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Automating Incident Response In The Cloud with Splunk Adaptive Response & AWS Lambda

September 2017 | Washington, DC



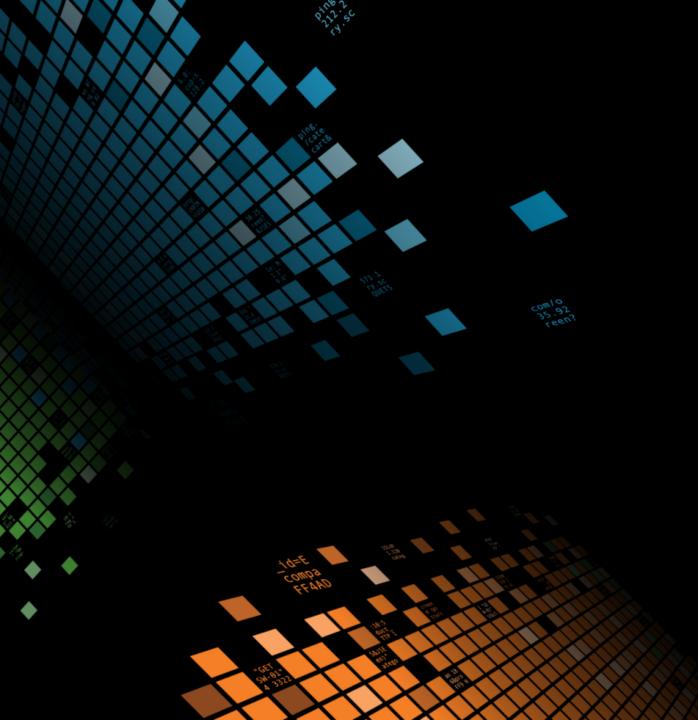
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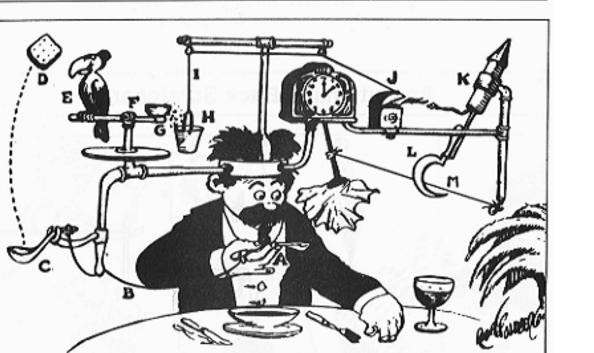
Introduction



Our Elevator Pitch

. . .

- If this then do that, oh and also that, then wait of a whatsit from a whoist
 Self-Operating Napkin
 - Depending on whoist do:
 - -More that
 - -Other this







