

# CloudTrail vs CloudWatch vs X-Ray

- CloudTrail:
  - Audit API calls made by users / services / AWS console
  - Useful to detect unauthorized calls or root cause of changes
- CloudWatch:
  - CloudWatch Metrics over time for monitoring
  - CloudWatch Logs for storing application log
  - CloudWatch Alarms to send notifications in case of unexpected metrics
- X-Ray:
  - Automated Trace Analysis & Central Service Map Visualization
  - Latency, Errors and Fault analysis
  - Request tracking across distributed systems