The aim of this project is to find year- wise and sector - wise investments made from the year 2000 - 2017 and to find the highly invested and least invested sectors. All insights are found using MS Excel and also the dashboard is created using it. Tableau is used for better experience of data visualization. Through this dashboard one can easily find the Foreign Direct Investments made year-wise and sector-wise.

❖ ARCHITECTURE



1. Data server:- Data sources are the primary component of Tableau Architecture. It is capable of blending data from a variety of sources. Furthermore, it can be used to establish relationships between different types of data an excel file, a database, and a web application at the same time.
2. Data connector:- The Data Connectors provide an interface to connect external data sources with the Tableau Data Server.
Tableau has an in-built SQL/ODBC connector that can be connected to any database without using its native connector. Tableau Desktop has the option to select both extracted and live data.
3. Components of Tableau server: Different types of components of the Tableau server are:
 - (1) Application server
 - (2) VizQL server
 - (3) Data server
4. Gateway: The gateway that directs requests from users to Tableau components. When the client sends a request, it is forwarded to the external load balancer for processing. The gateway works as a distributor of processes to different components.
5. Clients: The visualizations and dashboards in the Tableau server can be edited and viewed using different clients. Clients are web browsers, mobile applications, and Tableau Desktop.
6. Web Browser: Web browsers like Google Chrome, Safari, and Firefox support the Tableau server. By using these web browsers, you can edit the visualization and content on the dashboard.
7. Mobile Application: The dashboard from the server can be interactively visualized using a mobile application and browser.

❖ DEPLOYMENT



There are multiple ways to deploy the dashboard in Tableau. The simplest way is to publish directly on Tableau Public server from online mode. One can easily publish the work from the desktop and then it will open in browser. The user must sign in to publish the work. This work can be viewed by all the viewers around the world. You can share it via a sharable link. Thus, user can deploy a dashboard using Tableau Public.