Create a Cloud Formation Stack in Console

Step 1: Create a Template file in your Desktop "creates3.json" or "creates3.yaml from below example in your Desktop

**creates3.json**

**{**

**"AWSTemplateFormatVersion" : "2010-09-09",**

**"Parameters" : {**

**"BucketName": {**

**"Description": "The bucket should follow syntax as username-region-bucketname",**

**"Type": "String",**

**"Default": "mohanraz81-us-east-1-testbucket"**

**}**

**},**

**"Resources" : {**

**"S3Bucket" : {**

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

**"Properties" : {**

**"BucketName": { "Ref": "BucketName" }**

**}**

**}**

**},**

**"Outputs" : {**

**"S3BucketName" : {**

**"Value" : {"Ref": "S3Bucket"},**

**"Description" : "Name of S3 bucket"**

**}**

**}**

**}**

**creates3.yaml**

**AWSTemplateFormatVersion: 2010-09-09**

**Parameters:**

**BucketName:**

**Description: Name of S3 Bucket**

**Type: String**

**Default: "mohanraz81-us-east-1-testbucket"**

**Resources:**

**S3Bucket:**

**Type: 'AWS::S3::Bucket'**

**Properties:**

**BucketName:**

**Ref: BucketName**

**Outputs:**

**S3BucketName:**

**Value: !Ref S3Bucket**

**Description: Name of S3 bucket**

Step 2: Login in to AWS Console And Click on All Services and Cloud Formation and Say Create stack Services v 
Resource Groups 
CloudFormation v Stacks 
O Introducing StackSets 
mohanraz81 @ 5294-1596-2126 
N. Virginia 
Support 
AWS StackSet is a container for a set of AWS CloudFormation stacks and allows you to create stacks across multiple AWS Accounts and AWS Regions. Open the StackSets 
console to get started. 
Create Stack 
Filter. Active 
Actions 
By Stack Name 
Design template 
Created Time 
2017-07-31 UTC+0550 
2017-07-31 UTC+0550 
2017-07-31 UTC+0550 
2017-07-31 UTC+0550 
Showing 4 stacks 
o 
o 
o 
o 
Stack Name 
mohanraz81desktop-stack 
mohanraz81-sn1 -stack 
mohanraz81-sn2-stack 
mohanraz81 -vpc-stack 
Status 
CREATE_COMPLETE 
CREATE_COMPLETE 
CREATE_COMPLETE 
CREATE_COMPLETE 
Overview 
Outputs 
Resources 
Events 
Template 
Parameters 
Description 
Enter Details About Creating The Ec2 instance 
Creating The Network stack in Aws 
Creating The Network stack in Aws 
Creating The Network stack in Aws 
Change Sets 
Tags Stack Policy 
Select a stack 

Step 3: Choose Upload Template to S3 and Choose a creates3.json or creates3.yaml file

CloudFormation 
Create stack 
Select Template 
Specify Details 
Options 
Review 
Stacks 
> 
Create Stack 
Select Template 
Select the template that describes the stack that you want to create. A stack is a group of related resources that you manage as a single unit. 
Design a template 
Choose a template 
Use AWS CloudFormation Designer to create or modify an existing template. Learn more. 
Design template 
A template is a JSON/YAML-formatted text file that describes your stack's resources and their properties. Learn more. 
O 
Select a sample template 
@ Upload a template to Amazon S3 
Choose File No file chosen 
O 
Specify an Amazon S3 template URL 

Open 
Organize • 
ThisPC 
New folder 
Documents 
CF 
Name 
creates3 
creates3y 
Date modified 
31-07-20170614 
31-07-2017 
31-07-20170618 
Available offline 
Type 
JSON File 
YML File 
Size 
* Quick access 
Desktop 
Downloads 
Documents 
[e] Pictures 
AWS Design and A 
Vidya IT filing 
Creative Cloud Files 
OneDrive 
This pc 
Desktop 
Documents 
Downloads 
Music 
[e] Pictures 
Videos 
oscc.•) 
Network 
•4 Homegroup 
creates3y Date modified: 
31-07-20170626 
416 bytes 
Date created: 
Availability: 
YML File 
File name: 
Size: 
creates3y 
All Files 
Open 
Cancel 

Step 4: Specify the stack name , Sack name is the identifier for the Template Resource created in AWS. You modify, Update or Delete this resource using this stack name

It will also show all the parameters in the Template, In our example it asks for bucket name and shows the default bucket name which is provided in the template

