

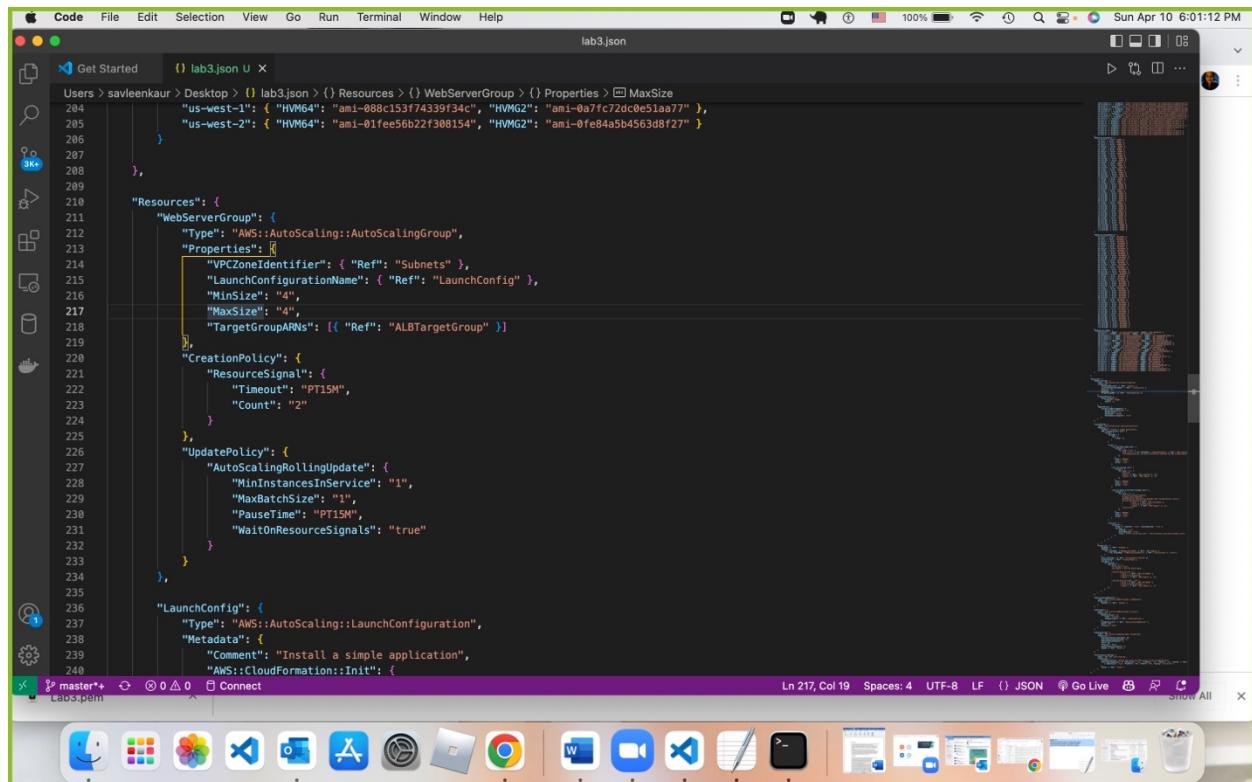
Lab 3- CS 524

Instance type- I am creating t2.micro instance type as it is free tier.

Key name- Providing the existing keypair which I have created in EC2 console for lab2 and I will refer to this keypair for all my work throughout the lab

```
{  
  "AWSTemplateFormatVersion" : "2010-09-09",  
  
  "Description" : "AWS CloudFormation Sample Template AutoScalingKeepAtNSample: Create a load balanced, Auto Scaled sample website. This example creates an Auto Scaling group behind a load balancer with a simple health check. **WARNING** This template creates one or more Amazon EC2 instances and an Application Load Balancer. You will be billed for the AWS resources used if you create a stack from this template.",  
  
  "Parameters" : {  
    "VpcId" : {  
      "Type" : "AWS::EC2::VPC::Id",  
      "Description" : "VpcId of your existing Virtual Private Cloud (VPC)",  
      "ConstraintDescription" : "must be the VPC Id of an existing Virtual Private Cloud."  
    },  
  
    "Subnets" : {  
      "Type" : "List<AWS::EC2::Subnet::Id>",  
      "Description" : "The list of SubnetIds in your Virtual Private Cloud (VPC)",  
      "ConstraintDescription" : "must be a list of at least two existing subnets associated with at least two different availability zones. They should be residing in the selected Virtual Private Cloud."  
    },  
  
    "InstanceType" : {  
      "Description" : "WebServer EC2 instance type",  
      "Type" : "String",  
      "Default" : "t2.micro",  
      "AllowedValues": ["t1.micro", "t2.nano", "t2.micro", "t2.small", "t2.medium", "t2.large", "m1.small", "m1.medium", "m1.large", "m2.xlarge", "m2.2xlarge", "m2.4xlarge", "m3.medium", "m3.large", "m3.xlarge", "m4.large", "m4.xlarge", "m4.2xlarge", "m4.4xlarge", "m4.10xlarge", "c1.medium", "c1.large", "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", "hs1.4xlarge", "cr1.8xlarge", "cc2.8xlarge", "cg1.4xlarge"]  
    },  
    "ConstraintDescription" : "must be a valid EC2 instance type."  
  },  
  
  "KeyName" : {  
    "Description" : "Name of an existing EC2 KeyPair to enable SSH access to the instances",  
    "Type" : "AWS::EC2::KeyPair::KeyName",  
    "MinLength": "1",  
    "MaxLength": "255",  
    "AllowedPattern": "(\\x20-\\x7E)*",  
    "ConstraintDescription" : "can contain only ASCII characters."  
  },  
}  
}
```

Min size and Max size has been updated to 4 to accommodate 4 servers for the lab



```
Users > savleenkaur > Desktop > lab3.json > () Resources > () WebServerGroup > () Properties > MaxSize  
204   "us-west-1": { "HVMG4": "ami-08c153f74339f34c", "HVMG2": "ami-0a7fc72dc0e51aa77" },  
205   "us-west-2": { "HVMG4": "ami-01fee56b22f308154", "HVMG2": "ami-0fe84a5b4563d8f27" }  
206 }  
207 },  
208  
209 "Resources": {  
210   "WebServerGroup": {  
211     "Type": "AWS::AutoScaling::AutoScalingGroup",  
212     "Properties": {  
213       "VPCZoneIdentifier": { "Ref": "Subnets" },  
214       "LaunchConfigurationName": { "Ref": "LaunchConfig" },  
215       "MinSize": "4",  
216       "MaxSize": "4",  
217       "TargetGroupARNs": [ { "Ref": "ALBTargetGroup" } ]  
218     },  
219     "CreationPolicy": {  
220       "ResourceSignal": {  
221         "Timeout": "PT15M",  
222         "Count": "2"  
223       }  
224     },  
225     "UpdatePolicy": {  
226       "AutoScalingRollingUpdate": {  
227         "MinInstancesInService": "1",  
228         "MaxBatchSize": "1",  
229         "PauseTime": "PT15M",  
230         "WaitOnResourceSignals": "true"  
231       }  
232     },  
233   },  
234 },  
235  
236   "LaunchConfig": {  
237     "Type": "AWS::AutoScaling::LaunchConfiguration",  
238     "Metadata": {  
239       "Comment": "Install a simple application",  
240       "AWS::CloudFormation::Init": {  
241         "Fn::Join": [ " ",  
242           { "Fn::FindInMap": { "Ref": "HVMG4", "Map": "ImageMap" } },  
243           { "Fn::FindInMap": { "Ref": "HVMG2", "Map": "ImageMap" } },  
244           { "Fn::FindInMap": { "Ref": "Subnets", "Map": "SubnetMap" } }  
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```

After logging on to the Foundation lab, I goto search bar and type stack. To create stack, I clicked on Cloud formation service from Search bar
Choose Template is ready and provide the Template URL

The screenshot shows the AWS CloudFormation 'Create stack' wizard. The top navigation bar includes tabs for 'File', 'Edit', 'View', 'History', 'Bookmarks', 'Profiles', 'Tab', 'Window', 'Help', and a search bar. The main title is 'Create stack'. On the left, a sidebar lists steps: Step 1 'Specify template' (selected), Step 2 'Specify stack details', Step 3 'Configure stack options', and Step 4 'Review'. The main content area is titled 'Prerequisite - Prepare template'. It contains three radio buttons: 'Template is ready' (selected), 'Use a sample template', and 'Create template in Designer'. Below this is a section titled 'Specify template' with a note: 'A template is a JSON or YAML file that describes your stack's resources and properties.' Under 'Template source', it says 'Selecting a template generates an Amazon S3 URL where it will be stored.' There are two radio buttons: 'Amazon S3 URL' (selected) and 'Upload a template file'. An input field shows the URL: 'https://s3.amazonaws.com/cloudformation-templates-us-east-1/AutoScalingKeepAtNSample.template'. At the bottom right of the content area, there are links for 'Feedback', '© 2022, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'.

Specify the stack name- Lab3-CS524

The screenshot shows the AWS CloudFormation 'Create stack' wizard. The top navigation bar and sidebar are identical to the previous step. The main title is 'Specify stack details'. The sidebar shows 'Step 1 Specify template' (selected), 'Step 2 Specify stack details' (selected), 'Step 3 Configure stack options', and 'Step 4 Review'. The main content area is titled 'Stack name'. It has a text input field containing 'Lab3-CS524' with a note: 'Stack name can include letters (A-Z and a-z), numbers (0-9), and dashes (-)'. Below this is a 'Parameters' section with a note: 'Parameters are defined in your template and allow you to input custom values when you create or update a stack.' It includes dropdown menus for 'InstanceType' (set to 'WebServer EC2 instance type') and 't2.micro', and a text input field for 'KeyName' (set to 'Lab3'). At the bottom right of the content area, there are links for 'Feedback', '© 2022, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'. The bottom of the screen shows the Mac OS X dock with various application icons.

