AWS re:Invent

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CON318

Orchestrate your microservices with AWS Step Functions and Amazon ECS

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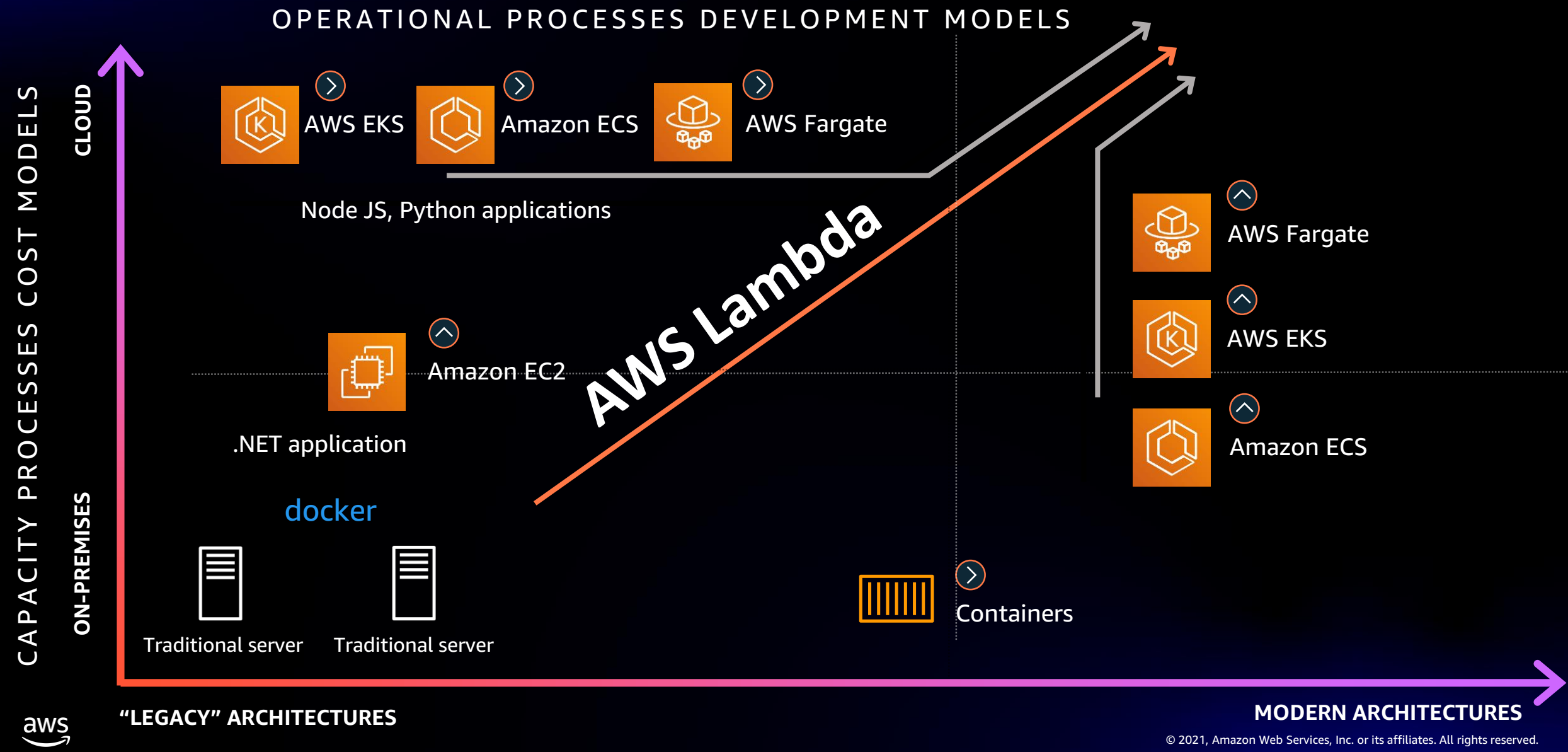
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Agenda

- Journey to microservices
- ACME Insurance application
- Introduction to AWS Step Functions
- Amazon ECS and AWS Step Functions together
- Walkthrough

