

# AWS CodePipeline

# AWS CodePipeline - Introduction

- AWS CodePipeline is a fully managed **continuous delivery** service that helps you automate your release pipelines for fast and reliable application and infrastructure updates.
- CodePipeline automates the build, test, and deploy phases of your release process every time there is a code change, based on the release model you define.
- This enables you to rapidly and reliably deliver features and updates.
- You can easily integrate AWS CodePipeline with third-party services such as GitHub or with your own custom plugin.

# AWS CodePipeline - Features

- **Pre-built plugins:** AWS CodePipeline allows you to integrate third-party developer tools, like GitHub or Jenkins, into any stage of your release process with one click. You can use third-party tools for source control, build, test, or deployment. Learn more about our integrations [here](#).
- **Access control:** AWS CodePipeline uses AWS IAM to manage who can make changes to your release workflow, as well as who can control it. You can grant users access through IAM users, IAM roles, and SAML-integrated directories.
- **Receive Notifications:** You can create notifications for events impacting your pipelines. Notifications will come in the form of [Amazon SNS](#) notifications.

# AWS CodePipeline - Features

- **AWS Integrations:** AWS CodePipeline can pull source code for your pipeline directly from [AWS CodeCommit](#), [GitHub](#), [Amazon ECR](#), or [Amazon S3](#).
- It can run builds and unit tests in [AWS CodeBuild](#).
- CodePipeline can deploy your changes using [AWS CodeDeploy](#), [AWS Elastic Beanstalk](#), [Amazon Elastic Container Service](#) (Amazon ECS), or [AWS Fargate](#).
- You can also trigger custom functions defined by code at any stage of your pipeline using CodePipeline's [integration with AWS Lambda](#). For example, you can trigger a Lambda function that tests whether your web application deployed successfully.
- **Parallel Execution:** You can use CodePipeline to model your build, test, and deployment actions to run in parallel in order to increase your workflow speeds.

# AWS CodePipeline - Pricing

- With AWS CodePipeline, there are no upfront fees or commitments.
- You pay only for what you use.
- AWS CodePipeline costs \$1.00 per active pipeline per month.
- To encourage experimentation, pipelines are free for the first 30 days after creation.