On next page, choose t2.micro and give the existing keypair- Lab3 and provide 3 close subnets and select VpcID provided, click on next

Parameters

InstanceType
WebServer EC2 instance type
t2.micro

KeyName
Name of an existing EC2 KeyPair to enable SSH access to the instances
Lab3

SSHLocation
The IP address range that can be used to SSH to the EC2 instances
0.0.0.0/0

Subnets
The list of Subnetids in your Virtual Private Cloud (VPC)

VpcId
Vpcid of your existing Virtual Private Cloud (VPC)

Review the details and click on next

InstanceType
WebServer EC2 instance type
t2.micro

KeyName
Name of an existing EC2 KeyPair to enable SSH access to the instances
Lab3

SSHLocation
The IP address range that can be used to SSH to the EC2 instances
0.0.0.0/0

Subnets
The list of Subnetids in your Virtual Private Cloud (VPC)

VpcId
Vpcid of your existing Virtual Private Cloud (VPC)
vpc-0bd792a6cd6a2b8fa

Cancel Previous Next

Stack is created and after 2 mins, we can update the details of the stack, we can see Create_Complete on the right hand bar, upload the json file in which we have 4 servers

The screenshot shows the AWS CloudFormation console in a web browser. The left sidebar has sections for Stacks, Drifts, StackSets, Exports, Designer, Registry (Public extensions, Activated extensions, Publisher), and Feedback. The main area shows the 'Lab3-CS524' stack details. The 'Events' tab is selected, displaying 22 events. The table includes columns for Timestamp, Logical ID, Status, and Status reason. Some entries show 'CREATE_COMPLETE' status with 'CREATE_IN_PROGRESS' status reasons, indicating ongoing creation. The browser's address bar shows the URL for the AWS CloudFormation home page.

Timestamp	Logical ID	Status	Status reason
2022-04-10 17:43:53 UTC-0400	Lab3-CS524	CREATE_COMPLETE	-
2022-04-10 17:43:51 UTC-0400	ALBListener	CREATE_COMPLETE	-
2022-04-10 17:43:50 UTC-0400	ALBListener	CREATE_IN_PROGRESS	Resource creation initiated
2022-04-10 17:43:47 UTC-0400	ALBListener	CREATE_IN_PROGRESS	-
2022-04-10 17:43:45 UTC-0400	ApplicationLoadBal	CREATE_COMPLETE	-

Now we add our template file to the stack

Sun Apr 10 5:45:45 PM

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/update/template?stackId=arn%3Aaws%3Acloudformation%3Aus-east-1%3A7293...

Services Search for services, features, blogs, docs, and more [Option+S]

Prerequisite - Prepare template

Specify stack details

Step 3 Configure stack options

Step 4 Review

Prepare template

Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.

Use current template Replace current template Edit template in designer

Specify template

A template is a JSON or YAML file that describes your stack's resources and properties.

Template source

Selecting a template generates an Amazon S3 URL where it will be stored.

Amazon S3 URL Upload a template file

Upload a template file

Choose file lab3.json

JSON or YAML formatted file

S3 URL: https://s3-external-1.amazonaws.com/cf-templates-1sr6xwd4ymufl-us-east-1/2022100RZN-lab3.json

View in Designer

Cancel Next

