### **Accessing the AWS Management Console**

### At the top of these instructions, click **Start Lab** to launch your lab.

### Wait until the message **Lab status: ready** appears, then close the Start Lab panel by clicking the **X**.

### At the top of these instructions, click **AWS**.

### 

### **Task 1: Connecting to the AWS Cloud9 IDE and Configuring the Environment**

### **Connect to the AWS Cloud9 IDE:**

### In the AWS Management Console, go to **Services** and search for **Cloud9**.

### Open the existing IDE named **Cloud9 Instance**.

### The AWS Cloud9 IDE opens in a new browser tab.

### **Install the AWS SDK for Python:**

### In the AWS Cloud9 Bash terminal, run: sudo pip install boto3

### **Download and extract lab files:**

### Run the following command to download the files: wget https://aws-tc-largeobjects.s3.us-west-2.amazonaws.com/CUR-TF-200-ACCDEV-2-91558/02-lab-s3/code.zip -P /home/ec2-user/environment

### Extract the files: unzip code.zip

### **Verify the AWS CLI version:**

### Run: aws --version

### 

### **Task 2: Creating an S3 Bucket Using the AWS CLI**

### **Create an S3 bucket:**

### Run the following command, replacing <bucket-name> with a name formatted as: <your-initials>-<YYYY-MM-DD>-s3site Example: sm-2022-08-26-s3site aws s3api create-bucket --bucket <bucket-name> --region us-east-1

### **Verify the bucket in the S3 Console:**

### Go to **Services > S3** and confirm that the bucket is created.

### **Update bucket permissions:**

### Open the bucket, go to **Permissions**, and click **Edit** under **Block public access**.

### Deselect all options except:

### Block public access to buckets and objects granted through new ACLs.

### Block public access to buckets and objects granted through any ACLs.

### Block public and cross-account access to buckets and objects through any public bucket or access point policies.

### Save changes and type **confirm** to confirm settings.

### 

### **Task 3: Setting a Bucket Policy Using the SDK for Python**

### **Create a bucket policy document:**

### In the AWS Cloud9 IDE, create a new file named website\_security\_policy.json.

### Replace <bucket-name> with your bucket name and <ip-address> with your public IP address (find it at [whatismyip.com](https://whatismyip.com/)).

### **Apply the bucket policy using Python:**

### Open permissions.py in the python\_3 directory and replace <bucket-name> with your bucket name.

### Save the file and run the following: cd python\_3

### python3 permissions.py

### 

### **Task 4: Uploading Objects to the Bucket to Create a Website**

### **Upload the website files:**

### Run: aws s3 cp ../resources/website s3://<bucket-name>/ --recursive --cache-control "max-age=0"

### 

### **Task 5: Testing Access to the Website**

### **Load the website:**

### In the S3 Console, go to your bucket, select **Objects**, and refresh if needed.

### Open index.html and copy the Object URL: https://<bucket-name>.s3.amazonaws.com/index.html

### **Test access outside your network:**

### Run the command: curl https://<bucket-name>.s3.amazonaws.com/index.html

### 

### **Task 6: Analyzing the Website Code**

### **Open the following files in the resources > website directory:**

### index.html

### config.js (contains configuration options)

### pastries.js

### all\_products.json

### 

### **Submitting Your Work**