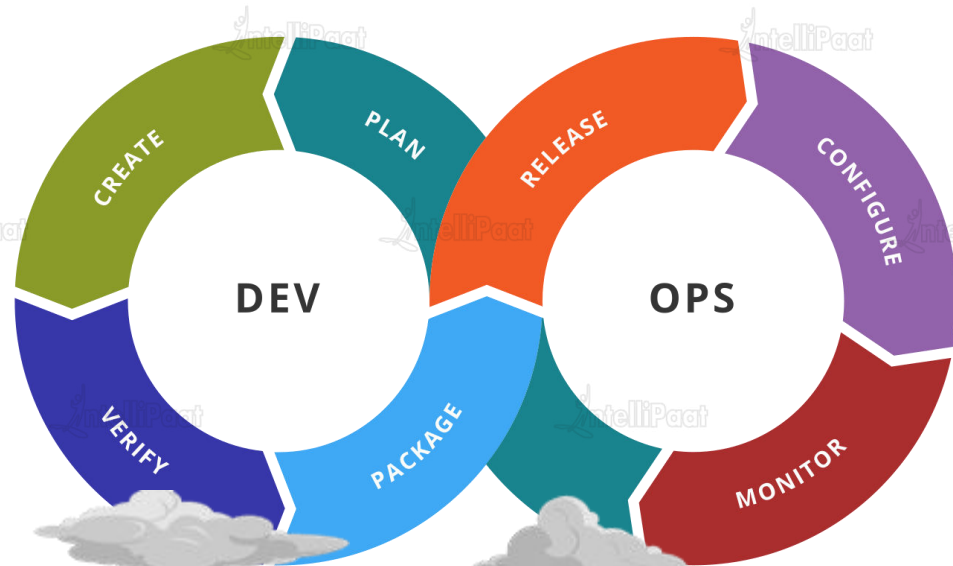




AWS DevOps



Agenda

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**Creating a DevOps lifecycle
using AWS DevOps tools**

06

Summary



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What is AWS?



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What is AWS?



AWS is a platform which helps businesses scale and grow by offering secure cloud services like compute power, content delivery, database storage, and other functionality.





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What is DevOps?

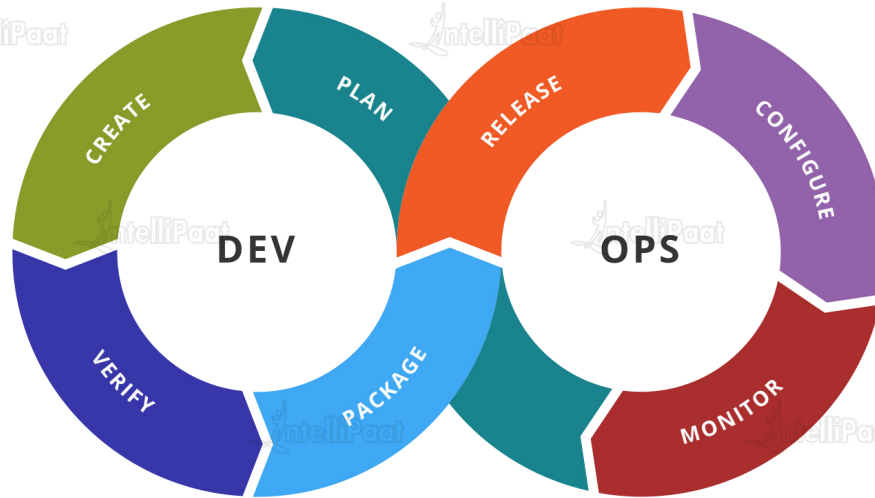


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What is DevOps?

DevOps is the union of people, process, and products to enable continuous delivery of value to our end users





