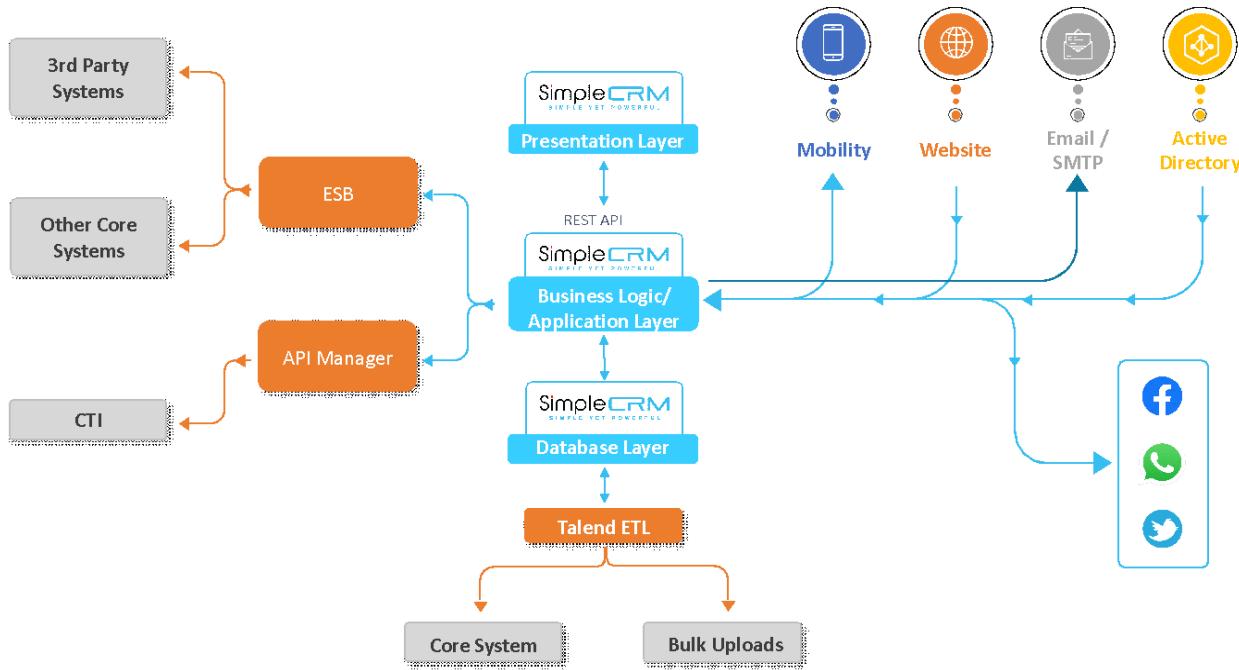


# SimpleCRM Integration and Deployment Architecture

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## 1. Integration Architecture:

