AWS re:Invent

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Increasing availability with AWS observability solutions

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Agenda

- Observability
- Demos
  - Deployment monitoring
  - Flexibly analyze & visualize your metrics at scale
  - Slice & dice container metrics
- Open discussion

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Observability



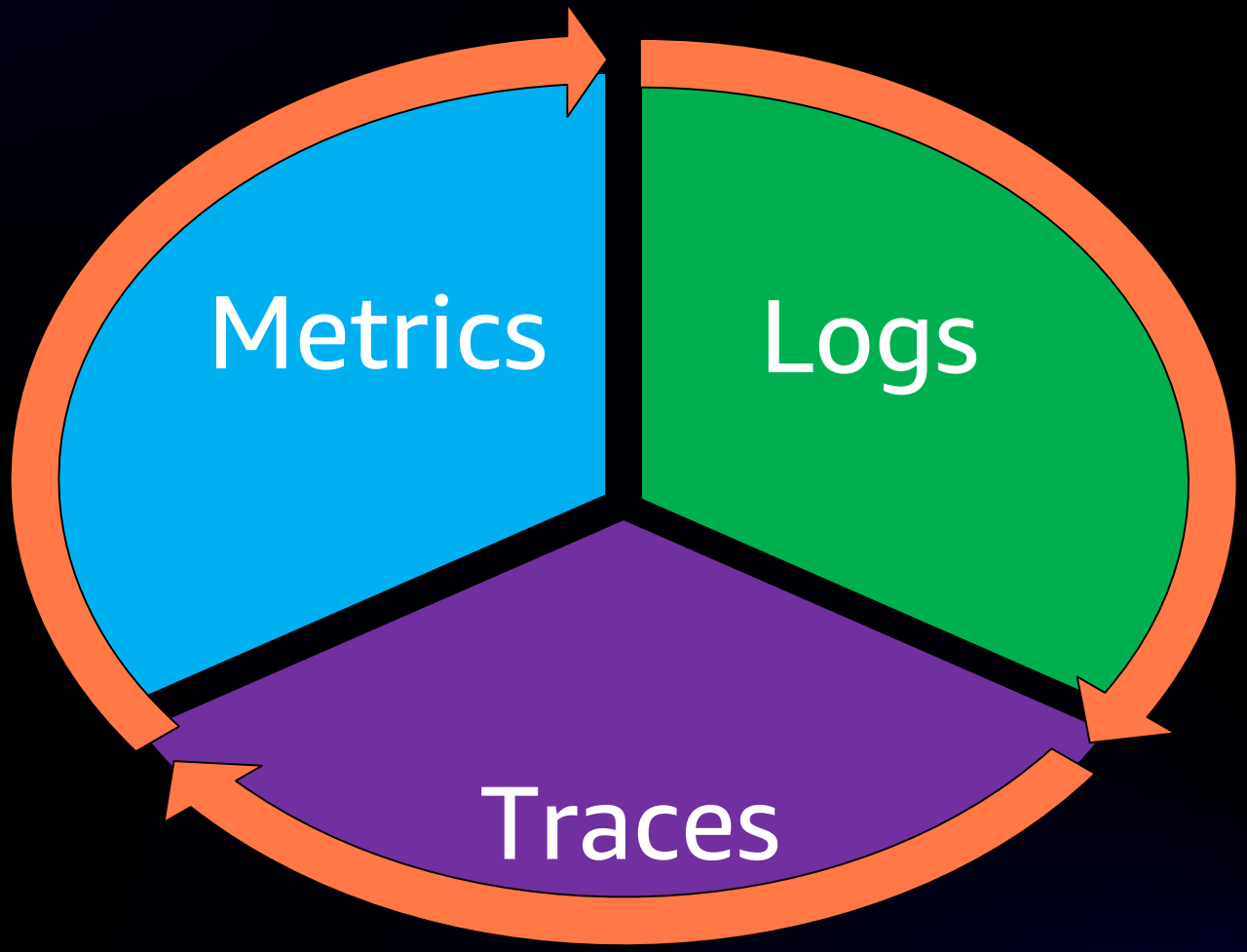
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What is observability?



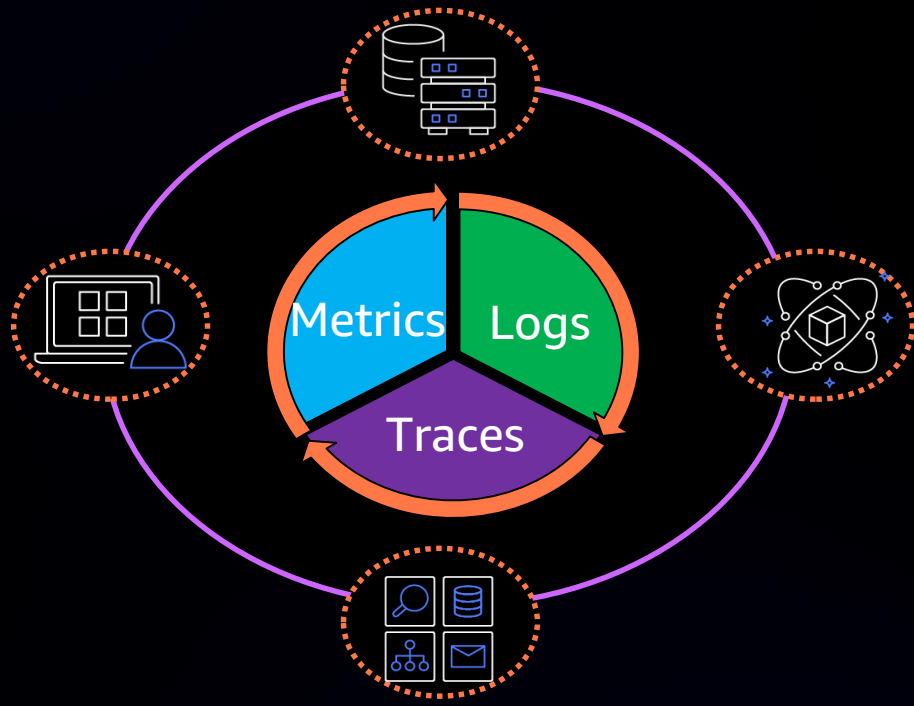
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Observability



