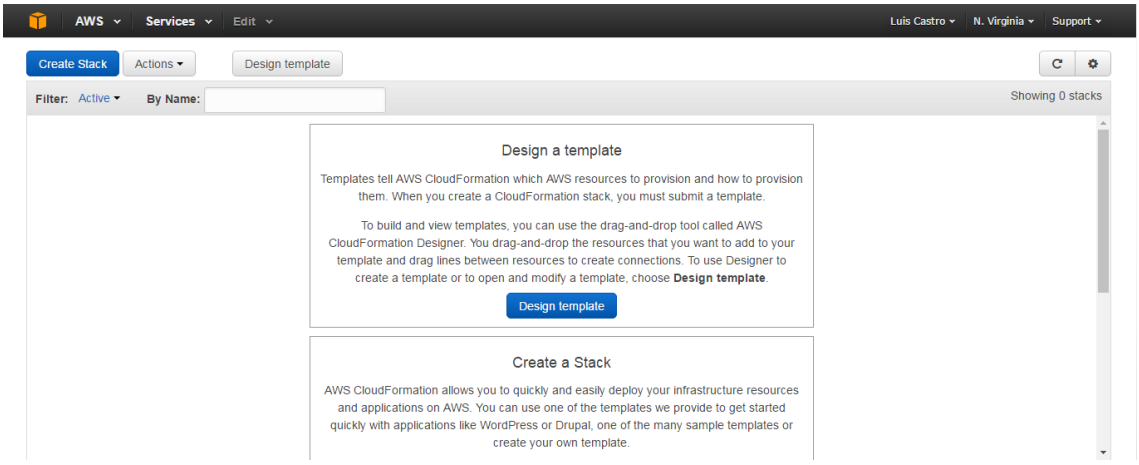
Step 1

Access the AWS console through the following link:

https://450006219561.signin.aws.amazon.com/console

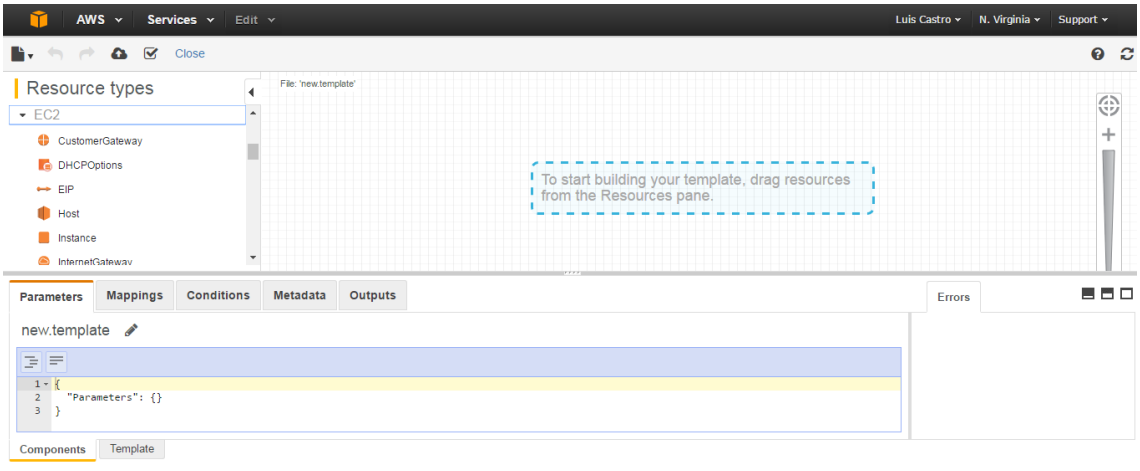
Step 2

Enter the CloudFormation service and choose Design Template



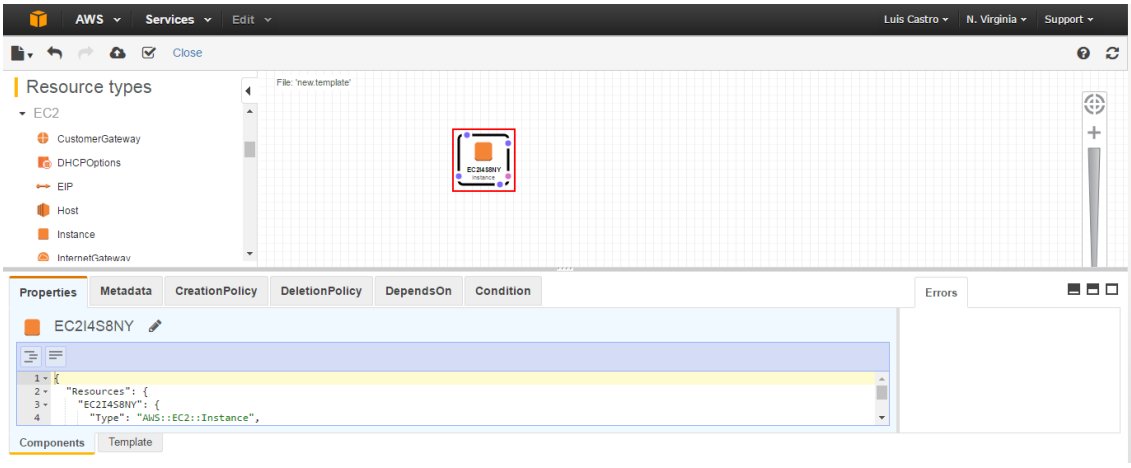
Step 3

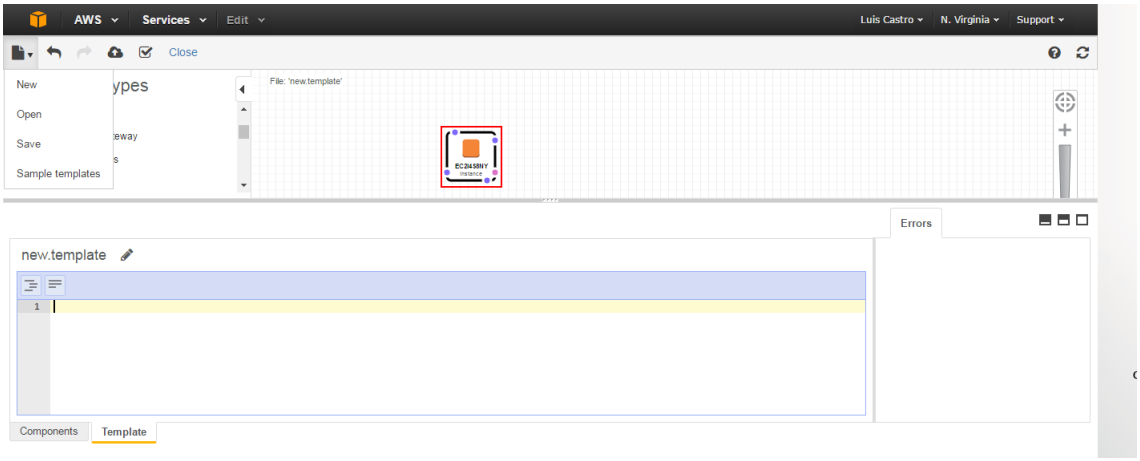
Within Resource Type choose EC2> Instance and drag the icon to the panel



Step 4

Mark the instance and in the menu below in Properties select Template and delete the existing template



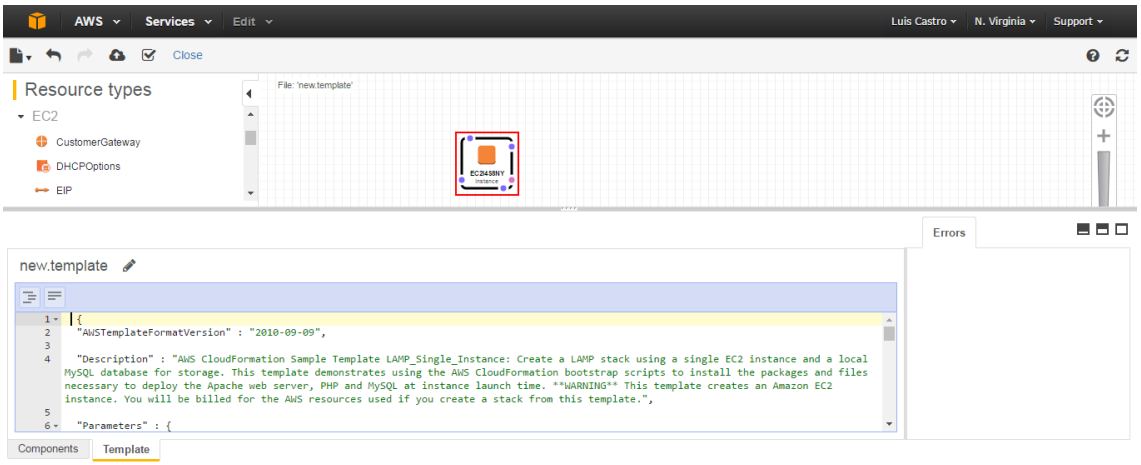


Step 5

From the file sent by mail use the call:

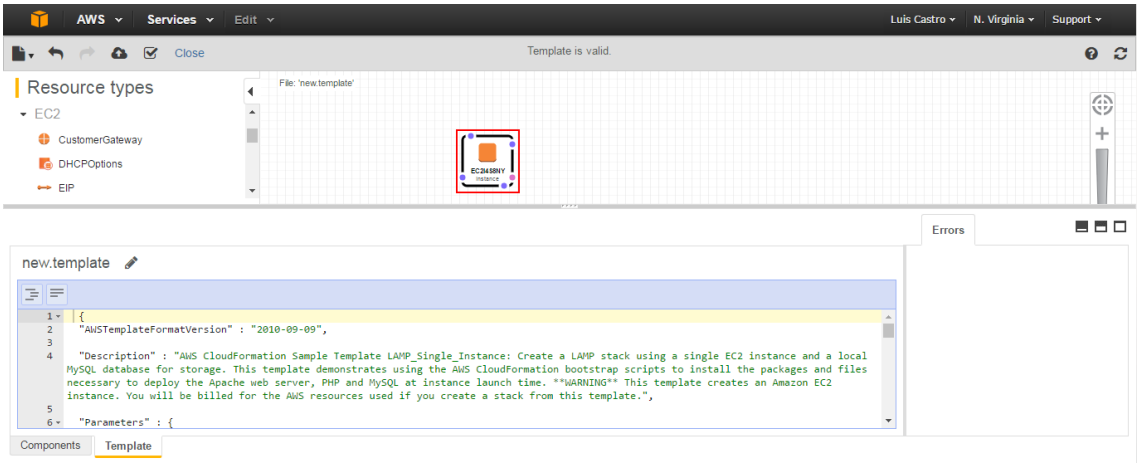
- **EC2_SG.json**

Copy the code and paste it back into the Template field



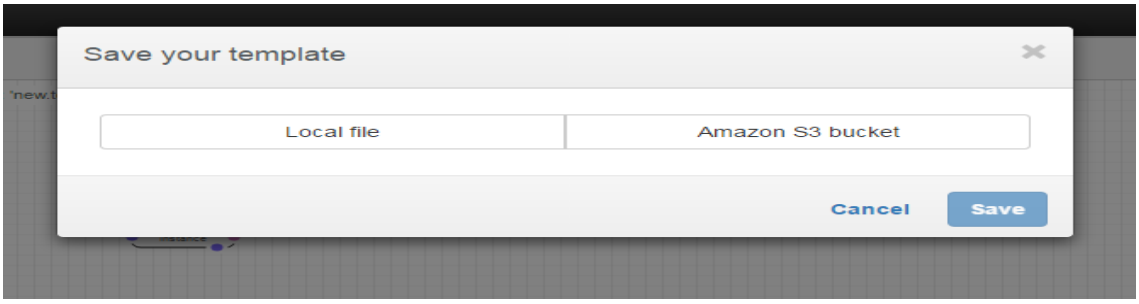
Step 6

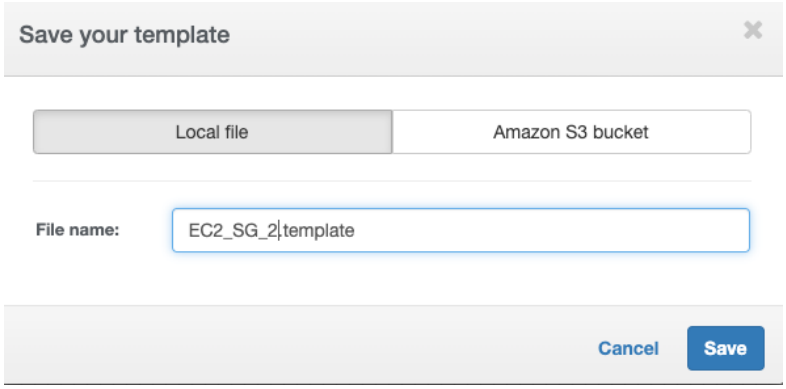
Click on the Check found in the main bar "Validate Template" and wait for the Template validation to run until "Template is Valid" appears



Step 7

In the main menu click on the icon in the form of a leaf and enter save to save the template with the name EC2_SG_2.json

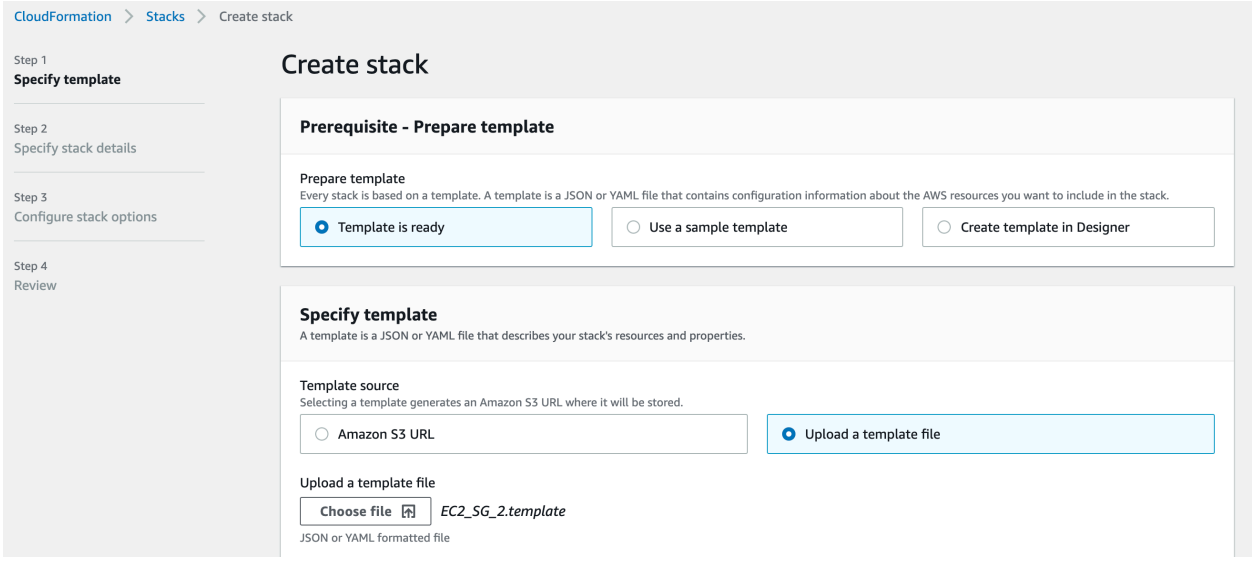




Step **8**

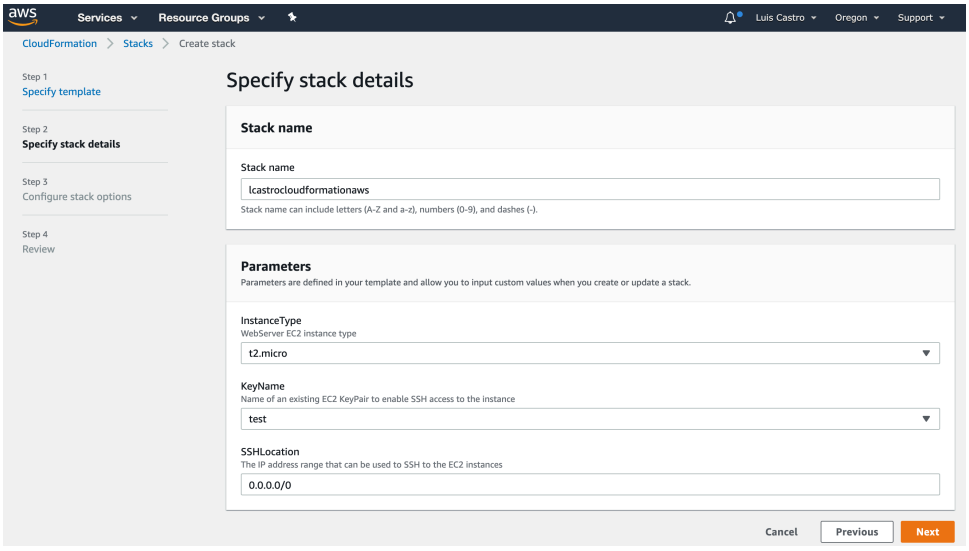
Click on the cloud icon in the main bar called Create Stack

Find the previously created file EC2_SG_2.template and click Next.