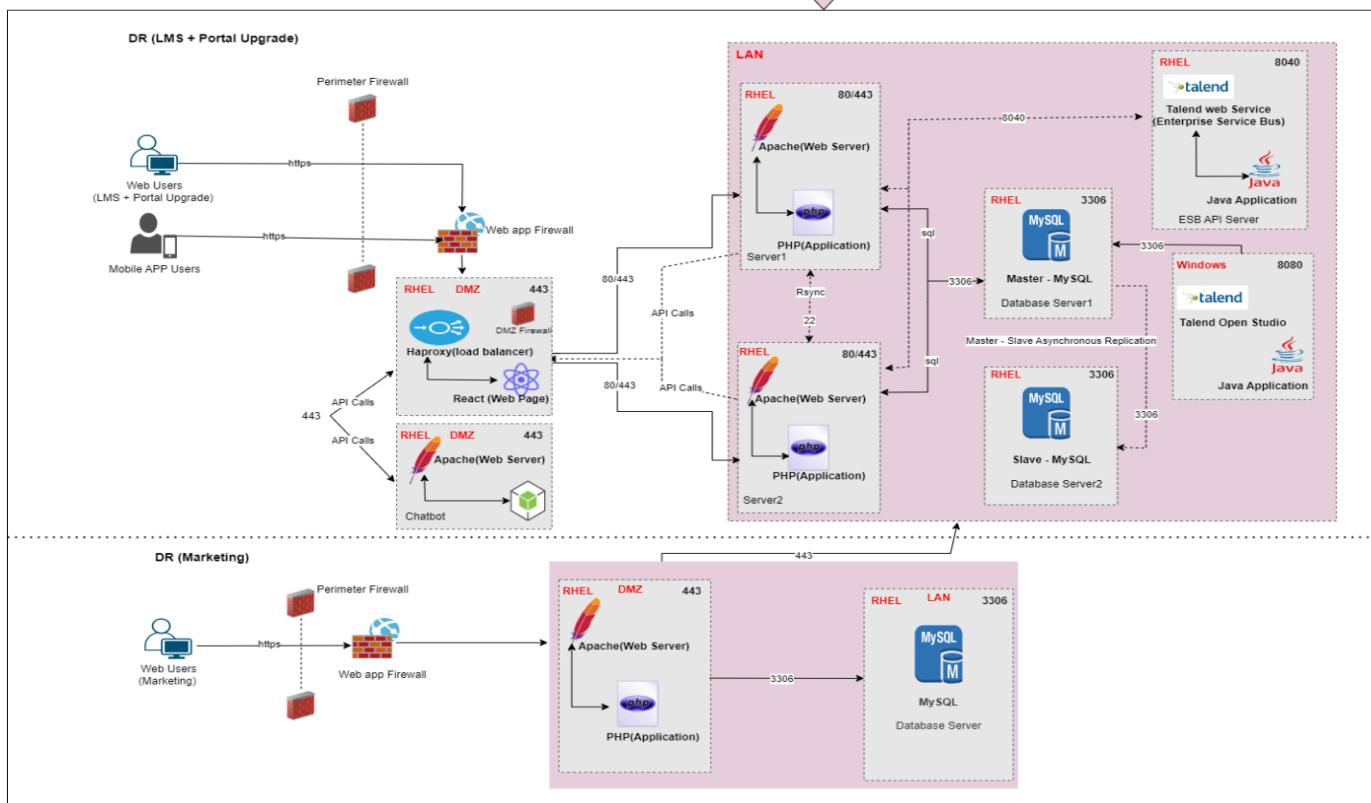
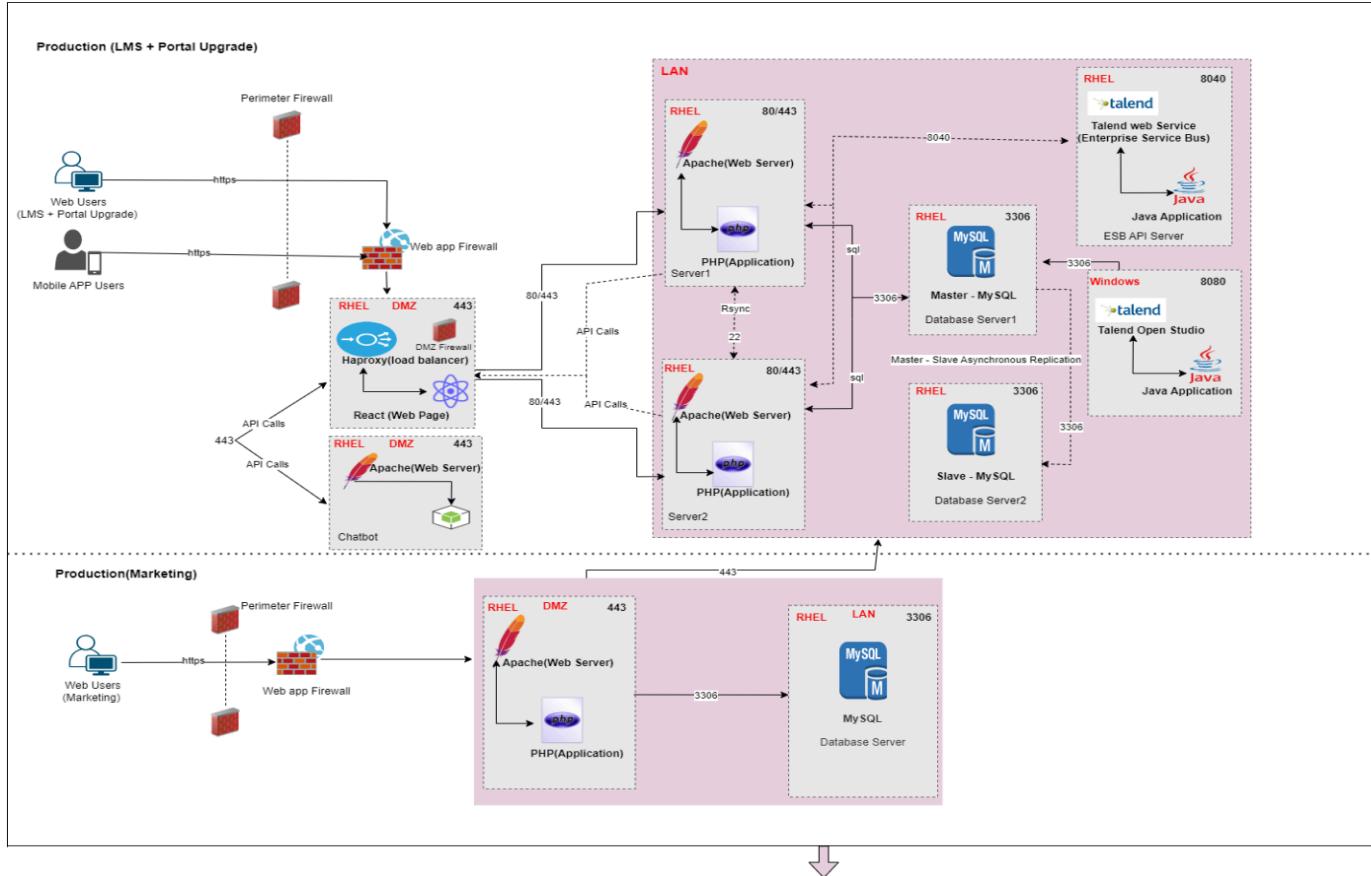


