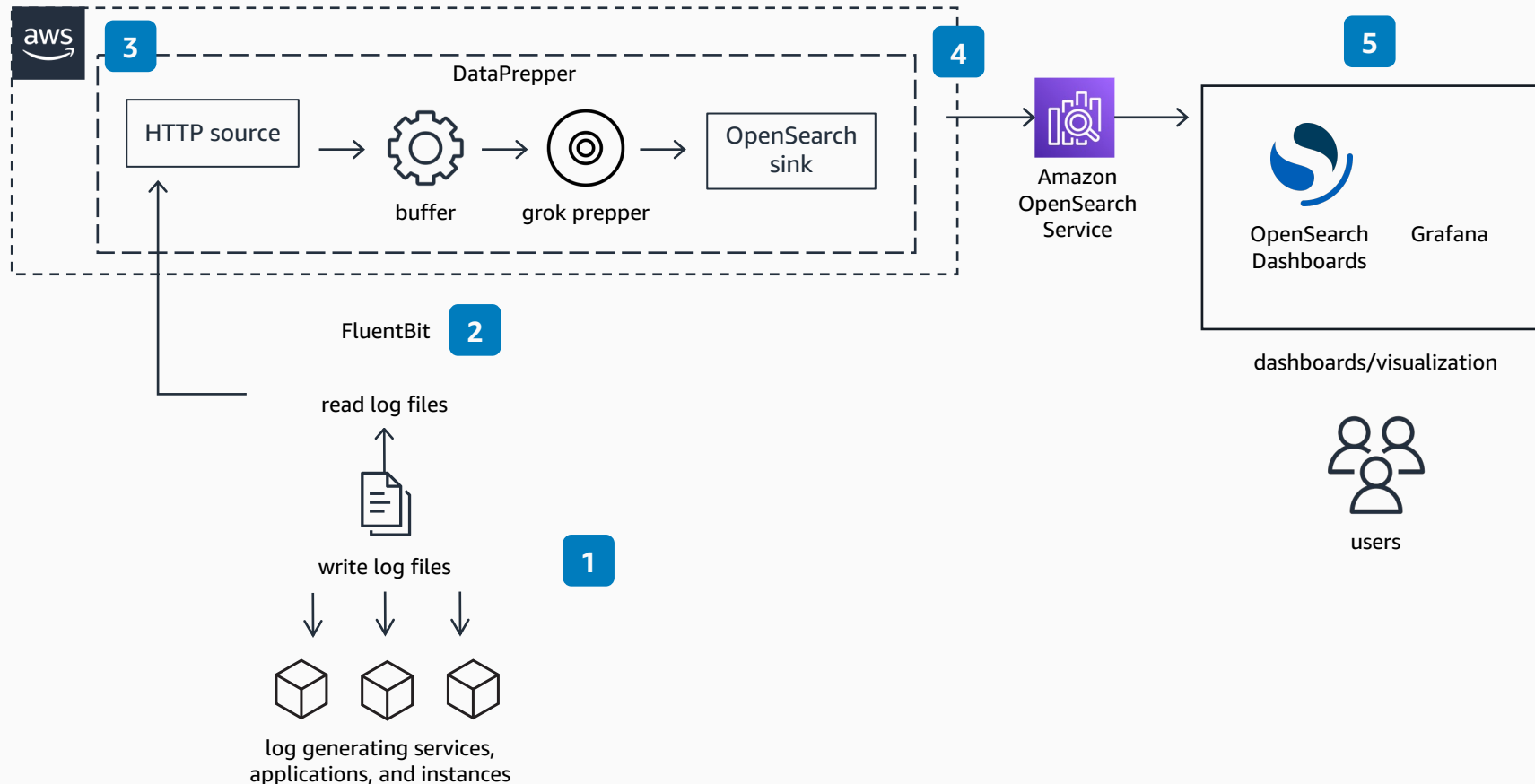


Log Analytics with Open Source Patterns

This diagram shows an architecture using FluentBit and Data Prepper to collect, aggregate, and transform logs into OpenSearch.



- 1 The application, container system, and associated services generate logs. These can include Docker containers, Kubernetes pods, **Amazon Elastic Compute Cloud** (Amazon EC2) instances, **Elastic Load Balancer** (ELB) logs, **AWS Lambda**, relational database systems, and so on.
- 2 FluentBit, a popular Apache-licensed log forwarder, reads the log files and forwards them to Data Prepper over HTTP.
- 3 Data Prepper is a server-side data collector capable of filtering, enriching, transforming, normalizing, and aggregating data for downstream analytics and visualization. Data Prepper receives the logs, buffers them, then optionally structures the data through a grok prepper.
- 4 Data Prepper creates the service map and assembles the traces into trace groups. It then sends the log lines, formatted for easy searching and analysis, to **Amazon OpenSearch Service**.
- 5 The user logs into OpenSearch Dashboards (or another open source visualization tool like Grafana) to do interactive log analytics.