Introduction to AWS DevOps



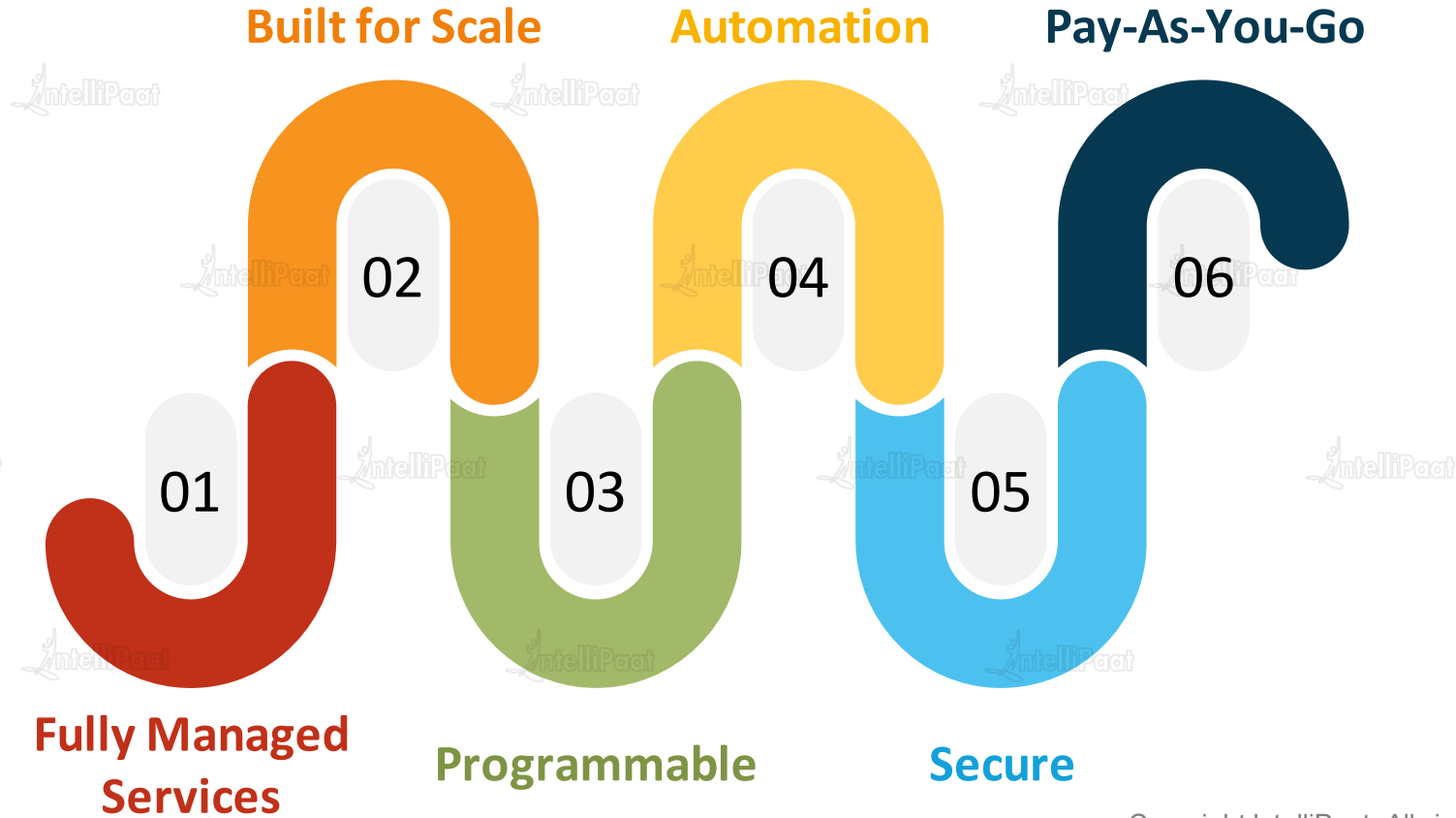
Introduction to AWS DevOps



AWS DevOps is a set of Developer tools which allows the user to create a CI/CD pipeline from the source to the deploy stage.



Why AWS for DevOps?



AWS Developer Tools

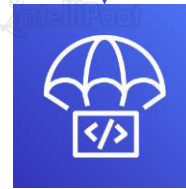
AWS Developer Tools



CodeCommit



CodeBuild



CodeDeploy



CodePipeline

Developer Tools



► Source • CodeCommit

► Build • CodeBuild

► Deploy • CodeDeploy

► Pipeline • CodePipeline

🔍 Go to resource

💬 Feedback



Developer Tools

AWS Developer Tools

Host code and automatically build, test, and deploy your applications to AWS

The AWS Developer Tools is a set of services designed to enable developers and IT operations professionals practicing DevOps to rapidly and safely deliver software. Together, these services help you securely store and version control your application's source code and automatically build, test, and deploy your application to AWS or your on-premises environment.



AWS CodeCommit



Why AWS CodeCommit



CodeCommit is a version control tool provided by AWS and it provides a lot of free features

DEVELOPER TOOLS

Free Tier

ALWAYS FREE

AWS CodeCommit

5

active users per month

Highly scalable, managed source control service.