- SimpleCRM Application contains three layers which are Presentation, Application, and Database Layer.
- The presentation layer consists of the react component which interacts with the backend Application layer(PHP) via Rest APIs and the backend application retrieves the data from the database and presents the data back to the presentation layer.
- The presentation Layer acts as a load balancer to distribute load across two backend application servers for high availability.
- Database servers are configured in Master-Slave mode using Asynchronous Replication.
- Talend Enterprise Service Bus(ESB) acts as an integration server that builds the API web services and processes the data into the database system via application endpoints using Java components.
- Talend Open Studio is a data migration tool that integrates with a Database system

for the migration of data using ETL (Extract, Transform, Load) jobs.

## **2. Deployment Architecture:**

- Database servers are configured in Master-Slave mode using Asynchronous Replication.
- Application, Database Talend API, and Talend migration Servers are hosted in the Local Area Network(LAN) and the Presentation layer is hosted on DMZ.
- The marketing Application server is hosted on DMZ which interacts with the Marketing Database deployed over the Local Area Network.



### 3. Capacity Planning Assumptions

Assumptions for Production Setup	
Named Users	3000
Concurrent logged in sessions	60%
Concurrent Users	1800
server load triggers per active session per minute(TPM)	5
Number of server load triggers/second	0.083333333333
Total number of active load users/second	150
Total number of records in millions	25