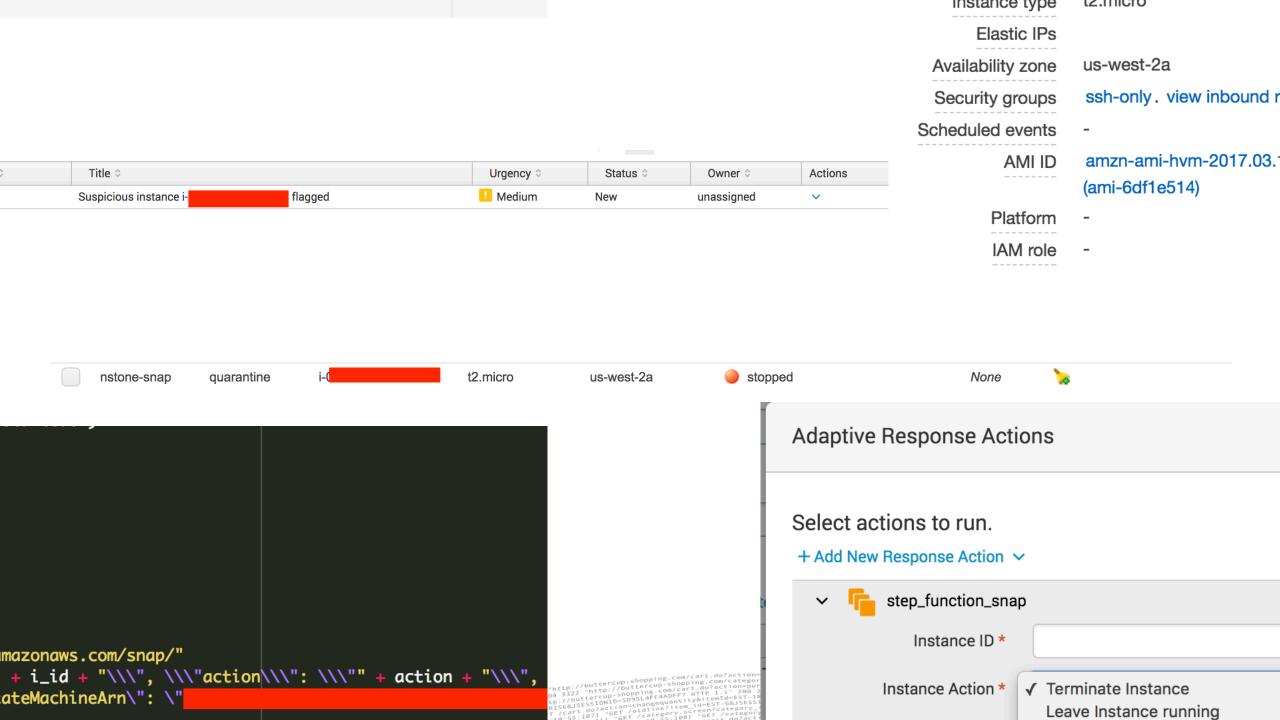


Splunk AR

What is is Where to get it How to use it

> (3) "GET /category.screen?category_id=GIFTS&JSESSIONID=SDISLAFF10ADEF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST_G&product_id=F1 (3):57:123] "GET /Product.screen?product_id=GIFTS&JSESSIONID=SDISLAFF10ADEF10 HTTP 1.1" 404 322 "http://buttercup-shopping.com/category_id=EdVertagory_id=GIFTS&JSESSIONID=SDISLAFF10ADEF10 HTTP 1.1" 404 322 "http://buttercup-shopping.com/cat.do?action=view&itemId=EST_G&product_id=GUFTS&JSESSIONID=SDISLAFF10ADEF10 HTTP 1.1" 404 322 "http://buttercup-shopping.com/category_id=EdVertagory_id=GIFTS&JSESSIONID=SDISLAFF10ADEF10 HTTP 1.1" 404 322 "http://buttercup-shopping.com/category_id=EdVertagory_id=GIFTS&JSESSIONID=SDISLAFF10ADEF10 HTTP 1.1" 404 322 "http://buttercup-shopping.com/category_id=EdVertagory_id=EdVertagory_id=EdVertagory_id=EdVertagory_id=EdVertagJSESSIONID=SDISLAFF10ADEF1 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/category_id=EdVertagJSESSIONID=SDISLAFF10ADEF1 HTTP 1.1" 200 1316=SURFESED 200 1316=S





Benefits of AWS Lambda

No Servers to Manage

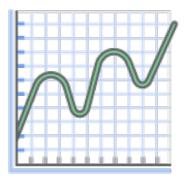


AWS Lambda handles:

- Operations and management
- Provisioning and utilization
- Scaling
- Availability and fault
 tolerance

screen?product id=FL-DSH-018

Continuous Scaling



Subsecond Metering

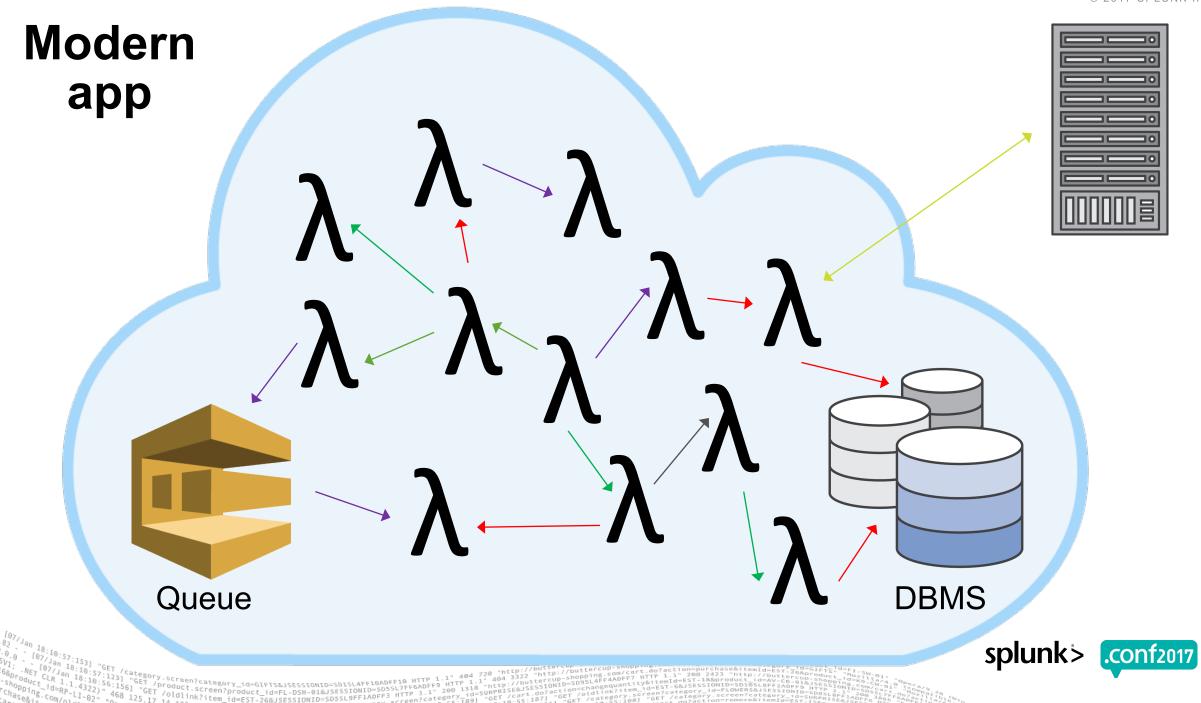


Automatically scales your application, running code in response to each trigger

Your code runs in parallel and processes each trigger individually, scaling precisely with the size of the workload Pricing