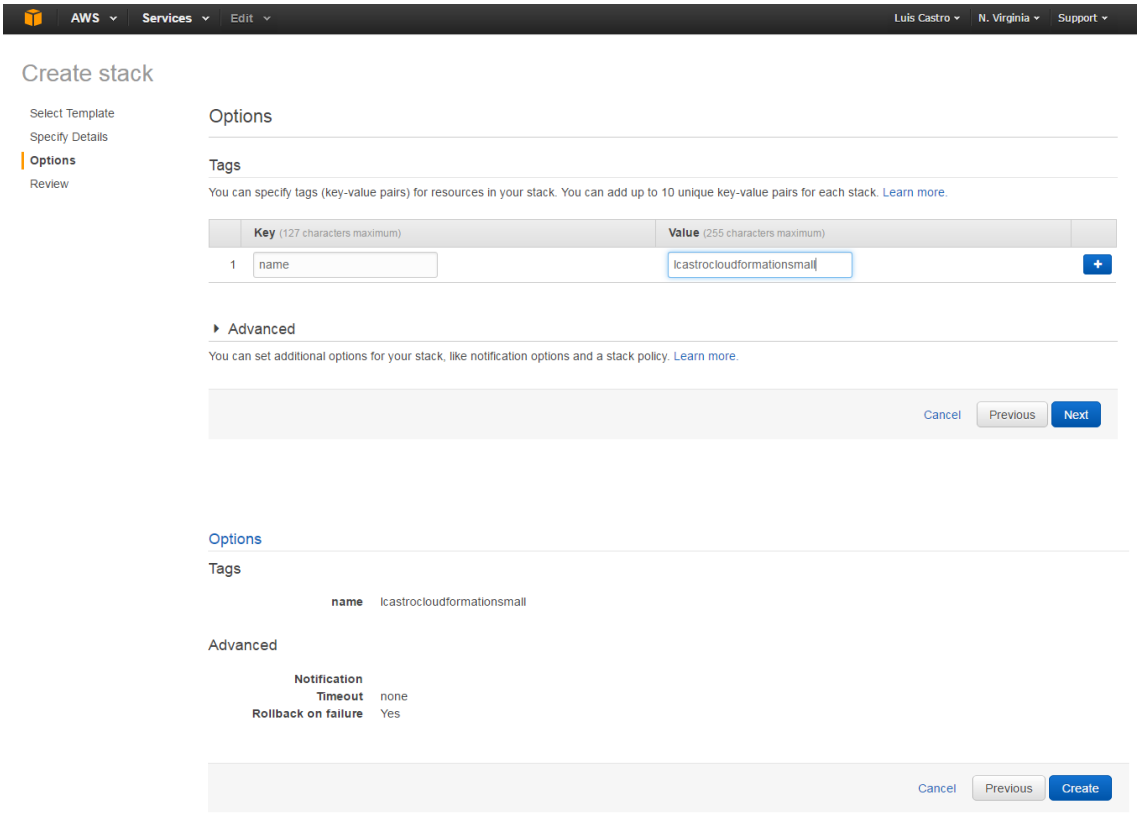
Step 9

- **Stack Name**
    - Username + cloudformationaws
        - **Ex: lcastrocloudformationaws**
- **Instance Type**
    - T2.small (Verify that by default the selected instance is T2.small and change it to t2.micro)
- **KeyName**
    - The SSH key used in the previous lab



