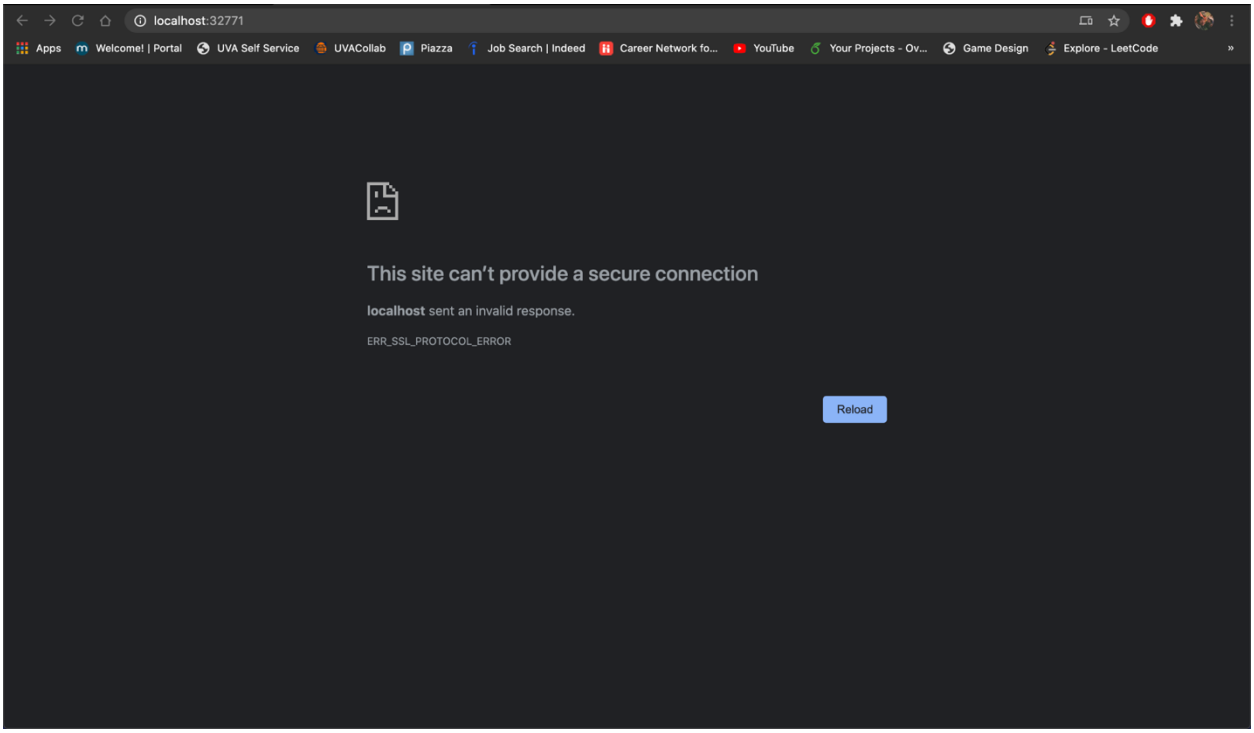
1) PA 4 Can't Access Webpage

Is anyone getting this? I followed the tutorial step by step, getting everything that I should be, but I can't access the webpage.



Solution:
(1) use same port from the tutorial.
(2) Nvm, the issue was i was using https instead of http.

2) I've been stuck on the last deliverable for the past couple of hours and I was unable to attend office hours. I've been stuck on the aws-compose.yml file portion of the homework. I've done all the steps up to that point. I tried adding "--create-log-groups to the end of the command and it still does not work. My partner is running into the same issue, so I was hoping that we could figure out what the issue was. We made a key-pair value and made our cluster. I cannot get past this one command. Thank you.

Solution:
(1) did you configured the access key and secret key properly as mentioned in the slide?

