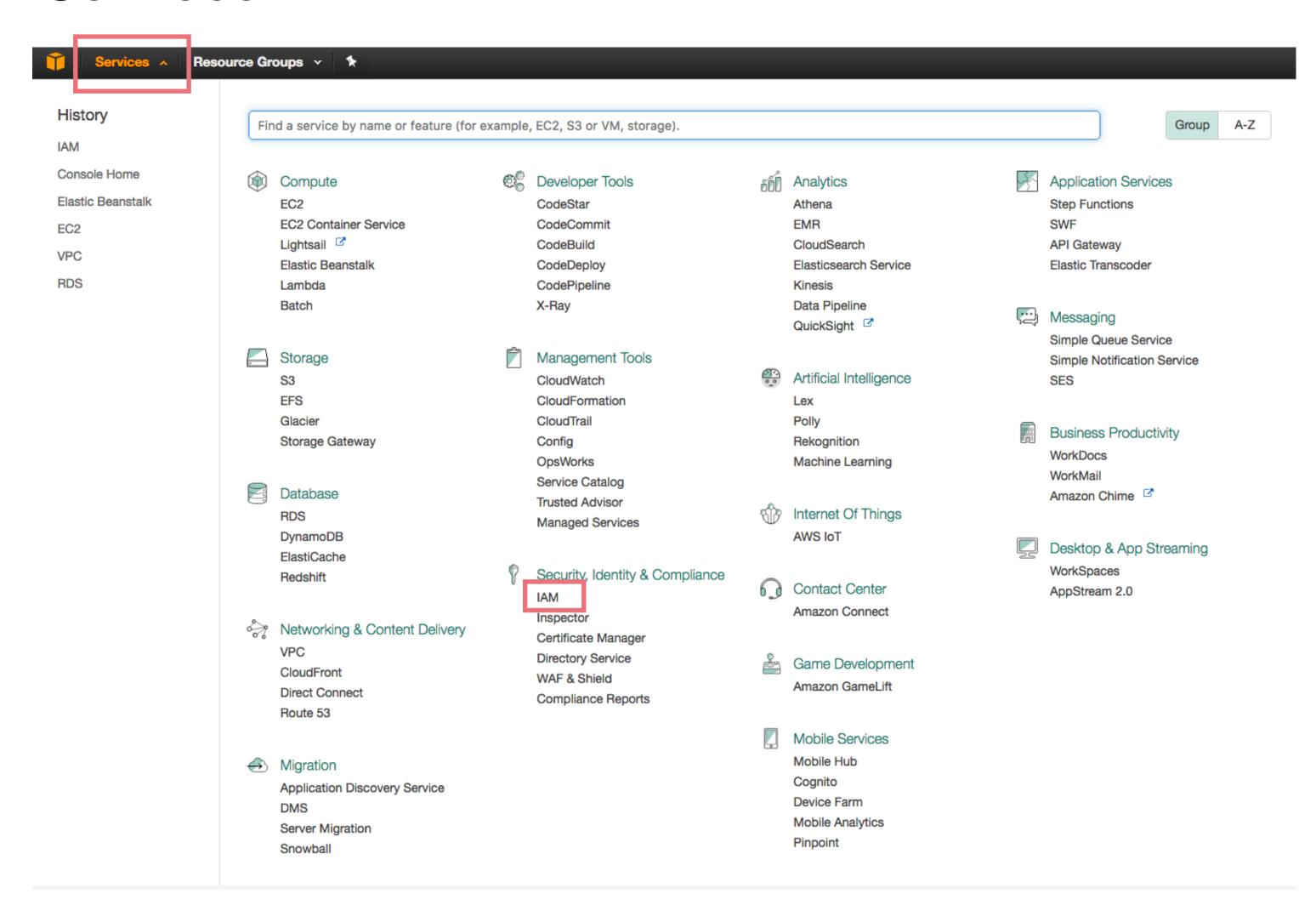
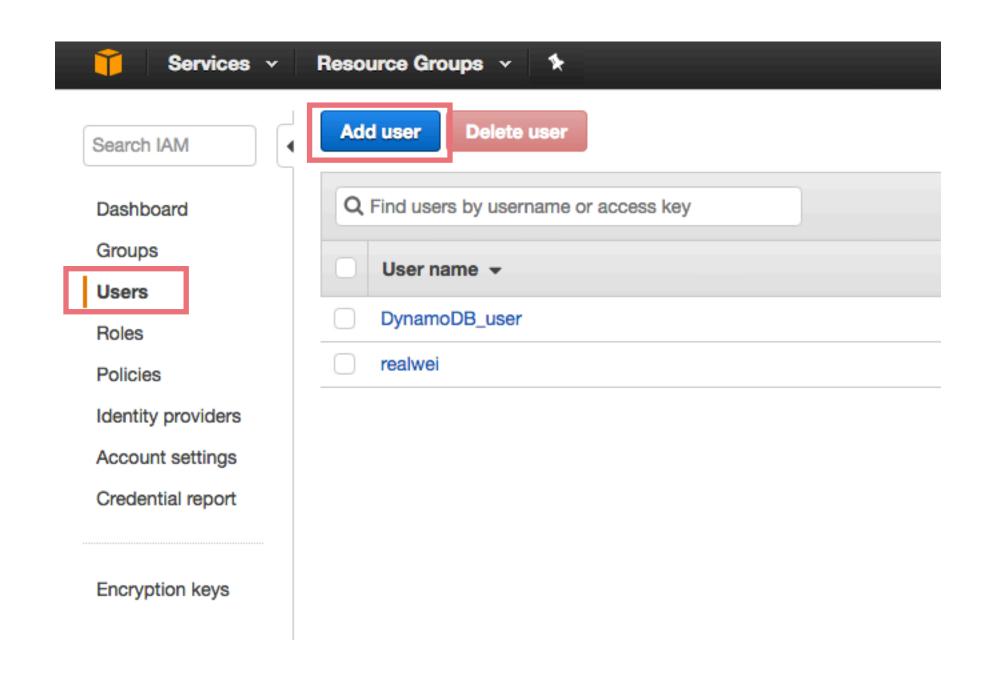
Lab 9 Deploy your app to AWS