5 active users per month

50 GB-month of storage per month

10,000 Git requests per month

Edmunds.com Case Study



Edmunds.com is significantly reducing its technology costs by running its website on the AWS Cloud. “We expect to save \$32 million in the first five years by running our website and other critical applications on AWS,” says Potloff. “For a growing company like ours, it is incredible that we are able to bend the infrastructure cost curve down as we continue to expand.”

Most recently, the company started using AWS CodeCommit as its source control service for hosting 1,500 private Git repositories and more than 270 users. The company is also benefiting from its use of AWS CodeCommit, which has reduced the time the organization previously spent on administration and maintenance tasks by 95 percent.

AWS CodeBuild

Why AWS CodeBuild



AWS CodeBuild is a fully managed continuous integration service that compiles source code, runs tests, and produces software packages that are ready to deploy.

DEVELOPER TOOLS

Free Tier

ALWAYS FREE

AWS CodeBuild

100

build minutes

Fully managed build service that builds and tests code in the cloud.

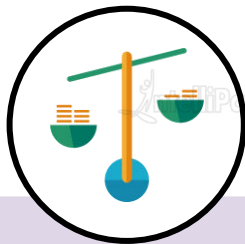
100 build minutes per month of build.general1.small compute type usage

Why AWS CodeBuild



Fully managed build service

AWS CodeBuild eliminates the need to set up, patch, update, and manage your own build servers and software. There is no software to install or manage.



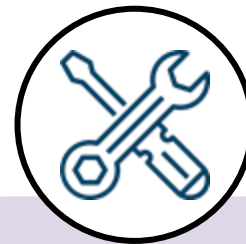
Continuous scaling

AWS CodeBuild scales up and down automatically to meet your build volume. It immediately processes each build you submit and can run separate builds concurrently, so builds are not left waiting in a queue.



Pay as you go

With AWS CodeBuild, you are charged based on the number of minutes it takes to complete your build. This means you no longer have to worry about paying for idle build server capacity.



Extensible

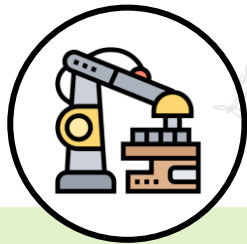
You can bring your own build tools and programming runtimes to use with AWS CodeBuild by creating customized build environments and also use pre-existing environments

AWS CodeDeploy

Why AWS CodeDeploy



This is an automated deployment tool which can deploy to services like EC2, Lambda, Elastic Beanstalk, and even your on-premises instances.



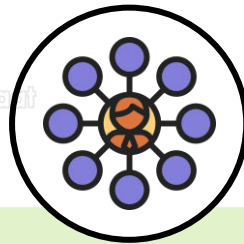
Automated deployments

AWS CodeDeploy fully automates your software deployments, allowing you to deploy reliably and rapidly.



Minimize downtime

AWS CodeDeploy helps maximize your application availability during the software deployment process.



Centralized control

Through CLI and Management console, you can keep complete track of your deployments.



Easy to adopt

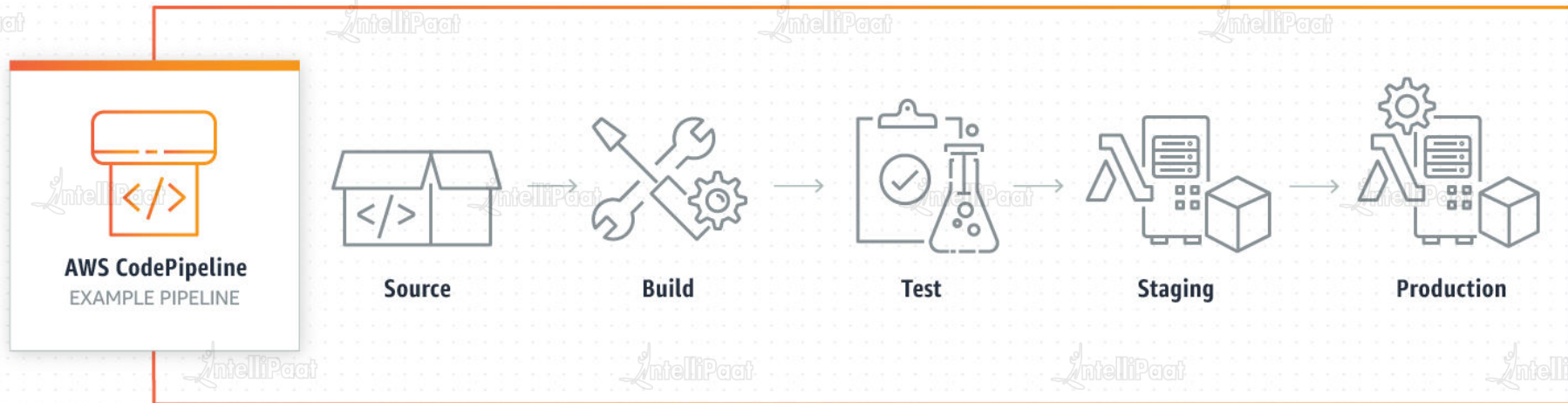
works with any application and same experience whether you're deploying to Amazon EC2, AWS Lambda.