Student: I have done that from the slides. I went to my security credentials and placed them where they needed to be

3) Good note by student:
Go to https://console.aws.amazon.com/ec2autoscaling/home to see if you have an entry there. If there is one, delete it. I discovered that my foodtruck EC2 instance keeps coming back even though I terminated it, and it seems like the auto scaling option (probably set via the parameter --size 1 when running ecs-cli

up) is the reason behind that. (Just to play safe, I deleted the entry in Launch configurations after that.) Then, you can terminate your EC2 instance again.

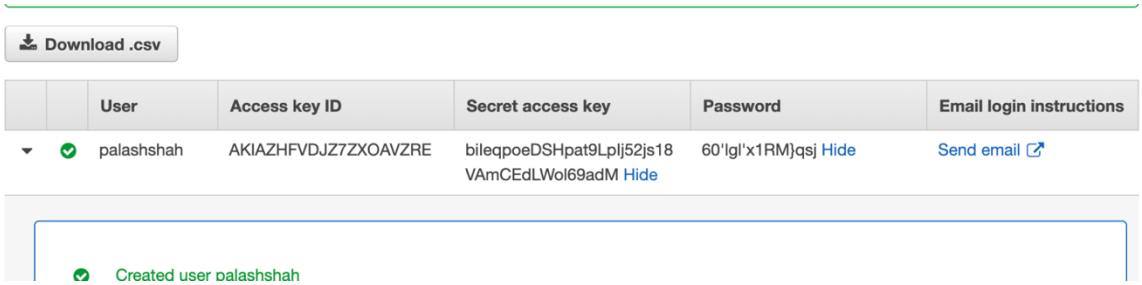
4) When I run this command: ecs-cli up --keypair ecs --capability-iam --size 1 --instance-type t2.medium. I get this error:

FATA[0000] Error executing 'up': describe instance type offerings: UnauthorizedOperation: You are not authorized to perform this operation.

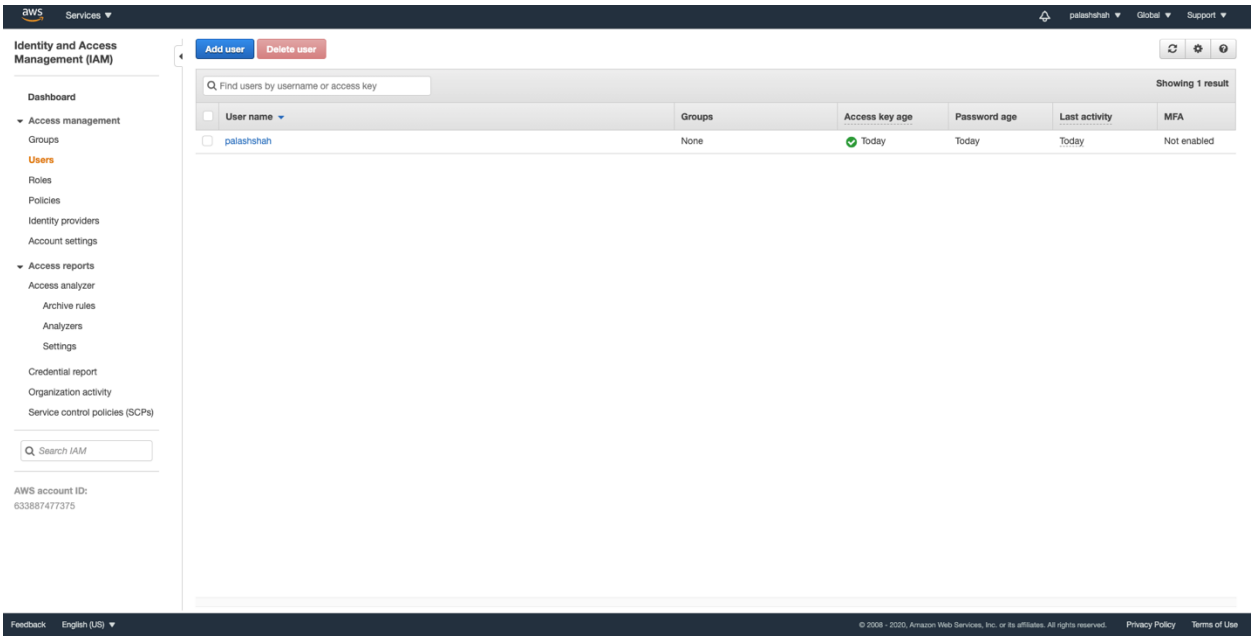
status code: 403, request id: 626d0716-49e3-4386-bb7c-a29da9ea0280. I tried changing the size to 2 and the instance type to t2.micro. I used these access keys for the user I created to configure it:

I also used this tutorial to configure it: https://docs.aws.amazon.com/AmazonECS/latest/developerguide/ECS_CLI_Configuration.html. When I run the previous command ecs-cli configure --region us-east-1 --cluster foodtrucks I get this:

INFO[0000] Saved ECS CLI cluster configuration default.



Solution:
Instructor: can you try creating the access key on i-am role in aws?
Student: didn't I already do this creation of the role?

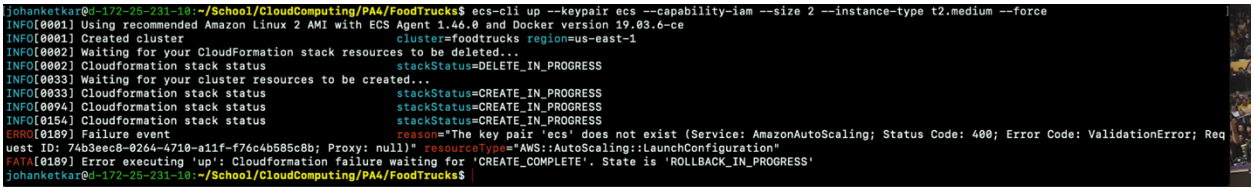


should i be adding tags to this or something?

instructor: I think creating tags will not be necessary. We can check the error during office hour.
Student: should I be using --ecs-profile? how?
Instructor: I dont think it should be necessary. It seems it is not recognizing the keypair name. Can you check the name of your key pair?
student: maybe i'm not getting the access key correctly? where should i be getting this from?
Instructor: As mentioned in the tutorial, there are two steps:
The first step will involve creating a profile that we'll use for the rest of the tutorial. To continue, you'll need your AWS_ACCESS_KEY_ID and AWS_SECRET_ACCESS_KEY. To obtain these, follow the steps as detailed under the section titled Access Key and Secret Access Key from the security credentials as PA3.

Next, we need to get a keypair which we'll be using to log into the instances. Head over to your EC2 Console and create a new keypair. Download the keypair and store it in a safe location. Another thing to note before you move away from this screen is the region name. In my case, I have named my key - ecs and set my region as us-east-1. This is what I'll assume for the rest of this walkthrough.

5) key pair ecstatics does not exist error



Solution:

Instructor: Did you configure the key as mentioned in the slide?

Student: yes

Instructor: Did you create a key pair named ecs for ec2 instance as mentioned in the tutorial?

Student: nope. that was the problem thanks Tanmoy

6) PA4 Can't get rid of static-site

No matter what I do, the "Hello Docker!" static-site always appears on localhost:8888

I've stopped and removed all docker containers, and it still sometimes shows up. When I try to build my catnip image and go to localhost:8888 (to see the cat gif) the static-site shows up again.

I'm at a loss for why this is happening. I even removed all my docker images, restarted the tutorial and checked localhost:8888 when I got past the 'docker run -it busybox sh' command (before the static-site section) and the "Hello Docker!" page still showed up. This webpage is haunting me.

Has this happened to anyone else?

Solution:
Yes, I was having the same issue -- localhost kept going to the Docker tutorial that first appears when you get Docker Desktop. I found this on Stack Overflow and it helped me resolve the issue.

