

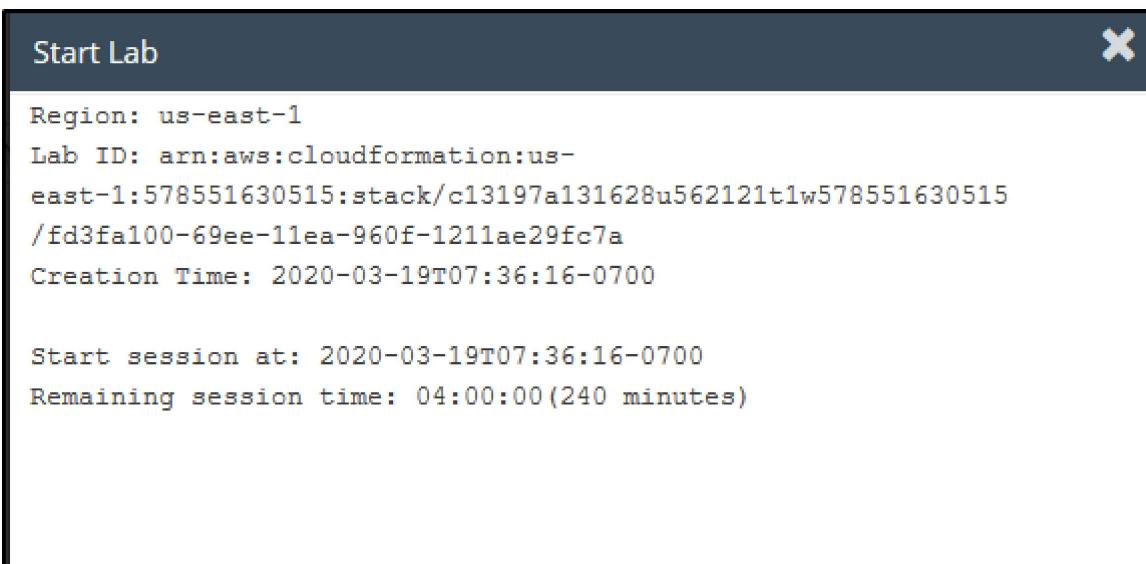
How to complete lab exercises

Starting a Lab

When you are ready to start a lab exercise, click the **Start Lab** button.



This creates a temporary AWS console account, starts a lab timer and starts configuring any services that are required for the lab exercise. You will see a dialogue window showing lab creation progress.



Wait until you see the message **Lab status: ready** then close the dialogue window.

The lab timer starts counting down.



When the counter reaches zero, all the services you have configured will be terminated and your temporary account is deactivated. If you need more time, click the **Start Lab** button again to reset the timer. You can reset the timer as many times as you like.

Opening a Console

Click the **AWS** button.

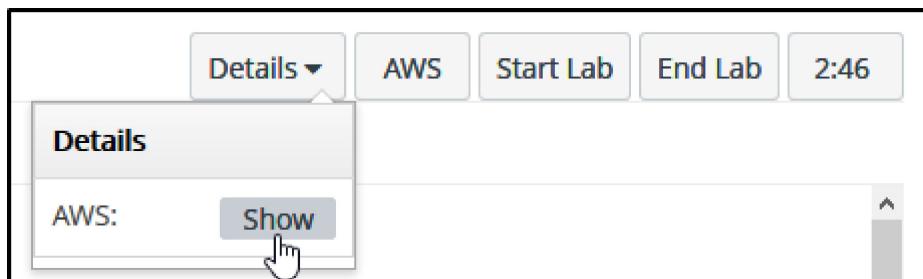


A new tab opens in the AWS Console. You are logged in with the temporary account.

The screenshot shows the AWS Management Console homepage. At the top, there's a navigation bar with links for Services, Resource Groups, a star icon, a bell icon, the URL vocabs/user562121=smartps..., N. Virginia, and Support. Below the navigation bar, the title "AWS Management Console" is displayed. On the left, there's a sidebar titled "AWS services" with a "Find Services" search bar and a "Recently visited services" section containing icons for CloudFormation, Billing, EC2, VPC, and RDS. A "All services" link is also present. On the right, there are two main sections: "Access resources on the go" (with a mobile phone icon) and "Explore AWS" (with links to Amazon SageMaker Studio and Amazon Aurora Machine Learning).

Viewing Lab Details

From the lab page, click **Details** and **Show**.



A dialogue opens showing details of how long you have remaining in the lab, service details such as IP addresses and names that may be required by the exercise, and credentials for SSH or CLI access to your temporary account.

Credentials

Cloud Access

AWS CLI: Show

Cloud Labs

```
Remaining session time: 02:46:04 (167 minutes)
Session started at: 2019-12-31T01:42:24-0800
Session to end at: 2019-12-31T04:42:24-0800

Accumulated lab time: 00:13:56 (14 minutes)

ips -- public:3.87.170.254, private:10.1.11.148
```

SSH key Show Download PEM Download PPK

AWS SSO Download URL

InstanceId	i-03b8cf6bd33280d5d
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Lab Limits

Some services that are not required for the lab exercises may be disabled. You will receive a permission error in the console if you attempt to use a disabled service.

There is a credit limit for each lab exercise. If you reach the credit limit then your temporary account is disabled, your services are terminated and you will not be able to start the lab again. This does not affect the other lab exercises. The credit limit is at least double the amount required to complete the lab exercises.

Stopping a Lab

When you have completed a lab, click the End Lab button.



Any services you have configured will be terminated.

End Lab



```
Region: us-east-1
Lab ID: arn:aws:cloudformation:us-
east-1:121094412659:stack/c10121a110376u562121t1w121094412659
/d8eb0c70-2bb1-11ea-9376-0eb40de15aba
Creation Time: 2019-12-31T01:42:23-0800
```

=====> DELETE has been initiated...

You may close this message box now. Lab resources are terminating ...

It may take five minutes for the lab to be terminated. **It will not be possible to re-start the lab until the termination is complete.**

You can repeat lab exercises as many times as you like until you hit the credit limit. It is not possible to view your credit balance.

Troubleshooting

- Some students experience problems with initializing labs and downloading PEM and PPK files when using Microsoft Internet Explorer or Edge. If you experience this problem, the solution is to use Firefox or Chrome browsers.
- If you receive 'The credentials in your login link were invalid. Please contact your administrator.' Click the here in the error to logout and restart the lab.