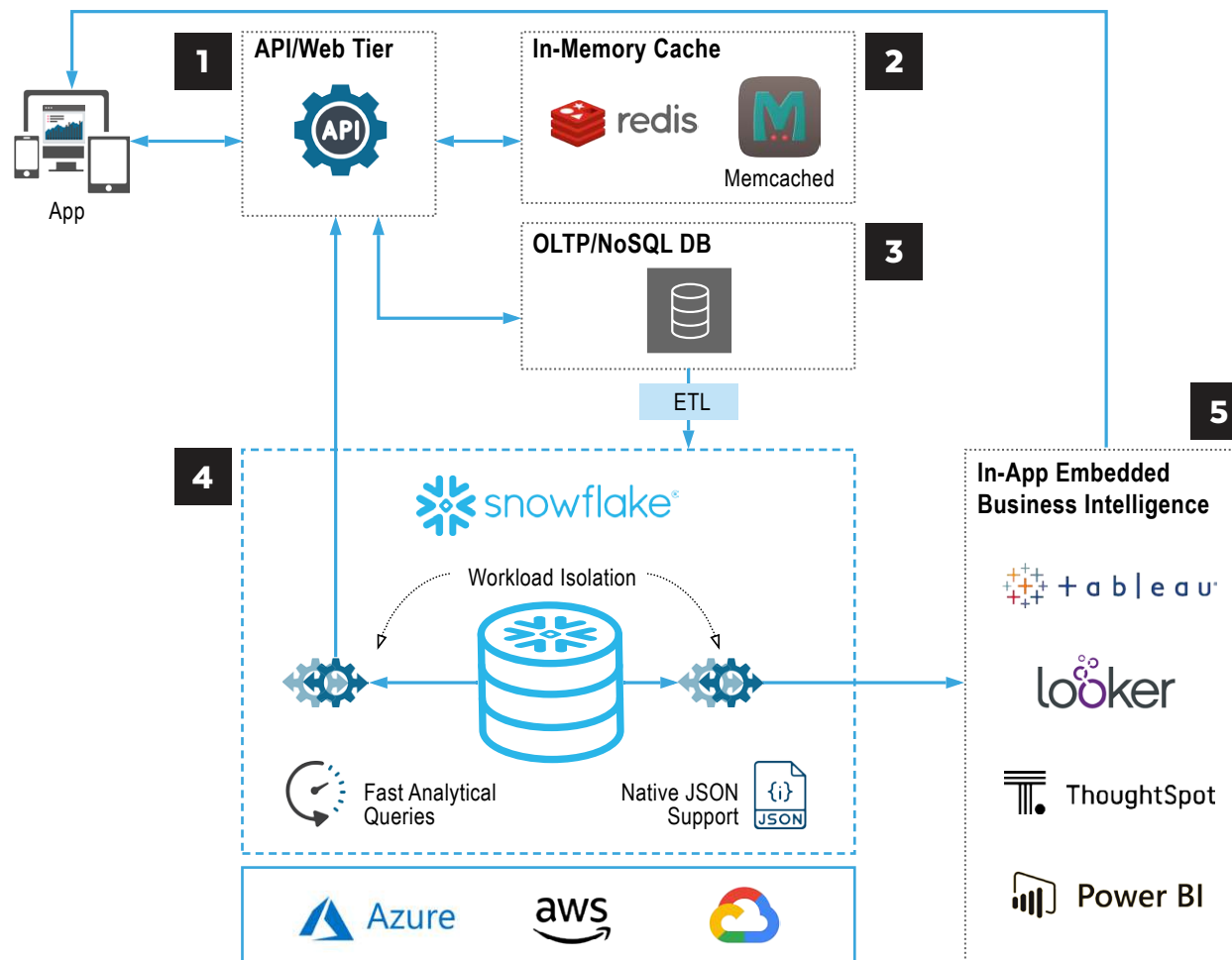


EMBEDDED ANALYTICS REFERENCE ARCHITECTURE

EMBEDDED ANALYTICS



OBJECTIVE

Build analytics-heavy applications that deliver in-app visualizations.

DESCRIPTION

- 1 The application makes requests via an API or web tier, depending on whether API management is required to enforce an SLA.
- 2 In-memory cache provides in-session read requests to ensure millisecond response time.
- 3 An OLTP or NoSQL database supports the transaction workloads of the application. Snowflake (4) ingests historical transaction data via ETL infrastructure to support analytical workloads.
- 4 Snowflake stores all historical data and supports queries by the application and business intelligence tools (5). Virtual warehouses isolate workloads and autoscale compute resources to deliver high performance queries and unlimited concurrency.
- 5 Embedded business intelligence tools or open-source charting libraries support analytics from within the application.