# WEEK 4 ASSIGNMENT 3

**Large-Scale Data Storage Systems – DATA-5400 | Spring 2020**

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For this assignment on using automation to create and delete VMs, I chose option 2, AWS CloudFormation. AWS CloudFormation is a service in AWS which allows you to automate the infrastructure and application deployments.

To create a LinuxVM using the CloudFormation service, I navigated to the Designer in the left-hand panel and further selected EC2. Next, I dragged an EC2 instance to the designer drawing board.
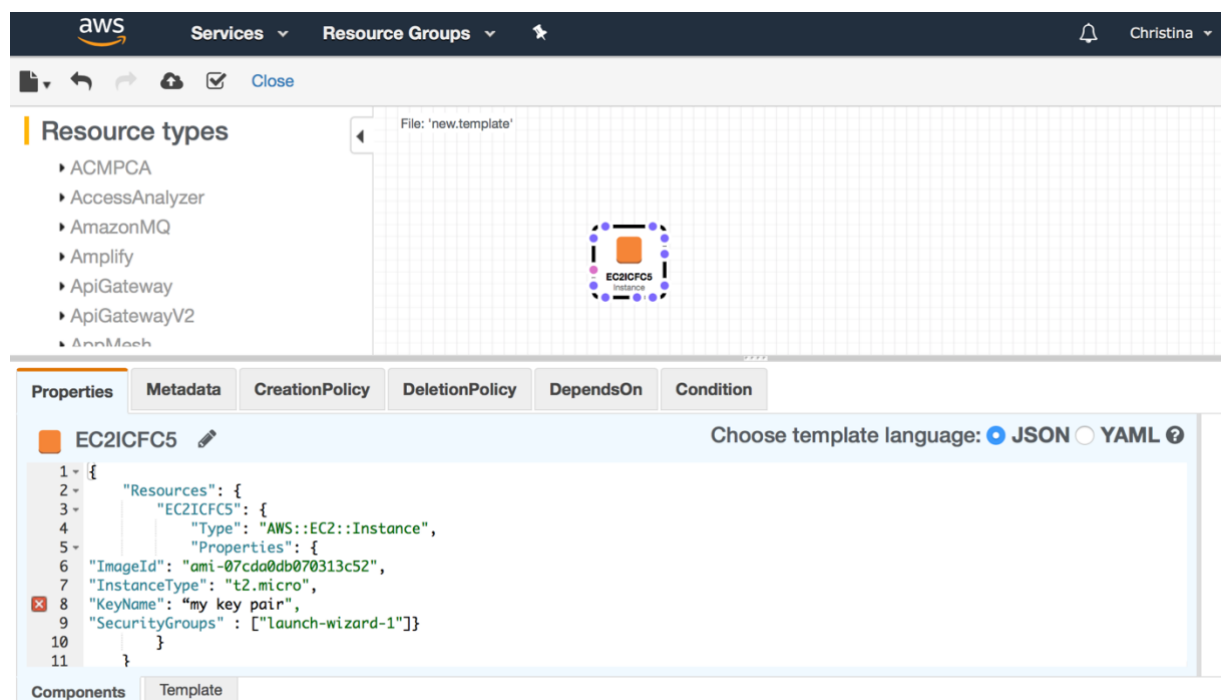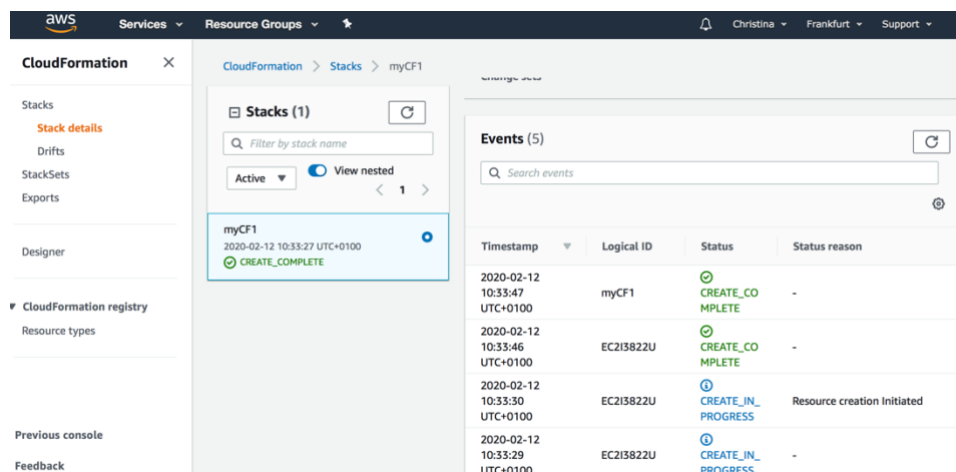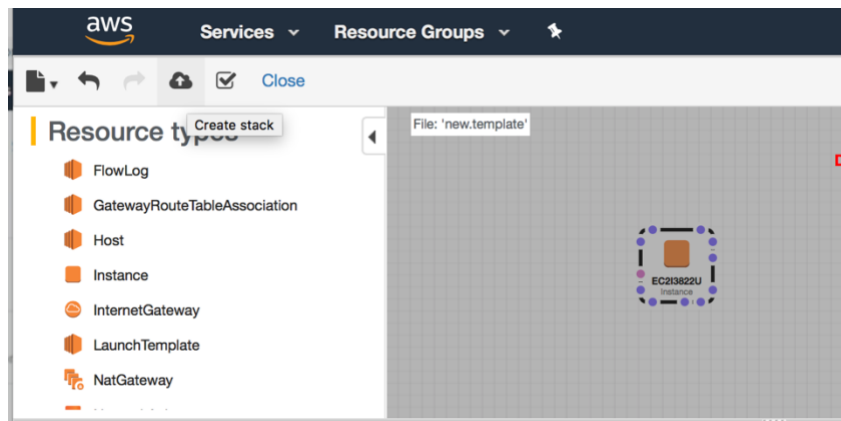