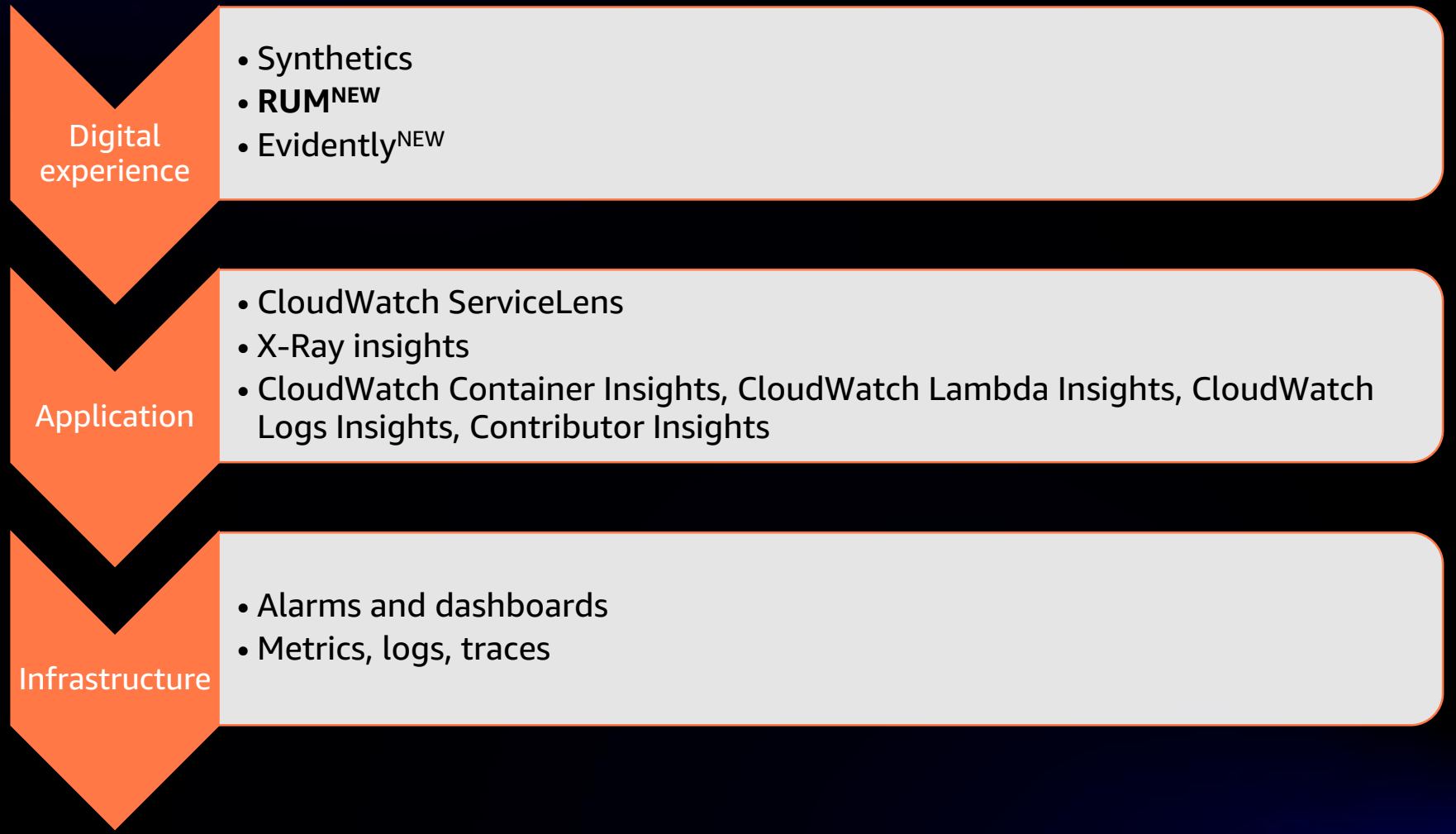
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Observability – Foundation



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Observability with Amazon CloudWatch



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What is CloudWatch?

Complete visibility of cloud resources and applications



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1. Reduce downtime in application deployments

- Monitor your deployments by tracing latency by version and setting an alarm on this metric
- Create an alarm any time you make a new deployment to monitor latency
- Once the alarm fires, switch all traffic to the previous version reducing the risks and eliminating the downtime

aws

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2. Flexibly analyze & visualize your metrics at scale

- Group and aggregate your default AWS metrics by your labels and, for example, instantly analyze thousands of instances by CPU utilization to troubleshoot a non-responding application
- Slice and dice your custom metrics and search for Top N failing instances to quickly identify problematic instances and overcome latency in your applications
- Group your error count metrics by function name to identify failing Lambda functions

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3. Use CloudWatch Logs Insights to slice & dice your container metrics

- Identify application errors and CPU usage by container name
- Analyze how many cluster nodes are failing
- Increase availability by monitoring number of pods requested vs. pods running

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Recap

- Observability – why it is important
- Demos
  - Metrics Insights and Evidently

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Related session

- COP206 Observability best practices on AWS

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Thank you!

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Resource:

https://observability.workshop.aws/en/
Observability workshop

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