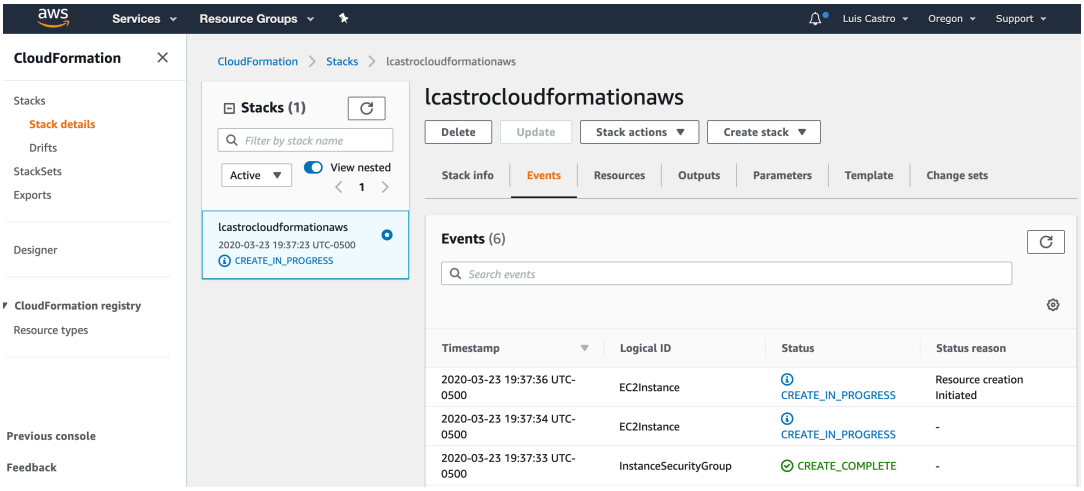
Step 10

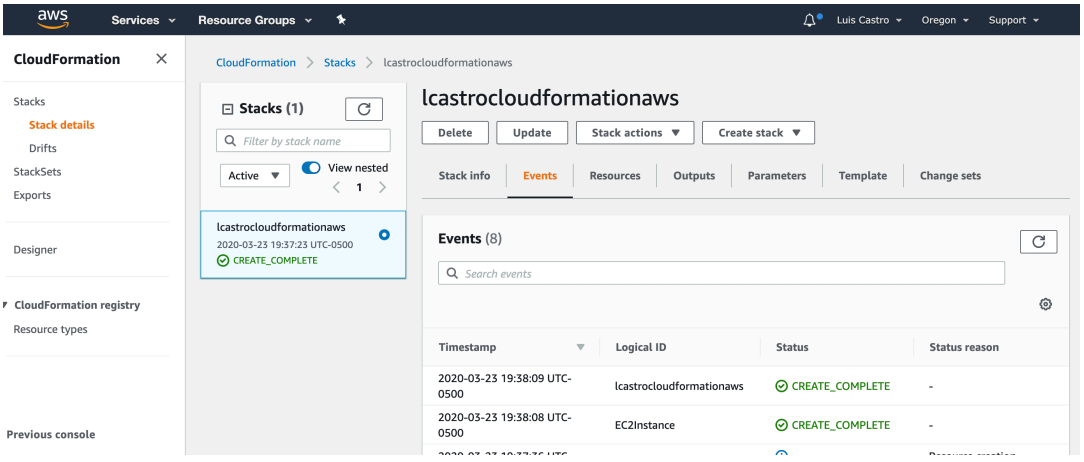
- **Key**
    - Name
- **Value**
    - username + cloudformationsmall
        - Ex: lcastrocloudformationsmall
- **Create**

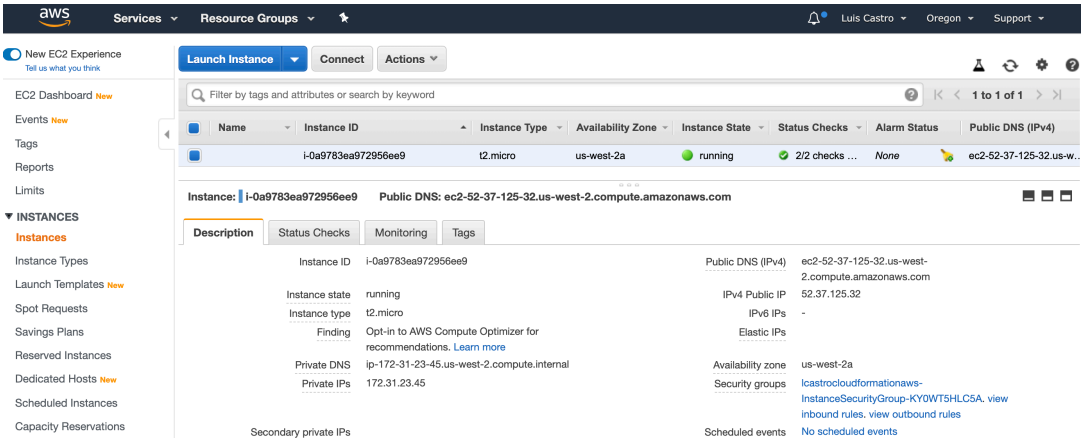


Step 11

- Validate that the stack is being created and that an EC2 machine is being created







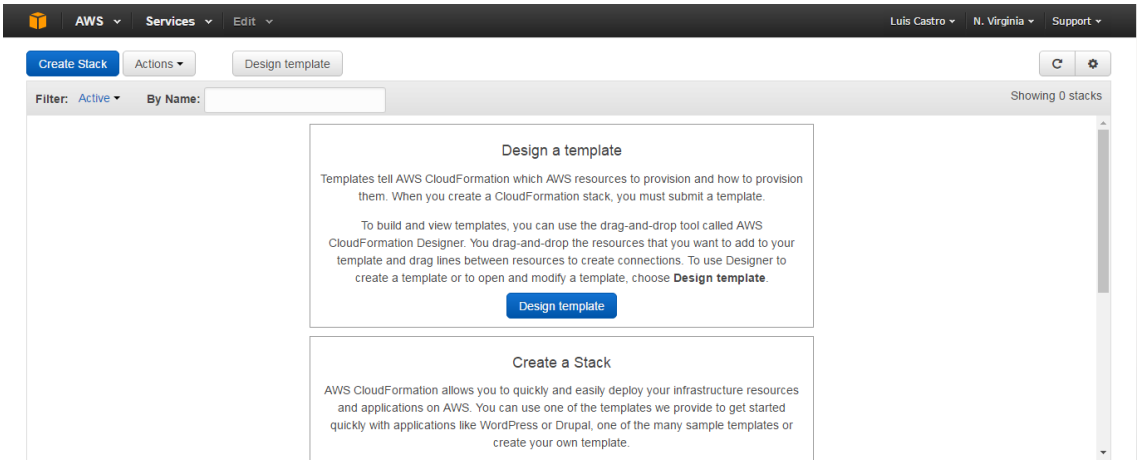
Step 12

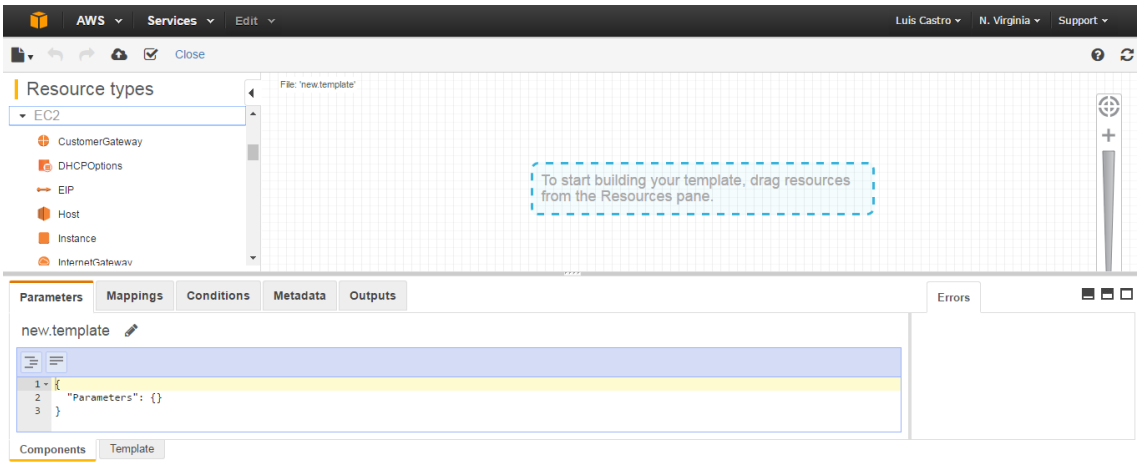
- **Find the previously created file called:**
    - **EC2_SG_2**
- Open the file and modify the default value of the machine from T2.Small to T2.Micro as follows:
    - **“Default”: t2.micro**