Datalab

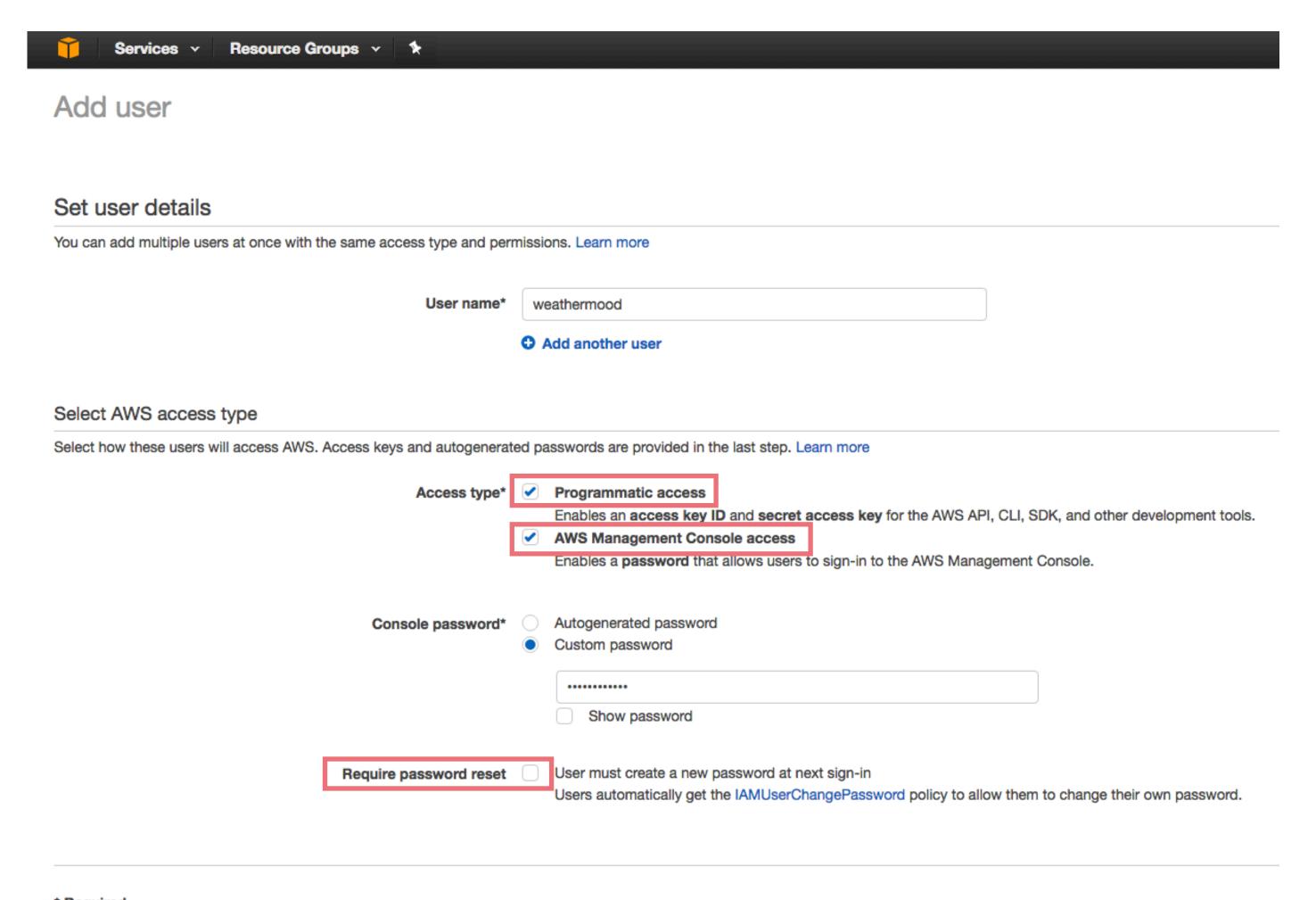
Services -> IAM



- For security reason, we have to create new user with less permissions.
- Users -> Add user

