STEP FUNCTION:-

AWS step functions is a serverless orchestration service that lets you integrate with lambda functions and other AWS services to build business critical application. Step function is based on state machines and task. In step function workflow is called state machine. Each step in workflow is called state. A Task state represents unit of work that another AWS service, such as lambda perform. A task state can call any AWS service or API.

STANDARD AND EXPRESS WORKFLOWS:-

Step functions has two workflow types. Standard workflows have exactly one workflow execution and can run for up to one year. This means that each step in a Standard workflow will execute exactly once. Express workflows, have at least once workflow execution and can run up for five minutes. This means that one or more steps in an express workflow can potentially run more than once, while each step in the workflow executes at least once.

STANDARD WORKFLOWS SPECIFICATIONS:-

\* 2000 per second execution rate

\* 4000 per second state transition rate

\* Priced by state transition

EXPRESS WORKFLOWS SPECIFICATIONS:-

\* 100000 per second execution rate

\* Nearly unlimited state transition rate

\* Price by number and duration rate

USE CASES:-

Step functions manages your applications components and logic, so you can write less code and focus on building and updating your application quickly. Step functions are use to building data processing pipelines to defining security- incident response. Step functions may be used synchronous and asynchronous business processes.

Benefits of AWS Step Functions:-

AWS step function enables engineering teams to economically construct complex workflows at scale. The billing model is volume-based, so payment is dependent on number of times a step in your workflow is executed.