



Triggering Pipeline by updating Source

In this lab, you are working with AWS CodePipeline to manage the deployment of a website. The key steps involve updating the website by making changes to an HTML file, creating a zipped folder of the updated content, and uploading it to an S3 bucket. The pipeline is designed to automatically detect new uploads and trigger a deployment. However, to demonstrate control over the deployment process, you temporarily disable the transition between the 'Source' and 'Deploy' stages. This action pauses the pipeline execution, preventing the changes from being deployed immediately. After verifying that the website has not been updated, you re-enable the transition to complete the deployment process.

The end goal is to demonstrate how AWS CodePipeline can manage the automated deployment of updates while allowing for manual control over the transition between stages. This ensures that changes are deployed only when you're ready, providing flexibility and control in the deployment process.



To begin with the Lab:

1. In the previous lab, we created our first pipeline using S3 buckets as source and deployment locations. AWS CodePipeline executed the pipeline automatically for the first time and deployed our content. But what if we need to update our website? Will our pipeline work automatically when we upload a new version to our source bucket? Well, in this lab, we will provide an example of this.
2. Let's talk about transitions on AWS CodePipeline. If you remember from the previous lab, the transitions connect stages. And this arrow represents the transition from our 'Source' stage to the 'Deploy' stage. By default, all transitions are enabled when you create a pipeline. On our pipeline, this means that as soon as the source stage is completed, the pipeline execution continues with the deploy stage. But you can also disable a transition and then re-enable it whenever you want in the future.
3. So, now we are going to disable this transition, click on disable.

The screenshot shows the AWS CodePipeline console interface. At the top, the 'Source' stage is listed as 'Succeeded'. Below it, the 'Deploy' stage is also listed as 'Succeeded'. A red box highlights the 'Disable transition' button located between the two stages. The console also displays the pipeline execution ID and the source Amazon S3 bucket information.

- Now you need to give a reason why you are disabling transition.

Disable transition

You are about to disable the transition between "Source" and "Deploy".

Disabling reason ☐ Preview markdown [Learn more](#)

Explain why you are disabling the transition.

for demo

Cancel Disable

- Now we need to open our HTML file and make some changes to it. Below you can see that in the file we just changed the version of our website and then saved it.
- Then you need to make a zipped folder out of your website folder and upload it again to your S3 bucket.

```
index.html x
index.html > html
1 <html>
2   <head>
3     <title>Sample Website - AWS CodePipeline Step by Step</title>
4   </head>
5   <body style="text-align:center;font-family:Verdana;margin:1%;">
6     <h1 style="color:navy">Welcome to Our Website!</h1>
7     <hr>
8     <p>This is a simple, static website that we deploy by creating a pipeline on AWS CodePipeline.</p>
9     <h2>Website Version: 2.0</h2>
10  </body>
11 </html>
```

- Once it is uploaded then it should trigger our pipeline. So, move to the code pipeline in your console.

website-source-bucket1

Info

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (1)

Info

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)


Find objects by prefix

Show versions

<

1

>

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	 my-website.zip	zip	August 6, 2024, 11:33:59 (UTC+05:45)	754.0 B	Standard

- Below you can see that the source stage was executed almost immediately.

DemoWebsitePipeline Notify Edit Stop execution Clone pipeline Release change

Pipeline type: **V2** Execution mode: **QUEUED**

Source Succeeded

Pipeline execution ID: [adb0e7b7-3331-4dd1-b879-2686ec551ea6](#)

Source

[Amazon S3](#)

Succeeded - 2 minutes ago

[View details](#)

Source: Amazon S3 version id: qVCIEIQ3IRI4qn9zxDsEqZ3NJH_U_zG

9. Because we had disabled the transition, because of that our execution is queued and has not yet been gone to the deployed stage.
10. So, this means that our website has not yet been updated; to update we need to enable the transition. But first, let's check our website and as expected you can see that our website has not been updated yet.
11. Now we are going to enable the transition.

Source: Amazon S3 version id: qVCIEIQ3IRI4qn9zxDsEqZ3NJH_U_zG

▼ Queued executions (1)

Source revisions	Started	Execution ID	
Source - qVCIEIQ: Amazon S3 version id: qVCIEIQ3IRI4qn9zxDsEqZ3NJH_U_zG	5 minutes ago	adb0e7b7	Stop execution

[Enable transition](#)

Deploy Succeeded

Pipeline execution ID: [4c5c523f-b1fe-4182-91d1-e27ddca3d153](#)

Start rollback

Welcome to Our Website!



This is a simple, static website that we deploy by creating a pipeline on AWS CodePipeline.

Website Version: 1.0

12. Below you can see that our deployment has also been completed, you can also check the version IDs of both source and deploy stages. If they are the same, then it means that our pipeline has been executed successfully.

Source: Amazon S3 version id: qVCIEIZQ3IRI4qn9zxDsEqZ3NjH_U_zG


[Disable transition](#)

 **Deploy**  Succeeded [Start rollback](#)

Pipeline execution ID: [agb0e7b7-3331-4dd1-b879-2686ec551ea6](#)

Deploy

[Amazon S3](#)

 Succeeded - [Just now](#)

[View details](#)

Source: Amazon S3 version id: qVCIEIZQ3IRI4qn9zxDsEqZ3NjH_U_zG

13. Now, let's check our website again and you can see that the changes were deployed successfully.

Welcome to Our Website!

This is a simple, static website that we deploy by creating a pipeline on AWS CodePipeline.

Website Version: 2.0