Feedback Lab3.pem Show All

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Sun Apr 10 5:46:04 PM

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/update/parameters?stackId=arn%3Aaws%3Acloudformation%3Aus-east-1%3A7293...

Services Search for services, features, blogs, docs, and more [Option+S]

Prerequisite - Prepare template

Specify stack details

Step 3 Configure stack options

Step 4 Review

InstanceType

WebServer EC2 instance type

t2.micro

KeyName

Name of an existing EC2 KeyPair to enable SSH access to the instances

Lab3

SSHLocation

The IP address range that can be used to SSH to the EC2 instances

0.0.0.0/0

Subnets

The list of SubnetIds in your Virtual Private Cloud (VPC)

subnet-0d9f458385718b221 subnet-0f3f8c0d0018ba8f3 subnet-075487af9201777c6

VpcId

VpcId of your existing Virtual Private Cloud (VPC)

vpc-0bd792a6cd6a2b8fa

Cancel Previous Next

Feedback Lab3.pem Show All

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Click on update Stack

The screenshot shows the AWS CloudFormation console with a green border around the main content area. At the top, there's a navigation bar with tabs like 'Services', 'Search for services, features, blogs, docs, and more', and a search bar. Below the navigation is a section titled 'Notification options' with a message 'No notification options' and 'There are no notification options defined'. Underneath is a 'Change set preview' section with a 'Changes' table header and a note 'Change set preview in progress, this operation may take up to a few minutes.' At the bottom right of the main content area is a button labeled 'Update stack'.

We can see Stack update is in progress

The screenshot shows the AWS CloudFormation console with a green border around the main content area. The left sidebar shows 'CloudFormation > Stacks > Lab3-CS524'. The main area is titled 'Lab3-CS524' and has tabs for 'Stack info', 'Events' (which is selected), 'Resources', 'Outputs', 'Parameters', 'Template', and 'Change sets'. The 'Events' tab displays a table of events with columns: 'Timestamp', 'Logical ID', 'Status', and 'Status reason'. The table shows several events: one 'UPDATE_IN_PROGRESS' for Lab3-CS524 at 2022-04-10 17:46:25 UTC-0400, and four 'CREATE_COMPLETE' events for ALBListener resources at different times. The status reason for the update event is 'User Initiated'.

Goto Load Balancer and see a Load Balancer has already been created

Name	DNS name	State	VPC ID	Availability Zones	Type
Lab3-Appi-NC23V3QZ6X66	Lab3-Appi-NC23V3QZ6X66...	Active	vpc-0bd792a6cd6a2b8fa	us-east-1a, us-east-1f, ...	application

Check the security groups

Name	DNS name	State	VPC ID	Availability Zones	Type
Lab3-Appi-NC23V3QZ6X66	Lab3-Appi-NC23V3QZ6X66...	Active	vpc-0bd792a6cd6a2b8fa	us-east-1a, us-east-1f, ...	application

Select the one that we made, has same name as the Stack

The screenshot shows the AWS Lambda console with the 'Edit security groups' dialog open. The dialog lists three security groups:

Security group ID	Name	Description