- CPU and Network scaled based on RAM (128 MB to 1500 MB)
- \$0.20 per
 - 1M requests
- Priceput http://pomsf2017

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.do?actions 1871 "GET / /oldlink?item,

Modern

app

10:57:

4322)"

Turning functions into apps

"I want to sequence functions"

"I want to run functions in parallel"

"I want to select functions based on data"

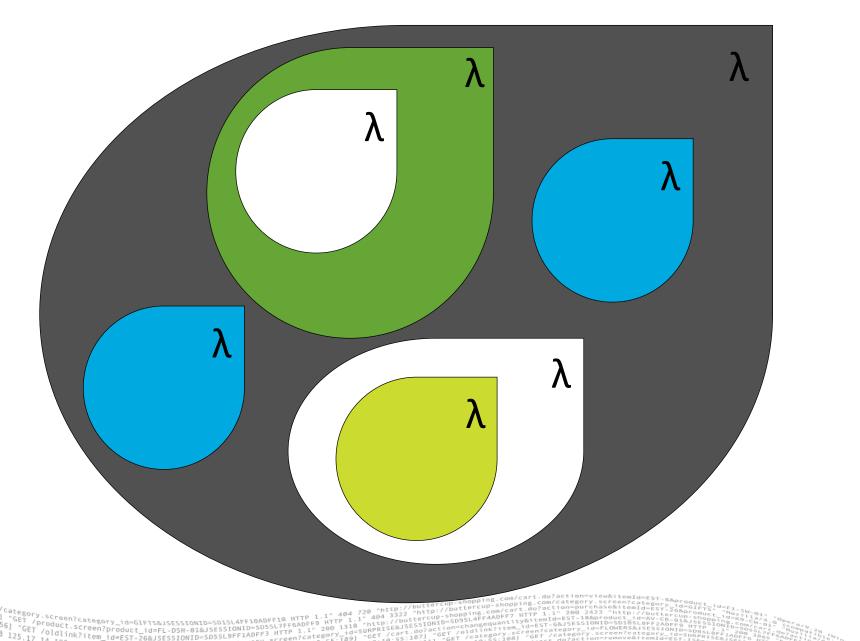
"I want to retry functions"

"I want try/catch/finally"

"I have code that runs for hours"