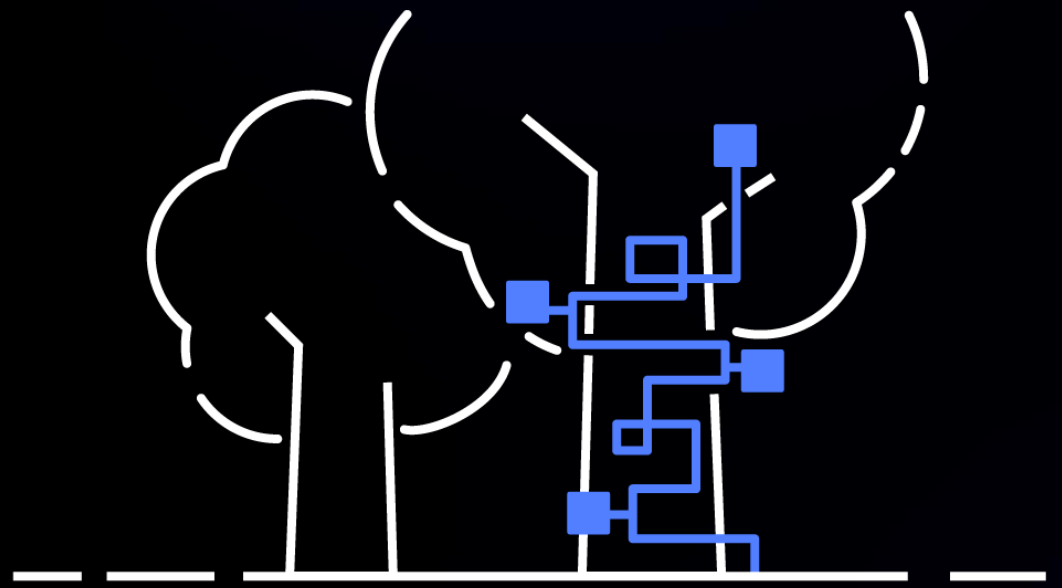
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Quick recap: Journey to microservices



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Mono to micro



The strangler pattern

Moving monolithic applications to microservices by gradually creating events and APIs for various components of the legacy application

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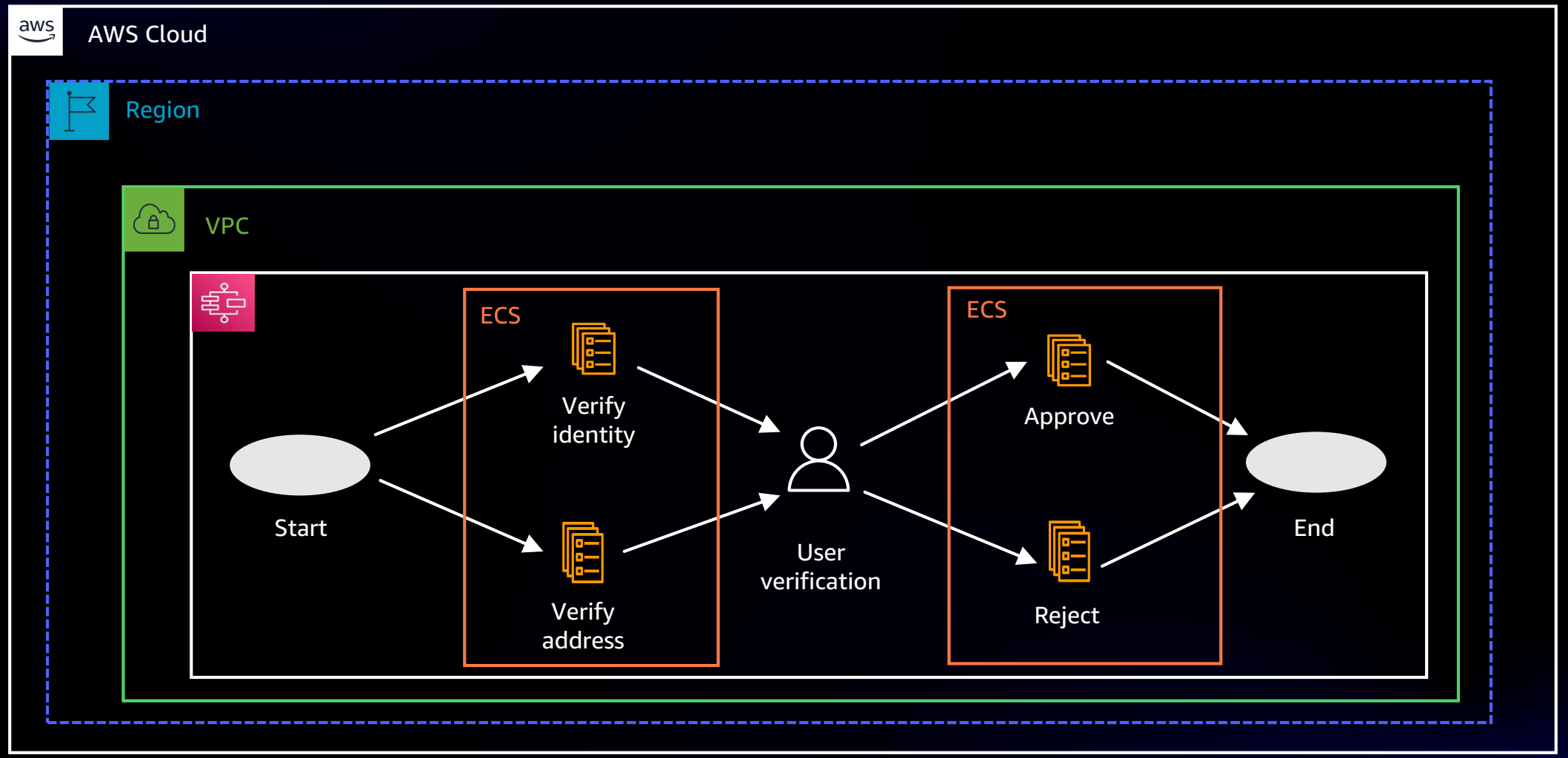
ACME Insurance application