sg-0a767c0e885bf...	Lab3-CS524-Instan...	Enable SSH access and HTTP access on the configured port
sg-0c97e0ffa95a00...	Load Balancer	launch-wizard-1 created 2022-04-10T16:43:35.030-04:00
sg-05be88f5de912...	default	default VPC security group

At the bottom right of the dialog are 'Cancel' and 'Save' buttons.

The screenshot shows the AWS Lambda console with the Load Balancer details page for 'Lab3-App1-NC23V3QZ6X66'. The page displays the following information:

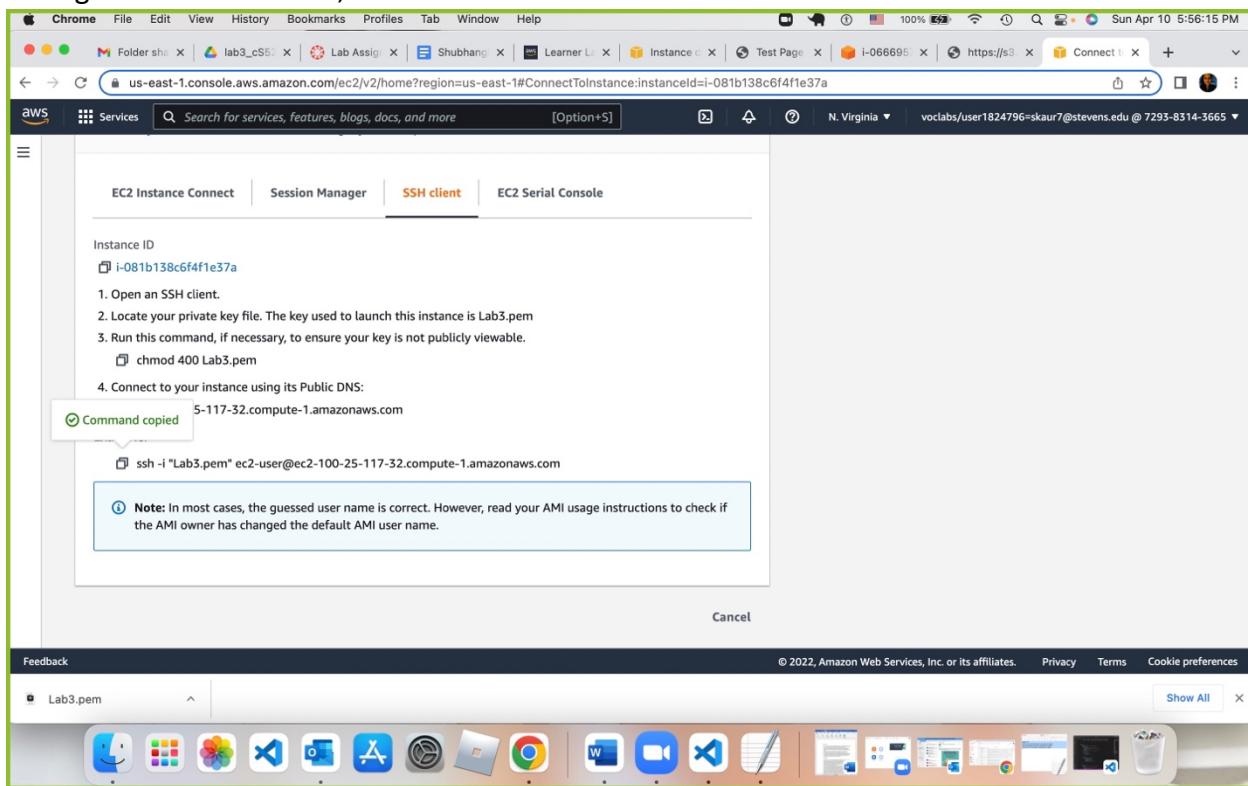
- Hosted zone:** Z35SXDOTRQ7X7K
- Creation time:** April 10, 2022 at 5:40:42 PM UTC-4
- Security:** Security groups: sg-0a767c0e885bf029, Lab3-CS524-InstanceSecurityGroup-BUYJ30KLV5FW
- Attributes:** Edit security groups button

I went to EC2 instances and could see all 4 of my instances created. I renamed them as server1, server2, server3 and server4

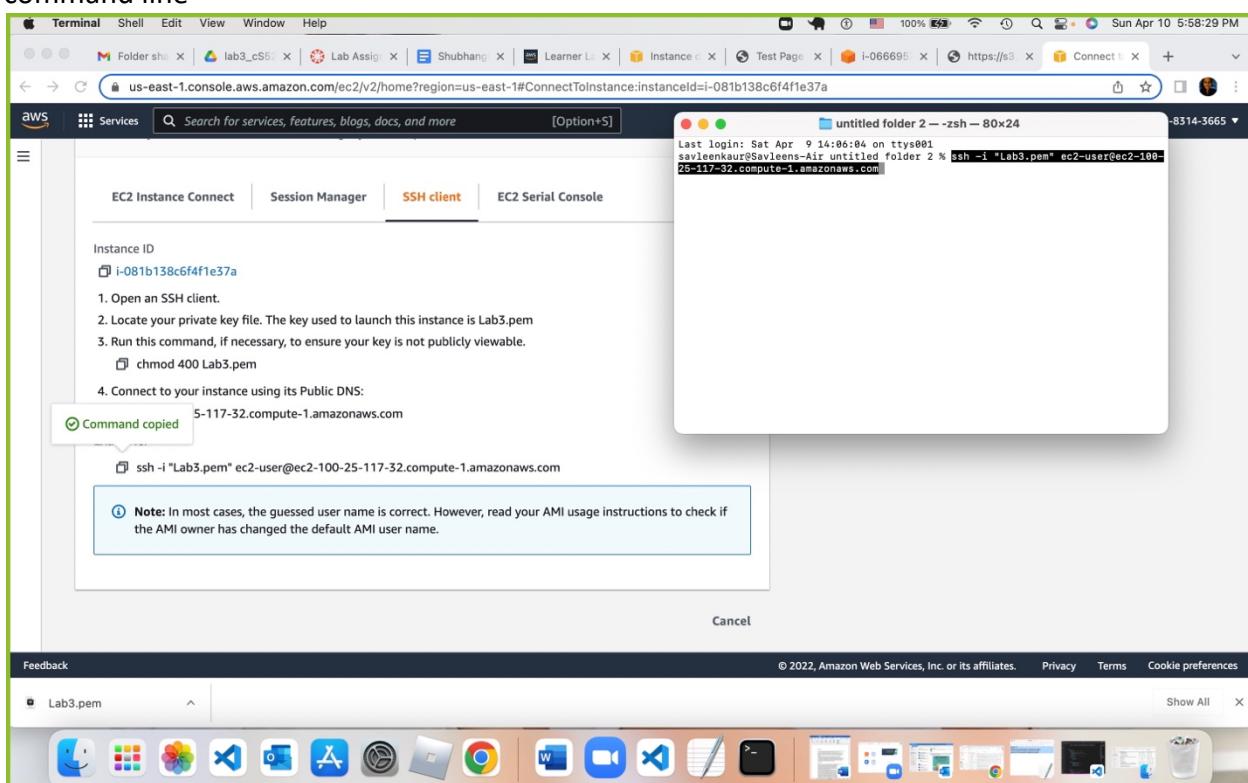
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Pub
—	i-081b138c6f4f1e37a	Running	t2.micro	2/2 checks passed	No alarms	us-east-1e	ec2
—	i-0617c69f3d48567ef	Running	t2.micro	2/2 checks passed	No alarms	us-east-1f	ec2
—	i-027985c5dad53135b	Running	t2.micro	2/2 checks passed	No alarms	us-east-1f	ec2
Server1	i-009344c963b628404	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2
Load Balancer	i-066695708d6e0b06d	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2
Server3	i-0152a44da1c392b6f	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2
Server2	i-0dc8ff3c9bb9666e	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2
Server4	i-0ce3accbc098a0ca7	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2
—	i-031b0d9bccbb95438	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Pub
Lab3-Server1	i-081b138c6f4f1e37a	Running	t2.micro	2/2 checks passed	No alarms	us-east-1e	ec2
Lab3-Server2	i-0617c69f3d48567ef	Running	t2.micro	2/2 checks passed	No alarms	us-east-1f	ec2
Lab3-Server3	i-027985c5dad53135b	Running	t2.micro	2/2 checks passed	No alarms	us-east-1f	ec2
Server1	i-009344c963b628404	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2
Load Balancer	i-066695708d6e0b06d	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2
Server3	i-0152a44da1c392b6f	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2
Server2	i-0dc8ff3c9bb9666e	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2
Server4	i-0ce3accbc098a0ca7	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2
Lab3-Server4	i-031b0d9bccbb95438	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2

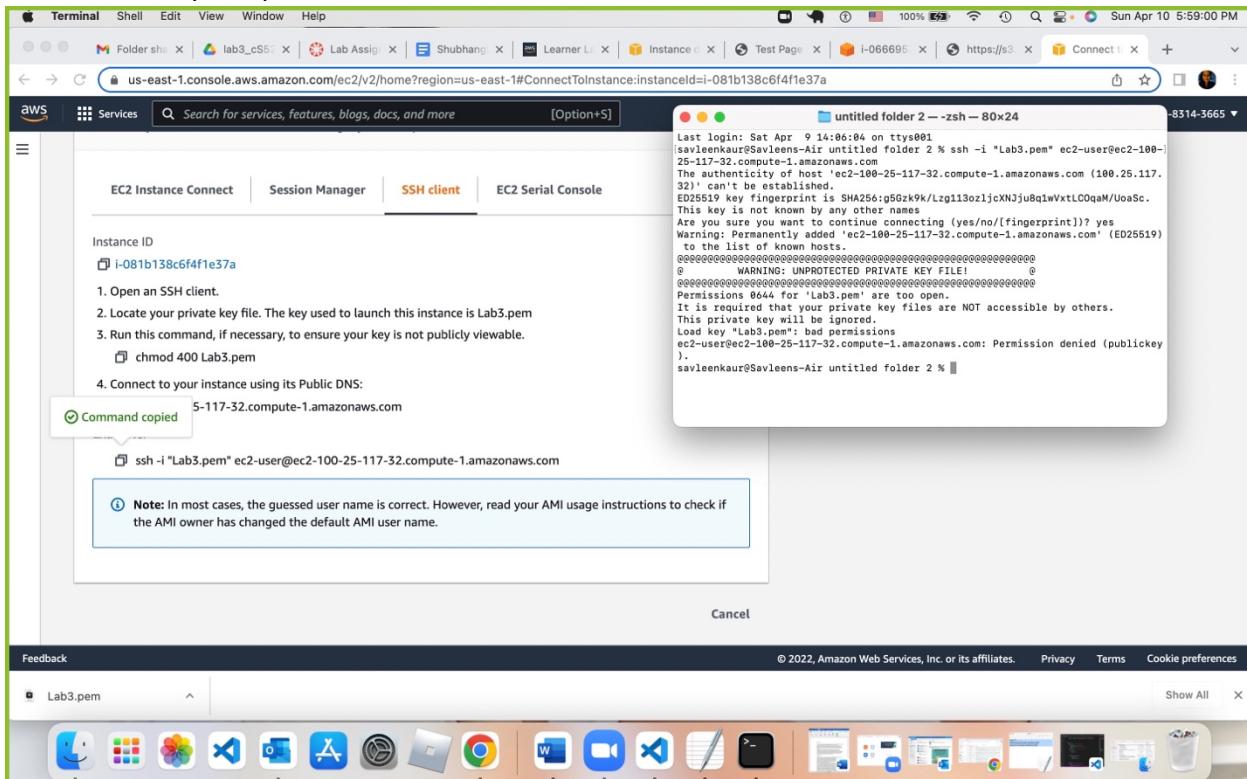
If we go back to instances, we will see our instances created because of Load Balancer



Configuring the instance for Server 1 of Load Balancer- copy the SSH and paste it in the command line

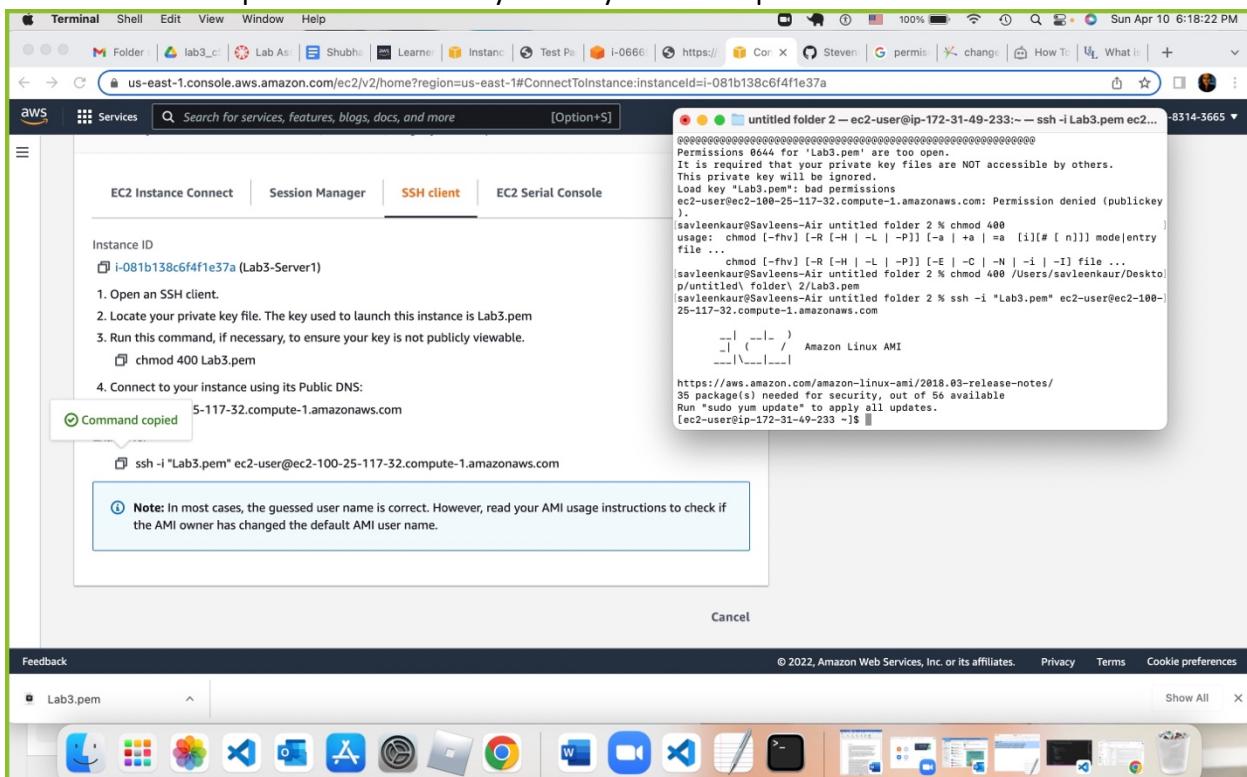


Since, I received Permission denied, I ran the command chmod 400 and give the pem file in the command prompt



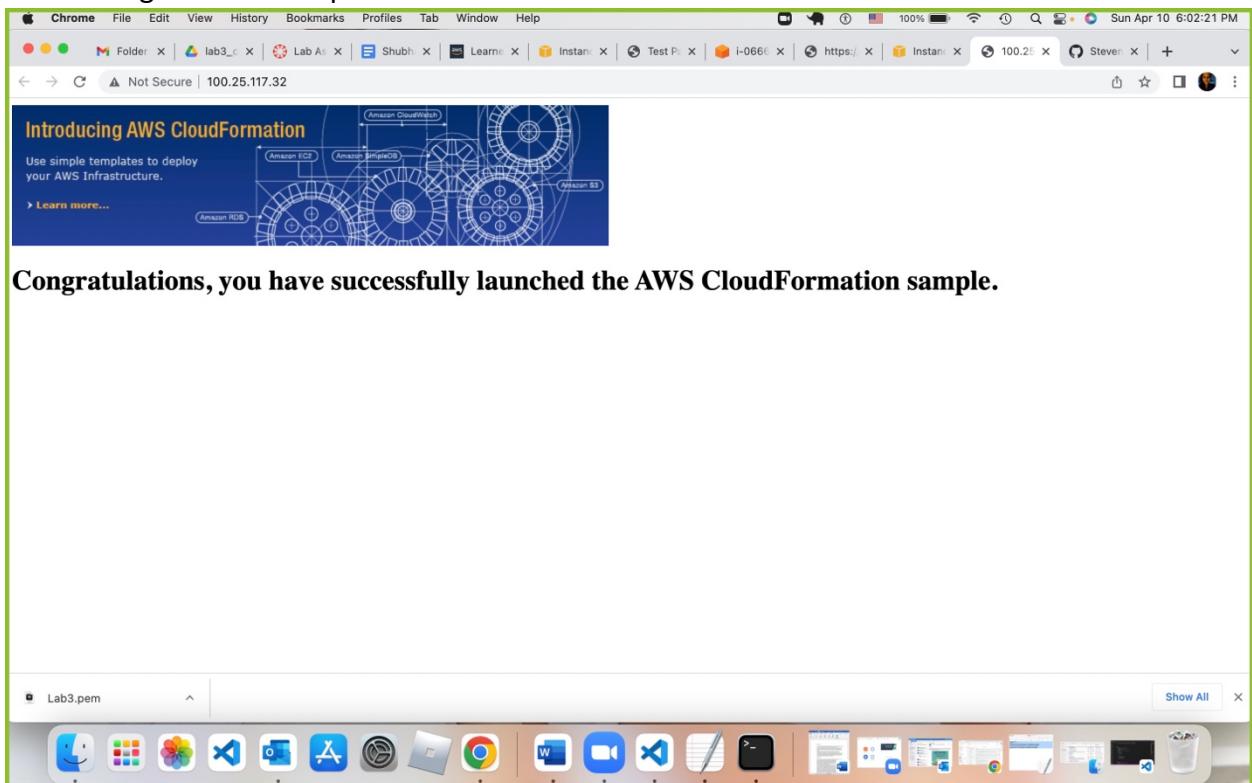
```
Last login: Sat Apr 9 14:06:04 on ttys001
savleenkaur@Savleens-Air ~$ ssh -i "Lab3.pem" ec2-user@ec2-100-25-117-32.compute-1.amazonaws.com