7) Not enough storage

I tried changing the command to

ecs-cli up --keypair ecs --capability-iam --size 1 --instance-type t2.medium

And changing the value in the .yml file to 1004144000

But am still getting this error every time:

```
INFO[0000] Using ECS task definition                     TaskDefinition="aws-ecs:2"
INFO[0000] Auto-enabling ECS Managed Tags
INFO[0000] Couldn't run containers                       reason="RESOURCE:MEMORY"
```

I'm on a Mac and it has like 65 GB of storage available, is that not enough? What can I do to get around this? I do not think I can delete anymore things.

Solution:

I was able to get it to work, I had only changed one of the mem_limit to 1004144000 but I needed to change both in the .yml file.

Plus run this command at the end when doing compose up

--create-log-groups

8) Task failed to start

After I ran the ecs-cli compose --file aws-compose.yml up, I got task failed to start. The messages I received in the terminal were starting container, describe container, and stopped container. I was expecting started container instead of stopped. Does anyone know what may be causing this?

Thanks

Solution:

I ran this command at the end of that and it worked

--create-log-groups

9) PA aws-compose.yml

For 3.4, I don't see aws-compose.yml I only have docker-compose.yml

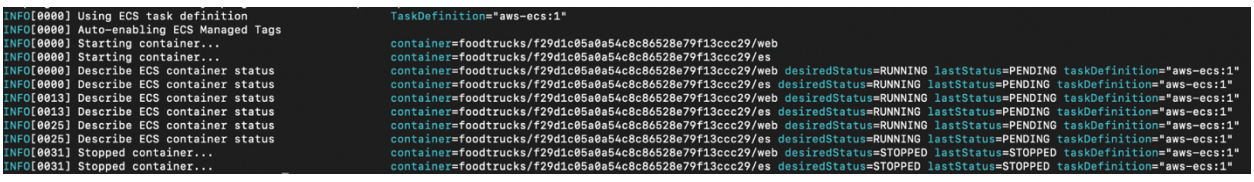
Did I do something wrong?

Solution:
(1)It's the docker-compose file in the aws-eli folder in food trucks. I guess they assume you will rename it but it's not necessary to do that

(2) This file should be inside foodtrucks directory after you clone the directory using the command git clone https://github.com/prakhar1989/FoodTrucks

10) ecs-cli compose up never starts

For the last part of the tutorial, I followed the suggestions in the document of changing the memory size of the containers to 1004144000 as well as having a t2.medium instance but I still get the containers are stopped. Are there any other fixes to this problem?



Solution:

Also run the command ecs-cli up by adding the following at the end when doing compose up