Apply for insurance

- Identity
- Address
- Approve
- Reject

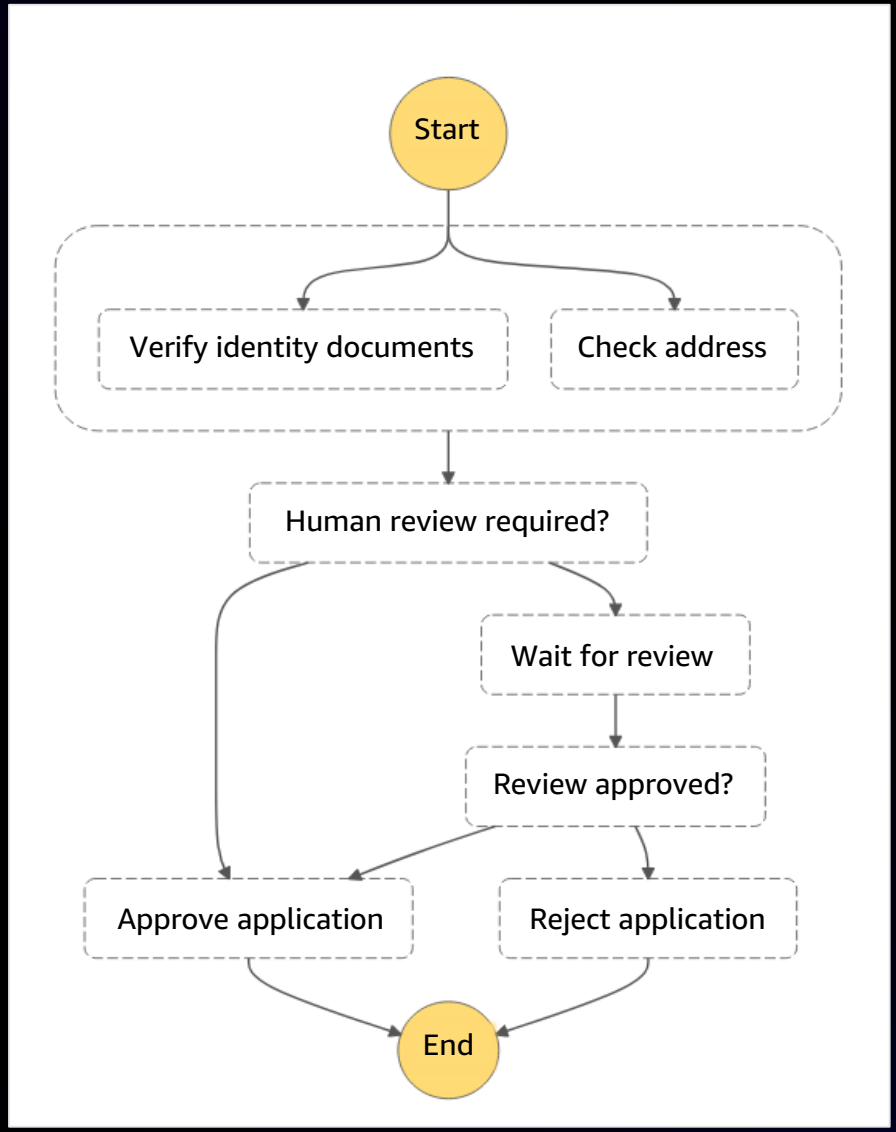
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ACME Insurance application



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Workflow



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AWS Step Functions

- State machine
- Orchestrate multiple tasks
- Integrate natively with AWS services

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ECS and AWS Step Functions

Integration patterns

- AWS SDK integration
- AWS Step Functions optimized integrations
  - Run task and wait for it to complete
  - Run AWS Batch job

Passing data

- Static JSON objects
- State parameter using paths
- Context object nodes

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Patterns to call Amazon ECS

- Synchronous request
- Wait for the response to come back
- Wait for call back

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Thank you!

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