Could formation 18/10 24/10

Task 1:

Machine generated alternative text:
User details 
User name 
AWS access type 
Permissions boundary 
test 
Programmatic access - with an access key 
Permissions boundary is not set 

Users with AWS Management Console access can sign-in at: <https://303557956669.signin.aws.amazon.com/console>

1 Go to AWS Management console

and go to IAM

2 Make sure your user has

CloudFormation permission

Add permissions -> Attach existing policies ->

AWSCloudFormationFullAccess

3 Make sure S3 full access, Ec2 full

access and IAM access also present

4 Go to security credentials for your user

Enable console access and custom password

Machine generated alternative text:
Christudas v 
Manage console access 
S 
Manage test's AWS console access and password. 
x 
Console access 
Set password* 
Require password 
reset 
Enable 
Disable 
Disabling will remove pre-existing password. 
Autogenerated password 
Custom password 
sunil@123 
e) Show password 
User must create a new password at next sign-in 
Cancel 
Apply 
0 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. 
Global V 
Delete user 
Privacy Policy 
Support v 
Terms of Use 
Show all 
x 

<https://303557956669.signin.aws.amazon.com/console>

TASK 2 : HOW TO CREATE A TEMPLATE USING TEMPLATE DESIGNER

1 In the CloudFormation service select create stack

2 Select “Create template in Designer” is selected

3 Create template in Designer is

clicked

4 Select S3 -> bucket. Drag and

drop to the designer space

5 Select YAML format

Click in cloud design in upside

Then given name

Click Next

Stack url will get it ( if need keep it)

<https://s3.ap-south-1.amazonaws.com/cf-templates-z341w8br3yo0-ap-south-1/2020298AVY-new.templatecokqxbe2d5v>

Machine generated alternative text:
Close 
File: 'newtemplate' 
Resource types 
AccessPoint 
Bucket 
BucketPolicy 
SDB 
Parameters Mappings 
new.template 
S3B3FL5K 
Conditions 
Metadata 
Outputs 
Choose template language: 
O JSON @ 
O 
Messages 
10/18/2020, PM 

<https://s3.ap-south-1.amazonaws.com/cf-templates-z341w8br3yo0-ap-south-1/2020292MEu-new.templateqztnzd42dcf>

Machine generated alternative text:
Stack name 
Stack name 
teststac 
Stack name can include letters (A-Z and a-z), numbers (0-9), and dashes (-). 
Parameters 
Parameters are defined in your template and allow you to input custom values when you create or update a stack. 
No parameters 
There are no parameters defined in your template 
Cancel 
Previous 
Next 

Machine generated alternative text:
CloudFormation 
Stacks (1) 
Stacks 
teststack 
teststack 
Stack info 
(1) 
Events 
O 
Events 
Delete 
Outputs 
Update 
Parameters 
Stack actions v 
Template 
Create stack 
Change sets 
Q 
Filter by stack name 
O View nested 
Active v 
teststack 
2020-10-18 22:39:49 UTC+0530 
@ CREATE_COMPLETE 
Q 
Search events 
Timestamp 
2020-10-18 22:39:49 
UTC+0530 
Resources 
Logical ID 
teststack 
Status 
GRESS 
New events available 
Status reason 
User Initiated 

TASK 2 : HOW TO CREATE A TEMPLATE USING TEMPLATE

DESIGNER

1 In the CloudFormation service

select create stack

2 Select “Create template in

Designer” is selected

3 Create template in Designer is

clicked

4 Select S3 -> bucket. Drag and

drop to the designer space

5 Select YAML format

TASK 3:HOW TO CREATE A STACK FROM THE TEMPLATE CREATED

1 Select create stack and then click next

2 Provide the name of the stack .

Select next

3 Accept the default options and

click next

4 Click Create stack

5 View the stack in the stack list

6 View the S3 bucket created in the

S3 services

Machine generated alternative text:
Q 
Search for buckets 
+ Create bucket 
Bucket name 
Edit public access settings 
Empty 
cf-templates-z341w8br3y00-ap-south-1 
teststack-s3b3f15k-e6sqiq2qqu5a 
Delete 
Access O 
Objects can be public 
Objects can be public 
All access types 
2 
Buckets 
Region 
Asia Pacific 
(Mumbai) 
Asia Pacific 
(Mumbai) 
1 
Regions 
Date created 
Oct 18, 2020 
PM 
GMT+0530 
Oct 18, 2020 
PM 
GMT+0530 