--create-log-groups

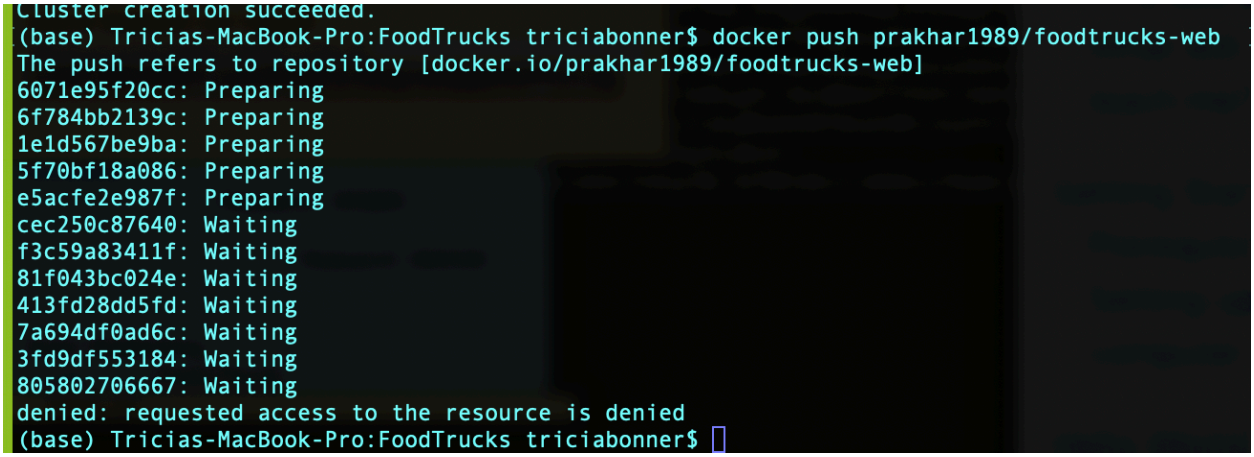
11) PA4 Step 3.4

Do we have to create new AWS security credentials or do we use the ones from PA3? I keep getting permission denied when I try to run this command

ecs-cli configure profile --profile-name
profile_name --access-key $AWS_ACCESS_KEY_ID --
secret-key $AWS_SECRET_ACCESS_KEY

Solution:
student: I don't think you configured ecs-cli properly, make sure you do all 4 steps and setup chmod correctly

12) PA4 Denied Error



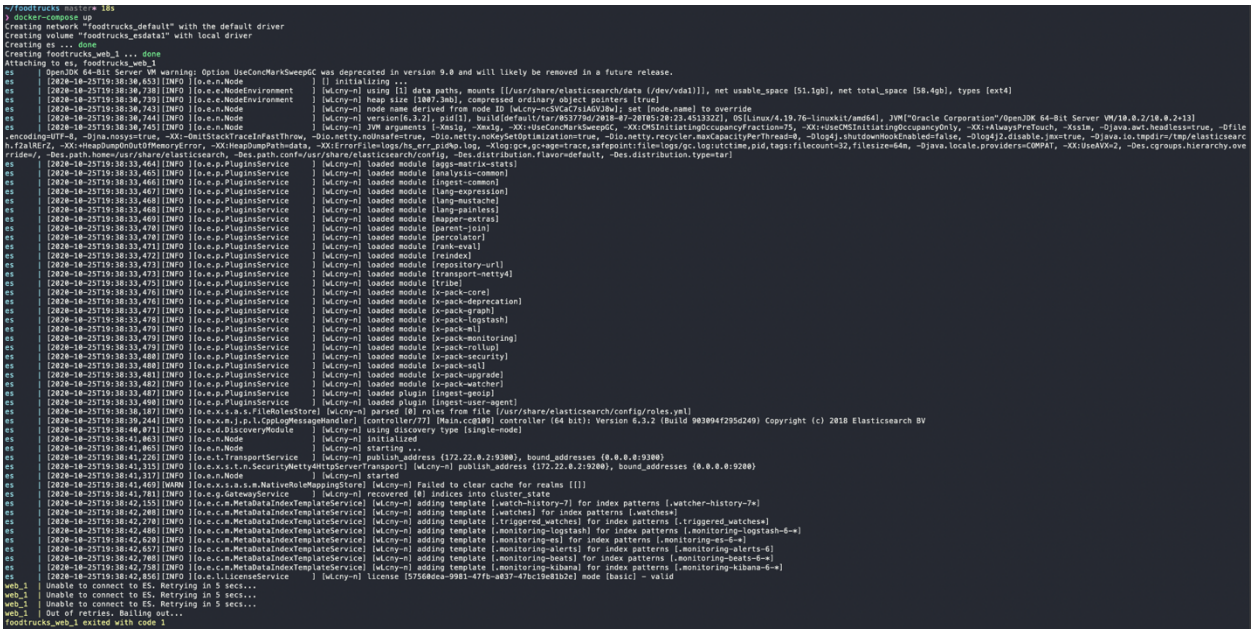
I keep getting this error, is there a way to fix it? I tried restarting clusters and using different access keys, but this keeps happening.