To specify the VM, I amended the "Properties" section of the JSON template. The information of ImageId, KeyName and SecurityGroups was taken from the previously generated VM under EC2 "MyLinuxVM1". I used the Atom editor to copy and paste the required sections in the correct format.
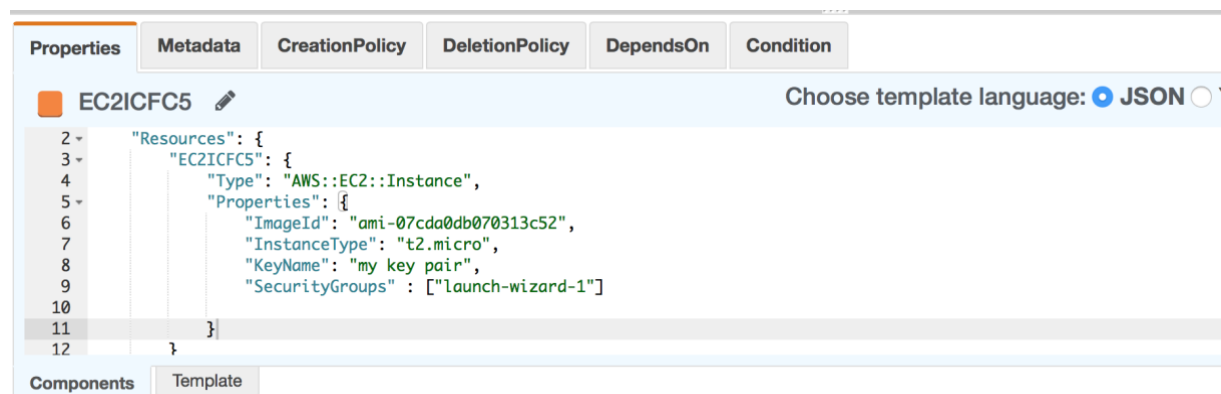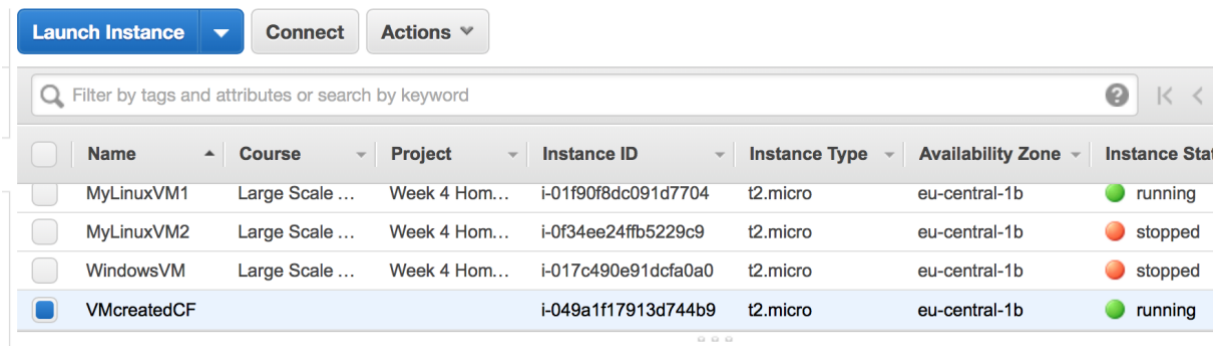
Next, the template was validated and confirmed valid.
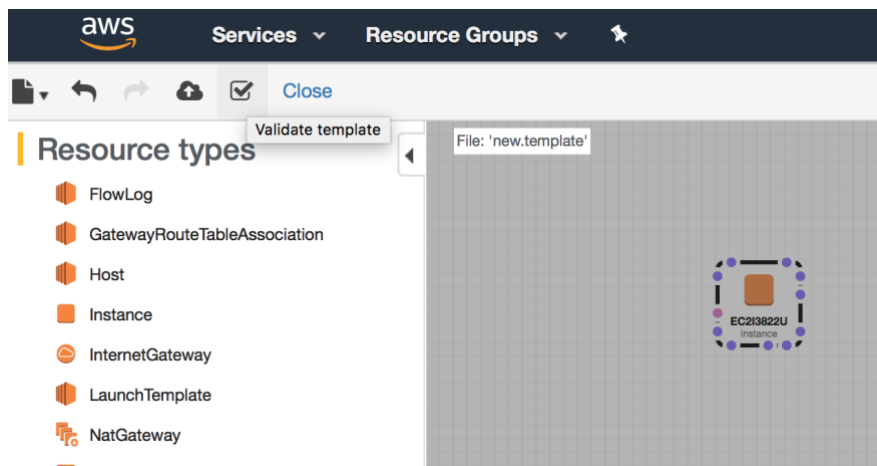
After generating a stack, "MyCF1", the VM was up and running.

