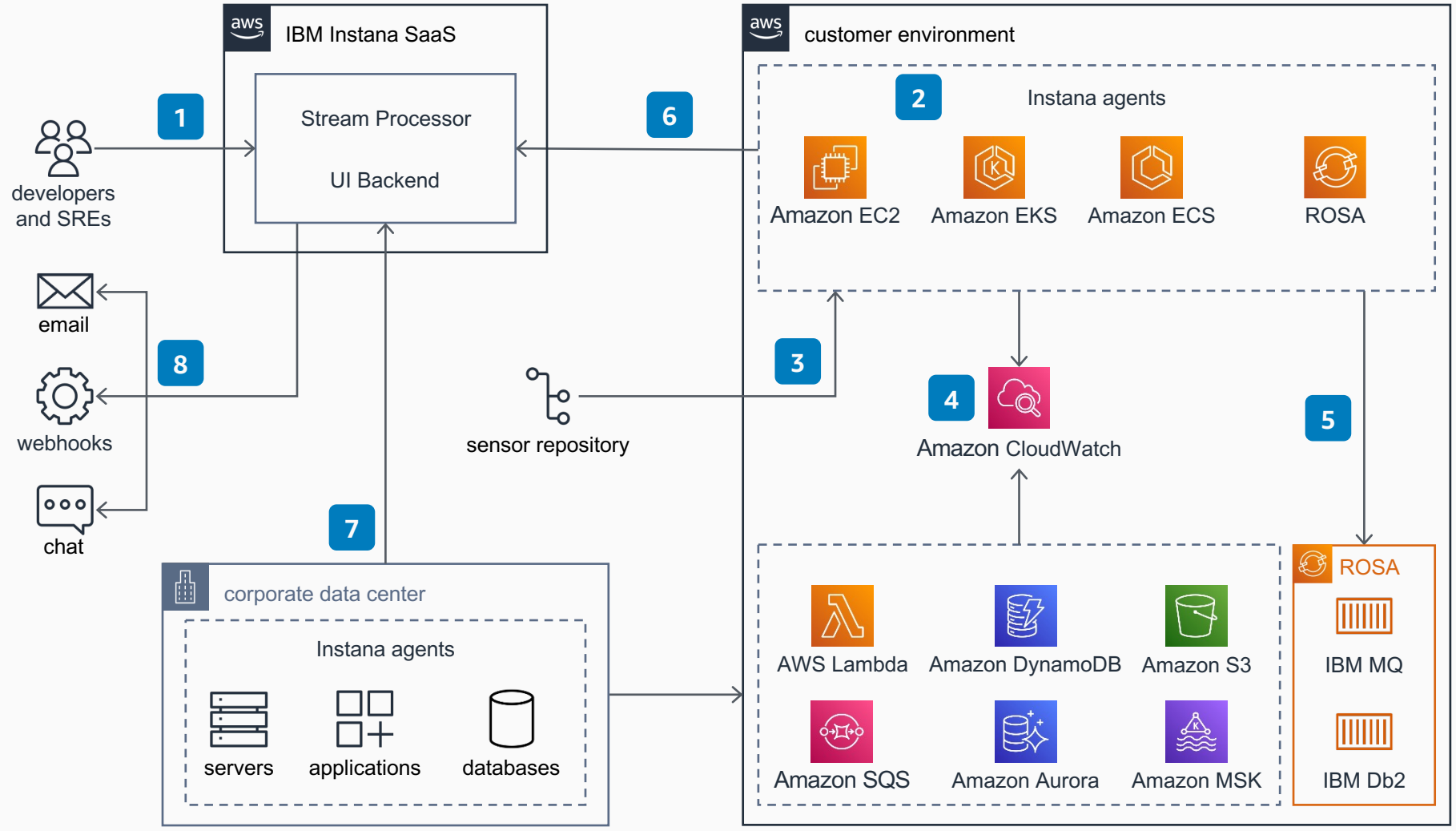
IBM Instana Observability on AWS

Fully-automated application performance management (APM)

Customers utilize IBM Instana on AWS to take advantage of agility and elasticity to get fast and precise observability of their entire technology stack to drive performance and reliability.



1. Site reliability engineers (SREs) and developers access Instana dashboards to troubleshoot and identify optimization opportunities for their applications and initiate remediation actions.
2. Instana collects data from monitored systems by using a single host agent on each host. These agents can be deployed on **Amazon Elastic Compute Cloud** (Amazon EC2), **Amazon Elastic Kubernetes Service** (Amazon EKS), **Amazon Elastic Container Service** (Amazon ECS), and **Red Hat OpenShift Service on AWS** (ROSA).
3. Host agents can be configured to dynamically deploy sensors from sensor repositories for over 300 different technologies.
4. Instana sensors collect traces and metrics data from **Amazon CloudWatch** of AWS services like **Amazon Simple Queue Service** (Amazon SQS), **Amazon Managed Streaming for Apache Kafka** (Amazon MSK), **Amazon Simple Storage Service** (Amazon S3), **Amazon Aurora**, and **Amazon DynamoDB**, **AWS Lambda**.
5. Instana sensors also collect traces and metrics from workloads deployed on AWS, like **ROSA**, IBM Db2, IBM MQ and others.
6. Host agents collect and aggregate data from various Instana sensors before sending the data to the Instana backend.
7. Instana agents can also be deployed on hosts in your corporate data center to collect and send data to the Instana backend service.
8. The Instana backend service can be configured to send alerts and events to users through methods such as APIs, webhooks, email, and instant messaging.

Reviewed for technical accuracy February 28, 2023

AWS Reference Architecture