The authenticity of host 'ec2-100-25-117-32.compute-1.amazonaws.com (100.25.117.32)' can't be established.
ED25519 key fingerprint is SHA256:qB6zK9X/lzg113o2ljcXNJu8QiwxtLCoQam/UoaSc.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-100-25-117-32.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
Permission denied (publickey).
savleenkaur@Savleens-Air ~$ chmod 400 Lab3.pem
savleenkaur@Savleens-Air ~$ ssh -i "Lab3.pem" ec2-user@ec2-100-25-117-32.compute-1.amazonaws.com
The authenticity of host 'ec2-100-25-117-32.compute-1.amazonaws.com (100.25.117.32)' can't be established.
ED25519 key fingerprint is SHA256:qB6zK9X/lzg113o2ljcXNJu8QiwxtLCoQam/UoaSc.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-100-25-117-32.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
Permission denied (publickey).
savleenkaur@Savleens-Air ~$
```

Run ssh -l and the pem file followed by SSH key to set the permission

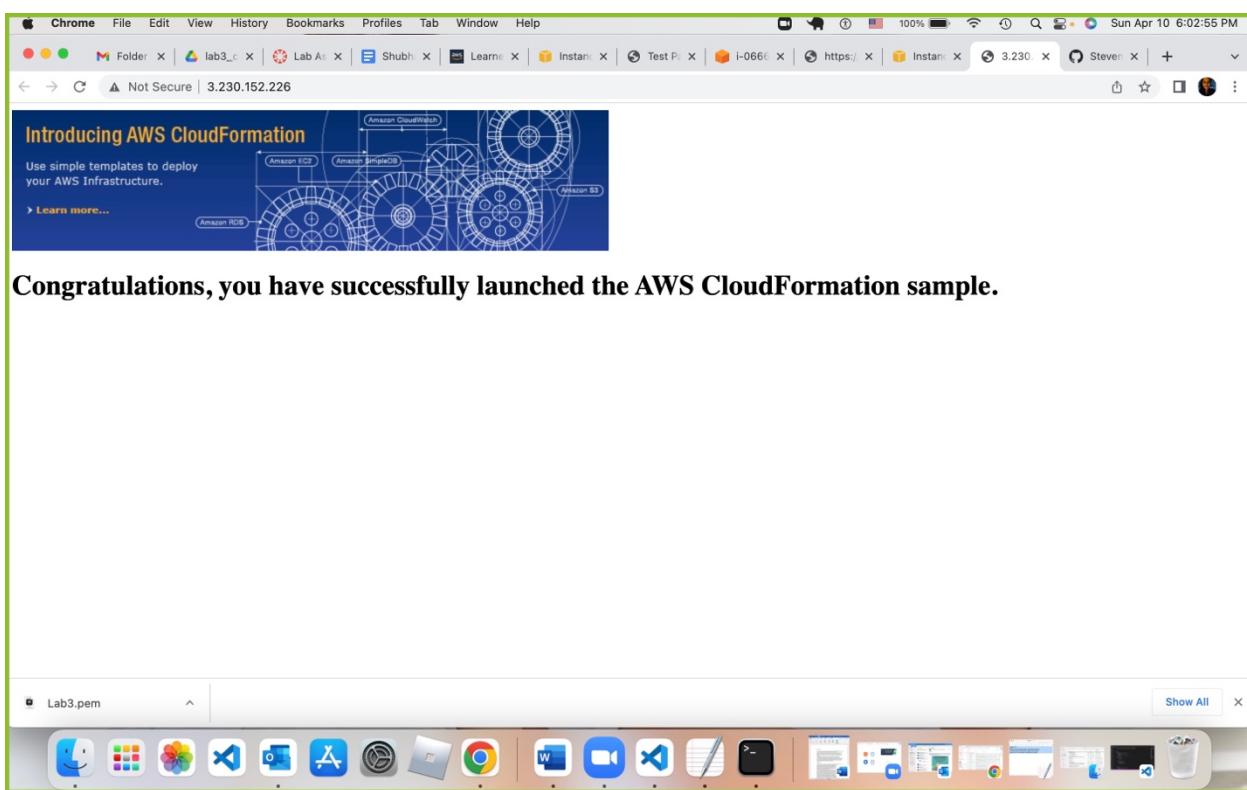
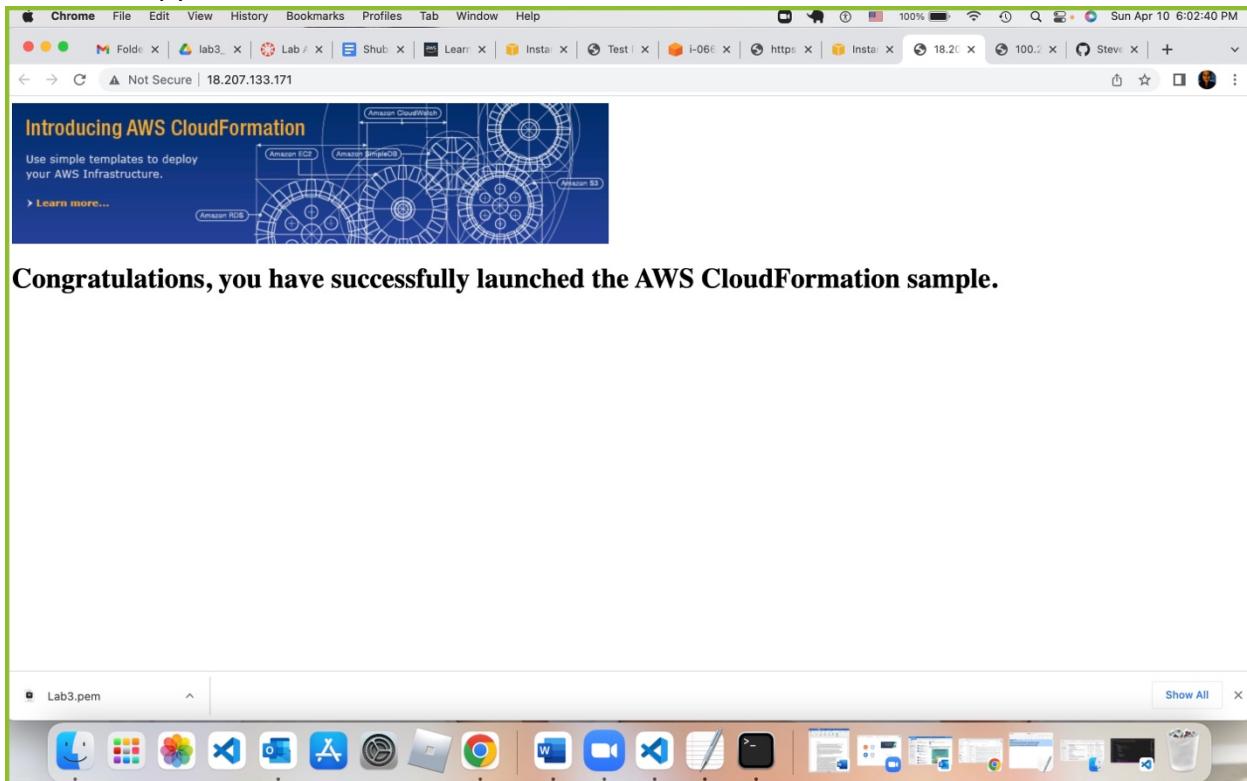


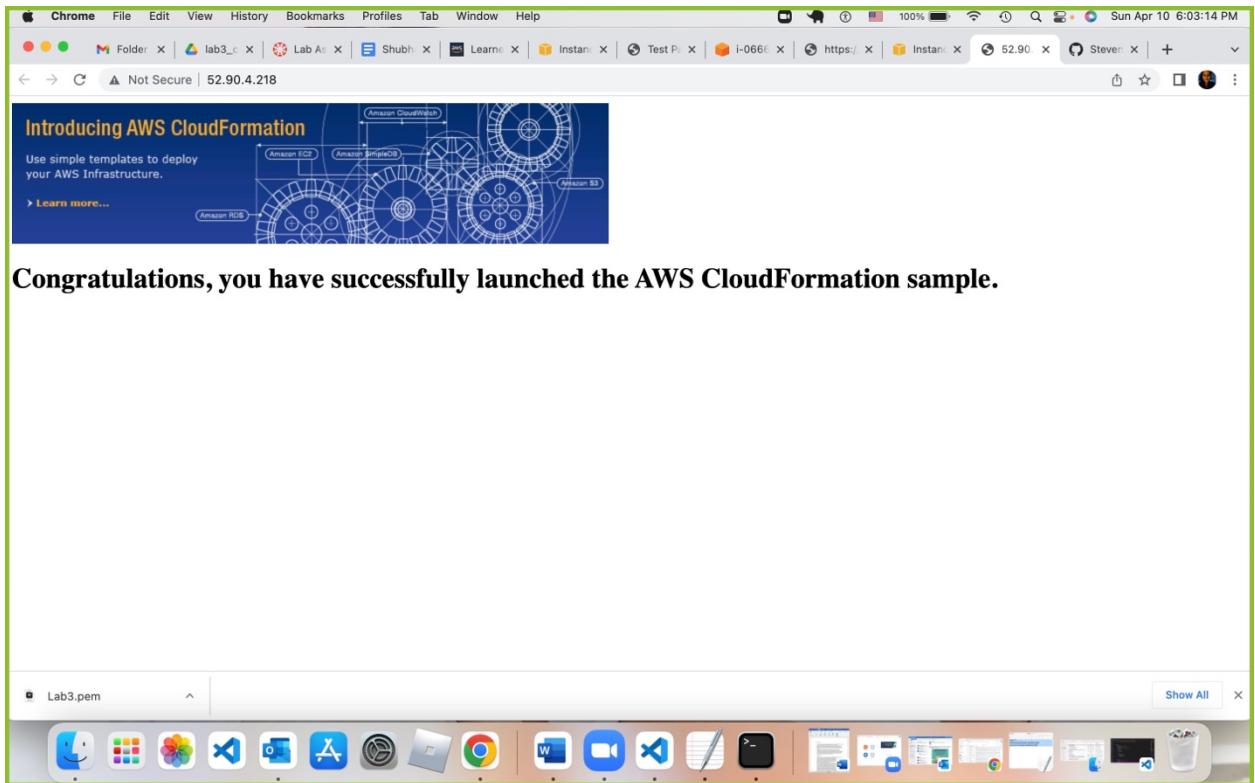
```
Permissions 644 for 'Lab3.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key 'Lab3.pem': bad permissions
ec2-user@ec2-100-25-117-32.compute-1.amazonaws.com: Permission denied (publickey).
savleenkaur@Savleens-Air ~$ chmod 400 Lab3.pem
savleenkaur@Savleens-Air ~$ ssh -i "Lab3.pem" ec2-user@ip-172-31-49-233
The authenticity of host 'ip-172-31-49-233' can't be established.
ED25519 key fingerprint is SHA256:qB6zK9X/lzg113o2ljcXNJu8QiwxtLCoQam/UoaSc.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ip-172-31-49-233' (ED25519) to the list of known hosts.
Permissions 644 for 'Lab3.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key 'Lab3.pem': bad permissions
ec2-user@ip-172-31-49-233: Permission denied (publickey).
savleenkaur@Savleens-Air ~$ chmod 400 Lab3.pem
savleenkaur@Savleens-Air ~$ ssh -i "Lab3.pem" ec2-user@ip-172-31-49-233
Last login: Sun Apr 10 06:18:22 UTC 2022 from 100.25.117.32
savleenkaur@ip-172-31-49-233:~$ cd /Users/savleenkaur/Desktop/p/untitled/folder1/2/Lab3.pem
savleenkaur@ip-172-31-49-233:~$ chmod 400 Lab3.pem
savleenkaur@ip-172-31-49-233:~$ ssh -i "Lab3.pem" ec2-user@ec2-100-25-117-32.compute-1.amazonaws.com
The authenticity of host 'ec2-100-25-117-32.compute-1.amazonaws.com (100.25.117.32)' can't be established.
ED25519 key fingerprint is SHA256:qB6zK9X/lzg113o2ljcXNJu8QiwxtLCoQam/UoaSc.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-100-25-117-32.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
savleenkaur@ip-172-31-49-233:~$ https://aws.amazon.com/amazon-linux-ami/2018.03-release-notes/
35 package(s) needed for security, out of 56 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-49-233 ~]$
```

After setting permission, I launch Server 1 and its running. To launch the server, goto Networking and click on ipv4 link



Likewise, copy the SSH for all the other 3 instances and check





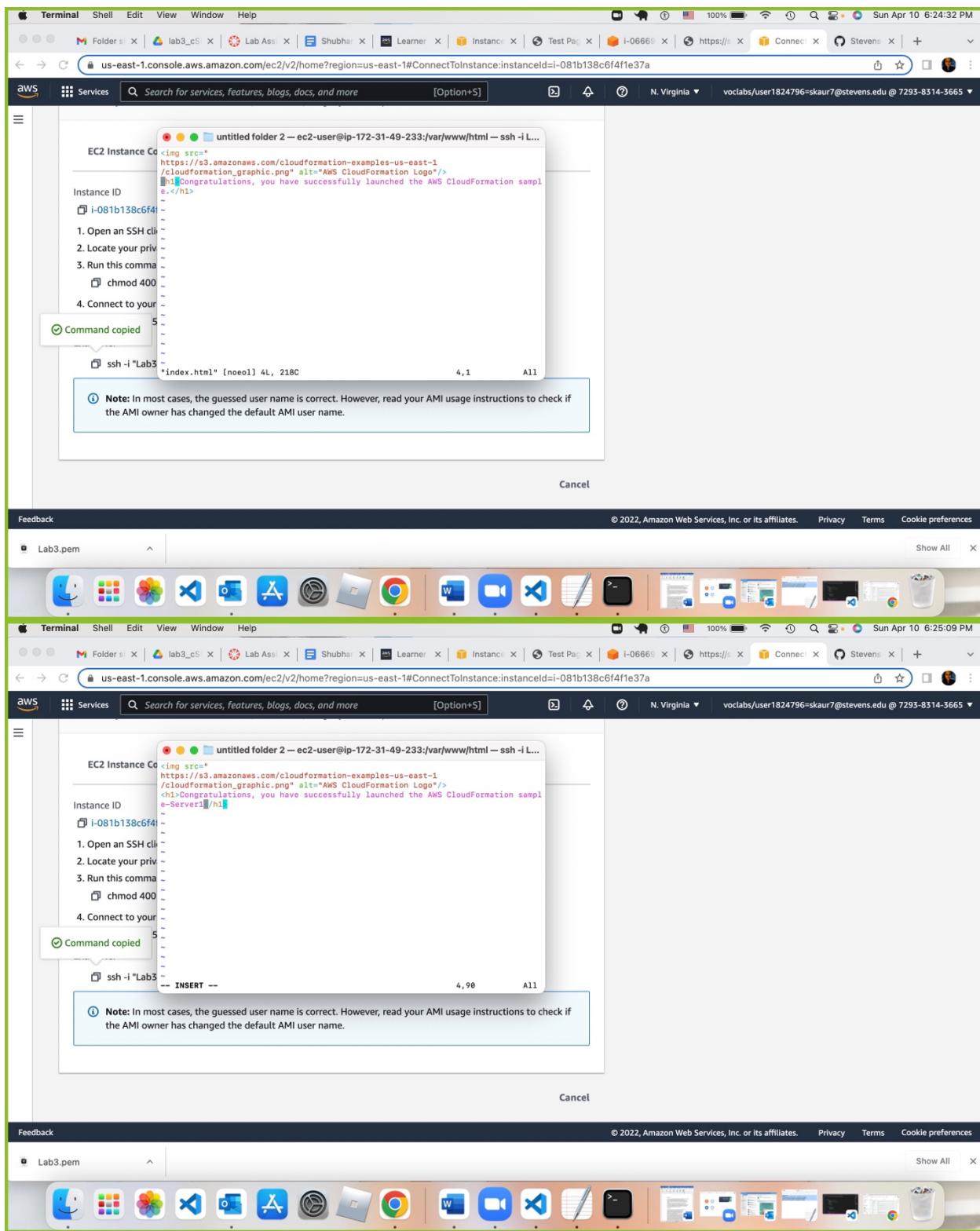
After this, we need to launch AWS Cloud Formation for every Server, edit it with server name.