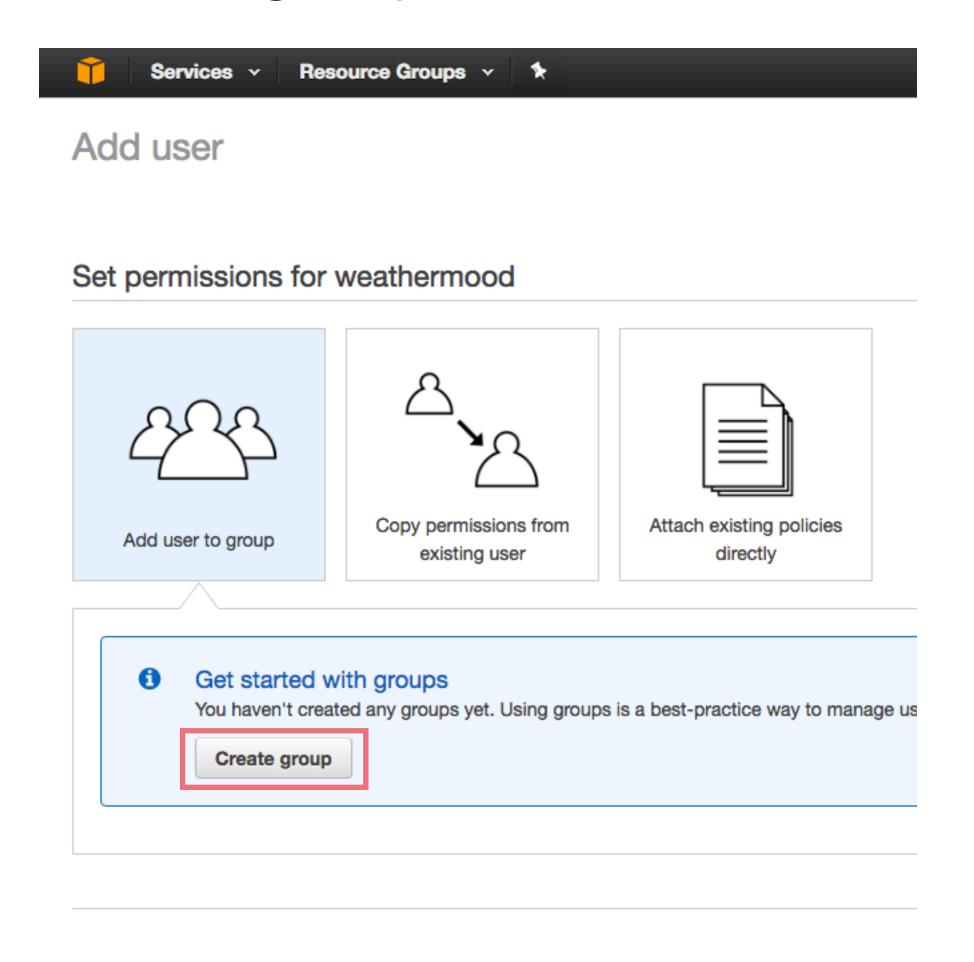


- Check "Programmatic access" and "AWS Management Console access"
- Uncheck "Require password reset" if you want to keep the custom password