Soluton:

Please use your dockerhub user name in place of the prakhar1989 while executing the command

13) Error when running docker-compose up (PA4)

Hi, for some reason, everytime I run docker-compose up, I run into this error:



This is my docker-compose.yml (no changes from tutorial)

```
version: "3"
services:
  es:
    image: docker.elastic.co/elasticsearch/elasticsearch:6.3.2
    container_name: es
    environment:
      - discovery.type=single-node
    ports:
      - 9200:9200
    volumes:
      - esdata1:/usr/share/elasticsearch/data
  web:
    image: prakhar1989/foodtrucks-web
    command: python3 app.py
    depends_on:
      - es
    ports:
      - 5000:5000
    volumes:
      - ./flask-app:/opt/flask-app
volumes:
  esdata1:
    driver: local
```

Please let me know what sources of error there could be. Thank you!

Solution:

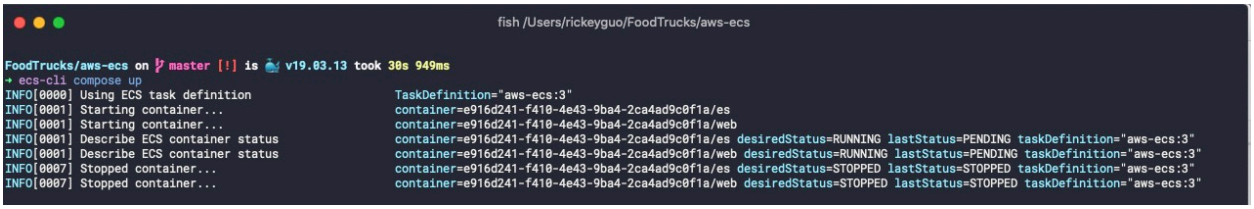
"I found out that you had to go to app.py in flask_app folder and change the time.sleep(5) to time.sleep(15)! This worked! "

14) PA4 stopped containers

Is there anything else we can do to fix the "Stopped container" error at the end of the tutorial?

I am already creating the instance as t2.medium, and the memory size for both containers is

1004144000 bytes. I have way more than enough storage and RAM on my machine to handle docker so that's not the problem.



Solution:

Instructor: Can you please post the error log so that we can see the reason behind the stopped container?

Student: That would be from the CloudWatch Management Console not running "docker container logs" locally right?

I figured it out. I was reading the documentation on getting error logs on this page and realized that I was failing to create log groups properly. The solution is to include an option in the Amazon ECS task definitions: "awslogs-create-group", which is also the command that resolved @227.

15) In the docker tutorial, when we're supposed to create the dockerfile for catnip I keep getting this error in my terminal:

my_username@name-MacBook-Pro desktop % docker build -t my_username/catnip .

[+] Building 0.0s (2/2) FINISHED

=> [internal] load build definition from Dockerfile 0.0s

=> => transferring dockerfile: 2B 0.0s

=> [internal] load .dockerignore 0.0s

=> => transferring context: 2B 0.0s

failed to solve with frontend dockerfile.v0: failed to read dockerfile: open /var/lib/docker/tmp/buildkit-mount208835202/Dockerfile: no such file or directory

Here is where I am in the
tutorial:

> The primary purpose of `CMD` is to tell the container which command it should run when it is started. With that, our `Dockerfile` is now ready. This is how it looks -
>
> ```
> FROM python:3
>
> # set a directory for the app
> WORKDIR /usr/src/app
>
> # copy all the files to the container
> COPY . .
>
> # install dependencies
> RUN pip install --no-cache-dir -r requirements.txt
>
> # define the port number the container should expose
> EXPOSE 5000
>
> # run the command
> CMD ["python", "./app.py"]
> ```
>
> Now that we have our `Dockerfile`, we can build our image. The `docker build` command does the heavy-lifting of creating a Docker image from a `Dockerfile`.
>
> The section below shows you the output of running the same. Before you run the command yourself (don't forget the period), make sure to replace my username with yours. This username should be the same one you created when you registered on Docker hub. If you haven't done that yet, please go ahead and create an account. The `docker build` command is quite simple - it takes an optional tag name with `-t` and a location of the directory containing the `Dockerfile`.