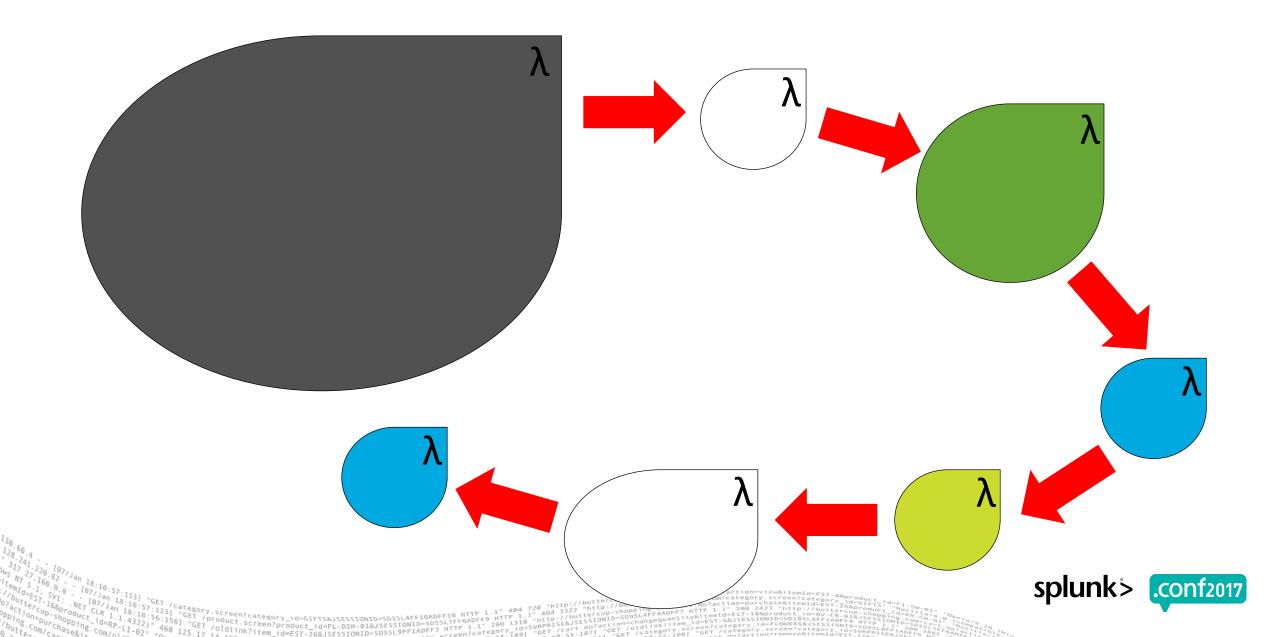


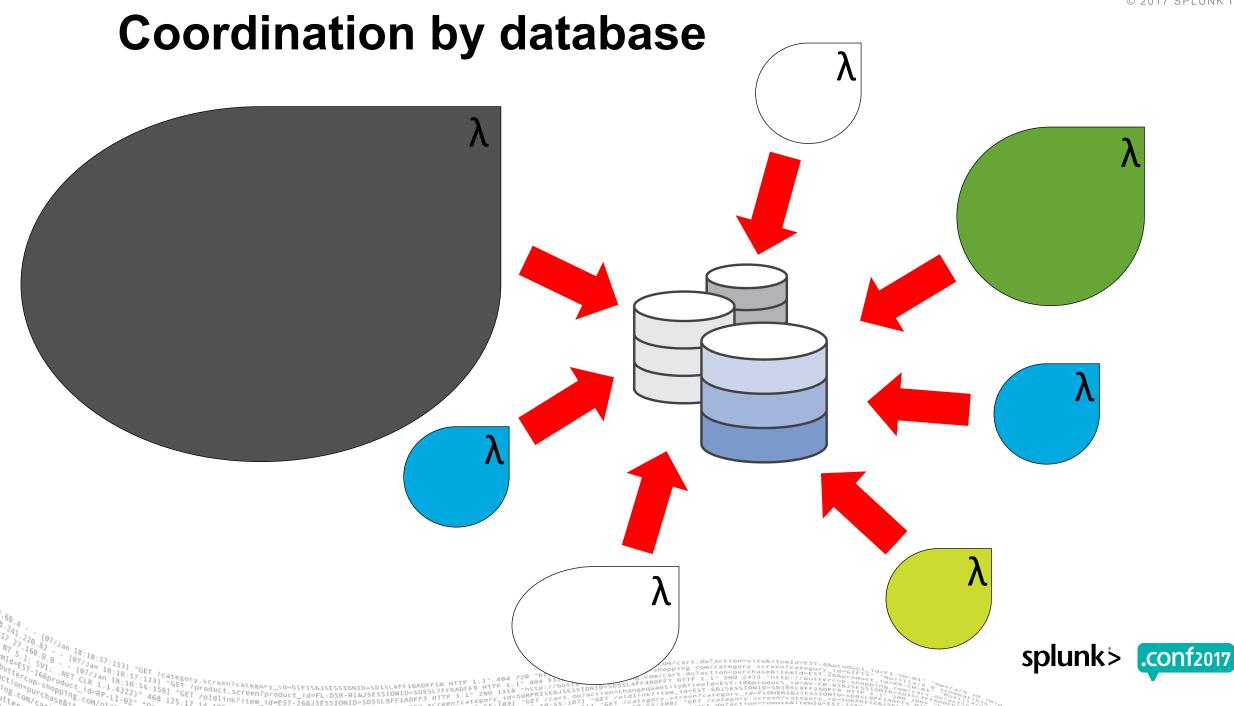
Coordination by method call

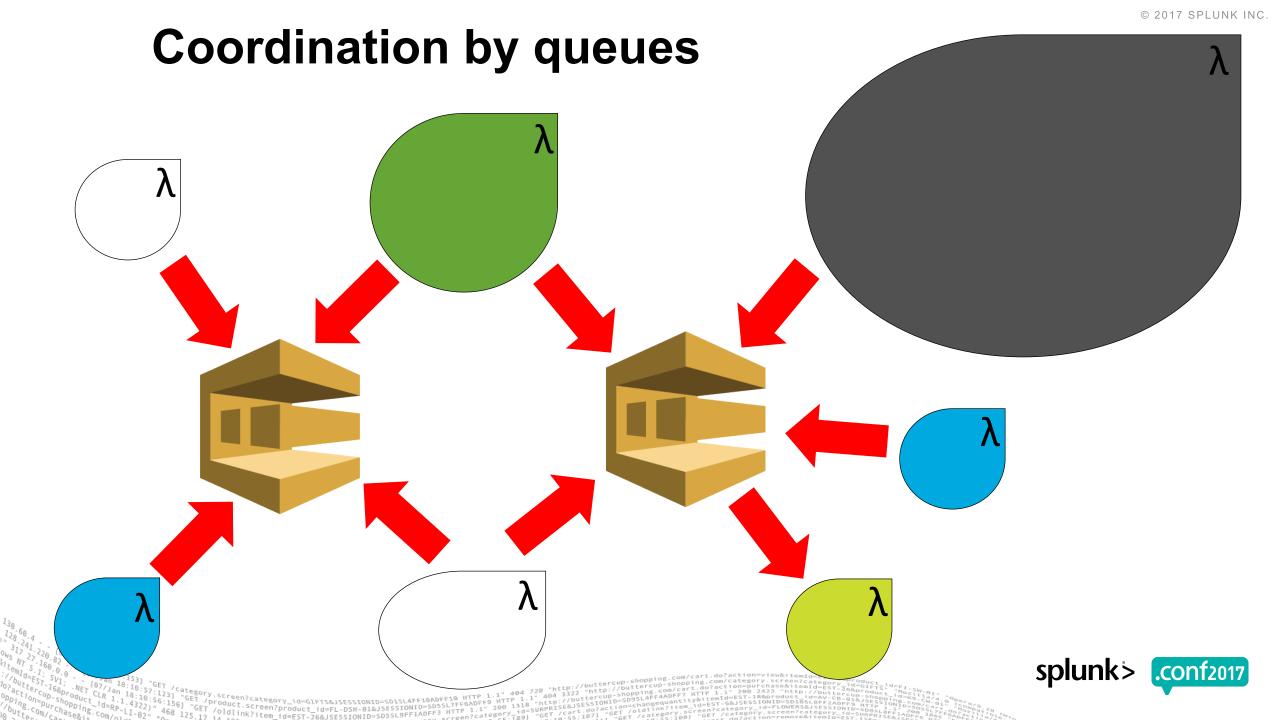


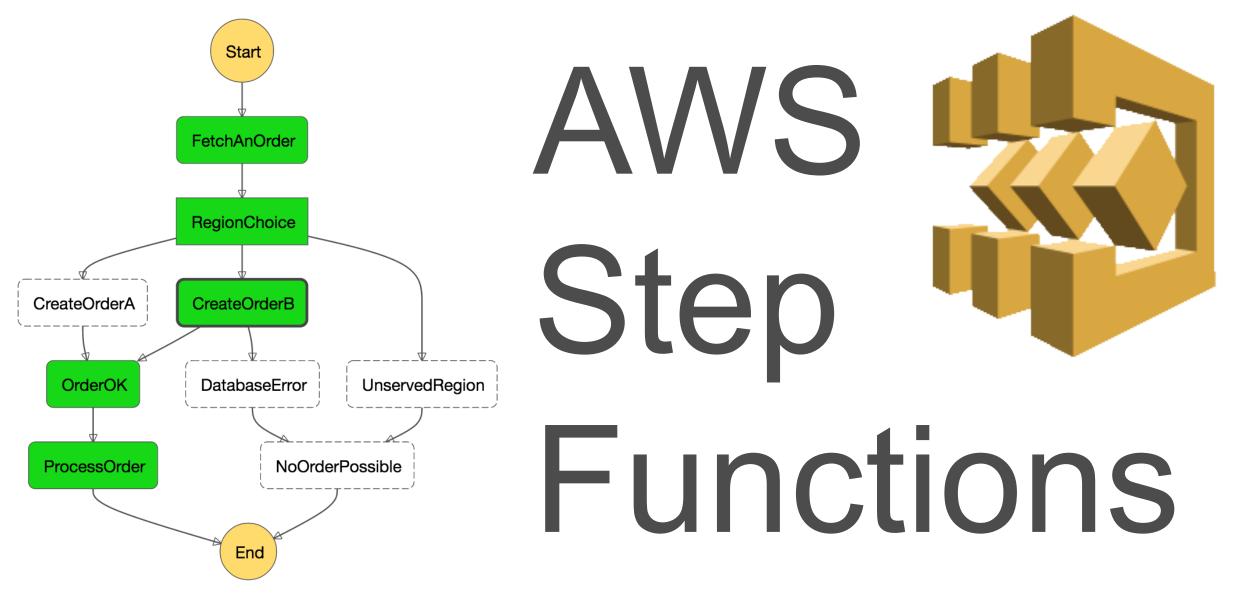


Coordination by function chaining







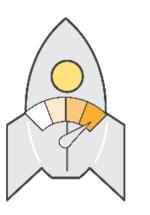




Benefits of AWS Step Functions

Agility

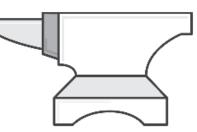
Productivity



Easy to connect and coordinate distributed components and microservices to quickly create apps Diagnose and debug problems faster

Adapt to change

Resilience

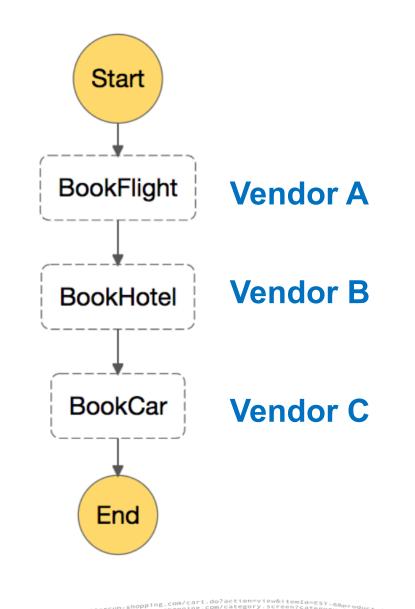


Manages the operations and infrastructure of service coordination to ensure availability at scale, and under failure



