

AWS Step Functions

Table of Contents

AWS Step Functions	1
1. Quotas.....	2
2. Features and Developer Experience	2
2.1. Visualizing AWS Step Functions workflows from the AWS Batch console	2
2.2. New – AWS Step Functions Workflow Studio – A Low-Code Visual Tool for Building State Machines	2
2.3. Mocking service integrations with AWS Step Functions Local	2
2.3.1. Testing Step Functions State Machines Locally	3
2.4. AWS Step Functions and VS Code	3
2.5. New – Step Functions Support for Dynamic Parallelism	3
2.6. Introducing new intrinsic functions for AWS Step Functions	3
3. Learning Contents	3
3.1. Workshops	3
3.1.1. The AWS Step Functions Workshop.....	3
4. Launches	3
4.1. 2022.....	3
4.1.1. AWS Step Functions adds mocking support for testing workflows locally	3
4.1.2. AWS Step Functions adds 14 new intrinsic functions so you can process data more efficiently in workflows.	3
4.1.3. AWS Step Functions adds new execution observability features for Express Workflows	4
4.1.4. Simplify cross-account access for your AWS services with AWS Step Functions	4
4.2. 2021.....	4
4.2.1. AWS Step Functions adds new data flow simulator for modelling input and output processing	4
4.2.2. AWS Step Functions adds tooling support for YAML.....	4
4.2.3. Now — AWS Step Functions Supports 200 AWS Services To Enable Easier Workflow Automation	4
4.2.4. Announcing Workflow Studio, a new low-code visual workflow designer for AWS Step Functions	4
4.2.5. AWS Step Functions now supports Amazon custom events to EventBridge.....	4
4.2.6. AWS Step Functions adds support for over 200 AWS Services with AWS SDK Integration.....	5
4.3. 2020.....	5
4.3.1. AWS Step Functions adds support for AWS X-Ray.....	5
5. Cost Management	5
5.1. Building cost-effective AWS Step Functions workflows	5
6. Sessions.....	5

6.1.	nib health funds: Building an Auditable Access Pipeline with Step Functions	5
6.2.	AWS re:Invent 2019: [REPEAT 1] The serverless journey of shop.LEGO.com (SVS320-R1)	5
7.	Architecture, Best Practices and Customers Cases	5
7.1.	A serverless architecture for high performance financial modelling.....	5
7.2.	Chaining Serverless Functions for Stateful Workflows: AWS Step Functions using Adapter Pattern.....	5
7.3.	Orchestrate an Amazon EMR on Amazon EKS Spark job with AWS Step Functions ...	5
7.4.	Orchestrating high performance computing with AWS Step Functions and AWS Batch	6
7.5.	New – Building a Continuous Integration Workflow with Step Functions and AWS CodeBuild	6
7.6.	Best practices for Step Functions.....	6
7.7.	Microservices Choreography vs Orchestration: The Benefits of Choreography	6
7.8.	Microservice Orchestration Vs Choreography	6
7.9.	Event-Driven Architectures (EDA).....	6
7.10.	Building event-driven architectures with AWS	6

1. Quotas

<https://docs.aws.amazon.com/step-functions/latest/dg/limits-overview.html>

2. Features and Developer Experience

2.1. *Visualizing AWS Step Functions workflows from the AWS Batch console*

<https://aws.amazon.com/pt/blogs/compute/visualizing-aws-step-functions-workflows-from-the-aws-batch-console/>

2.2. *New – AWS Step Functions Workflow Studio – A Low-Code Visual Tool for Building State Machines*

<https://aws.amazon.com/pt/blogs/aws/new-aws-step-functions-workflow-studio-a-low-code-visual-tool-for-building-state-machines/>

2.3. *Mocking service integrations with AWS Step Functions Local*

<https://aws.amazon.com/pt/blogs/compute/mocking-service-integrations-with-aws-step-functions-local/>

2.3.1. Testing Step Functions State Machines Locally

<https://docs.aws.amazon.com/step-functions/latest/dg/sfn-local.html>

2.4. AWS Step Functions and VS Code

<https://docs.aws.amazon.com/toolkit-for-vscode/latest/userguide/building-stepfunctions.html>

2.5. New – Step Functions Support for Dynamic Parallelism

<https://aws.amazon.com/pt/blogs/aws/new-step-functions-support-for-dynamic-parallelism/>

2.6. Introducing new intrinsic functions for AWS Step Functions

<https://aws.amazon.com/pt/blogs/compute/introducing-new-intrinsic-functions-for-aws-step-functions/>

3. Learning Contents

3.1. Workshops

3.1.1. The AWS Step Functions Workshop

<https://catalog.workshops.aws/stepfunctions/en-US>

4. Launches

4.1. 2022

4.1.1. AWS Step Functions adds mocking support for testing workflows locally

https://aws.amazon.com/about-aws/whats-new/2022/01/aws-step-functions-support-workflows/?nc1=h_ls

4.1.2. AWS Step Functions adds 14 new intrinsic functions so you can process data more efficiently in workflows.

<https://aws.amazon.com/about-aws/whats-new/2022/08/aws-step-functions-14-new-intrinsic-features-process-data-workflows/>