TASK 3:HOW TO CREATE A STACK FROM THE TEMPLATE CREATED

1 Select create stack and then click next

2 Provide the name of the stack .

Select next

3 Accept the default options and

click next

4 Click Create stack

5 View the stack in the stack list

6 View the S3 bucket created in the S3 services

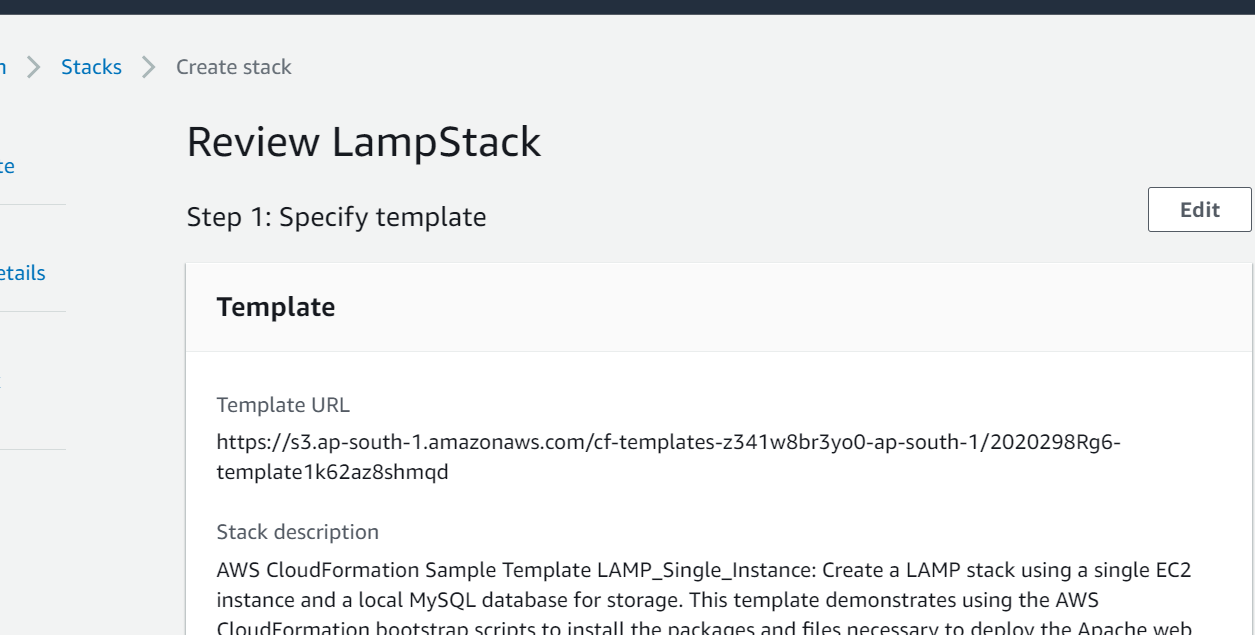
TASK 4: HOW TO CREATE A STACK FROM THE SAMPLE TEMPLATE

1 Go to create stack -> From new resources -> use a sample template 2 Select LAMP stack 3 View the template in designer 4 Click create stack 5 Click Next -> give name of the stack LAMPStack 6 Provide the parameter details and then create stack

<https://s3.ap-south-1.amazonaws.com/cloudformation-templates-ap-south-1/LAMP_Single_Instance.template>

S3 URL: <https://s3.ap-south-1.amazonaws.com/cloudformation-templates-ap-south-1/LAMP_Single_Instance.template>

DB pass: test



TASK 5:HOW TO INSTALL AWS CLI TO INTERACT WITH AWS

curl "<https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip>" -o "awscliv2.zip

