## JichenDai CS 524 Lab #4

#### **Step1**: Create a stack

1. Choose a template sample from this website:

 $\underline{https://docs.aws.amazon.com/zh\_cn/AWSCloudFormation/latest/UserGuide/sample-templates-services-us-west-2.html \#w1ab2c21c45c15c15}$ 

I choose Load-based auto scaling

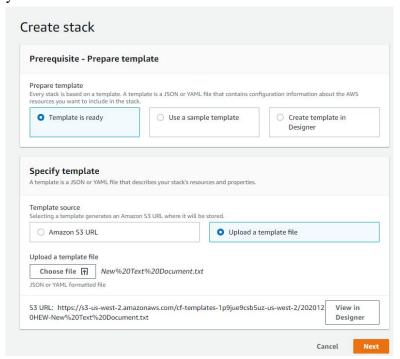
# **Auto Scaling**



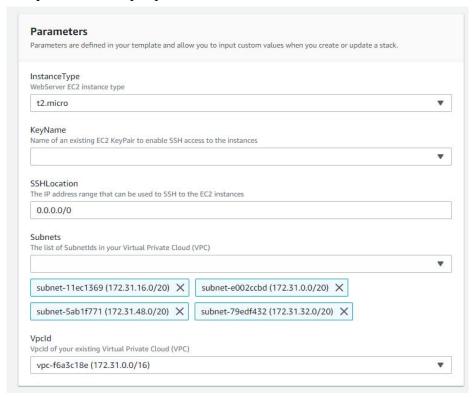
- 2. Modify the template text, set InstanceType to "t2.micro", set key to my own key "Lab2Key", set WebServerGroup: MinSize = 4, MaxSize = 4.
- 3.Record the path to **index.html**: /var/www/html/index.html

## **Step2:** Create a stack

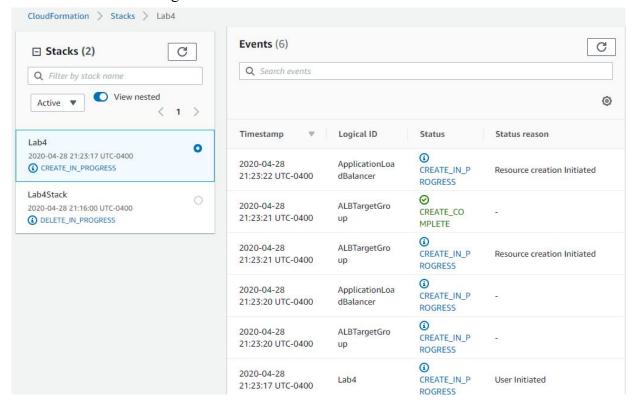
1. Click on "launch stack", choose "template is ready", "Update a template file", Then upload your text.



2. Input "name", input parameters.



3. click next for two times and click Create Stack. We finished constructing the stack.



4. Now if we go to EC2, we will see our 4 instances.

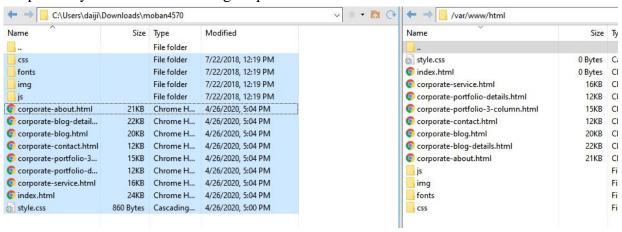


## Step3: Modify index.html

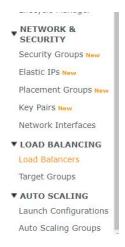
1. Connect to a instance and modify the index.html

```
Complete!
[ec2-user@ip-172-31-31-177 ~]$ cd var/www
-bash: cd: var/www: No such file or directory
[ec2-user@ip-172-31-31-177 ~]$ cd /var/www
[ec2-user@ip-172-31-31-177 www]$ sudo chmod 777 html
[ec2-user@ip-172-31-31-177 www]$ ls
cgi-bin error html icons
[ec2-user@ip-172-31-31-177 www]$ [
```

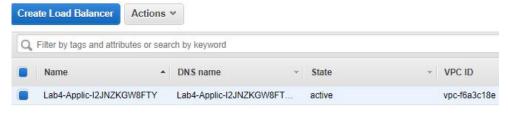
2. upload my own index.html using Xftp



- 3. Do same things on the other three instances.
- 4. Click on load balancer in EC2, we will see our load balancer.

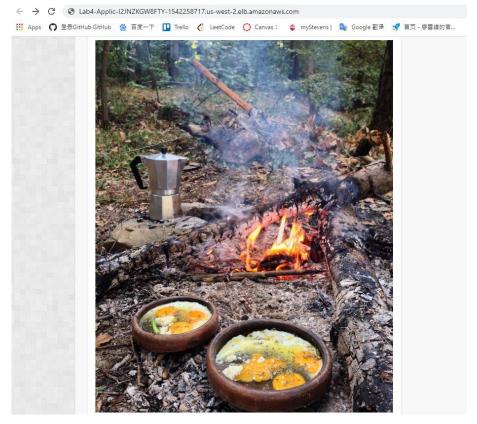


#### 5. copy the DSN of our load balancer, .





#### 6.Copy DSN of load balancer to a browser, we will be able to see **four same pages like this**.



## **My Observation:**

As we can see, Cloud Formation give us a very convenient way to construct what we need. When the template document is already written, we can finish constructing who system in only a few minutes.

Additionally, I also noticed that the load balancer provided by Amazon EC2 is really useful. I don't need to construct balancer by myself anymore ( compare to Lab#2 ).