Lesson 11 Demo 1: Ansible with AWS

This section will guide you to:

* Create an S3 bucket in AWS using Ansible playbook

This lab has one subsection, namely:

1. Creating and running an Ansible playbook

***Note:***

* Ansible 2.2.3 is already installed in your lab
* A **bucket name** is **global to region and not specific to your account**. So you need to choose **a name that does not exist at all**. Using a prefix is recommended.
* Install Python 3 and and replace it with the default Python in the OS

**sudo apt install python3**

**sudo apt install python3-pip**

**sudo rm /usr/bin/python**

**sudo ln -s /usr/bin/python3 /usr/bin/python**

**python -m pip install boto3**

**sudo rm /usr/bin/pip**

**sudo ln -s /usr/bin/pip3 /usr/bin/pip**

**Step 1:** Creating and running an Ansible playbook

* Create a JSON file with the **bpolicy.json** and add the code given below:

**[{**

**"Id": "Policyx",**

**"Statement": [**

**{**

**"Action": [**

**"s3:PutObject"**

**],**

**"Effect": "Allow",**

**"Resource": "arn:aws:s3:::test1bucket/\*",**

**"Principal": {**

**"AWS": [**

**"\*"**

**]**

**}**

**}**

**]**

**}]**

* Create a playbook with the name **s3play.yaml** and add the code given below:

**Note:** Replace the placeholders with the values given in your AWS lab.

**---**

**- hosts: localhost**

**tasks:**

**- name: create S3 bucket**

**s3\_bucket:**

**name: “<WRITE A UNIQUE BUCKET NAME>”**

**Aws\_access\_key: “<AWS\_LAB\_ACCESS\_KEY>”**

**aws\_secret\_key: : ”<AWS\_LAB\_SECRET\_KEY>”**

**security\_token: “<AWS\_LAB\_SECURITY\_TOKEN>”**

**policy: "{{ lookup( 'file','bpolicy.json' )}}"**

**state: present**

**region: us-east-1**

**versioning: no**

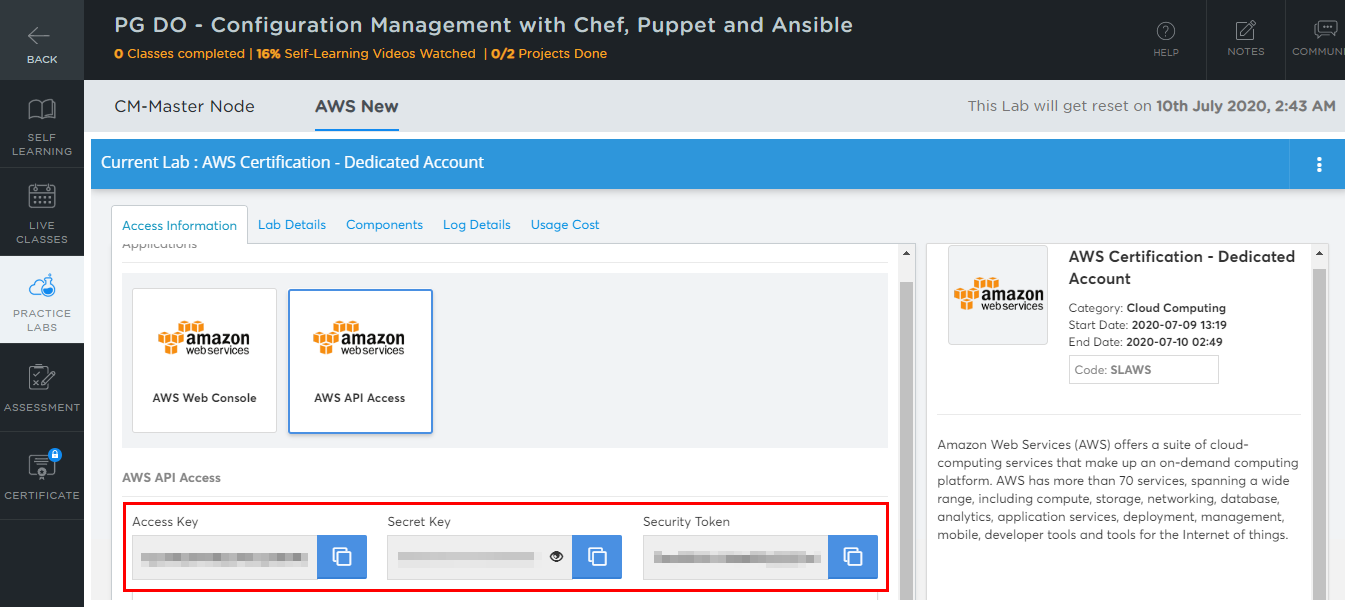
**tags:**

**name: “<WRITE YOUR BUCKET NAME>”**

**type: example**

**Note:** Make sure your YAML file is uniformly indented. YAML syntax does not allow the use of tabs. Use spaces instead.

