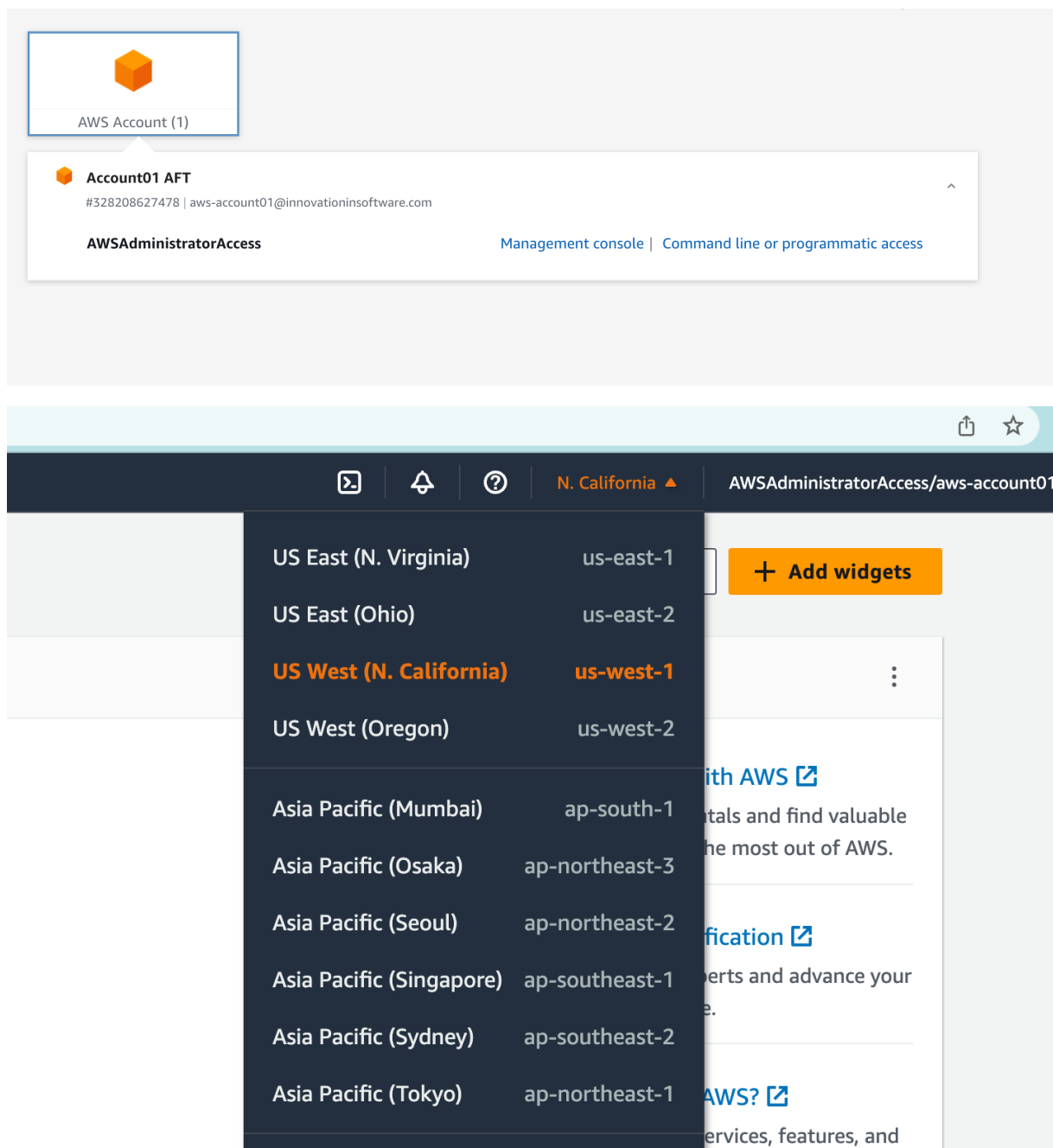


# Lab 01: Configure KiND Environment

## Step 1: Log into AWS environment

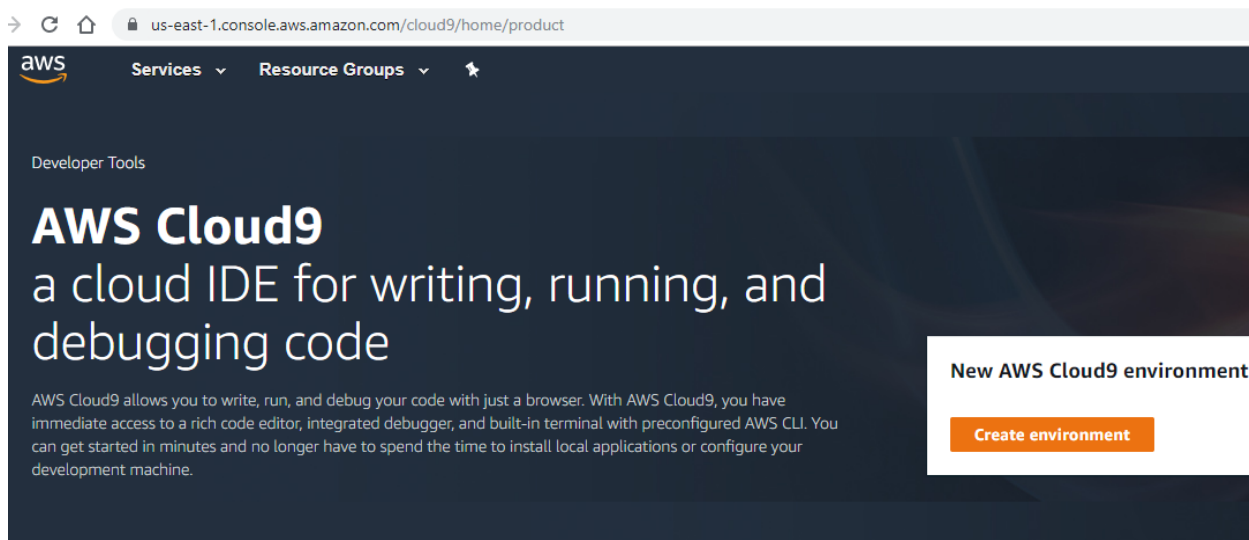
1. Sign in to the AWS Management Console at <https://d-916729713a.awsapps.com/start> using the credentials provided by the instructor.
2. Once you've logged in, select AWS Account (1) -> Account AFT -> Management console
3. Confirm you are in the Northern California region by selecting N. California (us-west-1) in the top right corner.



## Step 2: Create Cloud9 Environment

Now that we've completed the steps for our user setup, we are ready to sign in to the AWS Cloud9 console and start using it. We're going to use a Cloud9 Integrated Development Environment. AWS Cloud9 is a cloud-based integrated development environment (**IDE**) that lets you write, run, and debug your code with just a browser. Cloud9 is written in JavaScript with NodeJS.

