

Amazon Web Services Data Engineering Immersion Day

Database Migration Services Student Setup Instructions *March 2020*

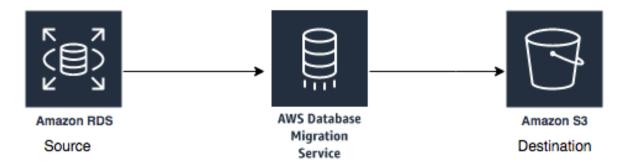
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Introduction

This guide helps students set up the pre-environment for the AWS Database Migration Service (AWS DMS) lab.

AWS DMS required source and destination as shown below:



Your instructor will provide you source database details during main lab to configure source endpoint. If you ran instructor lab to setup your own instance of Postgres database then use instance endpoint from instructor lab.

In this lab, you will complete the following pre-requisite using AWS CloudFormation template deployment:

- 1. Create required VPC setup for AWS DMS instance.
- 2. Create Amazon S₃ bucket for destination end point configuration.
- 3. Create Amazon S₃ buckets for Amazon Athena guery result storage.
- 4. Create required Amazon S₃ bucket policy to put data by AWS DMS service.
- 5. Create AWS Glue Service Role to use in later hands-on workshop.
- 6. Create Amazon Athena workgroup users to use in Athena workshop.
- 7. Create Amazon Lake formation users to use in Lake formation workshop.

Labs are also available in GitHub - https://github.com/aws-samples/data-engineering-for-aws-immersion-day

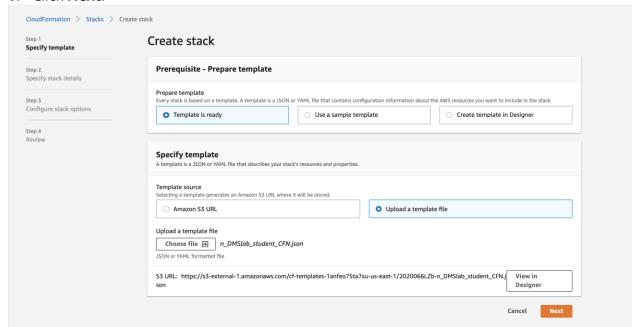
Create the Student Environment

Make sure you select the us-east-1 (Virginia) region

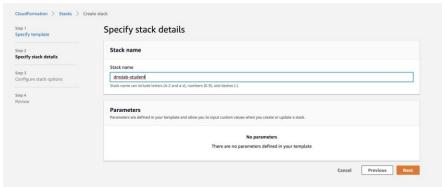
- 1. Sign in to the AWS console where you will host the student environment.
- 2. Navigate to the AWS CloudFormation page.
- 3. On top right corner, click on "Create Stack" and select "With new resources".



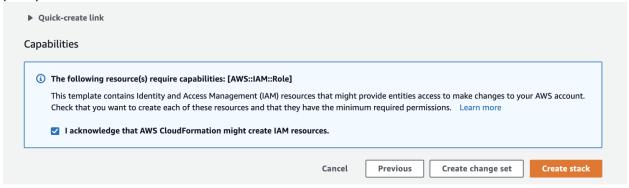
- 4. In "Create Stack" Page, select "Template is ready" and for template source, select "Upload a template file".
- 5. For this lab, you will be using **DMSLab_Student_CFN.json** template.
- Click Next.



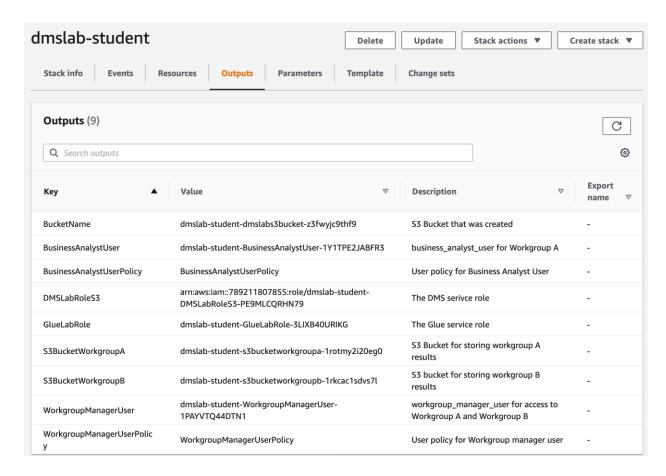
- 7. In Specify stack details, provide a name for "Stack Name" as "dmslab-student".
- 8. Click on Next.



9. In review page, review all the details, scroll down and check the box to acknowledge the policy and then click on **Create Stack**.



10. Launch the stack. It may take 5 minutes for the stack to launch. Go to the **Outputs** tab and note down all resource information in a notepad as you are going to use them in future labs:



Congratulations!!! You have successfully completed student lab and setup all pre-requisite required to run rest of the workshop.

Please proceed to next lab Batch Data Ingestion with DMS.