• Activity:

• Install AWS CLI

• Definition of Done:

• AWS CLI installed

• Create a subfolder and upload the

relevant screenshot.(AWS CLI version)

# Steps Commands

1 Get the AWS CLI version 2

curl "<https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip>" -o "awscliv2.zip"

sudo apt-get install unzip

2 Unzip the file downloaded

unzip awscliv2.zip

3 Install AWS

sudo ./aws/install

4 Get the AWS version

/usr/local/bin/aws --version

Machine generated alternative text:
ubuntu@ip 
-172-31-38-97: 
creating: aws/dist/botocore/data/emr/2009-03-31/ 
inflating: 
aws /di st/botocore/data/emr / 2009-03-31/pagi nators -1. j son 
inflating: 
aws /di st/botocore/data/emr/2009-03-31/wai ters-2 . j son 
inflating: 
aws /di st/botocore/data/emr / 2009-03-31 [exampl es -1. j son 
inflating: 
aws /di st/botocore/data/emr/2009-03-31/servi ce-2 . j son 
creating: 
aws /di st/botocore/data/appl i cati on -autos cal i ng/2016-02 -06/ 
inflating: 
aws/di st/botocore/data/appl i cati on-autos cal i ng/2016-02-06/pagi nator 
s-l.json 
inflating: 
aws/di st/botocore/data/appl i cati on-autos cal i ng/2016-02-06/examp1 es- 
I.json 
inflating: 
aws/di st/botocore/data/appl i cati on-autos cal i ng/2016-02-06/servi ce-2 
• Json 
creating: 
aws /di st/botocore/data/cu r /2017-01-06/ 
inflating: 
aws /di st/botocore/data/cu r/ 2017 -01-06/pagi nators-l. j son 
inflating: 
aws /di st/botocore/data/cu r/ 2017 -01-06/examp1 es -1. j son 
inflating: 
aws /di st/botocore/data/cur/2017 -01-06/servi ce-2 . json 
creating: 
aws/di st/botocore/data/braket/2019 
-09-01/ 
inflating: 
aws /di st/botocore/data/braket/2019-09-01/pagi nators -1. j son 
inflating: 
aws/di st/botocore/data/braket/2019-09-01/servi ce-2 . json 
ubuntu@ip-172-31-38-97 : -S sudo ./aws/install 
[us r/ 1 ocal /bi n/aws 
you can now run: 
--versn on 
ubuntu@ip-172-31-38-97 : -S /usr/l ocal /bin/aws - 
-versi on 
aws-c1i/2.O.59 python/ 3.7.3 Linux/5.3.O-1035-aws exe/x86_64.ubuntu .18 

TASK 6: HOW TO SET THE IAM AWS USER CREDENTIALS

1 Run the command

aws configure

2 Enter the access key, secret access key and default region 3 View the details stored in credentials file cat ~/.aws/credentials

You can now run: /usr/local/bin/aws --version

ubuntu@ip-172-31-38-97:~$ /usr/local/bin/aws --version

aws-cli/2.0.59 Python/3.7.3 Linux/5.3.0-1035-aws exe/x86\_64.ubuntu.18

ubuntu@ip-172-31-38-97:~$ aws configure

AWS Access Key ID [None]: AKIAUNLLW2Q6QBAOQ2ED

AWS Secret Access Key [None]: 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

Default region name [None]: ap-south-1

Default output format [None]:

ubuntu@ip-172-31-38-97:~$ cat ~/.aws/credentials

[default]

