Amazon Web Services
Data Engineering Immersion Day

Prelab2. Student Environment Setup

August 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 the source database details. If you ran the instructor prelab to setup your own Postgres RDS database, use the output value DMSInstanceEndpoint from your dmslab-instructor CloudFormation deployment.

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

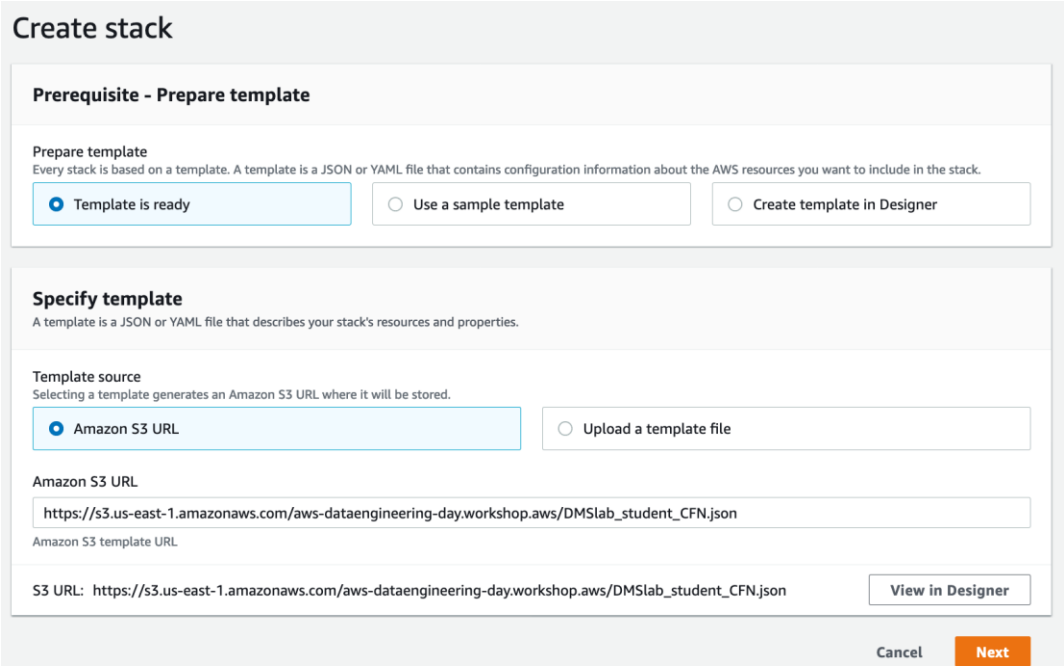
1. Create required VPC setup for AWS DMS instance.
2. Create Amazon S3 bucket for destination end point configuration.
3. Create Amazon S3 buckets for Amazon Athena query result storage.
4. Create required Amazon S3 bucket policy to put data by AWS DMS service.
5. Create AWS Glue Service Role to use 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