My dockerfile's path is in /Users/my_name

note that i just replaced the actual path with my_name for anonymity.

Solution:

Instructor: Can you double check your path ? We can check the issue during office hour.

Student: what should the path point to?

Instructor: Are you inside cd docker-curriculum/flask-app directory?
Also check running the command using prakhar1989 instead of your docker hub user name? Post the screenshot here if any error occurs, it would help us find the source of error.

Student: oh do we have to modify the dockerfile inside that directory? i created my own in a seperate directory. it worked!

16) PA4 Unable to Create Environment

I am getting an error related to launching my application environment. I followed the tutorial and waited about 20 minutes, so I am not sure why my application environment isn't working.

Time	Type	Details
2020-10-24 22:12:22 UTC-0400	INFO	Environment health has transitioned to Pending. Initialization in progress (running for 32 seconds). There are no instances.
2020-10-24 22:12:11 UTC-0400	INFO	Launched environment: CatnipYolo-env. However, there were issues during launch. See event log for details.
2020-10-24 22:12:09 UTC-0400	ERROR	Creating load balancer failed Reason: Default VPC not found (Service: AmazonElasticLoadBalancing; Status Code: 409; Error Code: InvalidConfigurationRequest; Request ID: b02e8ea6-ce8a-471a-9ea1-563a523496fa; Proxy: null)
2020-10-24 22:12:09 UTC-0400	ERROR	Stack named 'awseb-e-qr8rpurymk-stack' aborted operation. Current state: 'CREATE_FAILED' Reason: The following resource(s) failed to create: [AWSEBLoadBalancer].
2020-10-24 22:11:48 UTC-0400	INFO	Using elasticbeanstalk-us-east-1-794809659018 as Amazon S3 storage bucket for environment data.

Solution:
Go to your VPC configurations, create a default VPC. And then, return to this page and try to recreate the environment.

17) Step 3 error

When I run: 'ecs-cli up --keypair ecs --capability-iam --size 2 --instance-type t2.medium'. I'm getting this error:

FATA[0000] Error executing 'up': describe instance type offerings: UnauthorizedOperation: You are not authorized to perform this operation.

status code: 403, request id: 1cfc3df2-a901-443e-8607-516f1e1b49c6

I'm using the regular AWS account.

Solution:

Instructor: Did you run the following command as mentioned in the slide:
ecs-cli configure profile --profile-name
profile_name --access-key $AWS_ACCESS_KEY_ID --
secret-key $AWS_SECRET_ACCESS_KEY

Profile_name : your desired profile name
$AWS_ACCESS_KEY_ID and $AWS_SECRET_ACCESS_KEY: access them
from your AWS security credentials (as in PA3)

Student: Yes, I did.

Instructor: Can you change the instance type parameter to t2,micro and the size parameter to 1 and check again?
We can also check the error during office hour.

Student: It didn't work. But I will come to oh.

When I run the configure command I get 'INFO[0000] Saved ECS CLI cluster configuration default.'

Instead of: INFO[0000] Saved ECS CLI configuration for cluster (foodtrucks)

Which might be causing the problem.

