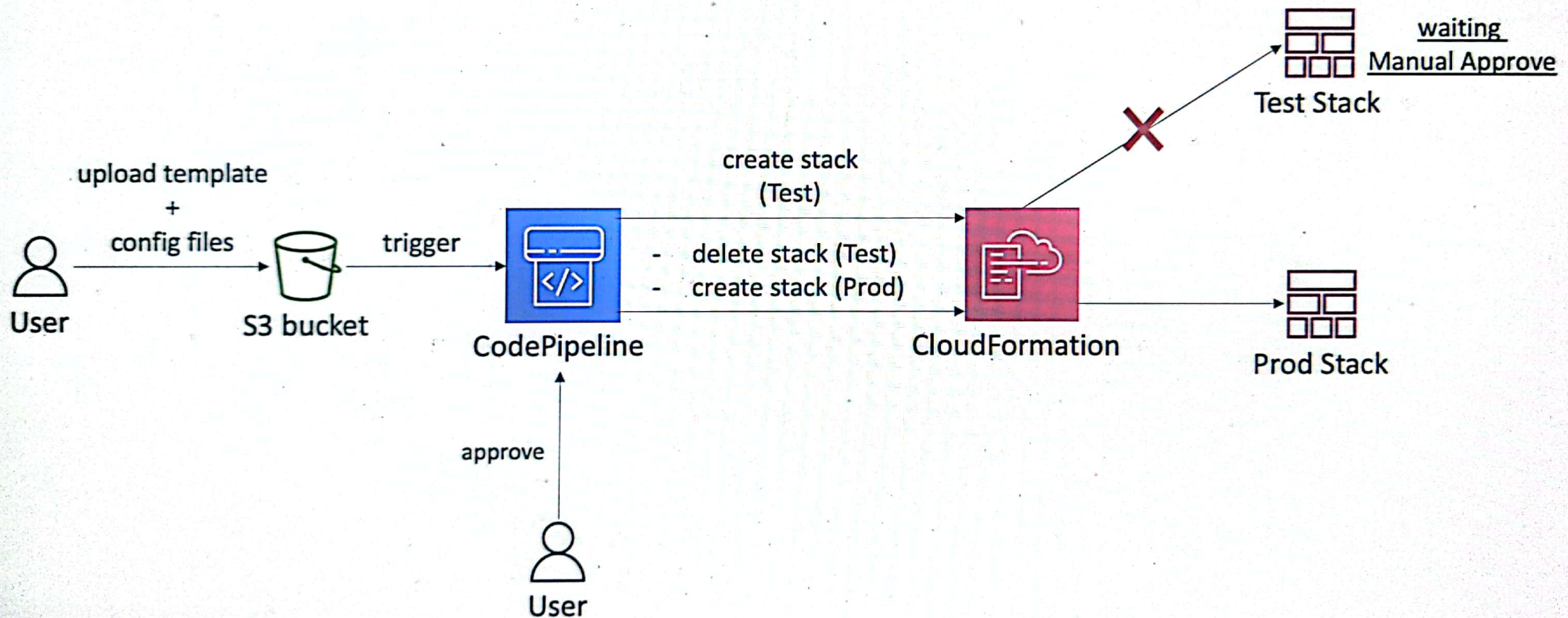


# Continuous Delivery with CodePipeline

- Use CodePipeline to build a continuous delivery workflow (building a pipeline for CloudFormation stacks)
- Rapidly and reliably make changes to your AWS infrastructure
- Automatically build and test changes to your CloudFormation templates before promoting them to production stacks
- For example:
  - Create a workflow that automatically builds a test stack when you submit a CloudFormation template to a code repository
  - After CloudFormation builds the test stack, you can test it and then decide whether to push changes to production stack