CloudFormation 
Create stack 
Select Template 
Specify Details 
Options 
Review 
Stacks 
> 
Create Stack 
Specify Details 
Specify a stack name and parameter values. You can use or change the default parameter values, which are defined in the AWS CloudFormation template. Learn 
more. 
Stack name 
Parameters 
BucketName 
creates3bucket 
mohanraz81 -us-east-I -testbucket 
Name of S3 Bucket 
Cancel 
Previous 
Next 

Step 5: You can choose a Role and Other permissions for stack , We can see this in future classes

Review 
You can specify tags (key-value pairs) for resources in your stack. You can add up to 50 unique key-value pairs for each stack. Learn more. 
Value (255 characters maximum) 
Key (1 27 characters maximum) 
Permissions 
You can choose an IAM role that CloudFormation uses to create, modify, or delete resources in the stack. If you don't choose a role, CloudFormation uses the 
permissions defined in your account. Learn more. 
IAM Role 
Advanced 
Choose a role (optional) 
Enter role arn 
You can set additional options for your stack, like notification options and a stack policy. Learn more. 
Cancel 
Previous 
Next 

Step 6: Review and Create

Review 
Template URL 
Description 
Estimate cost 
Details 
Stack name: 
BucketName 
Options 
Tags 
No tags provided 
Advanced 
Notification 
Timeout 
Rollback on failure 
https://s3-external-1.amazonaws.com/cf-templates-l v8m55uz4gn6h-us-east-1 /2017212P05-creates3y.yml 
Link is not available 
creates3bucket 
mohanraz81 -us-east-I -testbucket 
none 
Yes 
Cancel 
Previous 
Create 

Step 7: the console will show the stacks are getting Created

Services v 
Resource Groups 
CloudFormation v Stacks 
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N. Virginia 
Support 
O 
AWS StackSet is a container for a set of AWS CloudFormation stacks and allows you to create stacks across multiple AWS Accounts and AWS Regions. Open the StackSets 
console to get started. 
Create Stack 
Filter. Active 
Stack Name 
Actions 
By Stack Name 
Design template 
Created Time 
2017-07-31 UTC+0550 
2017-07-31 UTC+0550 
2017-07-31 UTC+0550 
2017-07-31 UTC+0550 
9017-07-31 11TO.+0550 
Showing 5 stacks 
o 
o 
o 
creates3bucket 
mohanraz81 desktop-stack 
mohanraz81-sn1 -stack 
mohanraz81-sn2-stack 
mohanra7R1 -vne-staok 
Status 
CREATE_COMPLETE 
CREATE_COMPLETE 
CREATE_COMPLETE 
O.RFATF OOMPI FTF 
Description 
Enter Details About Creating The Ec2 instance 
Creating The Network stack in Aws 
Creating The Network stack in Aws 
Creatina The Network star:k in AWR 
Overview 
2017-07-31 
Outputs 
UTC+0550 
Resources 
Events 
Status 
Template 
Parameters Tags Stack Policy 
Type 
AWS::CloudFormation::Stack 
Change Sets 
Logical ID 
creates3bucket 
Status reason 
User Initiated 
https//console.aws.amazon.com/console/home?region=us-east- 1 

Step 8: Once Stack Creation Completed the status will go to Create Completed

Create Stack 
Filter. Active 
Stack Name 
Actions 
By Stack Name 
Design template 
Created Time 
2017-07-31 UTC+0550 
2017-07-31 UTC+0550 
Showing 5 stacks 
o 
creates3bucket 
mohanraz81 desktop-stack 
Status 
CREATE_COMPLETE 
CREATE_COMPLETE 
Description 
Enter Details About Creating The Ec2 instance 
Change Sets 
Overview Outputs 
Stack name: 
Stack ID: 
Status: 
Status reason: 
IAM Role: 
Description 
Events Template 
Parameters Tags Stack Policy 
Resources 
creates3bucket 
arn:aws:cloudformation:us-east-l :52941 5962126:stack/creates3bucket/0e60fda0-758f-11 e7-bb0f-500c286014fd 
CREATE_COMPLETE 

Step 9 : The Output you have mentioned in Output section will be Visible in Output section