Run Each Step in Sequence

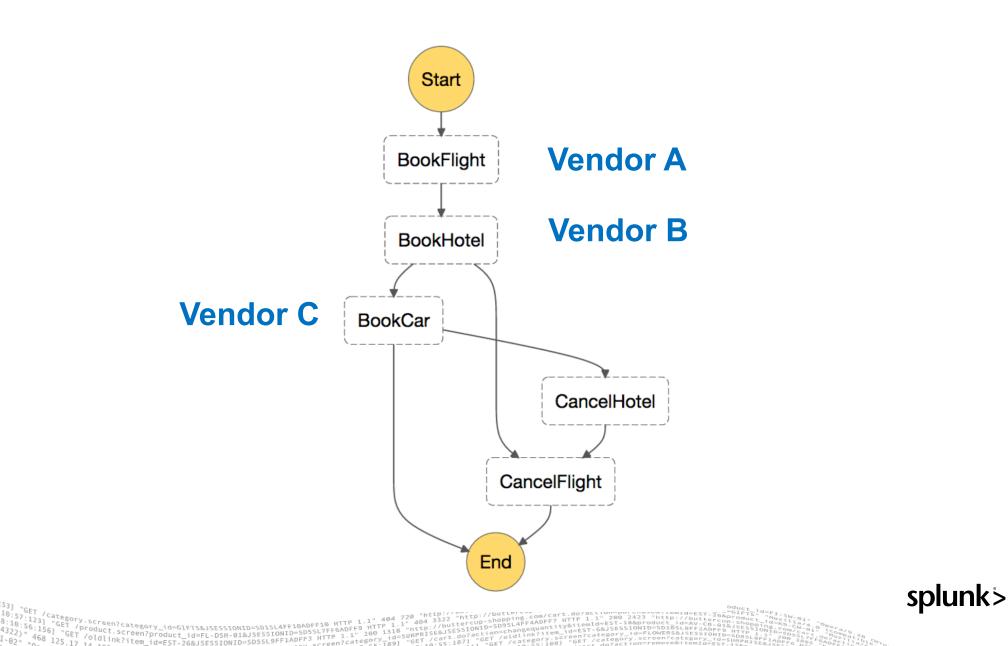
Screen?product id=FL-DSH-01&JS





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...and Unwind if My Plans Fail at Any Point



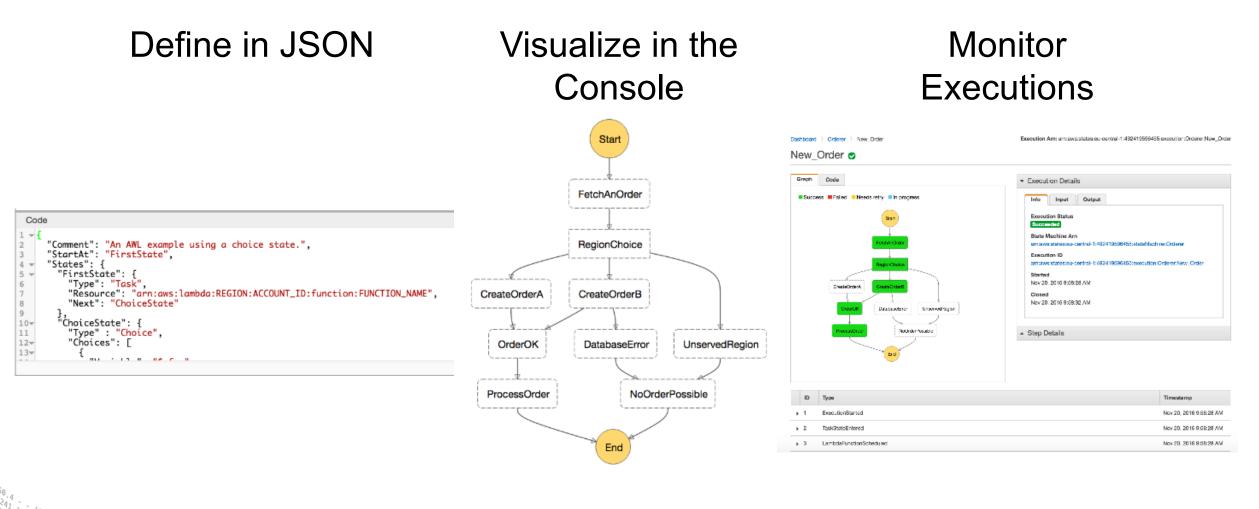
Application Lifecycle in AWS Step Functions

404 720

Y.Screen?category_id=GIFTS&ISESSIONID=SD15L4FF10ADFF10 HTTP 1.1" /product.screen?product_id=FL-DSN-01&JSESSIONID=SD15L4FF10ADFF10 HTTP 1. T /olditistanterproduct_id=FL-DSN-01&JSESSIONID=SD55L7FF6ADFF9 HTTP 1.1 200 1318

