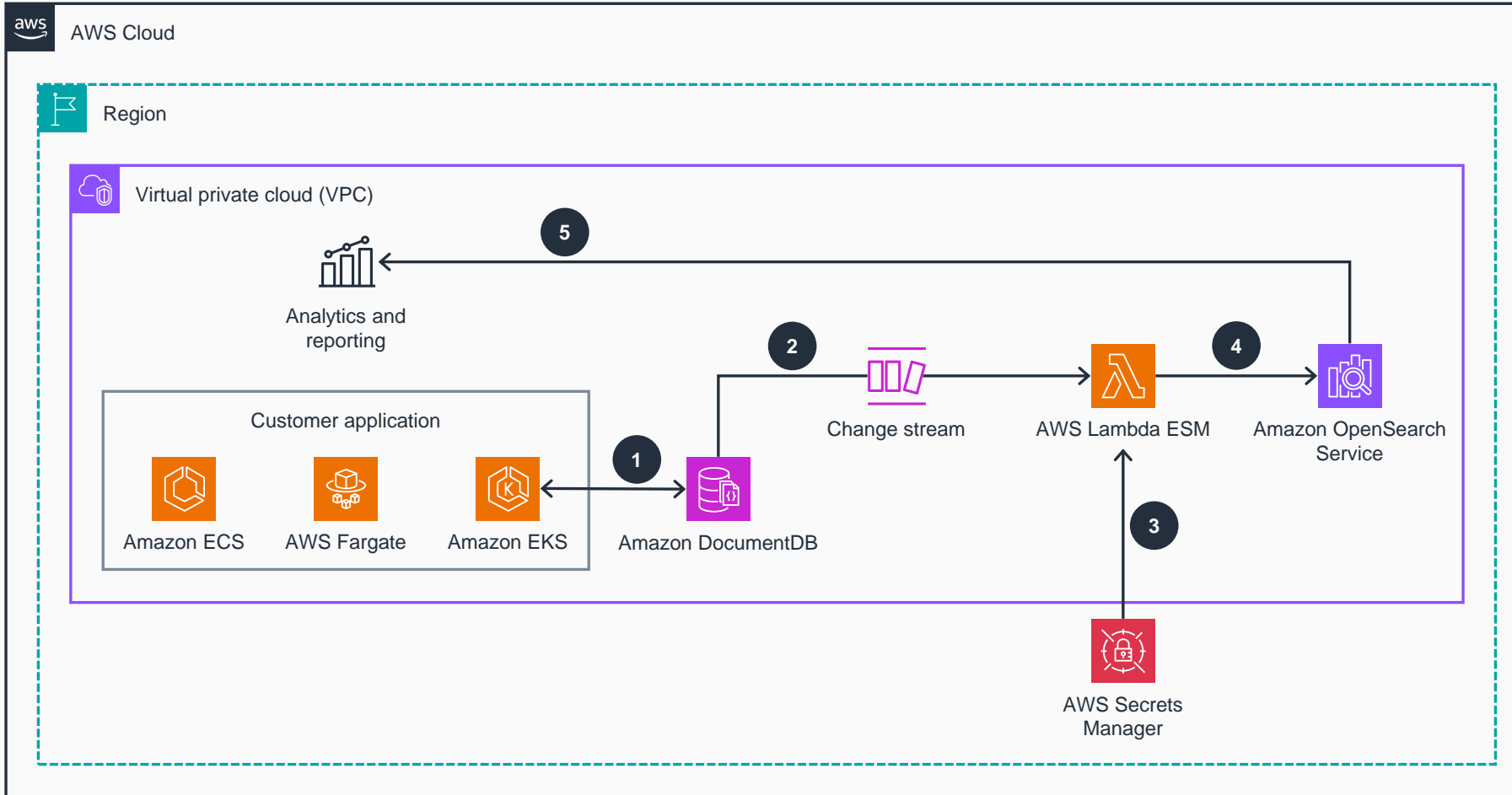


# Guidance for Integrated, Scalable Search for Amazon DocumentDB

This architecture diagram shows how to run advanced searches and analytics, such as fuzzy searches and semantic searches, on Amazon DocumentDB data using Amazon OpenSearch Service.



- 1 The application reads data from and writes to **Amazon DocumentDB (with MongoDB compatibility)**.
- 2 **AWS Lambda** event source mapping (ESM) is invoked in near real time with the inserts and updates recorded by **Amazon DocumentDB** change streams. **Amazon DocumentDB** change streams provide a time-ordered sequence of change events that occur within your cluster's collections.
- 3 **Lambda** fetches credentials from **AWS Secrets Manager** to read from **Amazon DocumentDB** change streams.
- 4 **Lambda** streams the updates from **Amazon DocumentDB** change streams to **Amazon OpenSearch Service** in near real-time.
- 5 Analytics or reporting tools fetch the data from **OpenSearch Service** for reporting.