



Architecture Diagrams

Log Analytics with Open Source Patterns



Log Analytics with Open Source Patterns: Architecture Diagrams

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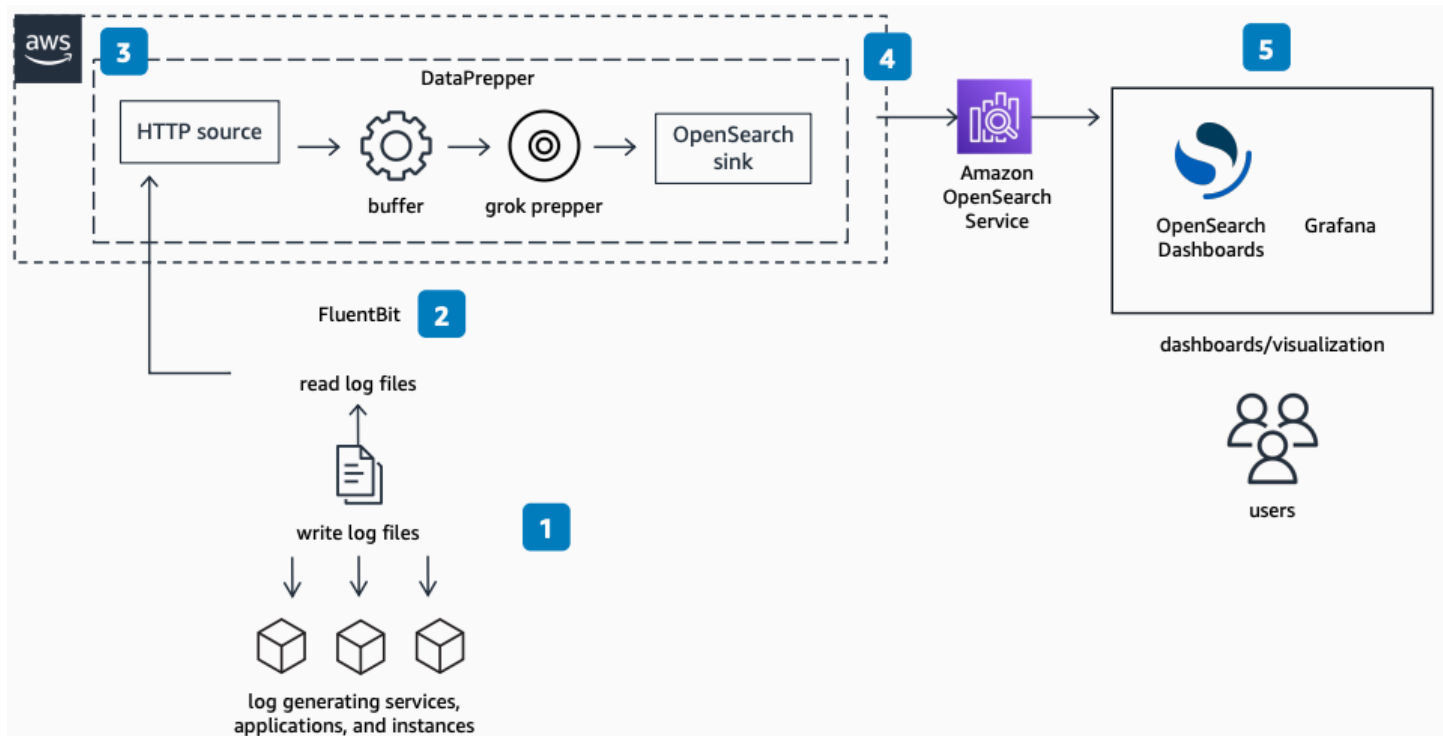
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Log Analytics with Open Source Patterns

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This architecture uses FluentBit and Data Prepper to collect, aggregate, and transform logs into OpenSearch.

Log Analytics with Open Source Patterns



1. The application, container system, and associated services generate logs. These include Docker containers, Kubernetes pods, [Amazon Elastic Compute Cloud](#) instances, Elastic Load Balancer logs, [AWS Lambda](#), and relational database systems.
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. It filters, enriches, transforms, normalizes, and aggregates data for downstream analytics. 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 <https://docs.aws.amazon.com/opensearch-service/latest/developerguide/what-is.html>.

5. The user logs into OpenSearch Dashboards (or another open source visualization tool like Grafana) to perform interactive log analytics.

Further reading

For additional information, refer to

- [AWS Architecture Icons](#)
- [AWS Architecture Center](#)
- [AWS Well-Architected](#)
- [product page](#)

Diagram history

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