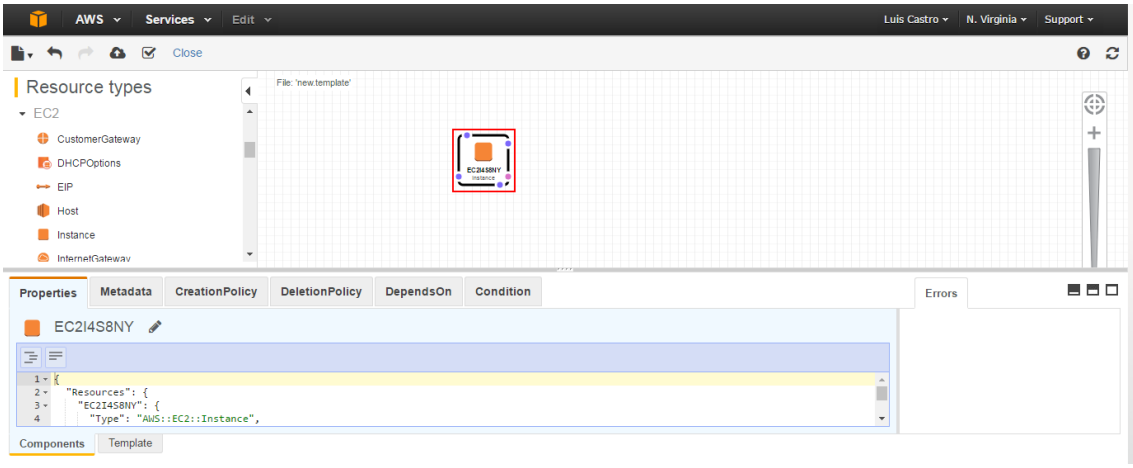
```
"Type" : "String",

"Default" : "t2.micro",

"AllowedValues" : [ "t1.micro", "t2.nano", "t2.micro", "t2.small", "t2.medium", "t2.large",
"m1.small", "m1.medium", "m1.large", "m1.xlarge", "m2.xlarge", "m2.2xlarge", "m2.4xlarge",
"m3.medium", "m3.large", "m3.xlarge", "m3.2xlarge", "m4.large", "m4.xlarge", "m4.2xlarge",
"m4.4xlarge", "m4.10xlarge", "c1.medium", "c1.xlarge", "c3.large", "c3.xlarge", "c3.2xlarge",
"c3.4xlarge", "c3.8xlarge", "c4.large", "c4.xlarge", "c4.2xlarge", "c4.4xlarge", "c4.8xlarge",
"g2.2xlarge", "g2.8xlarge", "r3.large", "r3.xlarge", "r3.2xlarge", "r3.4xlarge", "r3.8xlarge",
"i2.xlarge", "i2.2xlarge", "i2.4xlarge", "i2.8xlarge", "d2.xlarge", "d2.2xlarge", "d2.4xlarge",
"d2.8xlarge", "hi1.4xlarge", "hs1.8xlarge", "cr1.8xlarge", "cc2.8xlarge", "cg1.4xlarge"]
```