AWS CodePipeline

Why AWS CodePipeline



A continuous delivery tool which is fully managed by AWS which you can use to automate your releases for rapid and reliable deployment



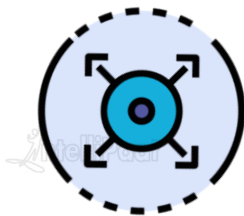
Why AWS Pipelines



Easy to integrate AWS CodePipeline with GitHub or with your own custom plugin. With AWS CodePipeline, you only pay for what you use. There are no upfront fees or long-term commitments.



Rapid delivery



Configurable workflow



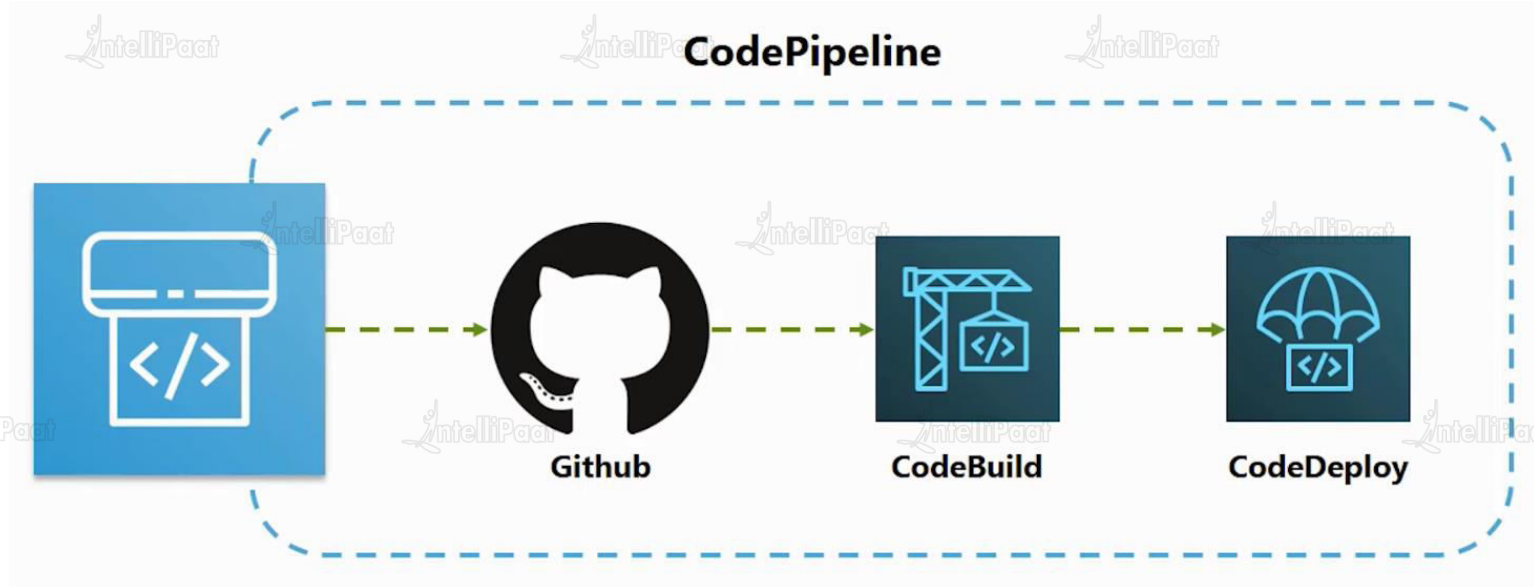
Get started fast



Easy to integrate

Creating a DevOps lifecycle using AWS DevOps tools

Demo: Create a CI/CD pipeline





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Summary



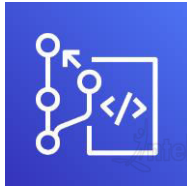
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Summary



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24X7 Chat with our Course Advisor