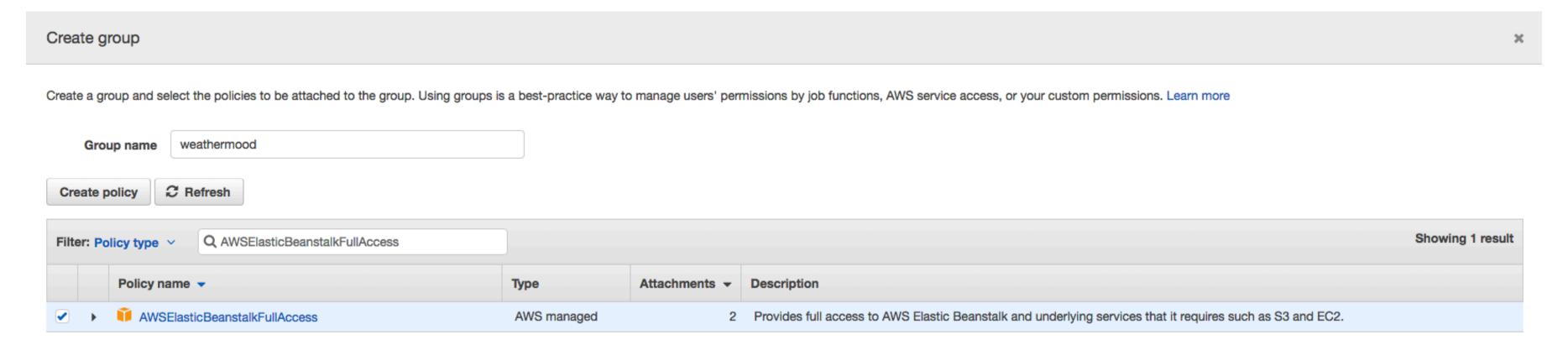


^{*} Required

Create group

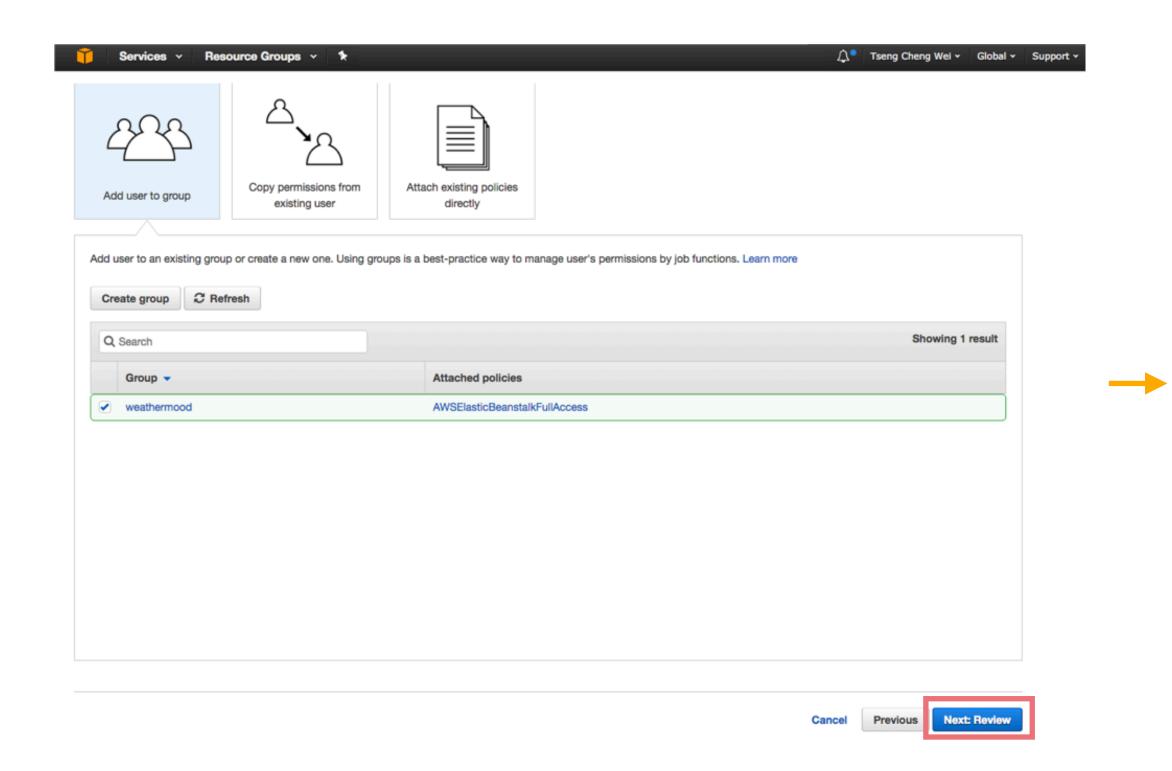