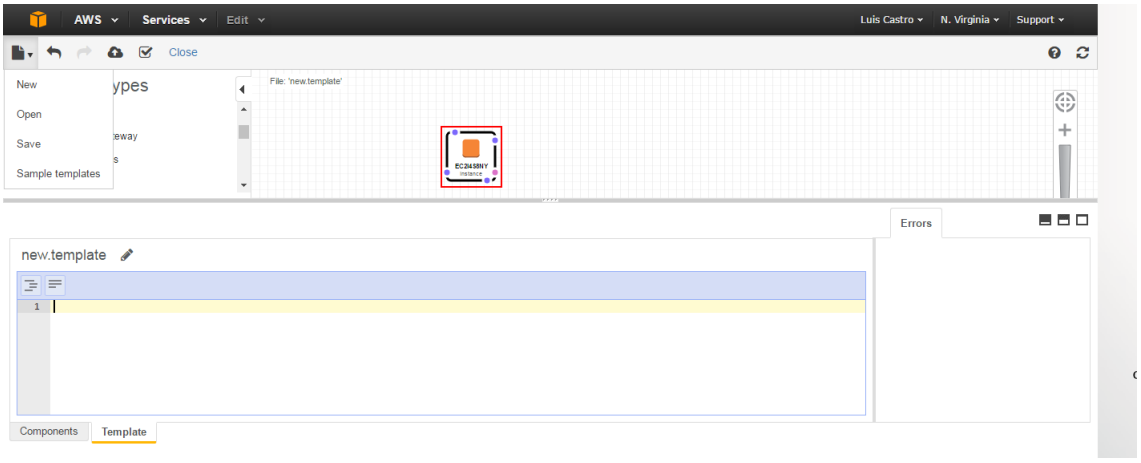
Step 13

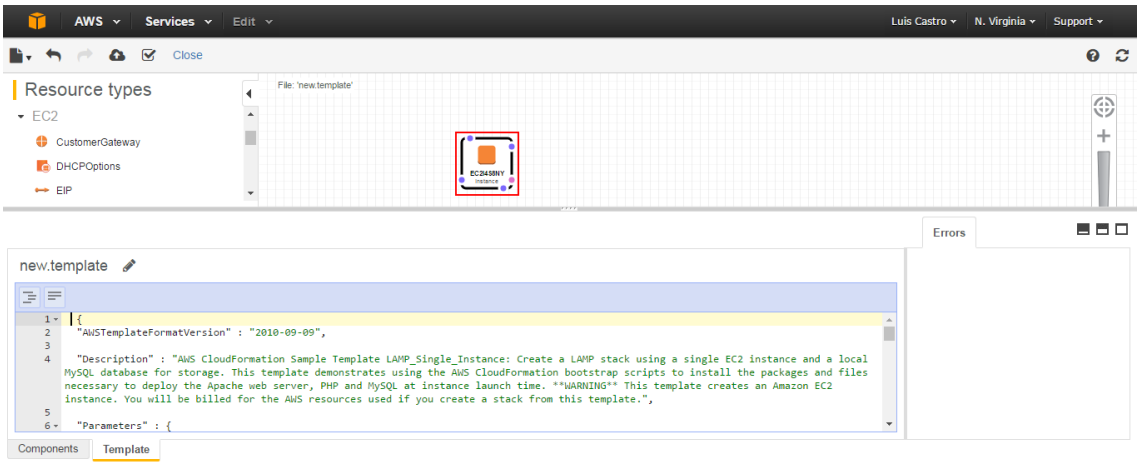
- Log into CloudFormation again and choose Design template
- Choose an instance again
- Delete the default template and copy the new template with the change of T2.Micro




AWS
Services
Edit
Luis Castro
N. Virginia
Support
Close
Resource types
EC2
CustomerGateway
DHCPOptions
EIP
Host
Instance
InternetGateway
File: 'new.template'
To start building your template, drag resources from the Resources pane.
Parameters
Mappings
Conditions
Metadata
Outputs
Errors
new.template
{
"Parameters": {}
}
Components
Template

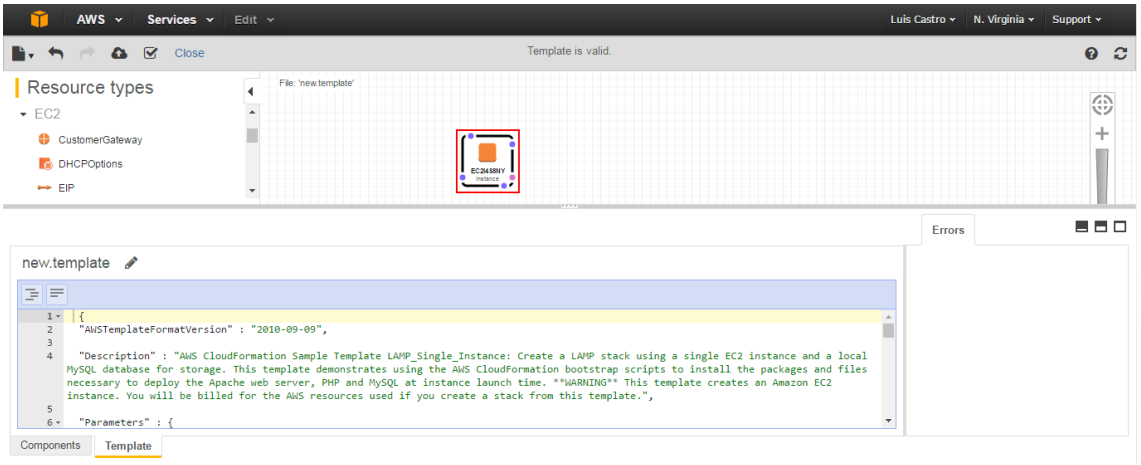

AWS
Services
Edit
Luis Castro
N. Virginia
Support
Close
Resource types
EC2
CustomerGateway
DHCPOptions
EIP
Host
Instance
InternetGateway
File: 'new.template'
EC2I4S8NY
instance
Properties
Metadata
CreationPolicy
DeletionPolicy
DependsOn
Condition
Errors
EC2I4S8NY
{
"Resources": {
"EC2I4S8NY": {
"Type": "AWS::EC2::Instance",
Components
Template


AWS
Services
Edit
Luis Castro
N. Virginia
Support
Close
New
Open
Save
Sample templates
File: 'new.template'
EC2I4S8NY
instance
Errors
new.template
Components
Template