Create Stack 
Filter. Active 
Stack Name 
Actions 
By Stack Name 
Design template 
Created Time 
2017-07-31 UTC+0550 
2017-07-31 UTC+0550 
Showing 5 stacks 
o 
creates3bucket 
mohanraz81 desktop-stack 
Status 
CREATE_COMPLETE 
CREATE_COMPLETE 
Description 
Enter Details About Creating The Ec2 instance 
Overview Outputs Resources 
Key 
S3BucketName 
Events Template 
Parameters Tags 
Value 
mohanraz81 -us-east-I -testbucket 
Stack Policy Change Sets 
Description 
Name of S3 bucket 
Export Name 

Step 10: Resource Tab will show the resources created by this Stack

Create Stack 
Filter. Active 
Stack Name 
Actions 
By Stack Name 
Design template 
Created Time 
2017-07-31 UTC+0550 
2017-07-31 UTC+0550 
Showing 5 stacks 
o 
creates3bucket 
mohanraz81 desktop-stack 
Status 
CREATE_COMPLETE 
CREATE_COMPLETE 
Description 
Enter Details About Creating The Ec2 instance 
Overview Outputs 
Logical ID 
S3Bucket 
Resources 
Physical ID 
Events 
mohanraz81 -us-east-I -testbucket 
Template 
Parameters Tags 
Type 
AWS: 
Stack Policy 
:S3::Bucket 
Change Sets 
Status 
CREATE_COMPLETE 
Status Reason 

Step 11: Events tab will show List of Events happed during Resource creation

Itiple AWS Accounts and AWS Regions. Open the StackSets 
Create Stack 
Filter. Active 
AWS StackSet is a container tor a set ot AWS CloudFormation stacks and allows you to create stack 
console to get started. 
s across mu 
Actions 
By Stack Name 
Design template 
Created Time 
2017-07-31 UTC+0550 
2017-07-31 UTC+0550 
Showing 5 stacks 
o 
Stack Name 
creates3bucket 
mohanraz81 desktop-stack 
Status 
CREATE_COMPLETE 
CREATE_COMPLETE 
Description 
Enter Details About Creating The Ec2 instance 
Overview 
2017-07-31 
Outputs 
Resources 
Status 
Events 
UTC+0550 
CREATE_COMPLETE 
Template 
Parameters Tags Stack Policy 
Type 
AWS::CloudFormation::Stack 
Change Sets 
Logical ID 
creates3bucket 
Physical ID: arn:aws:cloudformation:us-east-l :529415962126:stack/creates3bucket/0e60fda0-758f-11 e7-bb0f-500c286014fd 
Client Request Token: Console-CreateStack-b89c1 be6-0007-4025-995d-decb90979f2e 
UTC+0550 
CREATE_COMPLETE 
Physical ID: mohanraz81-us-east-1-testbucket 
Client Request Token: Console-CreateStack-b89c1 be6-0007-4025-995d-decb90979f2e 
UTC+0550 
UTC+0550 
UTC+0550 
•CloudFormation::Stack 
AWS•.. 
S3Bucket 
S3Bucket 
S3Bucket 
creates3bucket 
Status reason 
Resource creation Initiated 
User Initiated 

Step 12: Template Tab will show the Template used for creating this stack

o 
Create Stack 
Filter. Active 
Default: "mohanraz81-us-east-1-testbucket" 
Actions 
By Stack Name 
Design template 
Created Time 
2017-07-31 UTC+0550 
2017-07-31 UTC+0550 
Showing 5 stacks 
Stack Name 
creates3bucket 
mohanraz81 desktop-stack 
Status 
CREATE_COMPLETE 
CREATE_COMPLETE 
Parameters Tags Stack Policy 
Events Template 
Description 
Enter Details About Creating The Ec2 instance 
Change Sets 
Overview Outputs 
Type: String 
Resources : 
S3Bucket : 
Type: 'AWS: 
.. Bucket ' 
Properties : 
BucketName : 
Ref: BucketName 
Outputs : 
S3BucketName : 
Value: ! Ref S3Bucket 
Description: Name of S3 
Resources 
bucket 

Step 13: Parameter section shows Parameter provided by user in this stack

Create Stack 
Filter. Active 
Stack Name 
Actions 
By Stack Name 
Design template 
Created Time 
2017-07-31 UTC+0550 
2017-07-31 UTC+0550 
Showing 5 stacks 
o 
creates3bucket 
mohanraz81 desktop-stack 
Status 
CREATE_COMPLETE 
CREATE_COMPLETE 
Description 
Enter Details About Creating The Ec2 instance 
Change Sets 
Overview Outputs 
Resources 
Key 
BucketName 
Events Template 
Parameters Tags Stack Policy 
Value 
mohanraz81 -us-east-I -testbucket 