4.1.2.1. Doc Intrinsic functions

https://docs.aws.amazon.com/en_us/step-functions/latest/dg/amazon-states-language-intrinsic-functions.html

4.1.3. AWS Step Functions adds new execution observability features for Express Workflows

<https://aws.amazon.com/pt/about-aws/whats-new/2022/10/aws-step-functions-adds-new-execution-observability-features-express-workflows/>

4.1.4. Simplify cross-account access for your AWS services with AWS Step Functions

<https://aws.amazon.com/pt/about-aws/whats-new/2022/11/simplify-cross-account-access-aws-services-step-functions/>

4.2. 2021

4.2.1. AWS Step Functions adds new data flow simulator for modelling input and output processing

https://aws.amazon.com/about-aws/whats-new/2021/04/aws-step-functions-adds-new-data-flow-simulator-for-modelling-input-and-output-processing/?nc1=h_ls

4.2.2. AWS Step Functions adds tooling support for YAML

<https://aws.amazon.com/about-aws/whats-new/2021/03/aws-step-functions-adds-tooling-support-for-yaml/>

4.2.3. Now — AWS Step Functions Supports 200 AWS Services To Enable Easier Workflow Automation

<https://aws.amazon.com/pt/blogs/aws/how-aws-step-functions-supports-200-aws-services-to-enable-easier-workflow-automation/>

4.2.4. Announcing Workflow Studio, a new low-code visual workflow designer for AWS Step Functions

<https://aws.amazon.com/pt/about-aws/whats-new/2021/07/announcing-workflow-studio-a-new-low-code-visual-workflow-designer-for-aws-step-functions/>

4.2.5. AWS Step Functions now supports Amazon custom events to EventBridge

<https://aws.amazon.com/pt/about-aws/whats-new/2021/05/aws-step-functions-now-supports-amazon-custom-events-eventbridge/>

4.2.6. AWS Step Functions adds support for over 200 AWS Services with AWS SDK Integration

<https://aws.amazon.com/about-aws/whats-new/2021/09/aws-step-functions-200-aws-sdk-integration/>

4.3. 2020

4.3.1. AWS Step Functions adds support for AWS X-Ray

<https://aws.amazon.com/pt/about-aws/whats-new/2020/09/aws-step-functions-adds-support-for-aws-x-ray/>

5. Cost Management

5.1. *Building cost-effective AWS Step Functions workflows*

<https://aws.amazon.com/pt/blogs/compute/building-cost-effective-aws-step-functions-workflows/>

6. Sessions

6.1. *nib health funds: Building an Auditable Access Pipeline with Step Functions*

<https://www.youtube.com/watch?v=ICEhR3mshyg>

6.2. *AWS re:Invent 2019: [REPEAT 1] The serverless journey of shop.LEGO.com (SVS320-R1)*

<https://www.youtube.com/watch?v=20KBtJOxUpw>

7. Architecture, Best Practices and Customers Cases

7.1. *A serverless architecture for high performance financial modelling*

<https://aws.amazon.com/pt/blogs/hpc/a-serverless-architecture-for-high-performance-financial-modelling/>

7.2. *Chaining Serverless Functions for Stateful Workflows: AWS Step Functions using Adapter Pattern*

<https://medium.com/@ozdemir.zynl/chaining-serverless-functions-for-stateful-workflows-aws-step-functions-using-adapter-pattern-9edb0db7b35e>

7.3. *Orchestrate an Amazon EMR on Amazon EKS Spark job with AWS Step Functions*

https://aws.amazon.com/pt/blogs/big-data/orchestrate-an-amazon-emr-on-amazon-eks-spark-job-with-aws-step-functions/?utm_source=pocket_mylist

7.4. *Orchestrating high performance computing with AWS Step Functions and AWS Batch*

https://aws.amazon.com/pt/blogs/compute/orchestrating-high-performance-computing-with-aws-step-functions-and-aws-batch/?utm_source=pocket_mylist

7.5. *New – Building a Continuous Integration Workflow with Step Functions and AWS CodeBuild*

<https://aws.amazon.com/pt/blogs/aws/new-building-a-continuous-integration-workflow-with-step-functions-and-aws-codebuild/>

7.6. *Best practices for Step Functions*

<https://docs.aws.amazon.com/step-functions/latest/dg/sfn-best-practices.html>

7.7. *Microservices Choreography vs Orchestration: The Benefits of Choreography*

<https://solace.com/blog/microservices-choreography-vs-orchestration/>

7.8. *Microservice Orchestration Vs Choreography*

<https://softobiz.com/microservice-orchestration-vs-choreography/>

7.9. *Event-Driven Architectures (EDA)*

<https://wisdom.corp.amazon.com/Pages/Event-driven-architectures.aspx#customer-stories>

7.10. *Building event-driven architectures with AWS*

<https://d1.awsstatic.com/psc-digital/2022/gc-300/event-driven-architectures-aws-guide/Event-Driven-Architectures-AWS-Guide.pdf>