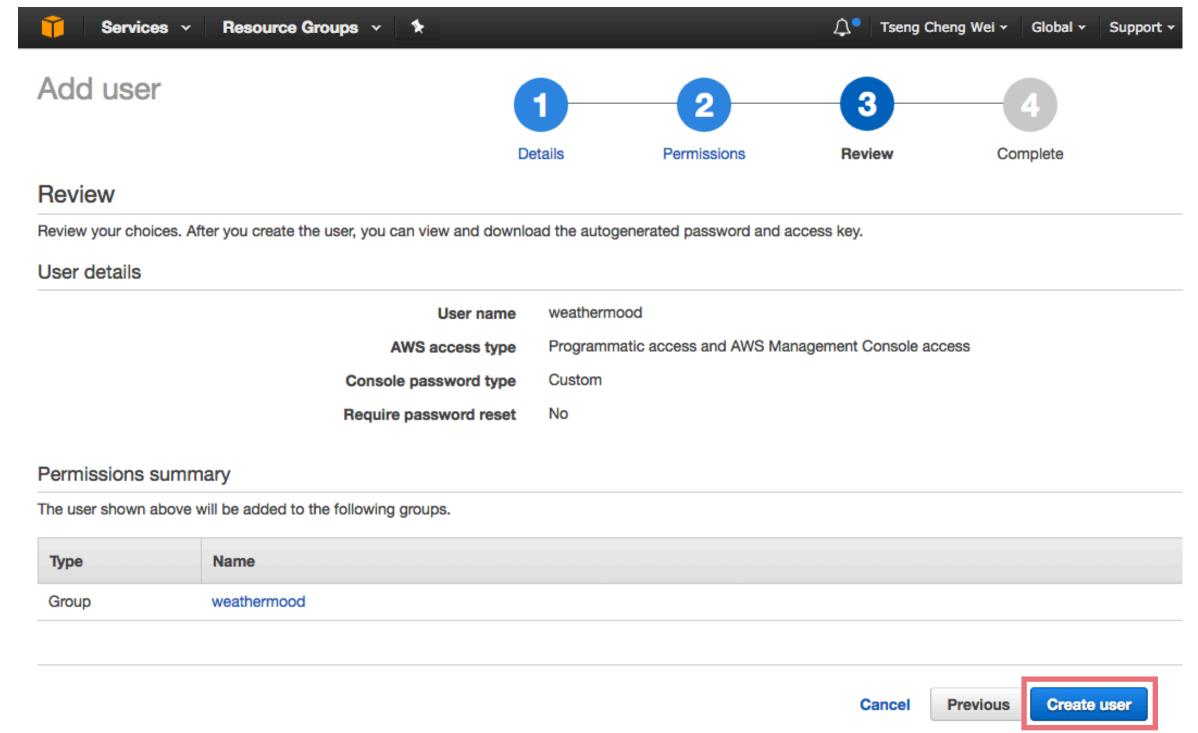
- Search "AWSElasticBeanstalkFullAccess"
- You can modify permissions in IAM -> Groups afterward