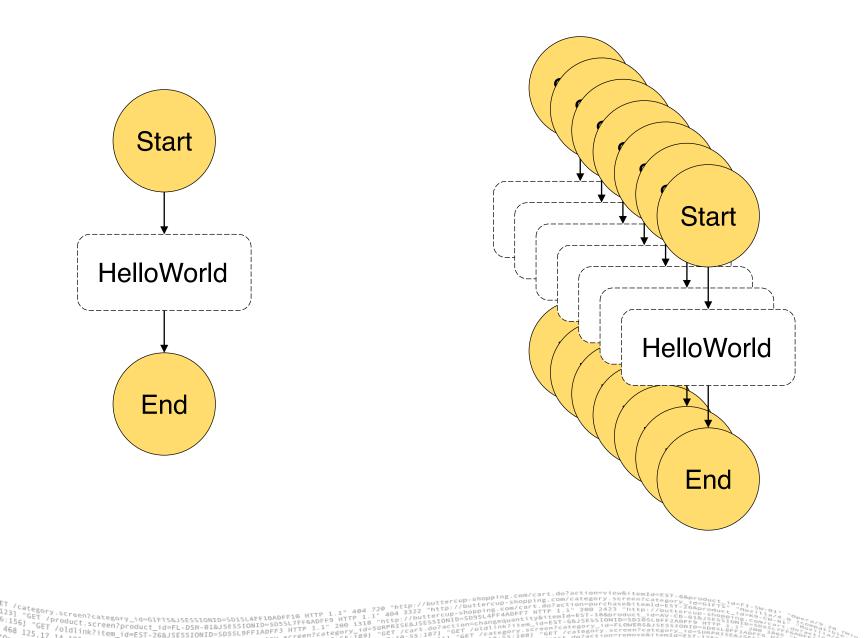
"GET /oldlink?item id=EST-26&JSESSIONID=SD5SL9FF1ADFF3 HTTP 1.1" 5.17