Machine generated alternative text:
I.json 
inflating: 
• Json 
creating: 
inflating: 
inflating: 
inflating: 
creating: 
inflating: 
inflating: 
aws/di st/botocore/data/appl i cati on-autos cal i ng/2016-02-06/servi ce-2 
aws /di st/botocore/data/cu r /2017-01-06/ 
aws /di st/botocore/data/cu r/ 2017 -01-06/pagi nators -1. j son 
aws /di st/botocore/data/cu r/ 2017 -01-06/examp1 es -1. j son 
aws /di st/botocore/data/cu r/ 2017 -01-06/servi ce-2 . j son 
aws/di st/botocore/data/braket/2019 
-09-01/ 
aws /di st/botocore/data/braket/2019-09-01/pagi nators -1. j son 
aws/di st/botocore/data/braket/2019-09-01/servi ce-2 . json 
ubuntu@ip-172-31-38-97 : -S sudo ./aws/install 
you can now run: /usr/l ocal /bin/aws 
--versn on 
ubuntu@ip-172-31-38-97 : -S /usr/l ocal /bin/aws 
--versn on 
aws-c1i/2.O.59 python/ 3.7.3 Linux/5.3.O-1035-aws exe/x86_64.ubuntu .18 
ubuntu@ip-172-31-38-97 : -S aws configure 
Aws Access Key ID [None] : AKIAUNLLW2Q6QBAOQ2ED 
Aws secret Access Key [None) : 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 
Default region name [None): ap-south-l 
Default output format [None) : 
ubuntu@ip-172-31-38-97 : -S cat -/.aws/credentials 
[default) 
= AKIAUNLLW2Q6QBAOQ2ED 
= VGYAYJ5qRIPksnXkng1PEgHWX7tzowjJ9DtduFtR 
ubuntu@i p-172-31-38-97 : -S 

TASK 7: HOW TO CREATE A CLOUDFORMATION STACK THAT CREATES A S3 BUCKET

1 Clone the repository and view the

template file in 7\_S3.

git clone <https://github.com/AnjuMeleth/DevOpsMasterAWS.git>

2 Create the stack

aws cloudformation create-stack --stack-name ourthirdinfra --template-body [file://s3.yml](file:///\\s3.yml)

3 View the stack created

4 View the S3 bucket that gets created

Machine generated alternative text:
aws 
Services 
test @ 3035-5795-6669 v 
Global V 
Support 
Q 
Search for buckets 
Amazon S3 
Buckets 
Batch operations 
Access analyzer for 
Block public access 
(account settings) 
Feature spotlight O 
+ Create bucket 
Bucket name 
Edit public access settings 
Empty 
Delete 
Access O 
All access types 
2 
Buckets 
Region 
Asia Pacific 
1 
cf-templates-z341w8br3y00-ap-south-1 
ourthirdinfra-firsts3-1 ez0xtludwtfv 
Objects can be public 
(Mumbai) 
Asia Pacific 
Objects can be public 
(Mumbai) 
Regions 
Date created 
Oct 24, 2020 
PM 
GMT+0530 
Oct 24, 2020 
PM 
GMT+0530 

TASK 8:HOW TO CREATE A STACK THAT CREATES AN EC2 INSTANCE

1 Go to folder 8\_ec2 to view the file

vi ec2.yml

2 Apply the stack to the AWS

aws cloudformation create-stack --stack-name ourfourthinfra --region ap-south-1 --template-body [file://ec2.yml](file:///\\ec2.yml)

3 View the stack created

4 View the Ec2 instance created

Machine generated alternative text:
services 
Mumb V 
CloudFormation 
Stacks 
Stacks (3) 
@ CREATE_COMPLETE 
@ CREATE_COMPLETE 
@ CREATE_COMPLETE 
Support v 
Status 
Delete 
Created time 
Update 
Active 
Stack actions v 
v O View nested 
Description 
Create stack v 
Q 
Filter by stack name 
O 
O 
O 
Stack name 
ourfourthinfra 
ourthirdinfra 
Lampstack 
2020-10-24 20:35:18 UTC+0530 
2020-10-24 UTC+0530 
2020-10-24 19:43:38 UTC+0530 
Anju M Dominic /Create an Ec2 instance 
Anju M Dominic / Create S3 bucket 
AWS CloudFormation Sample Template... 

