

## Module 3: Automating Infrastructure Using CloudFormation

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### Demo Document 1

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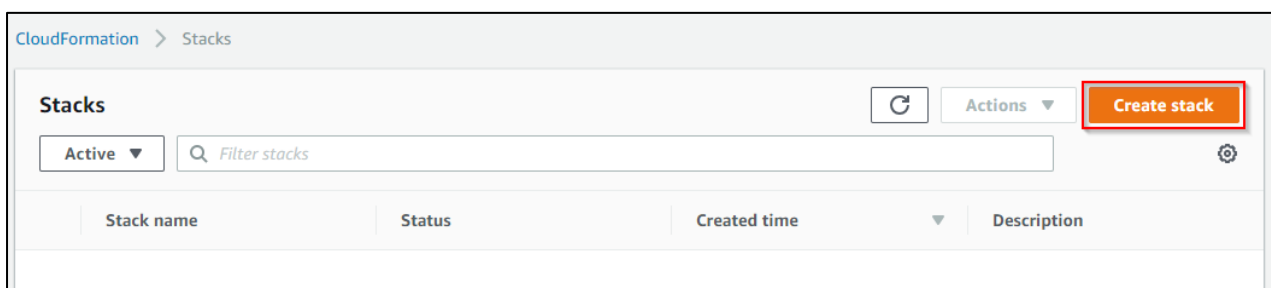
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## Creating An S3 Bucket Using CloudFormation By Hardcoding The Name

**Step 1:** Create a template with the **Resource 'AWS::S3::Bucket'** , hardcoding the name of the bucket. Make sure that **the name of the bucket is unique**

```
{
  "AWSTemplateFormatVersion":"2010-09-09",
  "Description":"Creating a new S3 bucket",
  "Resources":{
    "s3Bucket":{
      "Type":"AWS::S3::Bucket",
      "Properties":{
        "BucketName":"s3-myuniquebucket123"
      }
    }
  }
}
```

**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'

**Create stack**

**Prerequisite - Prepare template**

Prepare template  
Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.

☒ Template is ready ☐ Use a sample template ☐ Create template in Designer

**Specify template**  
A template is a JSON or YAML file that describes your stack's resources and properties.

Template source  
Selecting a template generates an Amazon S3 URL where it will be stored.

☐ Amazon S3 URL ☒ Upload a template file

Upload a template file  
Choose file s3bucket.txt  
JSON or YAML formatted file

**Step 4:** Enter your **stack name** and click "Next"

**Specify stack details**

**Stack name**

Stack name  
Demo-Stack  
Stack name can include letters (A-Z and a-z), numbers (0-9), and dashes (-).

**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'

**Stack creation options**

Rollback on failure  
Enabled

Timeout  
-

Termination protection  
Disabled

► Quick-create link

Cancel Previous Create change set **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)

CloudFormation > Stacks > demo-stack: Stack details

**demo-stack** Actions ▼

Stack info **Events** Resources Outputs Parameters Template

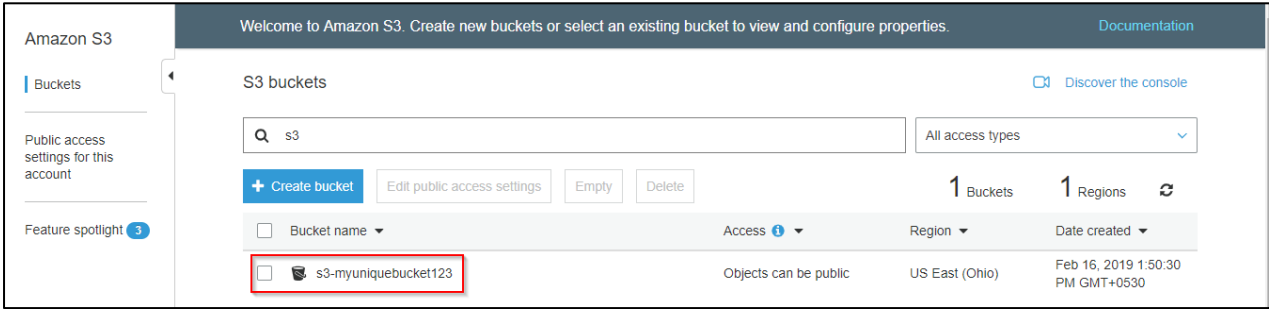
**Events**

Q Search events

Timestamp	Logical ID	Status	Status reason
16 Feb 2019 08:20:53	demo-stack	✓ CREATE_COMPLETE	-
16 Feb 2019 08:20:52	s3Bucket	✓ CREATE_COMPLETE	-

(Note- if CloudFormation is rolling-back then change bucket name)

**Step 8:** You can check the **S3 console** to confirm creation of S3 bucket, done by **CloudFormation Stack**



## Conclusion

You have successfully created a S3 bucket using CloudFormation Template

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