

Alert Lens for AWS

Focus on what's important

Bolt Alert Lens for AWS™ ensures the health of AWS services by tapping monitoring data from CloudWatch, CloudTrail, and other sources such as Prometheus, to identify anomalies and their cause, enabling fast, accurate resolution with minimum false alerts.

Alert Lens achieves its accurate alerting using a combination of time series AI/ML models and pre-defined alert templates that cover most common AWS cloud services. Self-learning models automatically pull data from a wide variety of sources, including monitoring services themselves, to detect and report anomalies in real time.

- Fits seamlessly into AWS' monitoring solutions
- Processes thousands of metrics in real time
- Automatically pulls data from existing tools
- Communicates through many notification systems

FAST

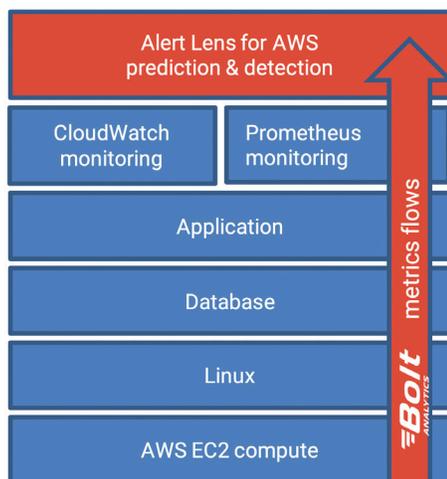
- Ultra high speed ingestion
 - >100K time series in production
- Time-based partitioning
- Multiple-source ingestion

INSIGHTFUL

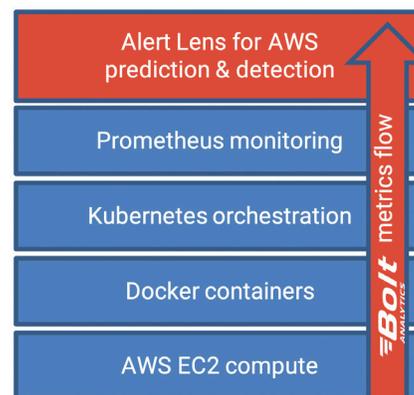
- Anomaly detection
- Accurate predictions
- Fast inference

EXTENSIBLE

- Rich customizable transformations
- Data enrichment
- Periodic query payload



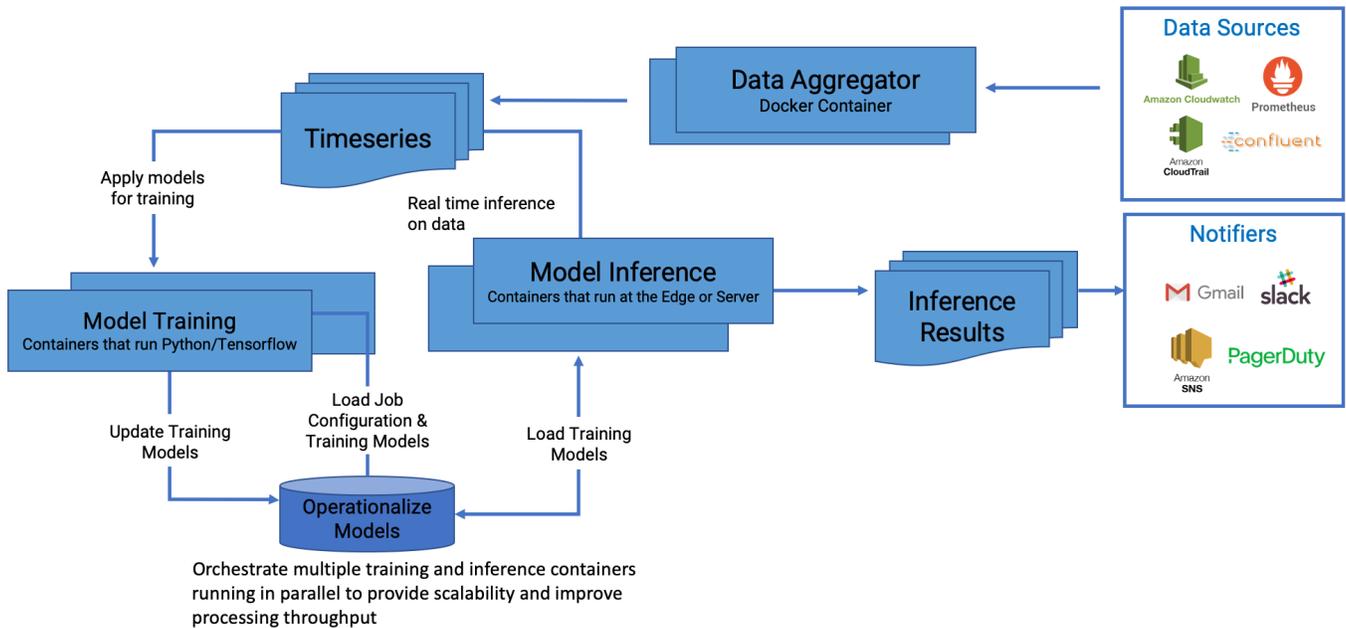
Typical AWS application environment



Typical AWS container environment

Architecture

Built as a set of containers, the Alert Lens uses TensorFlow as its fundamental building block for the models. To allow for fast ingestion and inference of monitoring data, Bolt uses Kafka platform along with a purpose-built monitoring analytics pipeline that provides for fast and scalable alert processing that can easily be extended to support new data connectors and additional data processing stages.



Purpose-built for the Analysis of Time Series Data

Alert Lens is built on a highly scalable data science platform purpose-built for the analysis of time series data. The real-time univariate, multivariate, and correlation AI/ML models support a wide variety of time series data and are highly adaptive both in initial deployment and over time.

Supervised and unsupervised training optimizes to deliver accurate inferences, and automatic retraining adapts to changes in the environment and data sources for improved results and reduced false positives.

Alert Lens can scale to tens of thousands of time series KPIs running concurrently, without the need for expensive GPU-based infrastructures, yet still deliver results in real time. Alerts can be delivered via notification tools such as PagerDuty or Slack, or can be used programmatically using Kafka topics or AWS SNS.

Alert Lens for AWS is available in the AWS Marketplace.