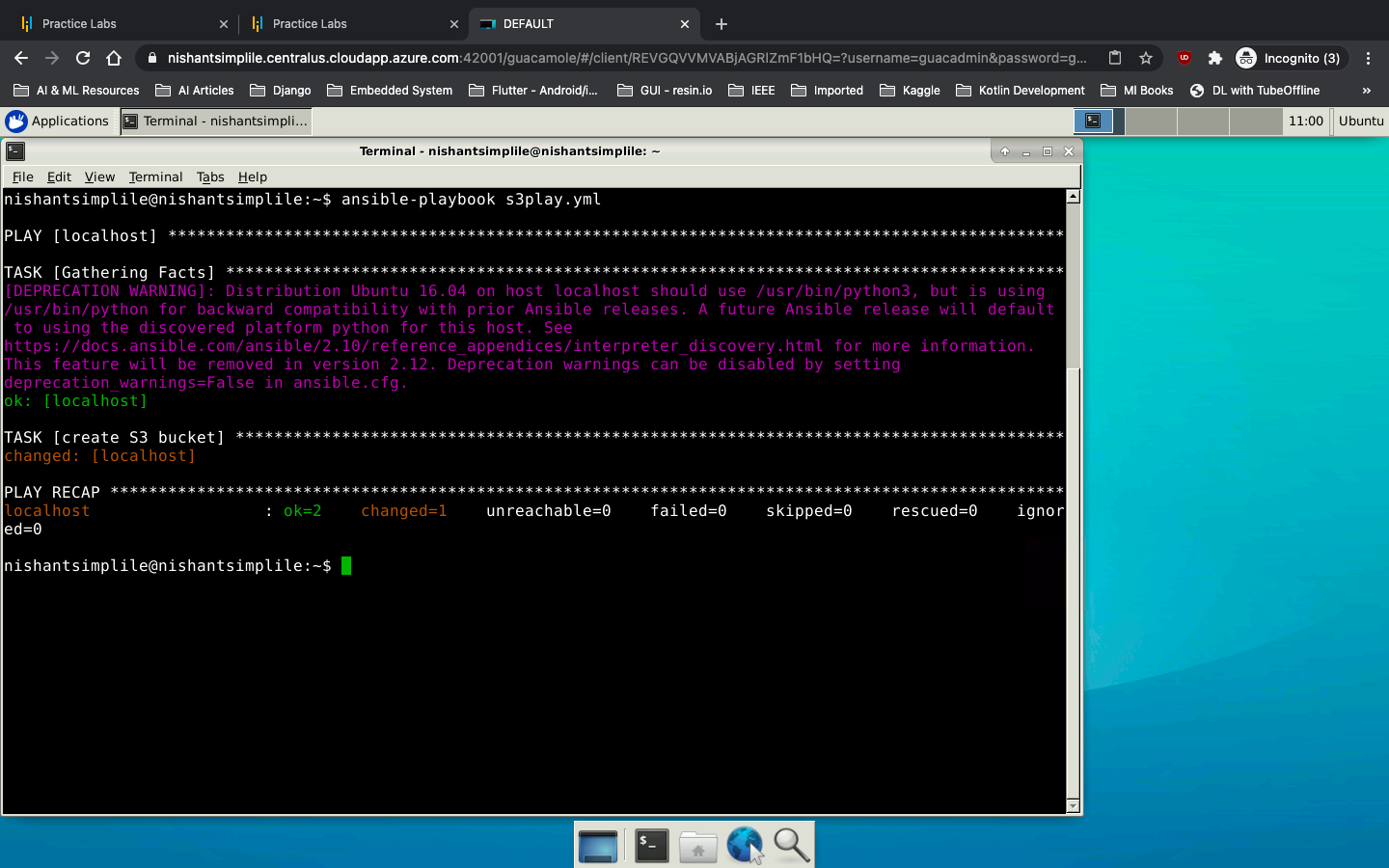
* Use the AWS access credentials provided in the AWS API Access tab in your LMS as shown in the screenshot below:



**Note:** AWS access credentials will change when the AWS Lab session expires after every four hours.

* Run the command given below to execute the playbook:

**ansible-playbook s3play.yaml**

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