Do this by going to command prompt and typing the following code for every server–

Cd/var/www/html

Sudo vim index.html

Edit the file to display the names of all servers in each of their welcome page

I went back to my instances in AWS and selected the instances, went to 'Networking' tab and selected 'open address' for IPV4 public address. Did this step for all the servers



Chrome File Edit View History Bookmarks Profiles Tab Window Help Sun Apr 10 6:26:56 PM

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#InstanceDetails:instanceId=i-081b138c6f4ff1e37a

New EC2 Experience Learn more Services Search for services, features, blogs, docs, and more [Option+S] N. Virginia voclabs/user1824796=skaur@stevens.edu @ 7293-8314-3665

Auto Scaling Group name Lab3-CSS24-WebServerGroup-7SB826B13YOO

EC2 Dashboard EC2 Global View Events Tags Limits Instances Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances New Dedicated Hosts Scheduled Instances Capacity Reservations Images AMIs New https://100.25.117.32 Show All

Networking Storage Status checks Monitoring Tags

You can now check network connectivity with Reachability Analyzer. Run Reachability Analyzer

Networking details

Public IPv4 address	Private IPv4 addresses	VPC ID
100.25.117.32 open address	172.31.49.233	vpc-0bd792a6cd6a2b8fa
Public IPv4 DNS	Private IP DNS name (IPv4 only)	Subnet ID
ec2-100-25-117-32.compute-1.amazonaws.com open address	ip-172-31-49-233.ec2.internal	subnet-0f3f8c0d0018ba8f3
IPv6 addresses	Secondary private IPv4 addresses	Availability zone
-	-	us-east-1e