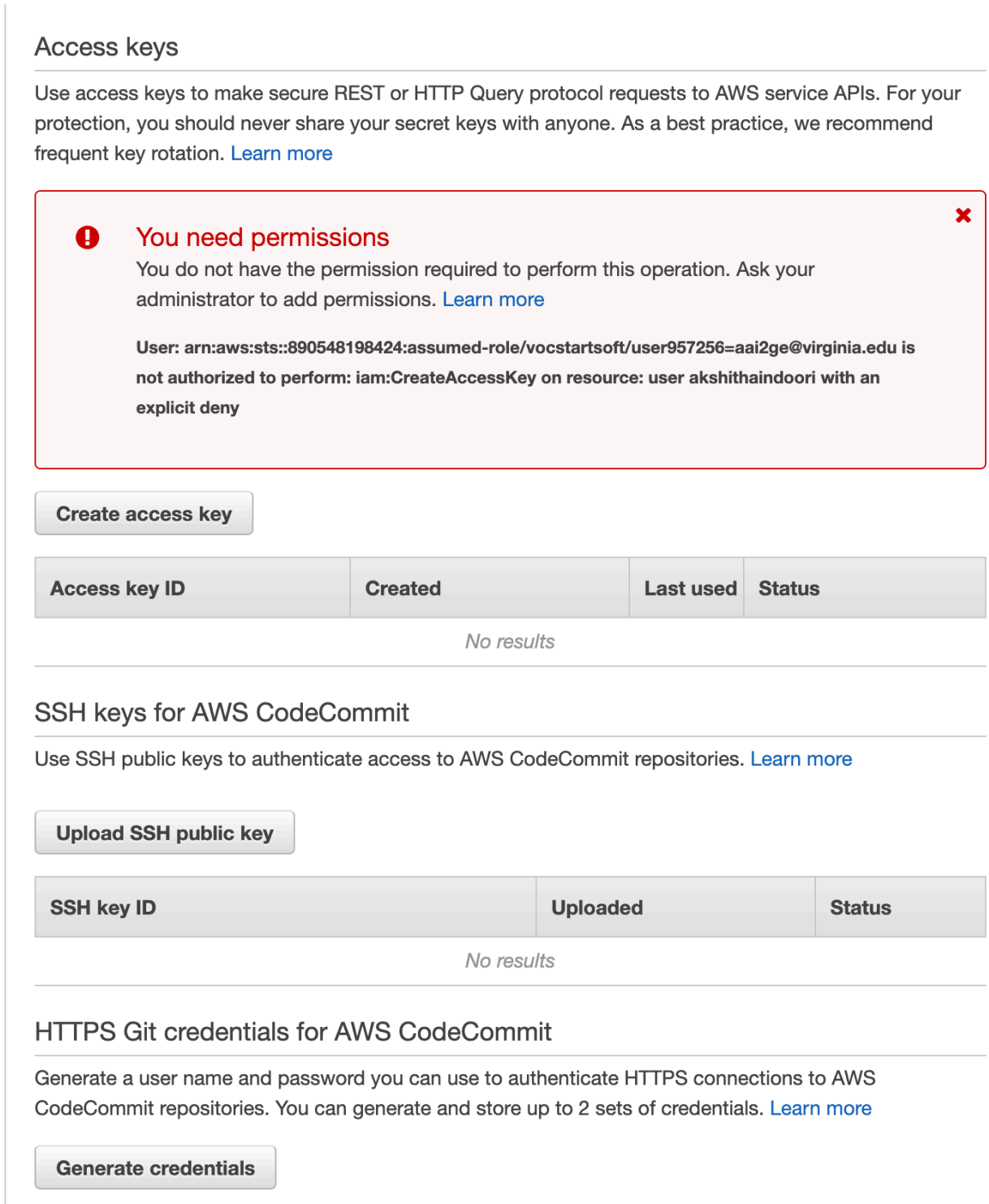
Did you figure this out? I'm getting the same error.

No, I wasn't able to yet.

I'm getting this error as well. Any ideas?

I am also getting this error.

18) PA4 AWS IAM error



I'm trying to create access keys for an IAM user using educate account but I'm getting this error:

Solution:

I guess currently AWS educate does not provide IAM access. You can use your credentials from your AWS account as in PA3. If you have created your account within one year, it should be covered by your free tier access. Remember to terminate your instance after your assignment is complete.