

AWS set function

it just look like a json format

AWS Step Functions



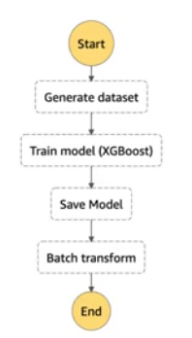
- Use to design workflows
- Easy visualizations
- Advanced Error Handling and Retry mechanism outside the code
- Audit of the history of workflows
- Ability to "Wait" for an arbitrary amount of time
- Max execution time of a State Machine is 1 year

Step Functions – Examples Train a Machine Learning Model

Definition

Code is pre-configured by the chosen sample project. It can be edited after creation. Step Functions state machines are defined using the JSON-based Amazon States Language (ASL). [Learn more](#)

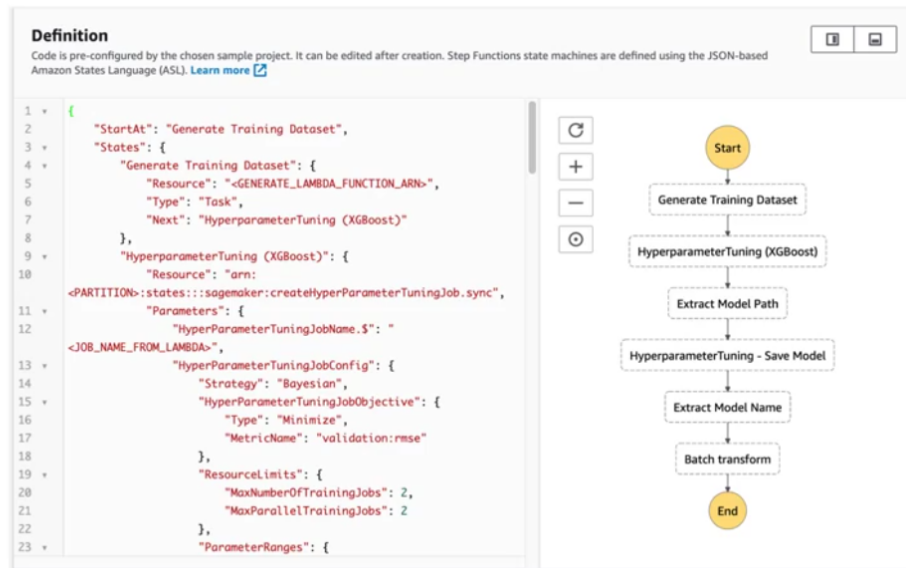
```
1 {
2   "StartAt": "Generate dataset",
3   "States": {
4     "Generate dataset": {
5       "Resource": "<GENERATE_LAMBDA_FUNCTION_ARN>",
6       "Type": "Task",
7       "Next": "Train model (XGBoost)"
8     },
9     "Train model (XGBoost)": {
10      "Resource": "arn:
11      <PARTITION>:states:::sagemaker:createTrainingJob.sync",
12      "Parameters": {
13        "AlgorithmSpecification": {
14          "TrainingImage": "<SAGEMAKER_TRAINING_IMAGE>",
15          "TrainingInputMode": "File"
16        },
17        "OutputDataConfig": {
18          "S3OutputPath": "s3://<S3_BUCKET>/models"
19        },
20        "StoppingCondition": {
21          "MaxRuntimeInSeconds": 86400
22        },
23        "ResourceConfig": {
24          "InstanceCount": 1,
25          "InstanceType": "ml.m4.xlarge",
```



```
graph TD
    Start((Start)) --> GenerateDataset[Generate dataset]
    GenerateDataset --> TrainModel[Train model (XGBoost)]
    TrainModel --> SaveModel[Save Model]
    SaveModel --> BatchTransform[Batch transform]
    BatchTransform --> End((End))
```

Step Functions – Examples

Tune a Machine Learning Model



Step Functions – Examples

Manage a Batch Job

