AWS Monitoring & Observability
Get Started with Observability

Kyle Mahone (he/him)

Solutions Architect
Amazon Web Services

AWS Observability is End-to-End Observability

Out-of-the-box Observability

Streamlined Data Collection

Flexible Visualizations

Powerful Analytics

That helps you achieve your business goals

Understand Application Health

Improve Performance & Availability

Reduce Operational Cost

Improve End-User Experience

AWS Observability: Powerful choice for your observability needs

Sources & Workloads

- Integrates with more than 120 AWS services
- Consumes multiple data sources from third parties
- On-premises, hybrid, containerized and multi-cloud systems
- Open source systems

Data Collection

- Open source or AWS native, via AWS Distro for OpenTelemetry and Amazon CloudWatch Agent
- Traces, metrics, logs

Data Processing

- Contextualize your data points of traces, metrics, logs
- Enrich your data to be used for monitoring your applications and systems
- Data lakes
- High cardinality
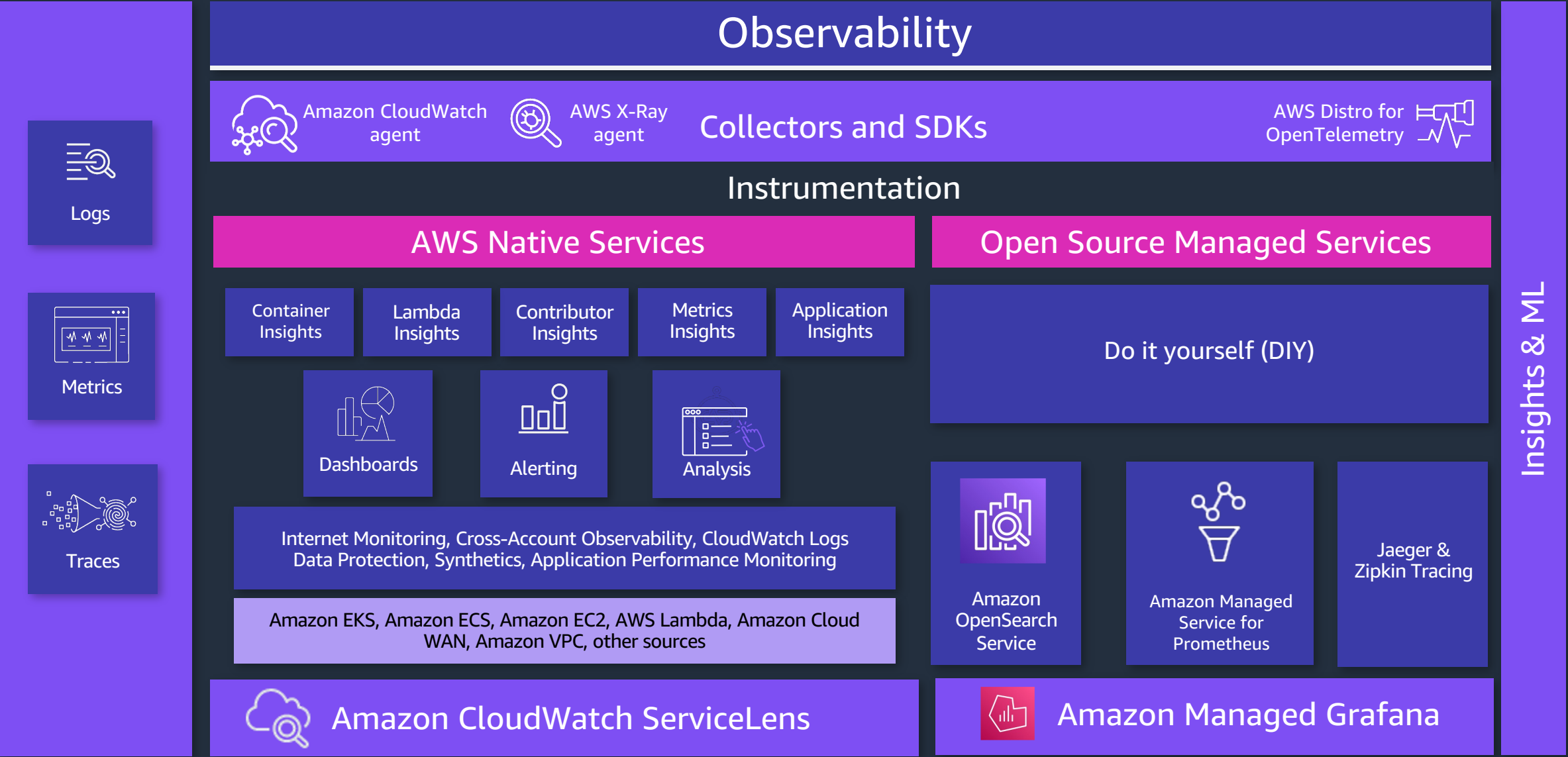
Data Insight & Analysis

- Monitoring
- Dashboards & Visualization
- Alarms
- Correlated Telemetry
- Insights
- Anomaly Detection
- Root cause analysis
- AI Ops

End-to-end Observability

- Infrastructure and Serverless Monitoring
- Network Monitoring
- Application Performance Monitoring and Management
- Cost monitoring & optimization
- Increased reliability and availability
- Achieve SLO/SLA
- Improve MTTD and MTTR
- CI/CD

AWS Observability

Observability

Collectors and SDKs

Amazon CloudWatch agent   AWS X-Ray agent   AWS Distro for OpenTelemetry

Instrumentation

AWS Native Services	Open Source Managed Services

Logs

Metrics

Traces

Insights & ML

Container Insights	Lambda Insights	Contributor Insights	Metrics Insights	Application Insights

Dashboards   Alerting   Analysis

Internet Monitoring, Cross-Account Observability, CloudWatch Logs Data Protection, Synthetics, Application Performance Monitoring

Amazon EKS, Amazon ECS, Amazon EC2, AWS Lambda, Amazon Cloud WAN, Amazon VPC, other sources

Do it yourself (DIY)

Amazon OpenSearch Service   Amazon Managed Service for Prometheus   Jaeger & Zipkin Tracing

Amazon CloudWatch ServiceLens

Amazon Managed Grafana

Resources

One Observability
Workshop

Observability
Best Practices

Skill Builder –
AWS Observability

aws

Thank you!