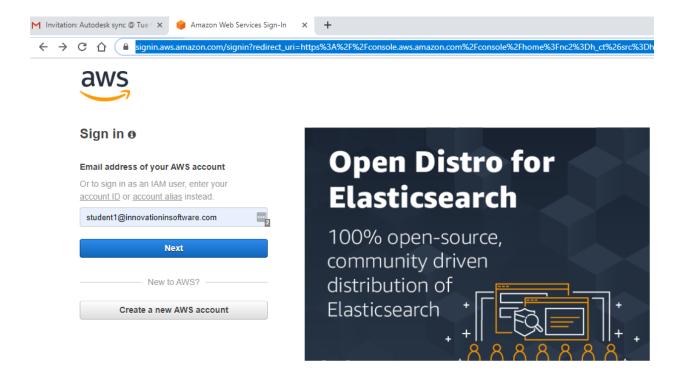
Lab 01: Configure KiND Environment

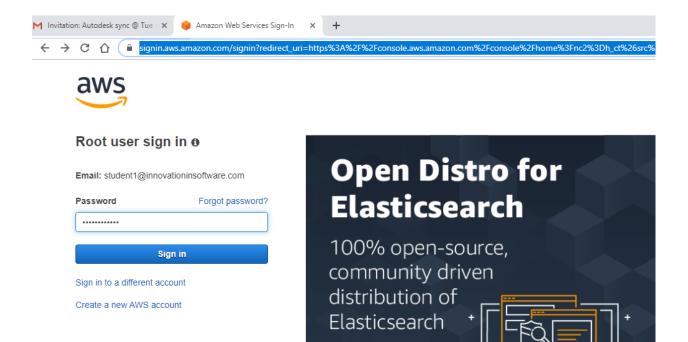
Step 1: Sign in with root user

 Sign in to the AWS Management Console at with the <u>student#@innovationinsoftware.com</u> credentials provided by the session instructor.

https://signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3Fnc2%3Dh_ct%26src%3Dheader-

signin%26state%3DhashArgs%2523%26isauthcode%3Dtrue&client_id=arn%3Aaws%3Aiam%3A%3A0154 28540659%3Auser%2Fhomepage&forceMobileApp=0





Step 2: Capture Organization Console URL

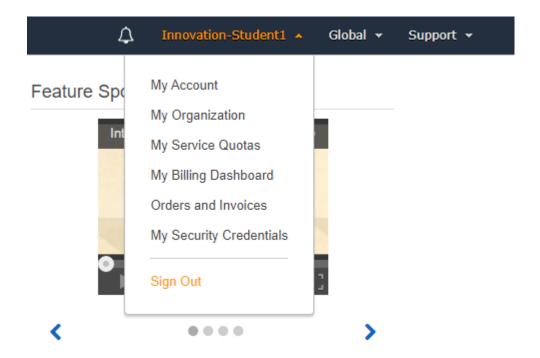
- 1. From the IAM left side menu, choose **Dashboard**.
- 2. Click the **Copy to clipboard** box next to the IAM users sign-in link:

Welcome to Identity and Access Management IAM users sign-in link: https://544867468218.signin.aws.amazon.com/console @1

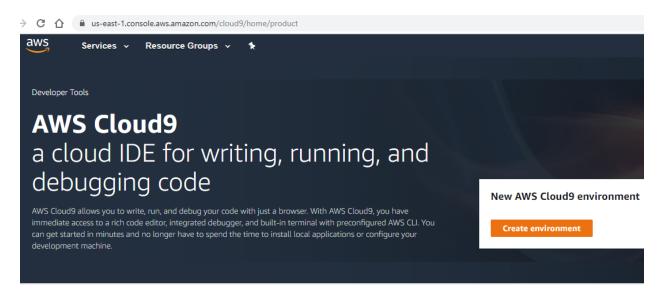
Step 3: Create Cloud9 Environment

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.

1. Since we are already signed in to the AWS Management Console as our student#@innovationinsoftware.com account root user, sign out of the console.



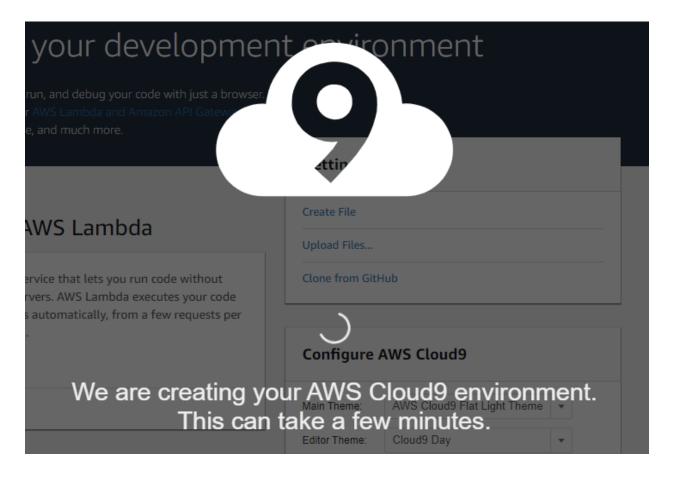
- 2. Login to AWS console for our organization by pasting the sign-in link that we copied into the browser. For example,
 - https://12344867468218.signin.aws.amazon.com/console
- In the Find Services filter box enter Cloud9 and select that service



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

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

- Enter our environment optional Description as Environment for working with our AWS Services or similar
- 7. Select Next Step
- 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 Next step
- 11. Select Create environment



12. 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 open an AWS support ticket
- 3. Verify our working directory with
 - \$ pwd
- 4. This displays the /home/ec2-user/environment folder that is our environment working directory on top of the /home/ec2-user standard Linux user home folder, on Amazon and Ubuntu Linux variants in AWS
- 5. Execute the following commands to install the KiND tool.
- \$ curl -Lo ./kind https://kind.sigs.k8s.io/dl/v0.17.0/kind-linux-amd64
- \$ chmod +x ./kind
- \$ sudo mv ./kind /usr/local/bin/kind
 - 6. Test your KiND installation

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

kind creates and manages local Kubernetes clusters using Docker container 'nodes'

Usage:

```
kind [command]
```

Congratulations, you've successfully completed the installation of KiND in your AWS Cloud9 IDE