# CD with CodePipeline Example







new 1 2-cfn-init.yaml wordpress-single-instance.yaml

```
292 Type: 'AWS::EC2::SecurityGroup'
293 Properties:
294   GroupDescription: >-
295     Enable HTTP access via port 80 locked down to the load balancer + SSH
296     access
297   SecurityGroupIngress:
298     - IpProtocol: tcp
299       FromPort: 80
300       ToPort: 80
301       CidrIp: 0.0.0.0/0
302     - IpProtocol: tcp
303       FromPort: 22
304       ToPort: 22
305       CidrIp: !Ref SSHLocation
306 WebServer:
307   Type: 'AWS::EC2::Instance'
308   Metadata:
309     'AWS::CloudFormation::Init':|
310       configSets:
311         wordpress_install:
312           - install_cfn
313           - install_wordpress
314           - configure_wordpress
315       install_cfn:
316         files:
317           /etc/cfn/cfn-hup.conf:
318             content: !Join
319             mode: '000400'
320             owner: root
321             group: root
322           /etc/cfn/hooks.d/cfn-auto-reloader.conf:
323
324       services:
325         install wordpress:
326         configure wordpress:
327
328   Properties:
329   CreationPolicy:
330
331 Outputs:
```





Services ▼

[Option+S]



Amazon S3 &gt; Create bucket

# Create bucket

Buckets are containers for data stored in S3. [Learn more](#)

## General configuration

Bucket name

Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

AWS Region

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

## Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to



# Upload

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files**, or **Add folders**.

## Files and folders (1 Total, 5.2 KB)

All files and folders in this table will be uploaded.

Remove

Add files

Add folder

Find by name

< 1 >

<input type="checkbox"/>	Name	Folder	Type	Size
<input type="checkbox"/>	wordpress-single-instance.zip	-	application/zip	5.2 KB

## Destination

Destination



## Parameters

Parameters are defined in your template and allow you to input custom values when you create or update a stack.

### CodePipeline Settings

**PipelineName**

A name for pipeline

DemoPipeline

**S3Bucket**

The name of the S3 bucket that contains the source artifact, which must be in the same region as this stack

demo-cf-wordpress-stephane

**SourceS3Key**

The file name of the source artifact, such as myfolder/myartifact.zip

wordpress-single-instance.zip

**Email**

The email address where CodePipeline sends pipeline notifications

stephane-aws

### Test Stack Settings

**TestStackName**

A name for the test WordPress stack

Test-MyWordPressSite



Developer Tools

## CodePipeline

- ▶ Source • CodeCommit
- ▶ Artifacts • CodeArtifact
- ▶ Build • CodeBuild
- ▶ Deploy • CodeDeploy
- ▼ Pipeline • CodePipeline
  - Getting started
  - Pipelines
  - Pipeline**
  - History
  - Settings
- ▶ Settings

- 🔍 Go to resource
- 💬 Feedback

Developer Tools > CodePipeline > Pipelines > DemoPipeline

## DemoPipeline

🔔 Notify ▼

Edit

Stop execution

Clone pipeline

Release change

✅ **S3Source** Succeeded

Pipeline execution ID: fad339f9-e3a4-4573-a750-2895b388d6e2

TemplateSource



Amazon S3 [🔗](#)

✅ Succeeded - Just now

TemplateSource: Amazon S3 version id: lOooP8l9Kg8FpVjZOimNAldoA8j3AVDb

Disable transition

⏸ **TestStage** In progress

Pipeline execution ID: fad339f9-e3a4-4573-a750-2895b388d6e2





Developer Tools

## CodePipeline

- ▶ Source • CodeCommit
- ▶ Artifacts • CodeArtifact
- ▶ Build • CodeBuild
- ▶ Deploy • CodeDeploy
- ▼ Pipeline • CodePipeline
  - Getting started
  - Pipelines
  - Pipeline**
  - History
  - Settings
- ▶ Settings

🔍 Go to resource

💬 Feedback

AWS CloudFormation [🔗](#)

⊖ Didn't Run  
No executions yet

TemplateSource: Amazon S3 version id: lOooP8l9Kg8FpVjZOimNAldoA8j3AVDb

Disable transition

⊖ ProdStage Didn't Run

CreateChangeSet [i](#)

AWS CloudFormation [🔗](#)

⊖ Didn't Run  
No executions yet

ApproveChangeSet [i](#)

Manual approval

⊖ Didn't Run