

# Architecture

## Bank Marketing Analytics

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# DOCUMENT CONTROL

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# 1. Introduction

## 1.1 What is an Architecture design document?

Any software needs the architectural design to represent the design of software. IEEE defines architectural design as “the process of defining a collection of hardware and software components and their interfaces to establish the framework for the development of a computer system.” The software that is built for computer-based systems can exhibit one of these many architectures.

**Each style will describe a system category that consists of :**

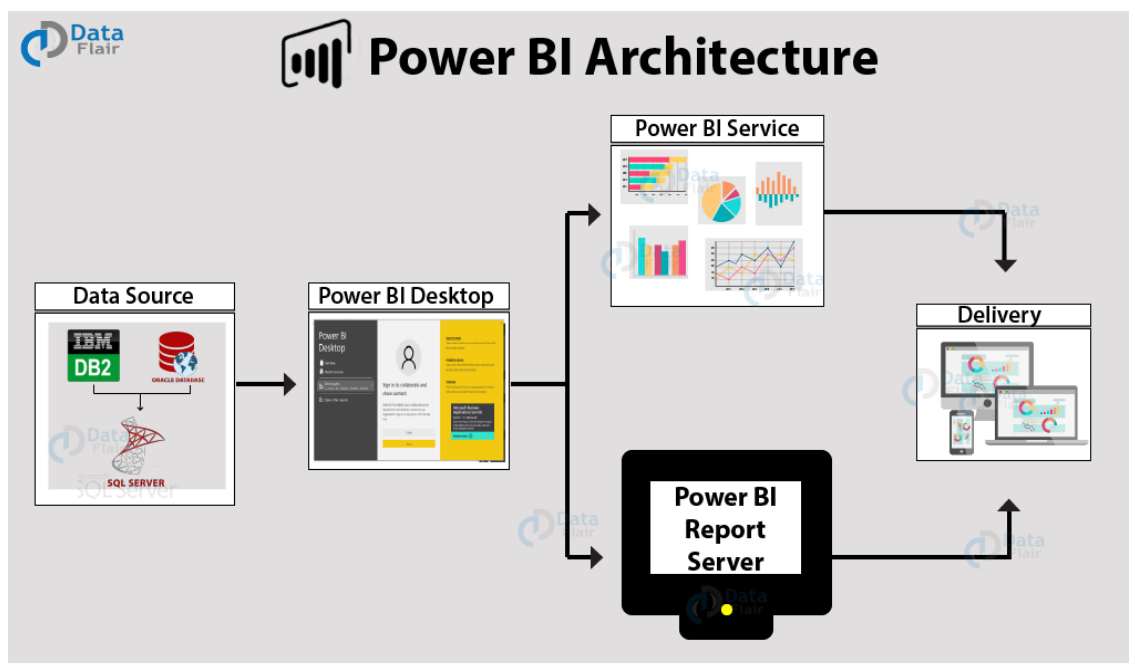
- A set of components (eg: a database, computational modules) that will perform a function required by the system.
- The set of connectors will help in coordination, communication, and cooperation between the components.
- Conditions that how components can be integrated to form the system.
- Semantic models that help the designer to understand the overall properties of the System.

## 1.2 Scope

Architecture Design Document (ADD) is an architecture design process that follows a step-by-step refinement process. The process can be used for designing data structures, required software architecture, source code and ultimately, performance algorithms. Overall, the design principles may be defined during requirement analysis and then refined during architectural design work.

## 2.0 Architecture

### 2.1 Power BI Architecture:



#### 2.1.1 Power BI Desktop:

Power BI Desktop application used on the local machine that performs transformation and visualisation of data. The application is used to build visuals and collections of visuals are shared as reports with stakeholders organization servers.

#### 2.1.2 Power BI Service:

The Power BI Service is a cloud-based service where stakeholders view and interact with the reports. Stakeholders in the Service can edit the reports and create visuals based on the existing data model and also share and collaborate with other Stakeholders.

### 2.1.3 Power BI Report Server:

Power BI Report Server is an on-premises report server with a web portal in which stakeholders can display and manage reports and KPIs. Along with it come the tools to create Power BI reports, paginated reports, mobile reports, and KPIs.

### 3.0 Publishing:

After generating report we can deploy it in Power BI Service or on web application or websites using APIs

