

AWS Reference Architecture Diagram

AWS DevOps Monitoring Dashboard



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AWS DevOps Monitoring Dashboard: AWS Reference Architecture Diagram

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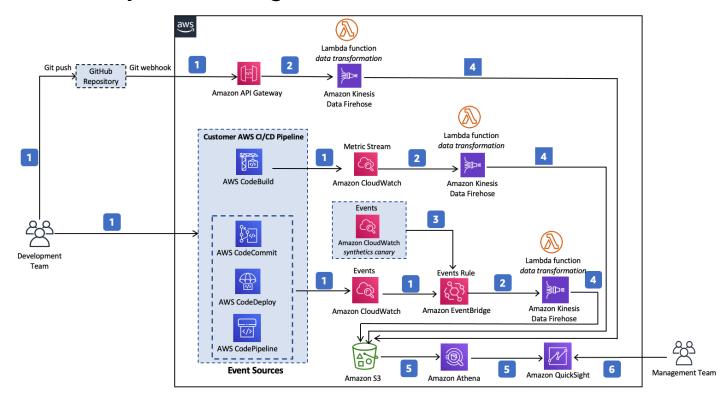
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This architecture automates the process of ingesting, analyzing, and visualizing continuous integration/continuous delivery (CI/CD) metrics. This architecture can also be <u>deployed on AWS</u> using an AWS CloudFormation template that launches, configures, and runs the AWS services required to deploy this solution using AWS best practices for security and availability.

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- 1. An Amazon EventBridge events rule detects the events based on predefined event patterns and then sends the event data to an Amazon Data Firehose delivery stream. One event rule is created per event source. For activities in AWS CodeBuild, a CloudWatch metric stream is set up to capture CloudWatch metrics and deliver them to a Firehose delivery stream. For GitHub push events, an Amazon API endpoint is created to post these events and deliver them to a Firehose delivery stream.
- An Amazon EventBridge events rule is also created to capture events from an Amazon CloudWatch alarm that monitors the status of an CloudWatch synthetics canary, if you have

set up the canary and alarm in your account. This alarm is needed to gather data for calculating Mean Time to Recovery (MTTR) metrics.

- 3. **Firehose** uses an **Lambda** function for data transformation. The **Lambda** function extracts relevant data to each metric and sends it to an **Amazon S3** bucket for downstream processing.
- 4. The data in **Amazon S3** is linked to an **Amazon Athena** database, which runs queries against this data and returns query results to **QuickSight**.
- 5. **QuickSight** obtains the query results and builds dashboard visualizations for your management team.

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Further reading

For additional information, refer to

- AWS Architecture Icons
- AWS Architecture Center
- AWS Well-Architected

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