Machine generated alternative text:
aws 
Services v 
New EC2 Experience 
x 
Tell us what you think 
EC2 Dashboard New 
Events 
New 
Tags 
Limits 
Instances 
Instances New 
Instance Types 
Launch Templates 
(3) Info 
Instances 
Q 
Filter instances 
Name 
Instance ID 
i-01d96f034d68727af 
i-Of6ac68d9bac70f51 
i-Oadfb71c4115340b7 
Instance state v 
@ Running 
@ Running 
@ Running 
Instance type 
t2.micro 
t2.small 
t2.micro 
test @ 3035-5795-6669 
Actions v 
Status check 
@ 2/2 checks 
@ 2/2 checks 
@ Initializing 
v Mumbai V Support v 
Launch instances 
Alarm Status 
No alarms + 
No alarms + 
No alarms + 
Av; 
ap- 
ap- 
ap- 

TASK 9: HOW TO UPDATE A CLOUD FORMATION STACK

TASK 9: HOW TO UPDATE A CLOUD FORMATION STACK

1 Go to folder 9\_update and viewthe file

vi ec2.yml

2 Update the stack

aws cloudformation update-stack --stack-name ourfourthinfra --template-body [file://ec2.yml](file:///\\ec2.yml)

3 View the stack getting updated

4 View the new Ec2 instance created

Machine generated alternative text:
O New EC2 Experience 
x 
Tell us what you think 
EC2 Dashboard New 
Events 
New 
Tags 
Limits 
v Instances 
Instances New 
Instance Types 
Launch Templates 
(4) Info 
Instances 
Q 
Filter instances 
Name 
Instance ID 
i-01d96f034d68727af 
i-Of6ac68d9bac70f51 
i-Oadfb71c4115340b7 
i-Oea8cb5f2aea60cb1 
Instance state v 
@ Running 
@ Running 
e Termina... QQ 
@ Running 
Instance type 
t2.micro 
t2.small 
t2.micro 
t2.micro 
Actions 
Status check 
@ 2/2 checks 
@ 2/2 checks 
@ Initializing 
Launch instances 
Alarm Status 
No alarms + 
No alarms + 
No alarms + 
No alarms + 
Av; 
ap- 
ap- 
ap- 
ap- 

TASK 10: HOW TO DELETE A CLOUD FORMATION STACK

1 Delete the stack

aws cloudformation delete-stack --stack-name ourfourthinfra

2 View the stack getting deleted

3 View the new Ec2 instance got

deleted

Machine generated alternative text:
CloudFormation 
Stacks 
Stacks (3) 
Q 
Filter by stack name 
@ CREATE_COMPLETE 
@ CREATE_COMPLETE 
Status 
Delete 
Created time 
Update 
Active 
Stack actions v 
v O View nested 
Description 
Create stack v 
O 
O 
O 
Stack name 
ourfourthinfra 
ourthirdinfra 
Lampstack 
2020-10-24 20:35:18 UTC+0530 
2020-10-24 UTC+0530 
2020-10-24 19:43:38 UTC+0530 
Anju M Dominic /Create an Ec2 instance 
Anju M Dominic / Create S3 bucket 
AWS CloudFormation Sample Template... 

Machine generated alternative text:
aws 
Services v 
O New EC2 Experience 
x 
Tell us what you think 
EC2 Dashboard New 
Events 
New 
Tags 
Limits 
v Instances 
Instances New 
Instance Types 
(4) Info 
Instances 
Q 
Filter instances 
Name 
Instance ID 
i-01d96f034d68727af 
i-Of6ac68d9bac70f51 
i-Oadfb71c4115340b7 
i-Oea8cb5f2aea60cb1 
Instance state v 
@ Running 
@ Running 
e Termina... 
e Termina... QQ 
Instance type 
t2.micro 
t2.small 
t2.micro 
t2.micro 
test @ 3035-5795-6669 
Actions v 
Status check 
@ 2/2 checks 
@ 2/2 checks 
v Mumbai V Support v 
Launch instances 
Alarm Status 
No alarms 
No alarms 
No alarms 
No alarms 
ap- 
ap- 
ap- 
ap- 

TASK 11: HOW TO BRING UP A PRODUCTION SERVER

TASK 11: HOW TO BRING UP A PRODUCTION SERVER

1 Create the stack

aws cloudformation create-stack --stack-name ourfifthinfra --template-body [file://petclinic.yml](file:///\\petclinic.yml)

