



Share-VDE technological stack

Share-VDE's engines: the API Layers



A powerful and highly standardized **API** exposing Share-VDE' search capabilities over the **HTTP** protocol.

It comes in two flavours:

- **GraphQL**, with a rich data dictionary and the flexibility to query and extract only the fields of interest.
- **RESTful**, returning data represented according to the **HATEOAS** standard.

An advanced API offering **Prism curation** capabilities.

It takes advantage of the most modern features of **GraphQL** to establish a continuous informational dialogue between the server and the connected clients, so to offer them the most reactive experience possible.

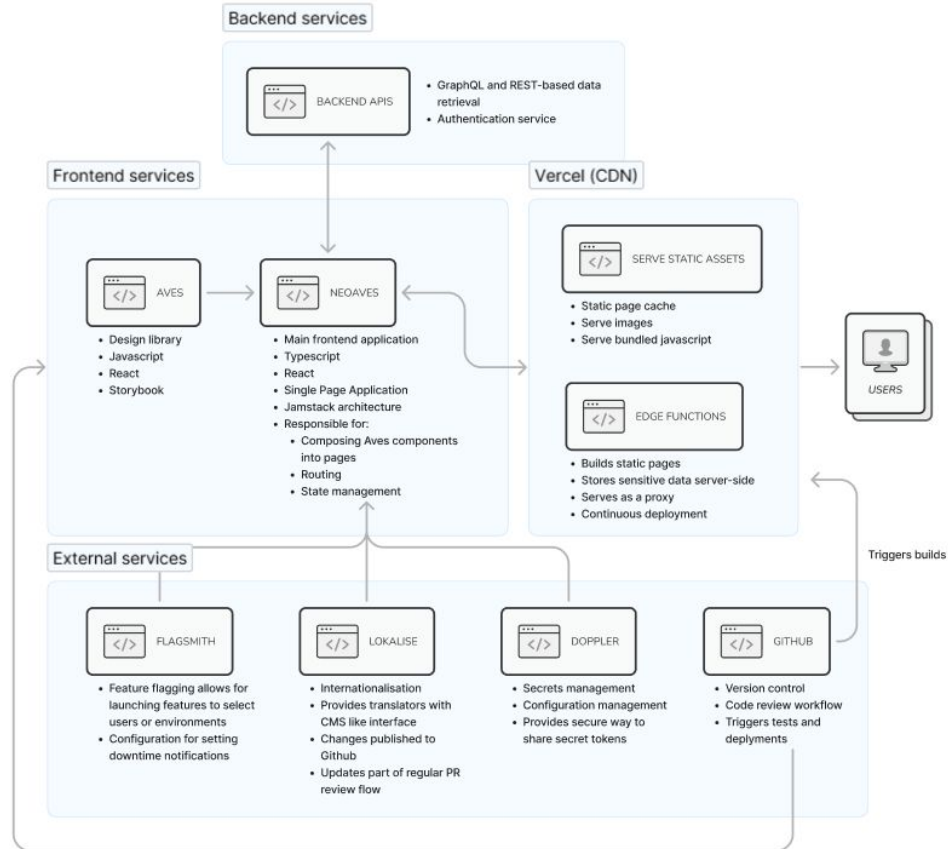
The Technology Stack (back-end)



The Technology Stack (front-end)



The Technology Stack (front-end architecture)



Share-VDE: Infrastructure



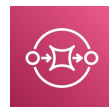
Amazon EC2



Amazon Relational Database Service (Amazon RDS)



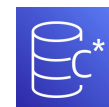
AWS Lambda



Amazon Simple Queue Service (Amazon SQS)



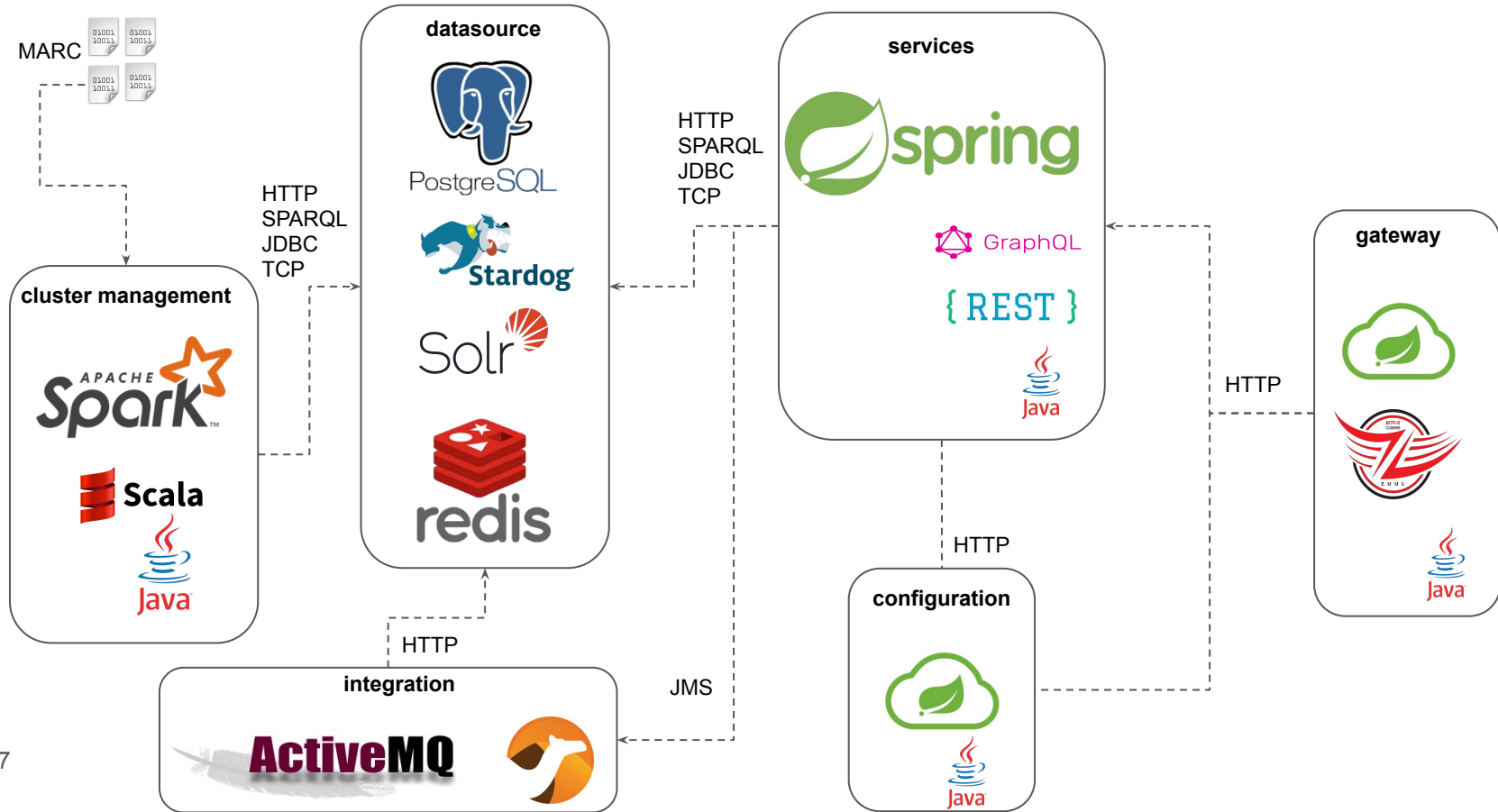
Amazon EMR



Amazon Keyspaces (for Apache Cassandra)



Back end: High level component diagram





Virtual
Discovery
Environment

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