AWS S3 Exercise

Re-submit Assignment

Due Feb 10 by 11:59pm **Points** 2 **Submitting** a file upload **File Types** java

Complete the exercise in Java.

In this exercise you will write a Java program that uses the AWS SDK to upload a local file into an S3 bucket.

Assumptions

You have already configured your AWS credentials on your computer. This should have been done when you installed the AWS CLI on your computer.

Intellij is installed on your computer.

Steps

- · Create a directory for this exercise
- Create a new Intellij project and select Maven on the left hand side.

Maven

- Do not select an archetype and click "Next".
- 2. Name your project and select where it will save to.
- Click the drop down labeled "Artifact Coordinates". Set the group id to whatever you want your package structure to be. For example "edu.byu.cs340" will tell Maven where your main package is.
- 4. Select "Finish".
- In the new project, add dependencies on the AWS SDK Java library
 - 1. Go to https://mvnrepository.com/artifact/software.amazon.awssdk?
 p=1) and search for the following:
 - AWS SDK For Java Core This will add a dependency on the core AWS Java SDK library.
 - AWS Java SDK For Amazon S3 This will add a dependency on the S3 portion of the AWS Java SDK library.
 - 2. Find the latest version of each dependency (At the time of this writing, the latest version is 1.11.720)
 - 3. Copy the dependency for Maven.

Maven

1. Open pom.xml and add the following below the version tag:

```
<maven.compiler.source>1.8</maven.compiler.source>
    <maven.compiler.target>1.8</maven.compiler.target>
```

2. Create a dependencies tag:

```
<dependencies></dependencies>
```

- 3. In between the dependencies tag paste what you copied for each of the dependencies.
- 4. On the right hand side, click the Maven tab, and then click the refresh button. Maven will now download and import the dependencies and everything else it needs. NOTE: This will take some time, depending on your internet connection it can take 5-10 minutes.
- Create a Java file containing the following code (you might need to change the AWS region value if you're using a region other than us-west-2):

***Note: When accessing an s3 bucket via the command line, the proper syntax is "s3://<name-of-bucket>". When accessing your bucket programmatically, only the name of your bucket is required (i.e. without the "s3://" prefix).

The online documentation for the AWS Java SDK can be found here:

- 1. https://docs.aws.amazon.com/AWSJavaSDK/latest/javadoc/index.html)

 (https://docs.aws.amazon.com/AWSJavaSDK/latest/javadoc/index.html)
- 2. Look at the documentation for the com.amazonaws.services.s3.AmazonS3 class
- Test your program by using it to upload some local files into an S3 bucket in your AWS account.

Submission

- Submit the single .java file containing the code to upload to S3. DO NOT SUBMIT A .zip FILE.
- Submit your Java code here.

More Information

The full AWS SDK documentation can be found here in the SDKs section:

https://aws.amazon.com/tools/ (https://aws.amazon.com/tools/)