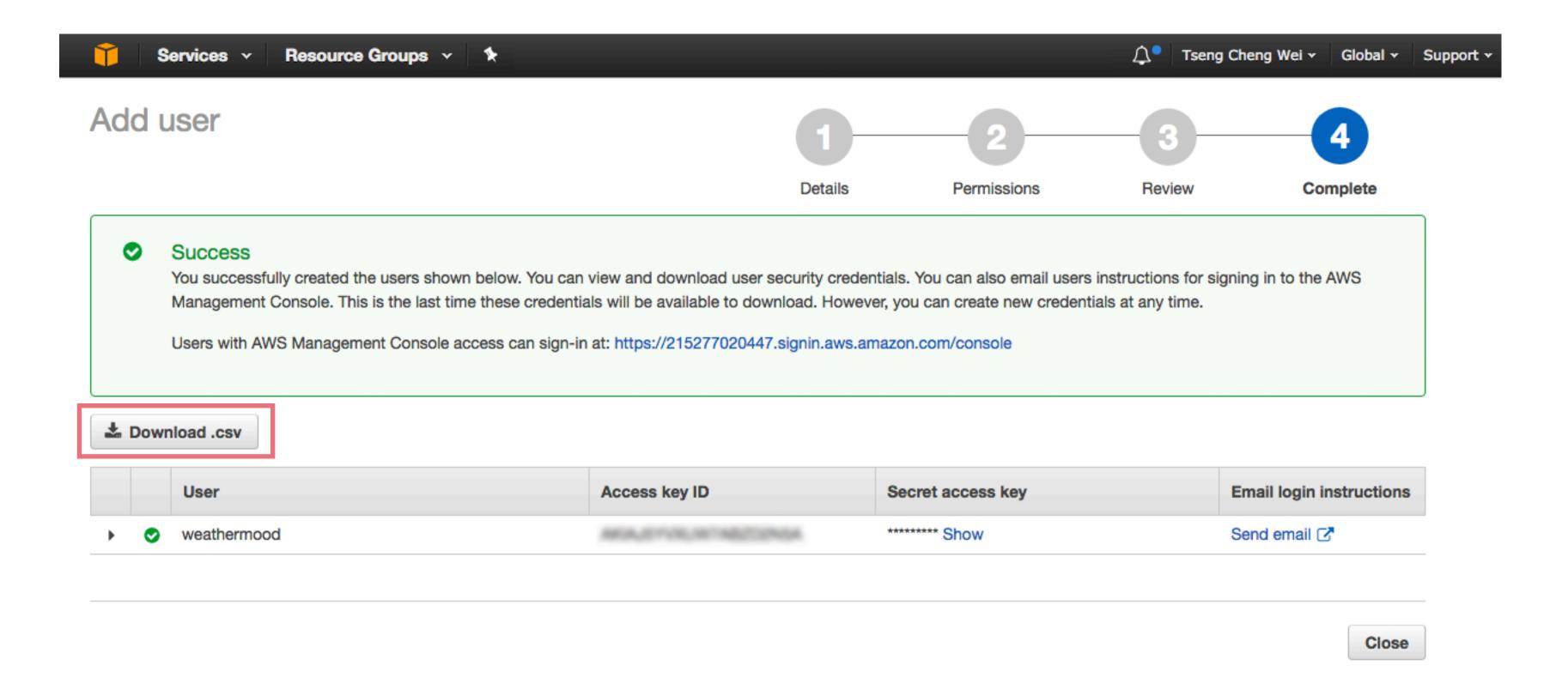


Next: Review -> Create user





Download .csv file



• pip install --upgrade awsebcli

// under weathermood-server

eb init

```
Select a default region
1) us-east-1 : US East (N. Virginia)
2) us-west-1 : US West (N. California)
3) us-west-2 : US West (Oregon)
4) eu-west-1 : EU (Ireland)
5) eu-central-1 : EU (Frankfurt)
6) ap-south-1 : Asia Pacific (Mumbai)
7) ap-southeast-1 : Asia Pacific (Singapore)
8) ap-southeast-2 : Asia Pacific (Sydney)
9) ap-northeast-1 : Asia Pacific (Tokyo)
10) ap-northeast-2 : Asia Pacific (Seoul)
11) sa-east-1 : South America (Sao Paulo)
12) cn-north-1 : China (Beijing)
13) us-east-2 : US East (Ohio)
14) ca-central-1 : Canada (Central)
<u>15) eu-west-2 : EU</u> (London)
 (default is 3): 3
Select an application to use
 ) [ Create new Application ]
 default is 2): 2
Enter Application Name
(default is "weathermood-server"): weathermood-server
Application weathermood-server has been created.
It appears you are using Docker. Is this correct?
(Y/n): Y
Select a platform version.
1) Docker 1.12.6
 ) Docker 1.11.2
3) Docker 1.9.1
4) Docker 1.7.1
5) Docker 1.6.2
6) Docker 1.5.0
(default is 1): 1
Note: Elastic Beanstalk now supports AWS CodeCommit; a <u>fully-managed</u> source control service.
Do you wish to continue with CodeCommit? (y/N) (default is n): n
<u>Do you wan</u>t to set up SSH for your instances?
(Y/n): n
```

The cli will ask for your access key and secret key for the first time

```
ERROR: The current user does not have the correct permissions. Reason: Operation Denied. The security token included in the reques t is invalid.

You have not yet set up your credentials or your credentials are incorrect
You must provide your credentials.

(aws-access-id):
(aws-secret-key):
```

