Module 3: Automating Infrastructure Using CloudFormation

Demo Document 2

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Creating an S3 bucket using Intrinsic function (join and ref) where we get the name from parameter

Step 1: Create a template with the Resource 'AWS::S3::Bucket' by getting the name from the *parameter* and use *intrinsic function* to create a combined name

```
{
  "AWSTemplateFormatVersion": "2010-09-09",

 "Description": "Using intrinsic Functions and parameters",

 "Parameters": {

  "s3NamePrefix": {

    "Description": "Enter the unique prefix to the name of the S3 bucket you need to create",

    "Type": "String",

    "Default": "mybucket"

  }},

 "Resources": {

  "s3Bucket": {

   "Type": "AWS::S3::Bucket",

   "Properties": {

    "BucketName": {

     "Fn::Join": [ "-",

      [ {

         "Ref": "s3NamePrefix"

       },

       {

        "Ref": "AWS::StackName"

       },

       {

        "Ref": "AWS::Region"

       } ] ]}}}}}
```

Step 2: Go to AWS Management Console, navigate to *CloudFormation* console and click on "create stack"
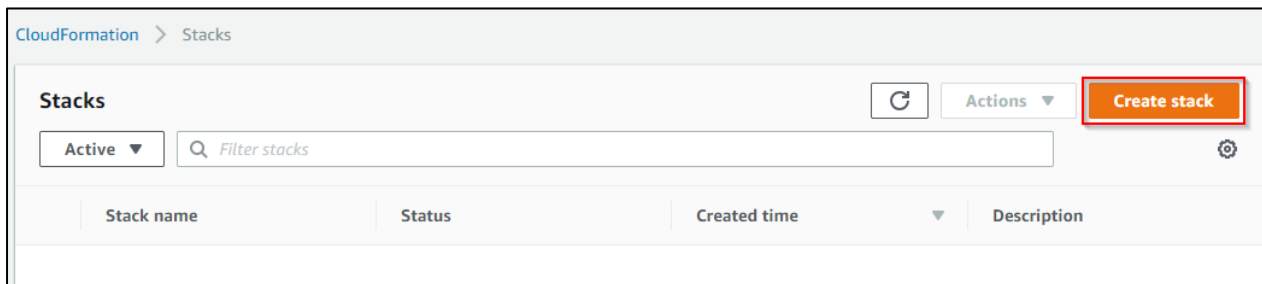
Step 3: Click on 'Upload a template file' and then 'Choose file' from your local system. This is the file created in the Step 1. Then Click 'Next'
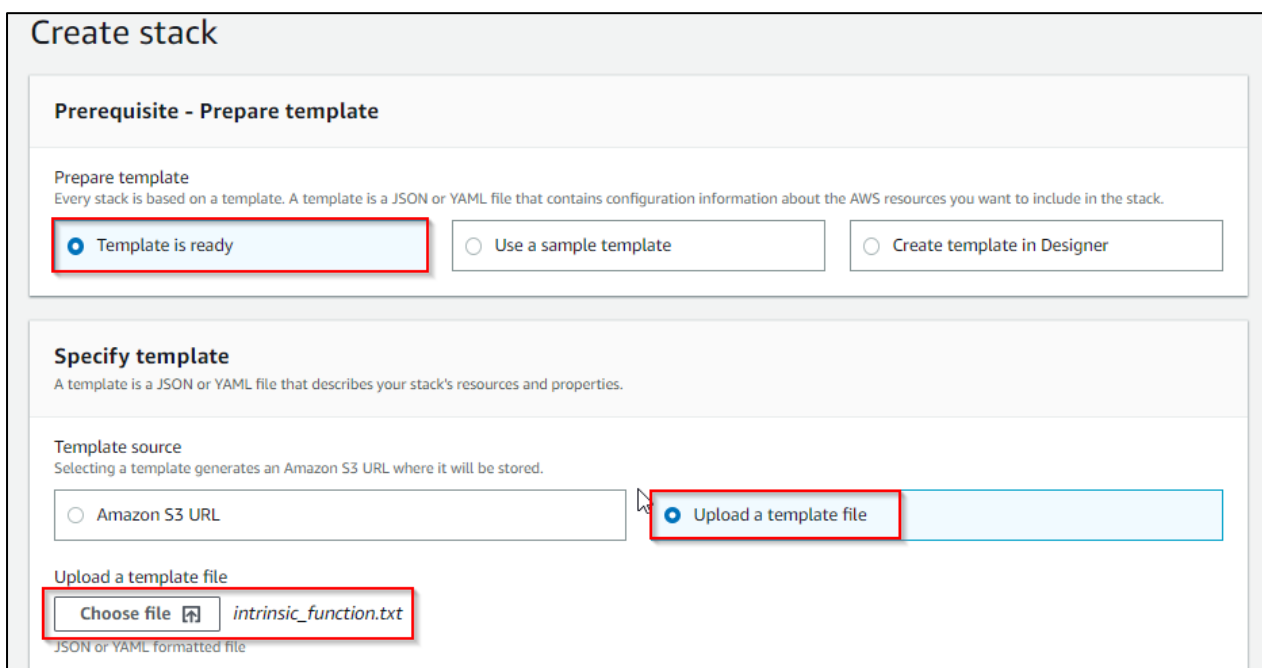
Step 4: Enter your *stack name* and click "Next"

Step 5: In the 'Configure stack options', keep everything as default and scroll down to the and click *Next*

Step 6: In the 'Review Stack' page click on 'Create Stack'

Step 7: Click on 'Events' tab and check the events for successful creation of stack (You might need to click on refresh for updates)

Step 8: You can check the S3 console and would find the S3 bucket created if the Stack completed successfully. The name will be a combination of value entered from parameter + stack name + region.

Conclusion

You have successfully created a S3 bucket using intrinsic function *Join and Ref* in CloudFormation Template