404 3322





Execute One or One Million



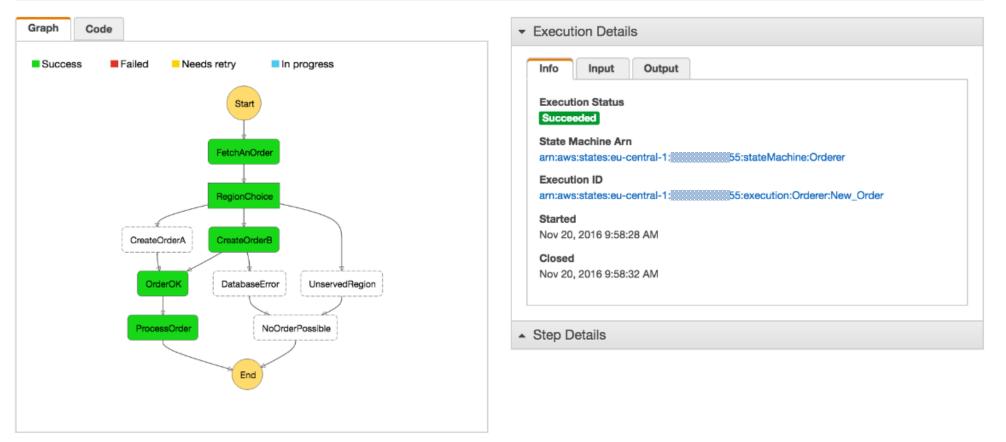


Monitor Executions from the Console

Dashboard > Orderer > New Order

Execution Arn: arn:aws:states:eu-central-1: 55:execution:Orderer:New_Order

New_Order 🤝

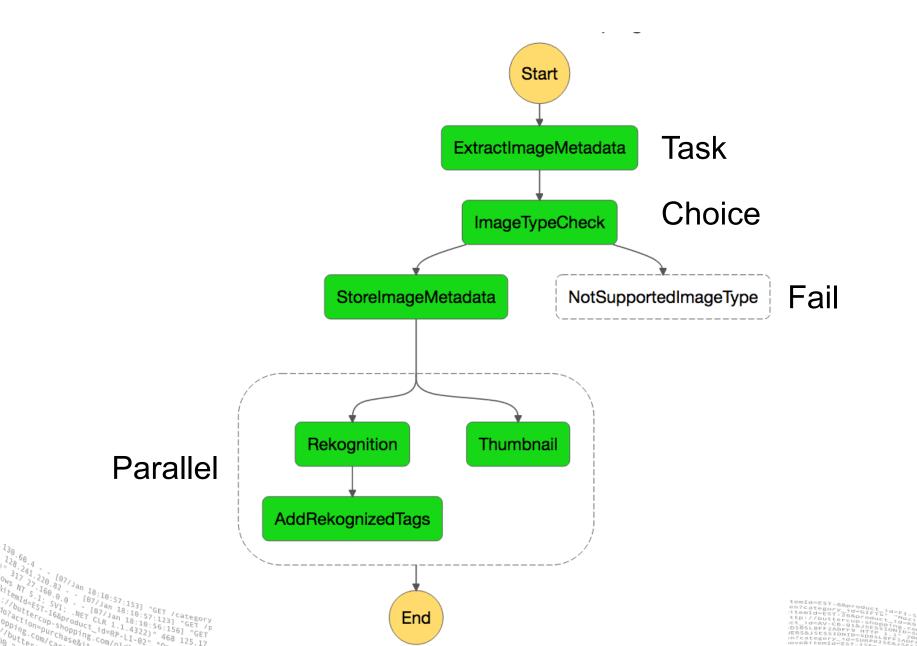


_			
	ID	Туре	Timestamp
	1	ExecutionStarted	Nov 20, 2016 9:58:28 AM
	2	TaskStateEntered	Nov 20, 2016 9:58:28 AM
	3	LambdaFunctionScheduled	Nov 20, 2016 9:58:28 AM

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Build Visual Workflows from State Types

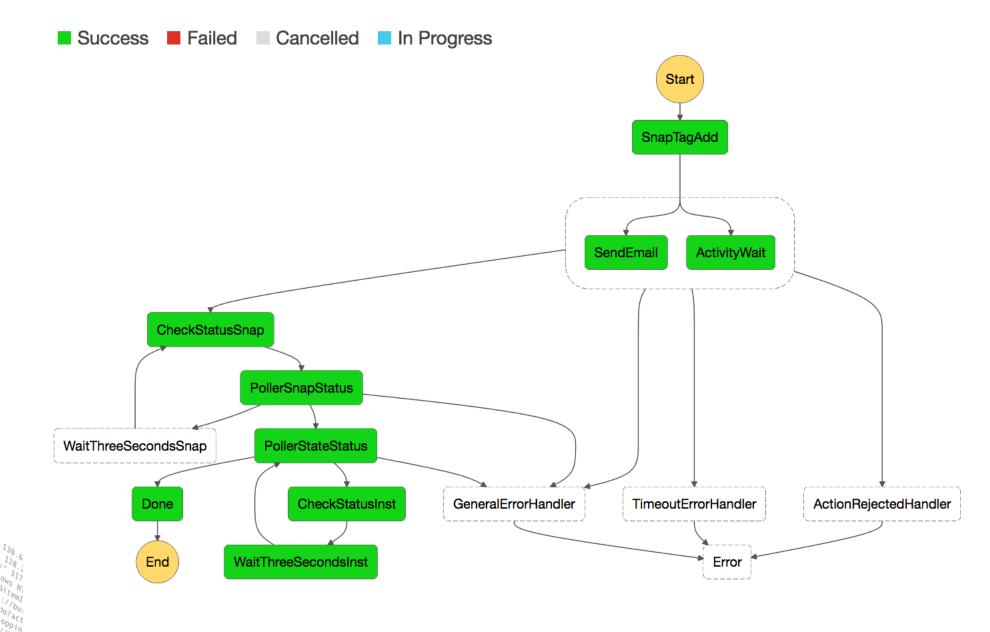


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18:10:57:153] (0/Jan 18:10:57:123] "GET /category.screen?category_id=GIFTS&ISESSIONID=SDISLAFF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=vise&itemId=EST-G&product_id=Fisw_01. UCCLR 1.1:0:56:156] "GET /product.screen?product_id=GIFTS&ISESSIONID=SDISLAFF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=vise&itemId=EST-G&product_id=visw_01. UCCLR 1.1:4322)" 468 "GET /product.screen?product_id=Fi-DSN-04&SISSIONID=SDISLAFF10ADFF10 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=visw.fitemId=EST-18&product_id=visw_01. UCCLR 1.1:4322)" 468 "GET /product.screen?product_id=Fi-DSN-04&SISSIONID=SDISLAFF10ADFF10 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=visw.fitemId=EST-18&product_id=visw.fitemId=Visw.fitemId=EST-18&product_id=visw.fitemId=EST-18&product_id=visw.fitemId=EST-18&product_id=visw.fitemId=EST-18&product_id=visw.fitemId=EST-18&product_id=visw.fitemId=EST-18&product_id=visw.fitemId=EST-18&product_id=visw.fitemId=EST-26&FitemId=EST-26&FitemId=Visw.fitemId=EST-26&FitemId=EST-26&FitemId=Visw.fitemId=EST-26&FitemId=EST-26&FitemId=Visw.fitemId=EST-26&FitemId=EST-26&FitemId=EST-26&FitemId=EST-26&FitemId=Visw.fitemId=EST-26&FitemId=Visw.fitemId=EST-26&FitemId=EST-26&FitemId=EST-26&FitemId=EST-26&FitemId=EST-26&FitemId=Visw.fitemId=EST-26&FitemId=ES



Our Step Function



buti



101 CW1

Architecture