Carrier IP addresses (ephemeral)	Outpost ID	Use RBN as guest OS hostname
-	-	Disabled
Answer RBN DNS hostname IPv4		
Disabled		

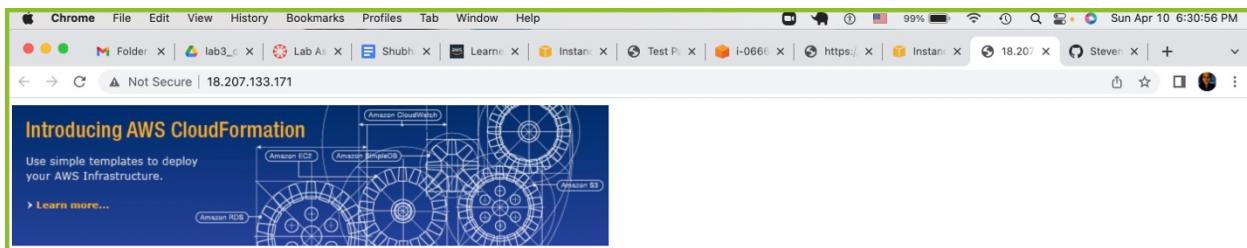
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Lab3.pem

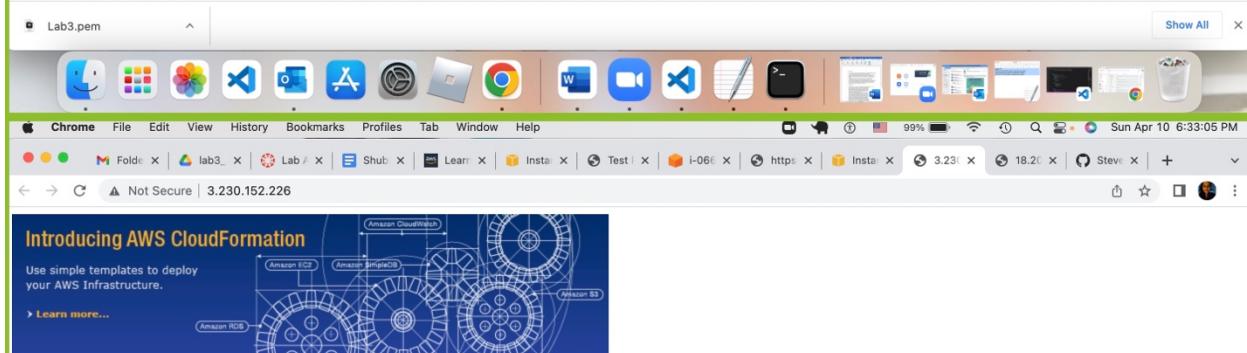
Introducing AWS CloudFormation Use simple templates to deploy your AWS Infrastructure. Learn more... Amazon CloudWatch Amazon Lambda Amazon SimpleDB Amazon S3 Amazon RDS

Not Secure | 100.25.117.32 Show All

Lab3.pem



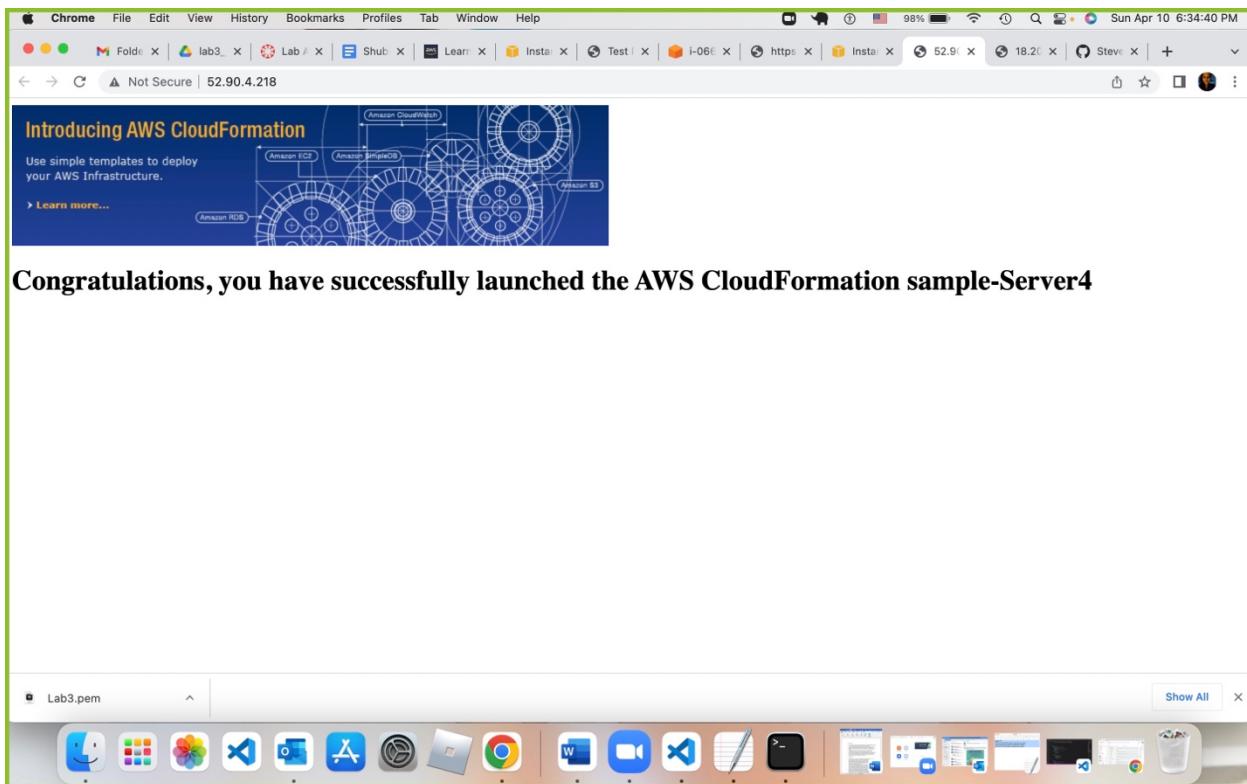
Congratulations, you have successfully launched the AWS CloudFormation sample-Server2



Congratulations, you have successfully launched the AWS CloudFormation sample-Server3

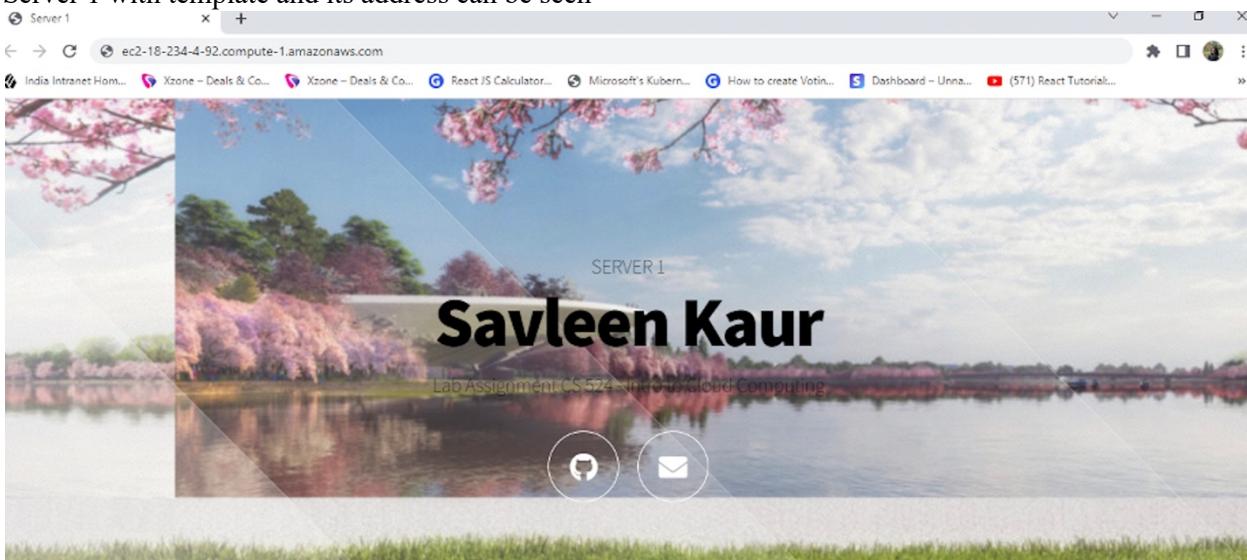
Press Esc to show floating meeting controls

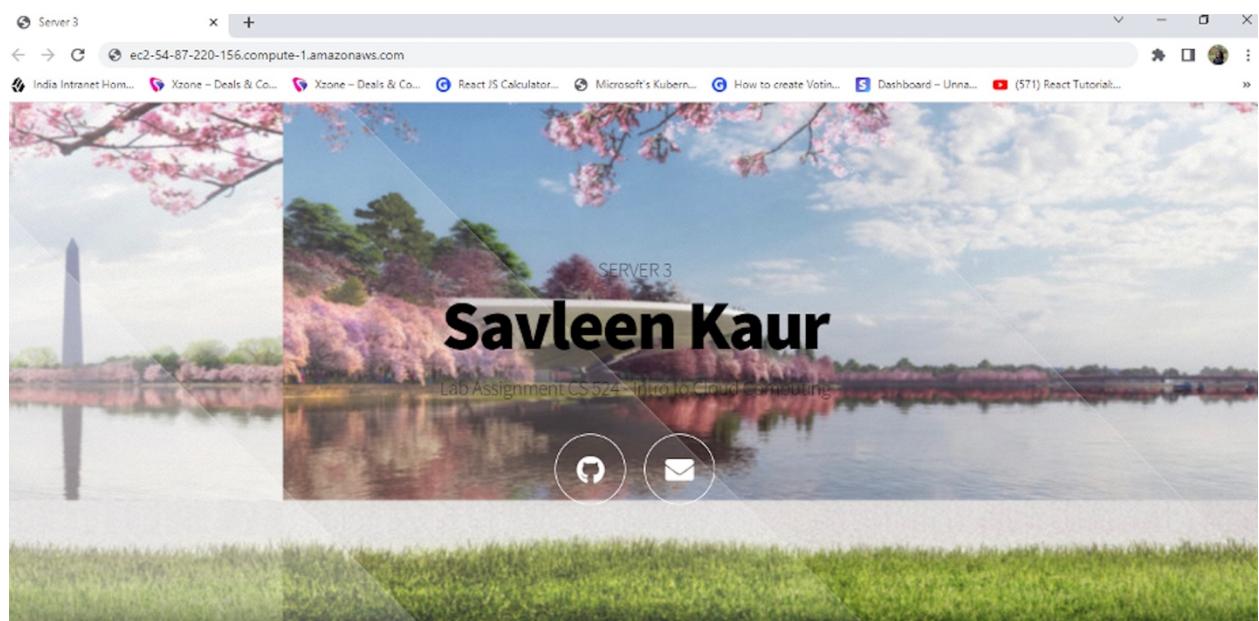
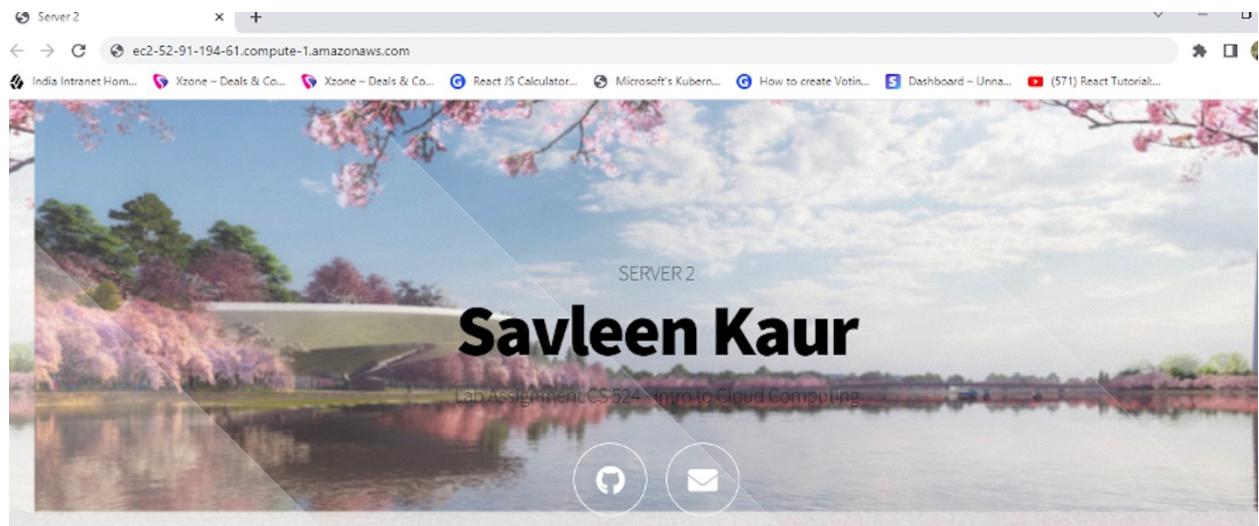


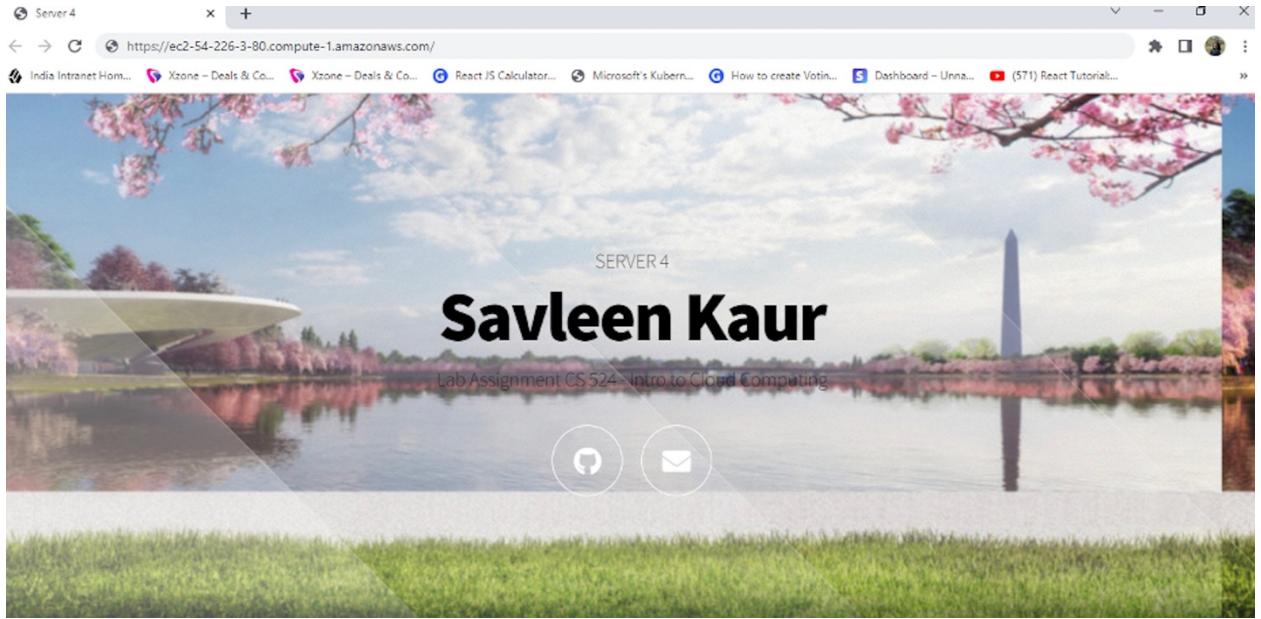


Similarly I edited the index.html files and hosted my own webpage on it for all the servers

Server 1 with template and its address can be seen







After all the activities are performed, delete all instances and stack that we have created.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public
Lab3-Server1	i-081b138c6f4f1e37a	Running	t2.micro	2/2 checks passed	No alarms	us-east-1e	ec2...
Lab3-Server2	i-0617c69f3d48567ef	Running	t2.micro	2/2 checks passed	No alarms	us-east-1f	ec2...
Lab3-Server3	i-027985c5dad53135b	Running	t2.micro	2/2 checks passed	No alarms	us-east-1f	ec2...
Server1	i-009344c963b628404	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2...