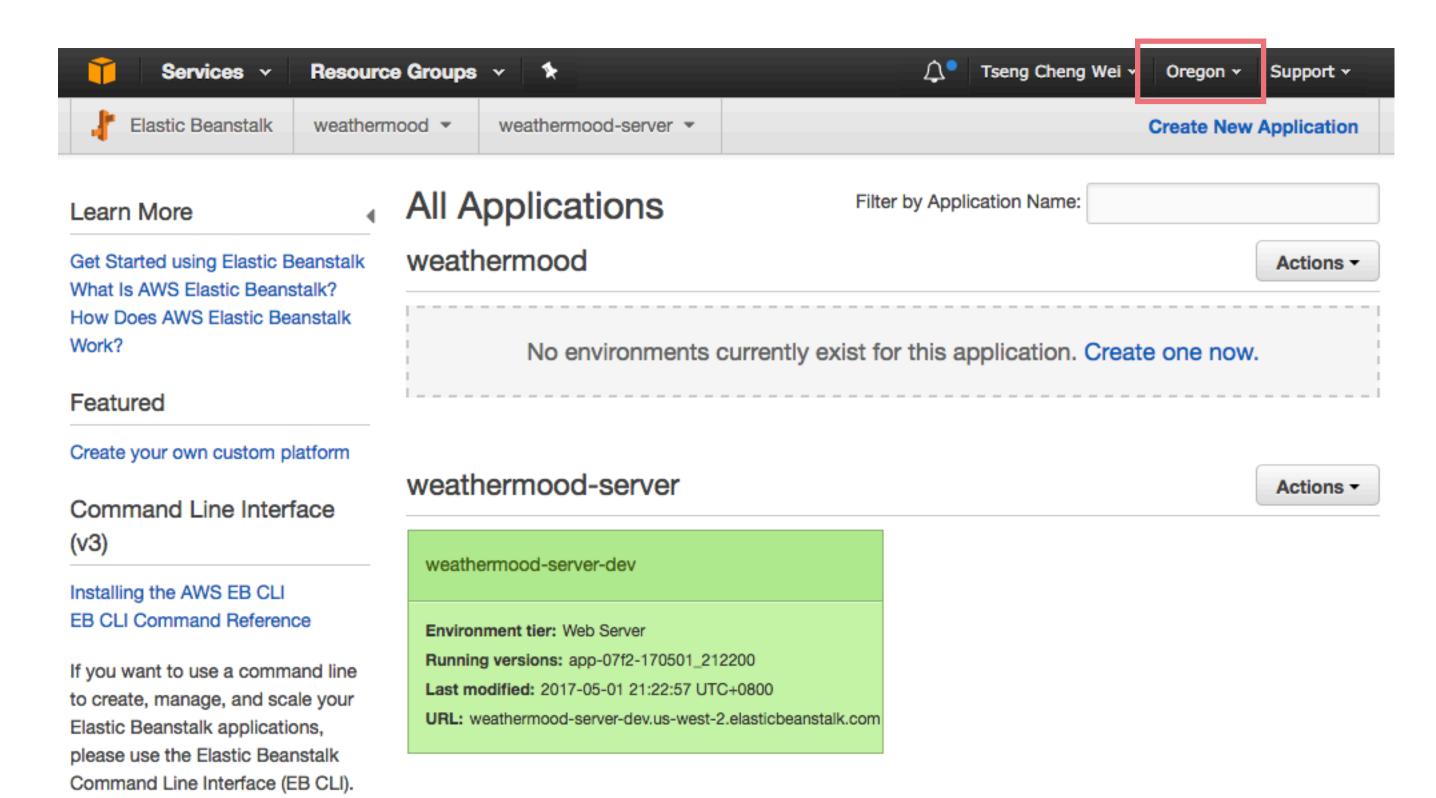
eb create --single
 Enter weathermood-\${group id} for DNS CNAME prefix
 e.g. weathermood-1 for group 1

```
~/Documents/Projects/ss/weathermood-server // master eb create --single
Enter Environment Name
(default is weathermood-server-dev):
Enter DNS CNAME prefix
(default is weathermood-server-dev):
Creating application version archive "app-5f5e-170501_184230".
Uploading weathermood-server/app-5f5e-170501_184230.zip to S3. This may take a while.
Upload Complete.
Environment details for: weathermood-server-dev
  Application name: weathermood-server
  Region: us-west-2
  Deployed Version: app-5f5e-170501_184230
  Environment ID: e-nfspyamd7p
  Platform: arn:aws:elasticbeanstalk:us-west-2::platform/Docker running on 64bit Amazon
  Tier: WebServer-Standard
  CNAME: weathermood-server-dev.us-west-2.elasticbeanstalk.com
  Updated: 2017-05-01 10:42:39.230000+00:00
Printing Status:
INFO: createEnvironment is starting.
INFO: Using elasticbeanstalk-us-west-2-215277020447 as Amazon S3 storage bucket for envi
INFO: Created EIP: 35.161.172.169
INFO: Created security group named: awseb-e-nfspyamd7p-stack-AWSEBSecurityGroup-VJPZG8P
INFO: Environment health has transitioned to Pending. Initialization in progress (runni
INFO: Waiting for EC2 instances to launch. This may take a few minutes.
INFO: Added instance [i-0ea45d6416fc784a4] to your environment.
INFO: Successfully pulled node:6.10
INFO: Successfully built aws_beanstalk/staging-app
INFO: Docker container 70de32ad0e43 is running aws_beanstalk/current-app.
INFO: Environment health has transitioned from Pending to Info. Initialization in progre
 for 4 minutes).
INFO: Successfully launched environment: weathermood-server-dev
```

eb deploy <env>

 It will deploy committed changes only. Therefore, you have to commit before you deploy.

• If your application is not showing in the AWS console, please choose the region which you deployed you application to.



Security

- Don't upload your accessKey.csv
 (Add it into .gitignore or keep it elsewhere)
- !!!Don't put access key and secret key in you code!!!

Today's Mission

- For each group, implement TODO feature for both server and client
 - Server : model and router
 - Client : api/todos.js
 - And deploy to AWS
- You can deploy server and client to different website
 (Remember to add Access-Control-Allow-Origin in your response header)
- Your client url should be elasticbeanstalk.com/e.g.. http://weathermood-101.us-west-2.elasticbeanstalk.com/
- Submit your code to lab9-weathermood-server
- Deadline: 5/9 23:59