

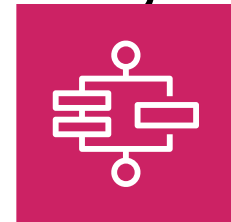


AWS Step Functions & Simple Workflow Service (SWF)

Amazon Web Services

What is AWS Step Functions

AWS Step Functions lets you coordinate multiple AWS services into serverless workflows so you can build and update apps quickly. Using Step Functions, you can design and run workflows that stitch together services such as AWS Lambda and Amazon ECS into feature-rich applications. Workflows are made up of a series of steps, with the output of one step acting as input into the next. Application development is simpler and more intuitive using Step Functions, because it translates your workflow into a state machine diagram that is easy to understand, easy to explain to others, and easy to change.



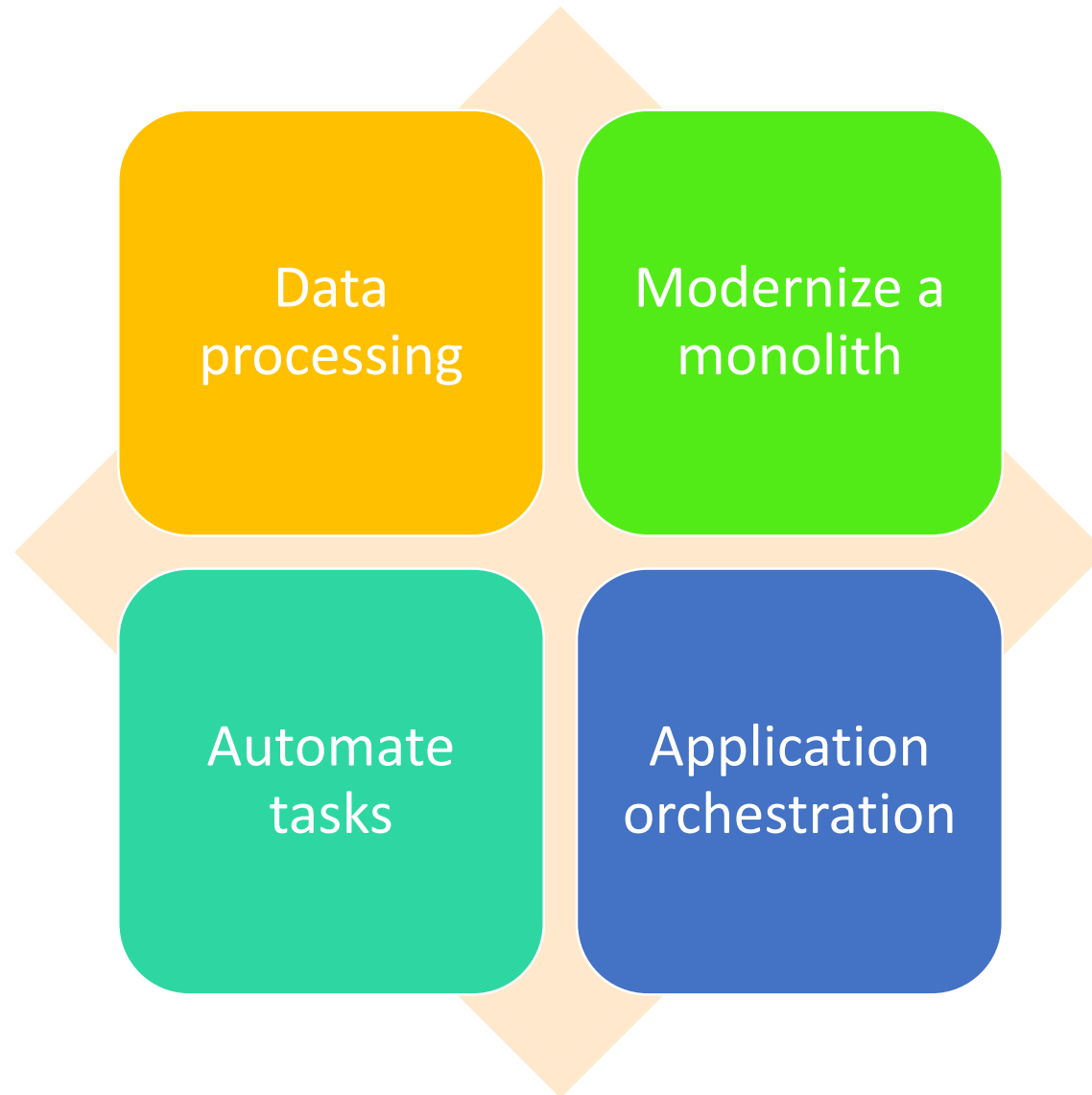
AWS Step Functions - Benefits

Build and update apps
quickly

Improve Resiliency

Write less code

AWS Step Functions – Use Case



Amazon Simple Workflow Service (SWF)

Amazon Simple Workflow (Amazon SWF) helps developers build, run, and scale background jobs that have parallel or sequential steps. You can think of Amazon SWF as a fully-managed state tracker and task coordinator in the cloud. If your applications take more than 500 milliseconds to complete, you need to track the state of processing. If you need to recover or retry if a task fails, Amazon SWF can help you.

Amazon Simple Workflow Service (SWF)

- Amazon SWF provides simple API calls that can be executed from code written in any language and run on your EC2 instances, or any of your machines located anywhere in the world that can access the Internet.
- Amazon SWF acts as a coordination hub with which your application hosts interact. You create desired workflows with their associated tasks and any conditional logic you wish to apply and store them with Amazon SWF. You program your application components to request various tasks to be performed in your workflow execution and Amazon SWF coordinates the tasks getting done, in the order you specified, on your hosts. Applications communicate with Amazon SWF using APIs to record success or failure of tasks.

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