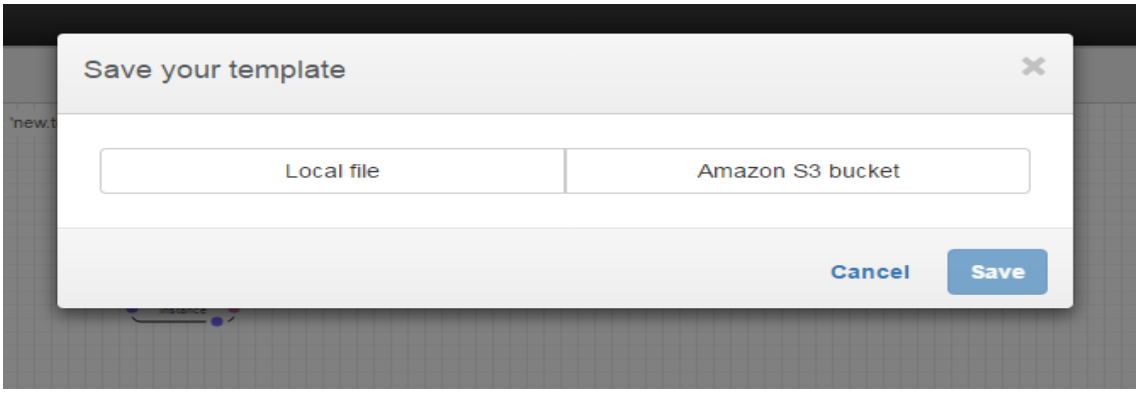


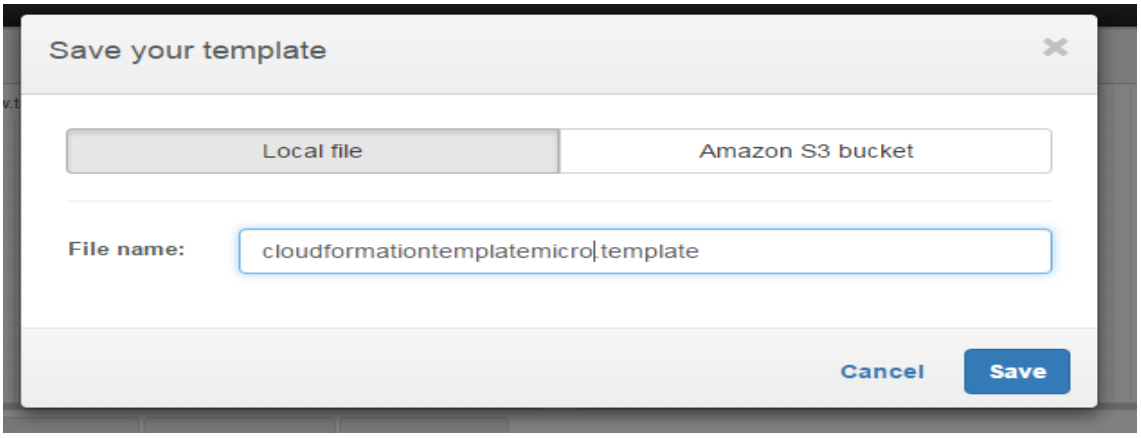
Step 14

- Validate that the template is valid



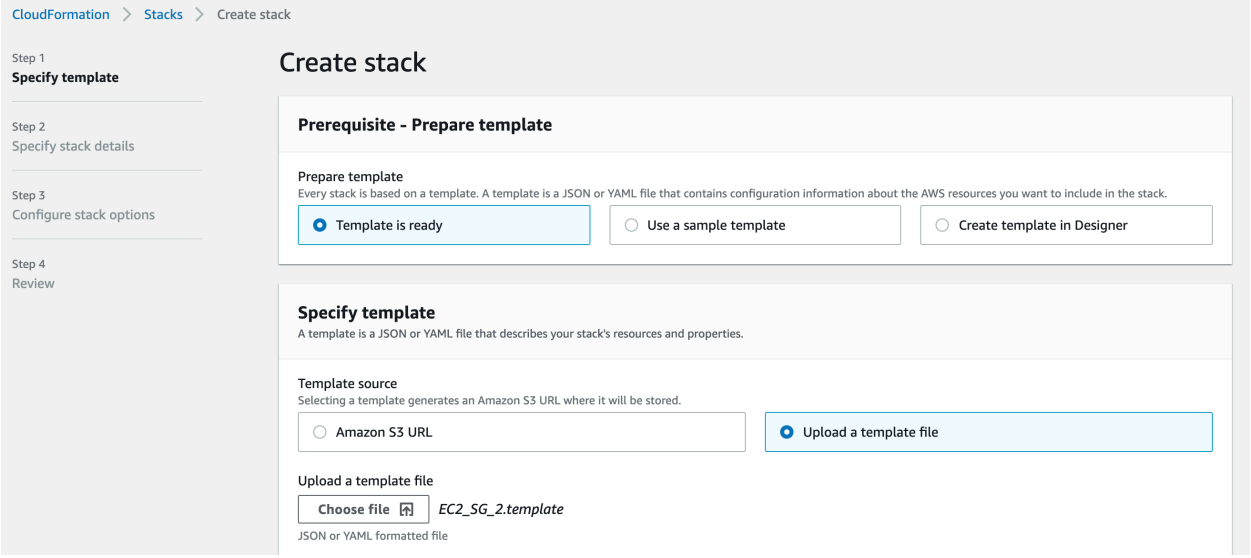
- Save template as:
    - **Cloudformationtemplatemicro**





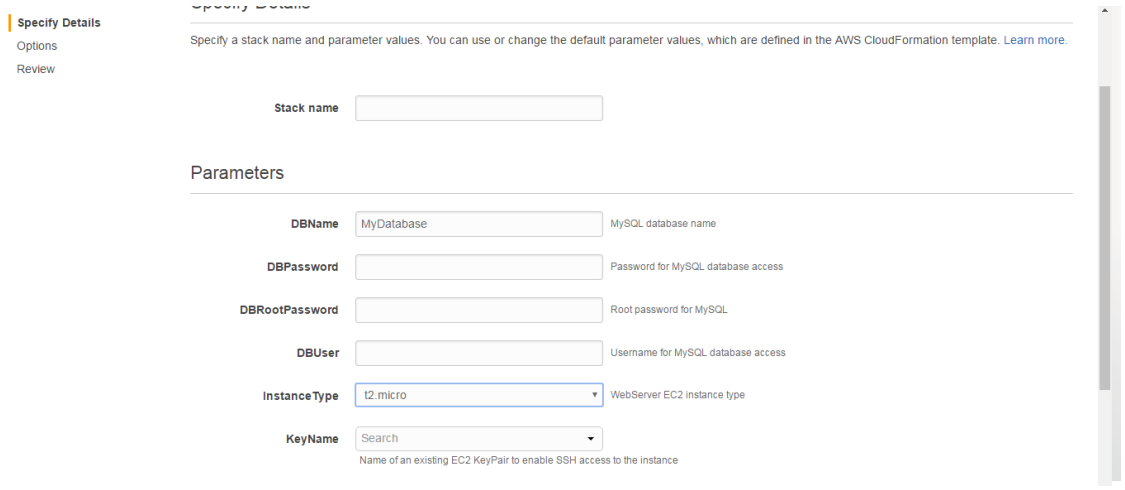
Step 15

- Create a stack and select the new template
    - **Cloudformationtemplatemicro**



Step 16

- Verify that the Instance Type parameter has the default value
    - **T2.Micro**



Step 17

- Terminate both created EC2s by removing the created Stacks.