

# Components and Architecture

The IDERA Dashboard provides web and back-end services, shared across multiple IDERA products.

The IDERA Dashboard consists of the following components:

- **Web Application Service**
- **Core Service**
- **Core Repository**

## Web Application Service

The Web Application Service is a Windows service that wraps Apache Tomcat server. The Web Application Service serves up the dashboard (IDERA Dashboard) and products views and widgets that are displayed in the web console. The Web Application Service requires three ports:

- Service port: **9290**
- Monitor port: **9094**
- SSL port: **9291**

## Core Service

The Core Service is a C# (.NET 4.0 Framework) based Windows service that hosts dashboard and REST APIs that are used by the Web Application Service to configure and retrieve data. In addition, the Core Service handles product registration, security, configuration, product data, and event aggregation.

The Core Service uses a port for REST API:

- Core Service REST API port: **9292** (by default)

## Core Repository

The Core Repository is a database where all dashboard's configuration and aggregated data are stored. The Core Repository database is hosted on a SQL Server instance and is accessed by the Core Service to retrieve data.