

DevOps Tools

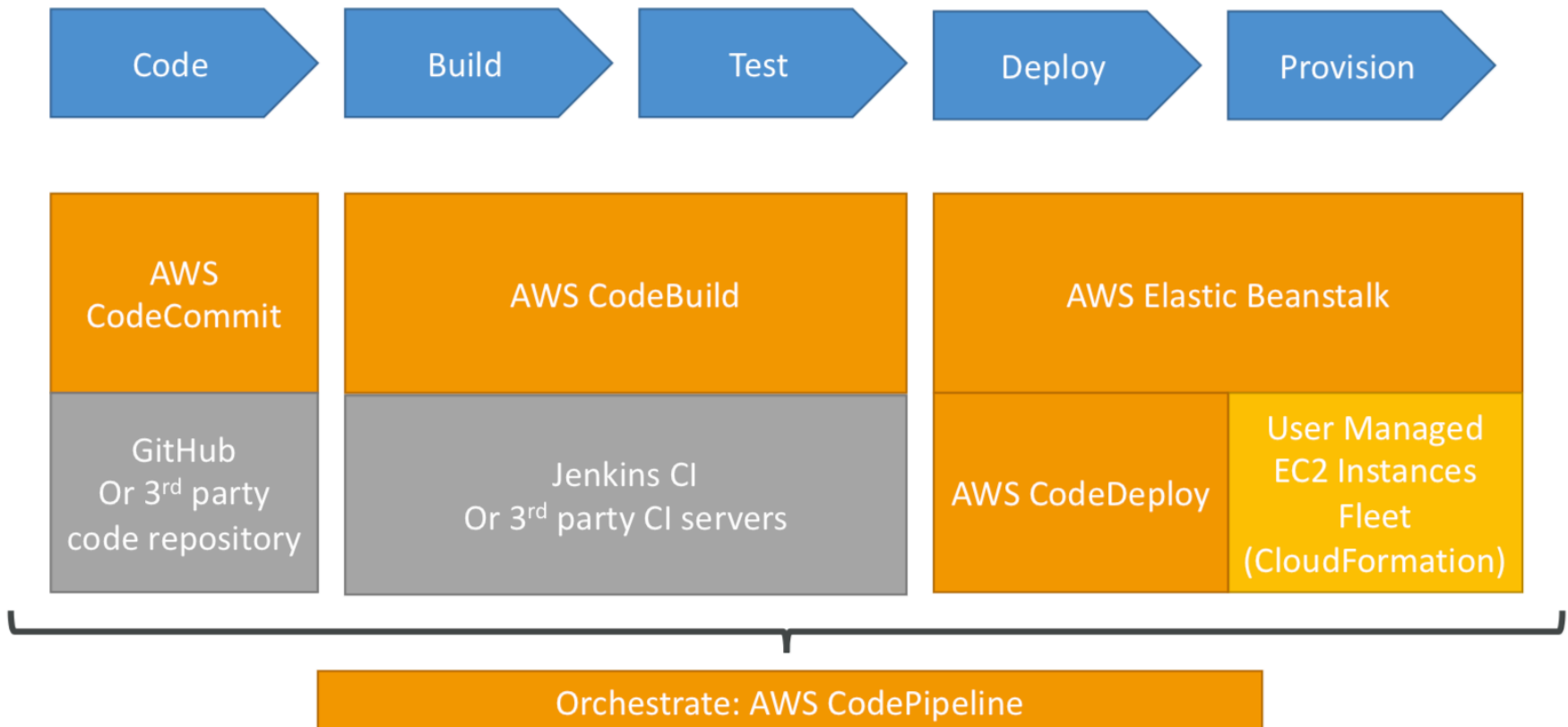
CodePipeline



AWS CodePipeline

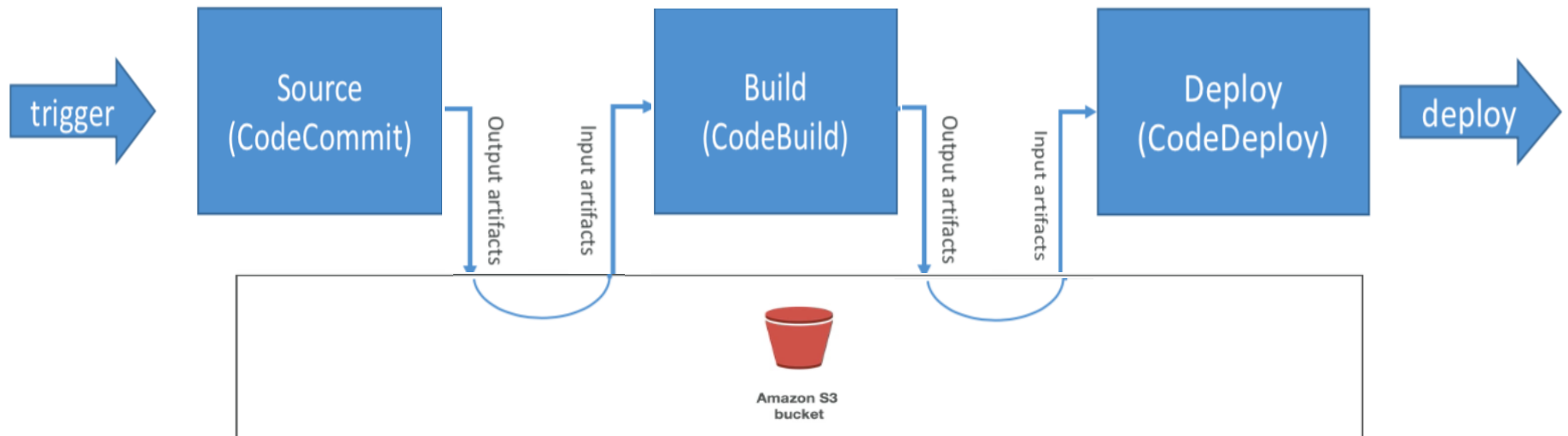
- ◆ Continuous delivery
- ◆ Visual workflow
- ◆ Source: GitHub / CodeCommit / Amazon S3
- ◆ Build: CodeBuild / Jenkins / etc...
- ◆ Load Testing: 3rd party tools
- ◆ Deploy: AWS CodeDeploy / Beanstalk / CloudFormation / ECS...
- ◆ Made of stages:
 - ◆ Each stage can have sequential actions and / or parallel actions
 - ◆ Stages examples: Build / Test / Deploy / Load Test / etc...
 - ◆ Manual approval can be defined at any stage

Technology Stack for CI/CD



AWS CodePipeline artifacts

- Each pipeline stage can create "artifacts"
- Artifacts passed are stored in Amazon S3 and passed on to the next stage



Exercise 06.1 - CodePipeline

- ◆ Building a sample codepipeline using codecommit, codebuild, codedeploy
- ◆ Adding a Manual approval stage to deploy to production instances
- ◆ CodePipeline integration with Cloudwatch
- ◆ Sequential and parallel actions
 - ◆ <https://docs.aws.amazon.com/codepipeline/latest/userguide/reference-pipeline-structure.html#action-requirements>
- ◆ Use cases for CodePipeline
 - ◆ <https://docs.aws.amazon.com/codepipeline/latest/userguide/best-practices.html#use-cases>
 - ◆ <https://aws.amazon.com/blogs/devops/implementing-gitflow-using-aws-codepipeline-aws-codecommit-aws-codebuild-and-aws-codedeploy/>

CodeStar Demo