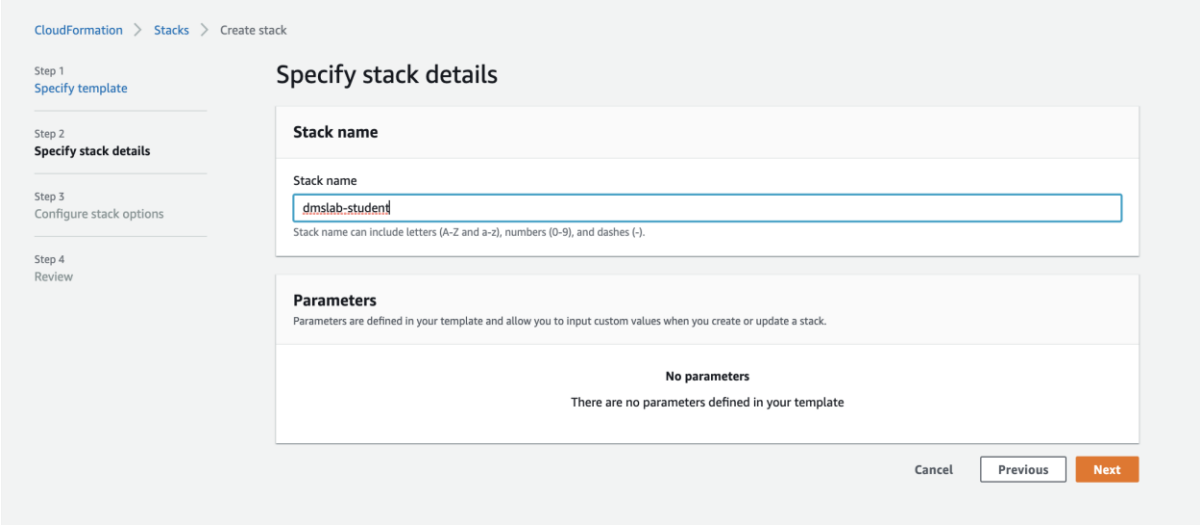
Create the Student Environment

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

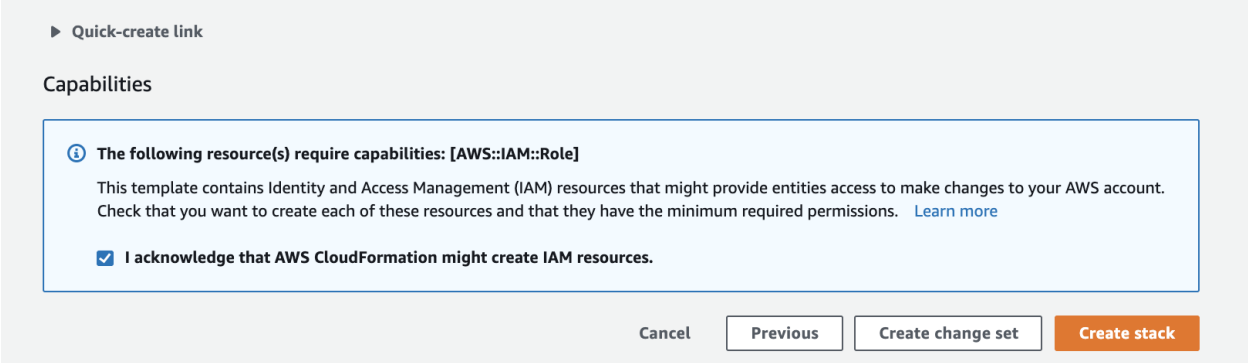
1. Launch the student CloudFormation stack https://console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/new?stackName=dmslab-student&templateURL=https://s3.us-east-1.amazonaws.com/aws-dataengineering-day.workshop.aws/DMSlab_student_CFN.json



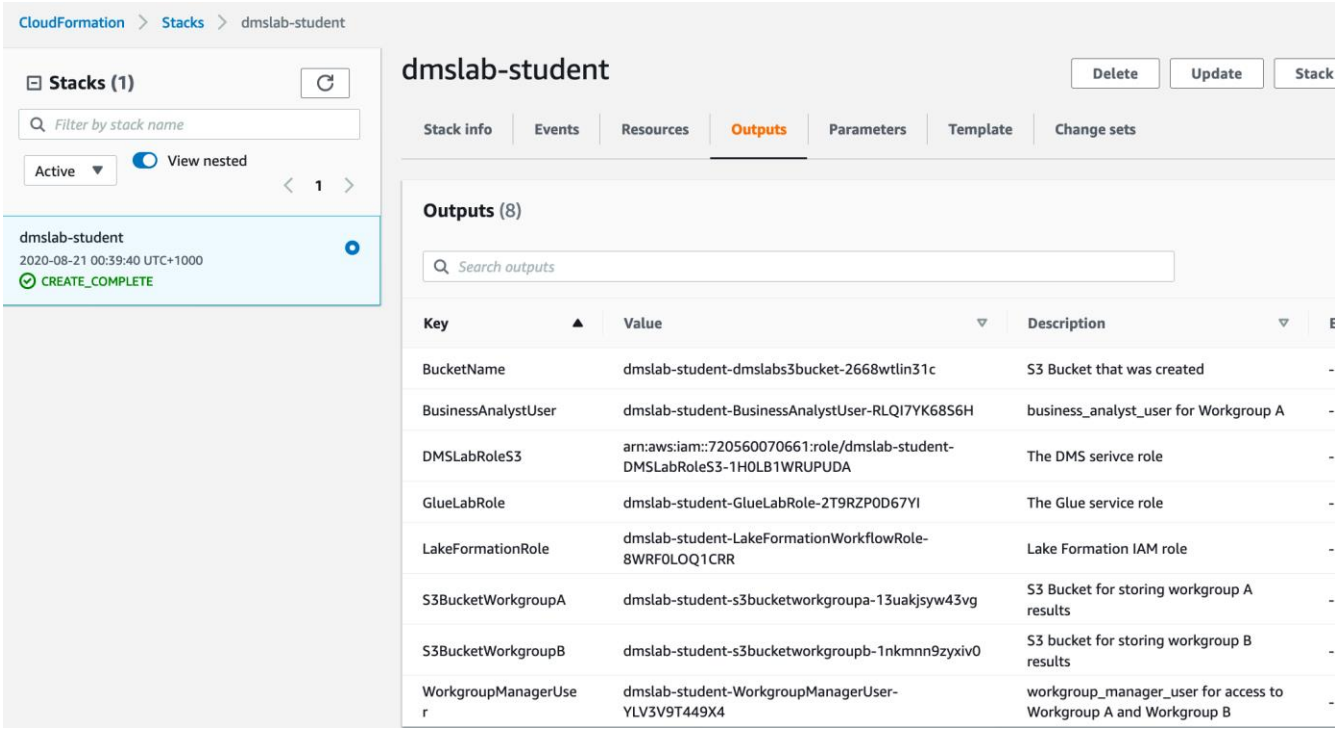
2. In Specify stack details, provide a name for "**Stack Name**" as "**dmslab-student**".
3. Click on **Next**.



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



5. 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.