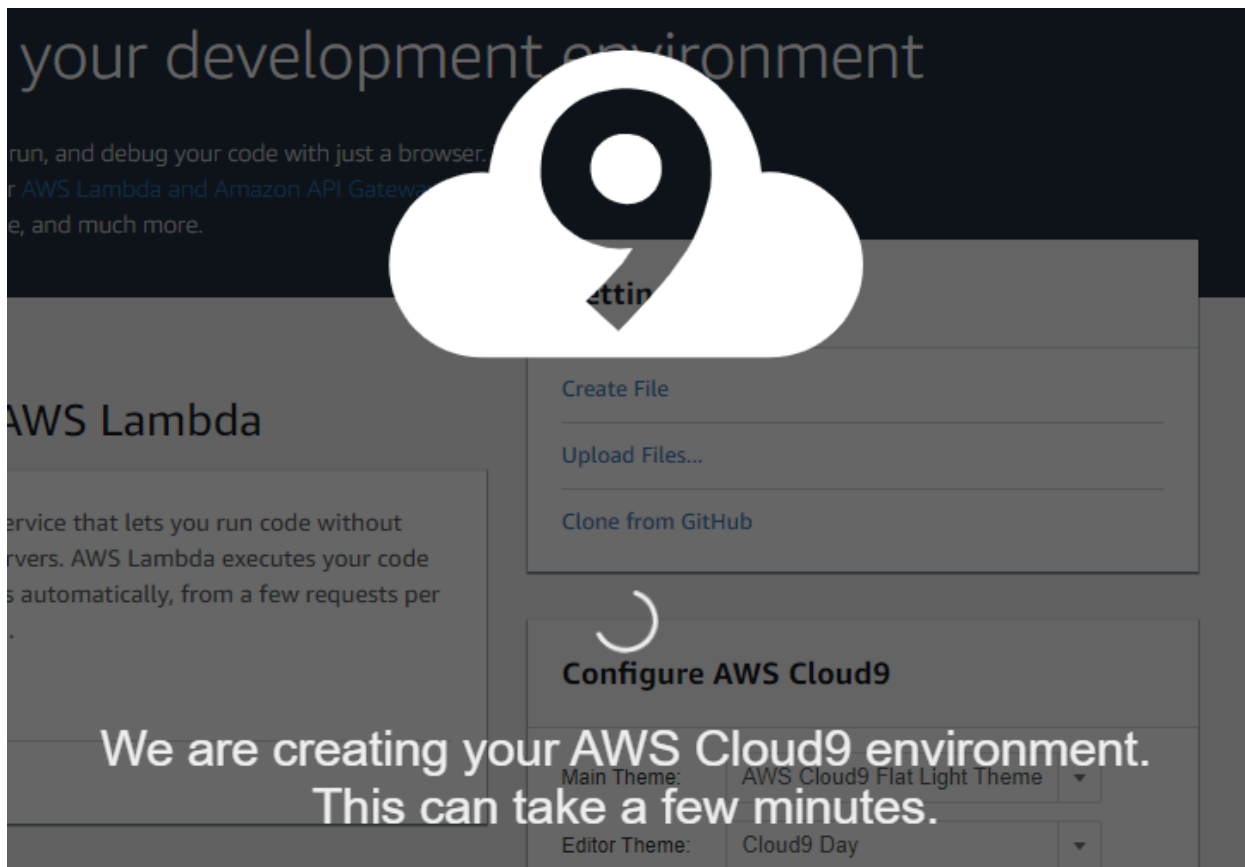
4. In the Search box enter Cloud9 and select that service.



5. Select **Create environment**.
6. Enter our environment **Name** as **student#-cloud9-kind**

Note: substitute your student number for the #, e.g. student13-cloud9-kind

7. Enter our environment optional **Description** as **Environment for working with our AWS Services** or similar
8. In the **Configure settings – Environment Settings** keep the defaults for **Environment type** (Create a new instance for environment), **Instance type** (t2.micro) and **Platform** (Amazon Linux)
9. Change **Cost-saving setting** to **After one hour**
10. Select **Create environment**



11. The process for creating the environment will take a couple of minutes, if it takes more than 5 minutes likely there was an issue and you'll have to delete and recreate your environment.

The AWS Cloud9 console is displayed, and you can begin using AWS Cloud9 environment.

#### **Step 4: Validate Cloud9 Config Information**

1. In the bash prompt enter the following curl to view your Cloud9 instance ID

```
$ curl http://169.254.169.254/latest/meta-data/instance-id
```

```
$ curl http://169.254.169.254/latest/meta-data/instance-id  
i-023d71de1e4597b47
```

2. This instance information can be useful if there are issues and you need to  
an AWS support ticket
3. Verify our working directory

```
$ pwd
```

4. This displays the **/home/ec2-user/environment** folder that is our  
working directory on top of the **/home/ec2-user** standard Linux  
on Amazon and Ubuntu Linux variants in AWS
5. Execute the following commands to install the KiND tool.

```
$ curl -Lo ./kind https://github.com/kubernetes-sigs/kind/releases/  
download/v0.20.0/kind-linux-amd64
```

```
$ chmod +x ./kind
```

```
$ sudo mv ./kind /usr/local/bin/kind
```

6. Test your KiND installation

```
ec2-user:~/environment $ kind --help
```

```
container 'nodes'
```

```
Usage:
```

```
kind [command]
```

Congratulations, you've successfully installed KiND in your  
AWS Cloud9 IDE