The newly created VM is renamed to "VMcreatedCF" in the EC2 console window.

Connecting to the VM "VMcreatedCF" was confirmed using the Terminal and connecting via SSH.
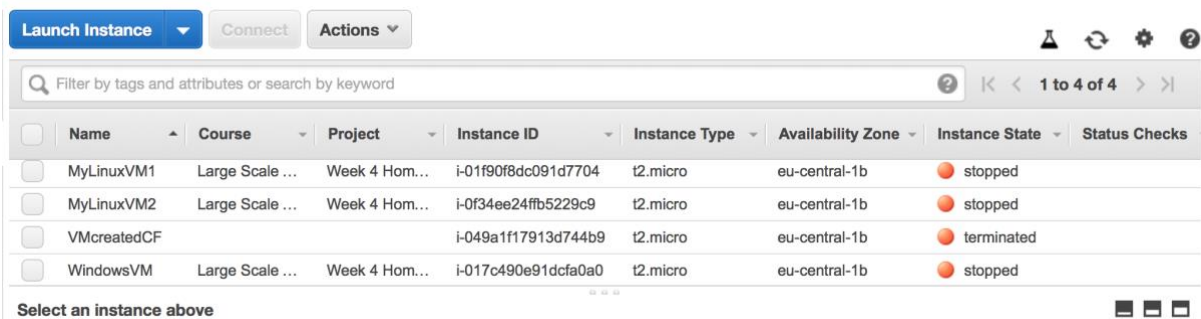
To remove the VM, I deleted the stack in the CloudFormation window.

And confirmed termination of the VM "VMcreatedCF" in the EC2 section.