// chege VPC vpc-fa3adb91 9our VPC code)

2 View the stack getting created

3 View the new Ec2 instance created

4 Petclinic application accessible at

port 8085 in newly created server

5 Delete the stack

aws cloudformation delete-stack --stack-name ourfifthinfra

Machine generated alternative text:
CloudFormation 
Stacks (3) 
Stacks 
Delete 
Created time 
Update 
Active 
Stack actions v 
v O View nested 
Description 
Create stack v 
Q 
Filter by stack name 
O 
O 
O 
Stack name 
ourfifthinfra 
ourthirdinfra 
Lampstack 
Status 
@ ROLLBACK_COMPLETE 
@ CREATE_COMPLETE 
@ CREATE_COMPLETE 
2020-10-24 20:59:22 UTC+0530 
2020-10-24 UTC+0530 
2020-10-24 19:43:38 UTC+0530 
Anju M Dominic / petclinic application 
Anju M Dominic / Create S3 bucket 
AWS CloudFormation Sample Template... 

Error was

// chege VPC vpc-fa3adb91 in confic YML file we need to change our VPC ID under resource.

Machine generated alternative text:
O 
O 
Q 
Filter by stack name 
@ CREATE_COMPLETE 
Active 
Stack name 
ourfifthinfra 
ourthirdinfra 
Status 
Created time 
2020-10-24 UTC+0530 
2020-10-24 UTC+0530 
View nested 
Description 
Anju M Dominic / petclinic application 
Anju M Dominic / Create S3 bucket 

Machine generated alternative text:
Experience 
x 
•at you think 
board New 
New 
(5) Info 
Instances 
Q 
Filter instances 
Name 
Instance ID 
i-01d96f034d68727af 
i-Of6ac68d9bac70f51 
i-Obfdd3aOe 18aOb8a8 
i-Oadfb71 c4115340b7 
Instance state A 
@ Running 
@ Running 
@ Running 
G) Termina... 
Instance type 
t2.micro 
t2.small 
t2.micro 
t2.micro 
Actions 
Status check 
@ 2/2 checks 
@ 2/2 checks 
@ 2/2 checks 
Launch instances 
Alarm Status 
No alarms 
No alarms 
No alarms 
No alarms 
ap 
ap 
ap 

Machine generated alternative text:
C A Not secure I 
15.207.247.1748085 
Apps 
server 
Imported From IE 
Imported 
DevApp 
Bookmarks bar 
W 
Home - Workday 
HOME 
e DXC-CATW 
Q FIND OWNERS 
spring 
Welcome 
VETERINARIANS 
A ERROR 
spring 

Machine generated alternative text:
CloudFormation 
Stacks 
Stacks (3) 
Q 
Filter by stack name 
@ CREATE_COMPLETE 
@ CREATE_COMPLETE 
Status 
Delete 
Created time 
Update 
Active 
Stack actions v 
v O View nested 
Description 
Create stack v 
O 
O 
O 
Stack name 
ourfifthinfra 
ourthirdinfra 
Lampstack 
2020-10-24 UTC+0530 
2020-10-24 UTC+0530 
2020-10-24 19:43:38 UTC+0530 
Anju M Dominic / petclinic application 
Anju M Dominic / Create S3 bucket 
AWS CloudFormation Sample Template... 

Machine generated alternative text:
(5) Info 
Instances 
Q 
Filter instances 
Name 
Instance ID 
i-01d96f034d68727af 
i-Of6ac68d9bac70f51 
i-Oadfb71c4115340b7 
i-Oea8cb5f2aea60cb1 
Instance state A 
@ Running 
@ Running 
e Termina... QQ 
G) Termina... 
Instance type 
t2.micro 
t2.small 
t2.micro 
t2.micro 
Actions 
Status check 
@ 2/2 checks 
@ 2/2 checks 
Launch instances 
Alarm Status 
No alarms 
No alarms 
No alarms 
No alarms 
AVG 
ap- 
ap- 
ap- 