Linux Academy

Hands-on Lab

Create and Use an SNS Topic with an S3 Event

Contents

Lab Connection Information

- Labs may take up to five minutes to build
- Access to an AWS Console is provided on the Hands-on Lab page, along with your login credentials
- Ensure you are using the N. Virginia region
- Labs will automatically end once the alloted amount of time finishes

Related Courses

AWS Certified Solutions Architect - Associate

Related Videos

SNS Essentials

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SNS and S3 Events

Log in to the AWS Console using the credentials provided on the Hands-on Lab page.

Navigate to the **S3 Dashboard**. We first need to create a bucket. To do this, press **Create Bucket**. Set the **Bucket name** to anything you like -- remember, bucket names must be unique throughout all of the AWS namespace. Set the **Region** to *US East (N. Virginia)* and press **Next**. Go through the rest of the bucket creation process, leaving all settings as default. Once finish, click on the bucket.

Go to the **Properties** tab on the top of the screen. Under **Advanced Settings**, click on **Events**. Press **Add Notification** and set the notification. However, should we try to add an SNS topic now, we are unable because there is not one created.

In a new window or tab, open the **Simple Notification Service Dashboard**. Before we continue with creating an event, we need to add an SNS topic. Click **Create topic**. Set the **Topic name** to *lalabsnss3example* or whichever name you desire. **Create topic**.

From the Topic Details page, click **Create subscription**. Change the **Protocol** to *Email* and set the **Endpoint** to your own email address. This is important: You must have access to the email address used for this lab to work. **Create subscription**.

Log in to your email and confirm the subscription by clicking on the **Confirm subscription** link within the email sent by AWS.

Return to the **SNS Dashboard** and click the refresh button under Subscriptions to confirm that the subscription was added. Return to the S3 page.

Refresh the page and click **Events** once more. Set **Send to** to *SNS topic*, and under **SNS**, select the topic we just added. Give the event a **Name** of *UploadObject* and check the *ObjectCreate* box under **Events**. **Save**.

This errors out because we do not have the proper permissions set up for our SNS topic.

Return to the SNS topic and press **Other topic actions**, **Edit topic policy**. As we can see, topics have policies like buckets and users. Currently, only the topic-creator can publish using this topic. Change this to *Everyone*. **Update policy**.

Return to the S3 page and press **Save** again.

Click the **Objects** tab. To test our event, we simply need to add an object. Press **Upload**, **Add files**, then upload a random file to the bucket. Continue through the upload process, leaving the settings as default, until the object is uploaded.

Now, return to your email to confirm that a topic has been received.

This lab is now complete!