Load Balancer	i-066695708d6e0b06d	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2...
Server3	i-0152a44da1c392b6f	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2...

Instances: i-081b138c6f4f1e37a (Lab3-Server1), i-0617c69f3d48567ef (Lab3-Server2), i-027985c5dad53135b (Lab3-Server3), i-009344c963b628404 (Server1), i-066695708d6e0b06d (Load Balancer), i-0152a44da1c392b6f (Server3), i-0dc8ff3c9bb9666e (Server2), i-0ce3accbc098a0ca7 (Server4), i-031b0d9bccbb95438 (Lab3-Server4)

Sun Apr 10 7:38:16 PM

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances

New EC2 Experience X

Instances (9/9) Info

Search for services, features, blogs, docs, and more [Option+S]

N. Virginia voclabs/user1824796=saur7@stevens.edu @ 7293-8314-3665

Terminate instances?

On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?

- i-081b138c6f4f1e37a (Lab3-Server1)
- i-0617c69f3d48567ef (Lab3-Server2)
- i-027985c5dad53135b (Lab3-Server3)
- i-009344c963b628404 (Server1), i-009344c963b628404 (Server2), i-0ce3accbc098a0ca7 (Server3)
- i-066695708d6e0b06d (Load Balancer)
- + 4 more

To confirm that you want to terminate the instances, choose the terminate button below. Terminating the instance cannot be undone.

Cancel **Terminate**

Instances (9) Info

Count Count Count

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Show All X

Sun Apr 10 7:38:42 PM

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances

New EC2 Experience X

Instances (9) Info

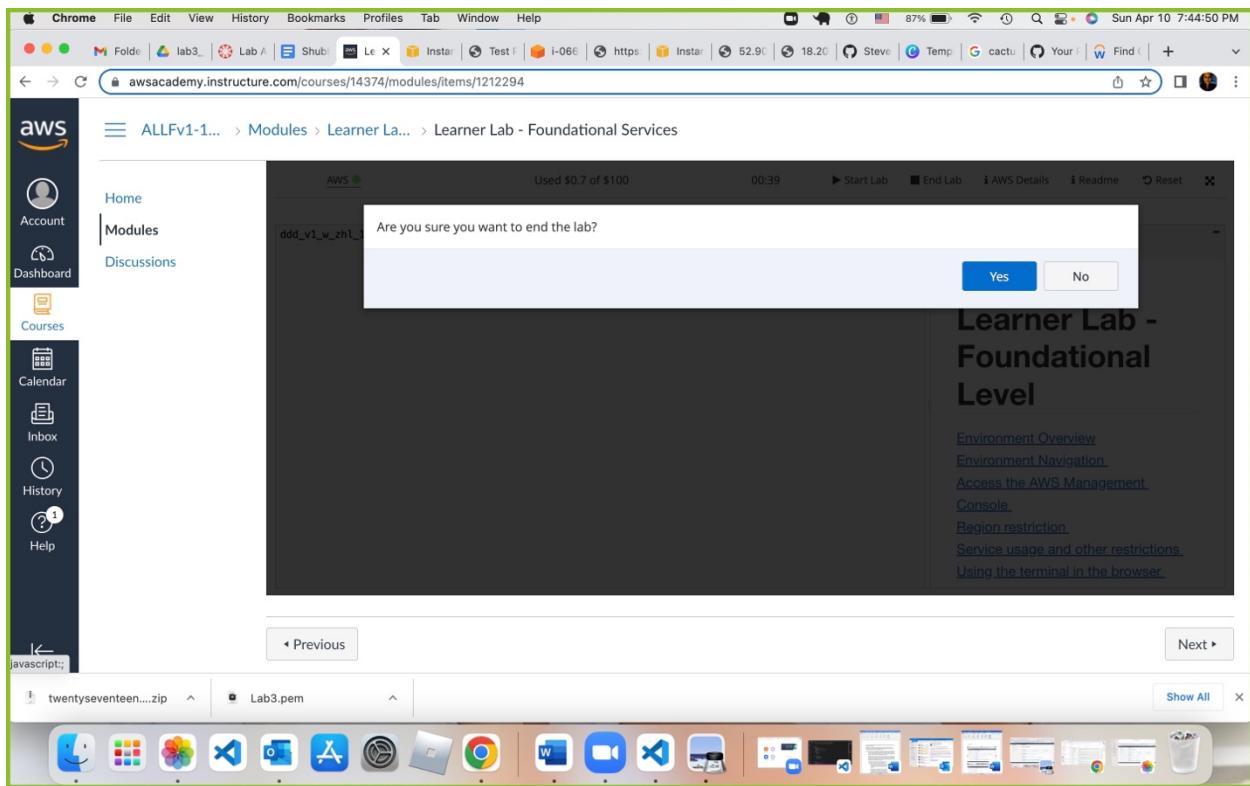
Successfully terminated i-081b138c6f4f1e37a, i-0617c69f3d48567ef, i-027985c5dad53135b, i-009344c963b628404, i-066695708d6e0b06d, i-0152a44da1c392b6f, i-0dc8ff3c9bb9666e, i-0ce3accbc098a0ca7, i-031b0d9bccbb95438

Instances (9) Info

Count Count Count

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Show All X



Sun Apr 10 7:51:49 PM

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks?filteringStatus=active&filteringText=&viewNested=true&hideStacks=false&stackId...

CloudFormation > Stacks

Stacks (2)

Stack name	Status	Created time	Description
Lab3-CS524	DELETE_IN_PROGRESS	2022-04-10 17:40:36 UTC-0400	AWS CloudFormation Sample Template AutoScalingKeepAtNSample: Create a load balanced, Auto Scaled sample website. This example creates an Auto Scaling group behind a load balancer with a simple health check. **WARNING** This template creates one or more Amazon EC2 instances and an Application Load Balancer. You will be billed for the AWS resources used if you create a stack from this template.

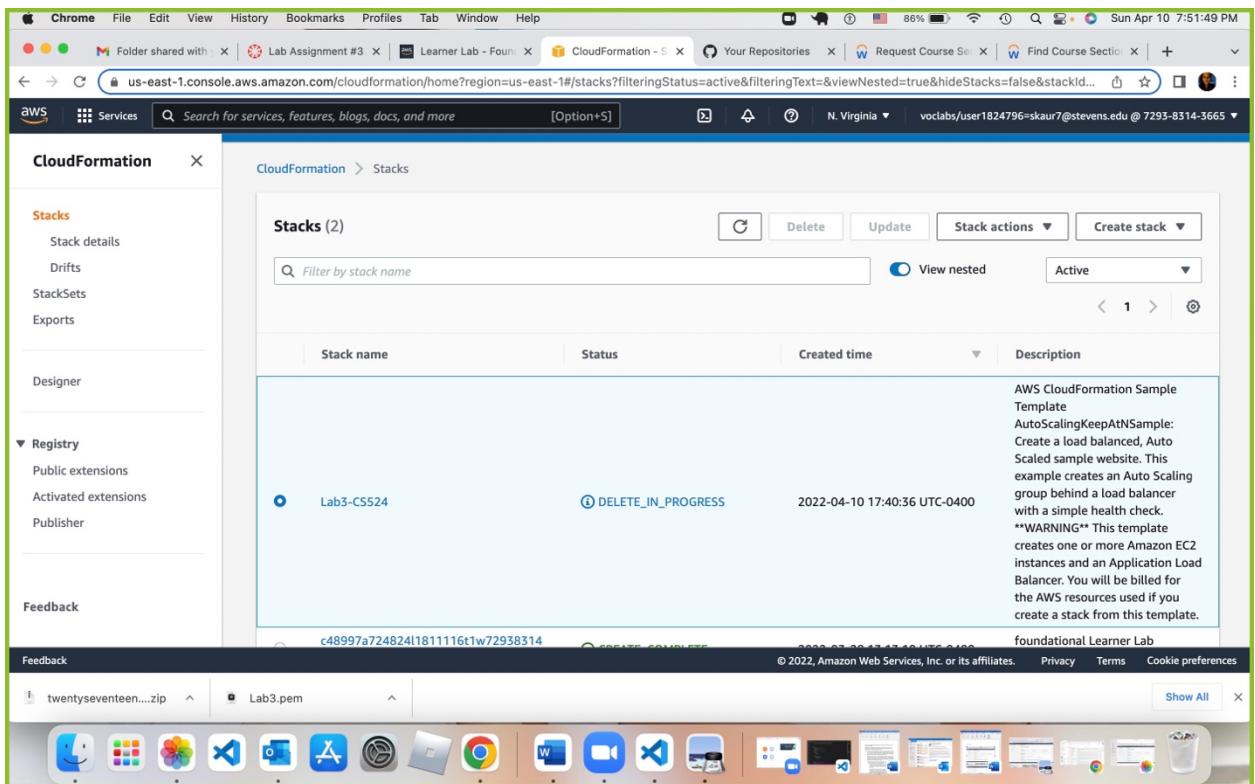
foundational Learner Lab

Feedback

twentyseventeen....zip Lab3.pem

Show All

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Sun Apr 10 7:51:42 PM

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks?filteringStatus=active&filteringText=&viewNested=true&hideStacks=false&stackId...

CloudFormation > Stacks

Stacks (2)

Delete Lab3-CS524?

Deleting this stack will delete all stack resources. Resources will be deleted according to their DeletionPolicy. [Learn more](#)

Cancel Delete stack

Stack name	Description
Lab3-CS3665	AWS CloudFormation Sample Template AutoScalingKeepAtNSample: Create a load balanced, Auto Scaled sample website. This example creates an Auto Scaling group behind a load balancer with a simple health check. **WARNING** This template creates one or more Amazon EC2 instances and an Application Load Balancer. You will be billed for the AWS resources used if you create a stack from this template.

foundational Learner Lab template

Feedback

twentyseventeen....zip Lab3.pem

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