AWSTemplateFormatVersion: 2010-09-09 Transform: 'AWS::LanguageExtensions'

Parameters:

Stage: # <<- this is a parameter definition.

Type: String
Default: Dev
AllowedValues:
- Dev

- Prod

Conditions: isProd: !Equals

- !Ref Stage # <<- this is a reference to the definition

- Prod isDev: !Equals - !Ref Stage - Dev

Resources:

DevQueue:

Type: 'AWS::SQS::Queue' Condition: isDev Properties:

QueueName: !Sub 'My\${Stage}Queue'

ProdQueue:

Type: 'AWS::SQS::Queue' Condition: isProd Properties:

QueueName: !Sub 'My\${Stage}Queue'

DevTopic:

Condition: isDev Type: 'AWS::SNS::Topic'

ProdTopic:

Condition: isProd
Type: 'AWS::SNS::Topic'

MyAlarm:

Type: 'AWS::CloudWatch::Alarm'

Properties:

AlarmDescription: Alarm if Q depth grows beyond 10 msgs

Namespace: AWS/SQS

Metric Name: Approximate Number Of Messages Visible

Dimensions:

- Name: !Sub '\${Stage}Queue'

Value: !GetAtt

- !Sub '\${Stage}Queue'

- QueueName

Statistic: Sum Period: 300 EvaluationPeriods: 1 Threshold: 10

ComparisonOperator: GreaterThanThreshold

AlarmActions:
-!Ref
'Fn::Join':

....

- - !Ref Stage

- Topic

The intrinsic function Ref returns the value of the specified parameter or resource. When the AWS::LanguageExtensions
transform transform is used, you can use intrinsic functions as a parameter to Ref and Fn::GetAtt.

The intrinsic function Fn::Sub

substitutes variables in an input string with values that you specify.

In your templates, you can use this function to construct commands or outputs that include values that aren't available until you create or update a stack.

You need to use intrinsic functions to concatenate a static value with a Ref value.

Fn::Join reference

In your case, this would lead to the following construct.

```
"Resource": [
"Fn::Join": ["", ["arn:aws:s3:::", {"Ref":"BucketName"}] ]
```