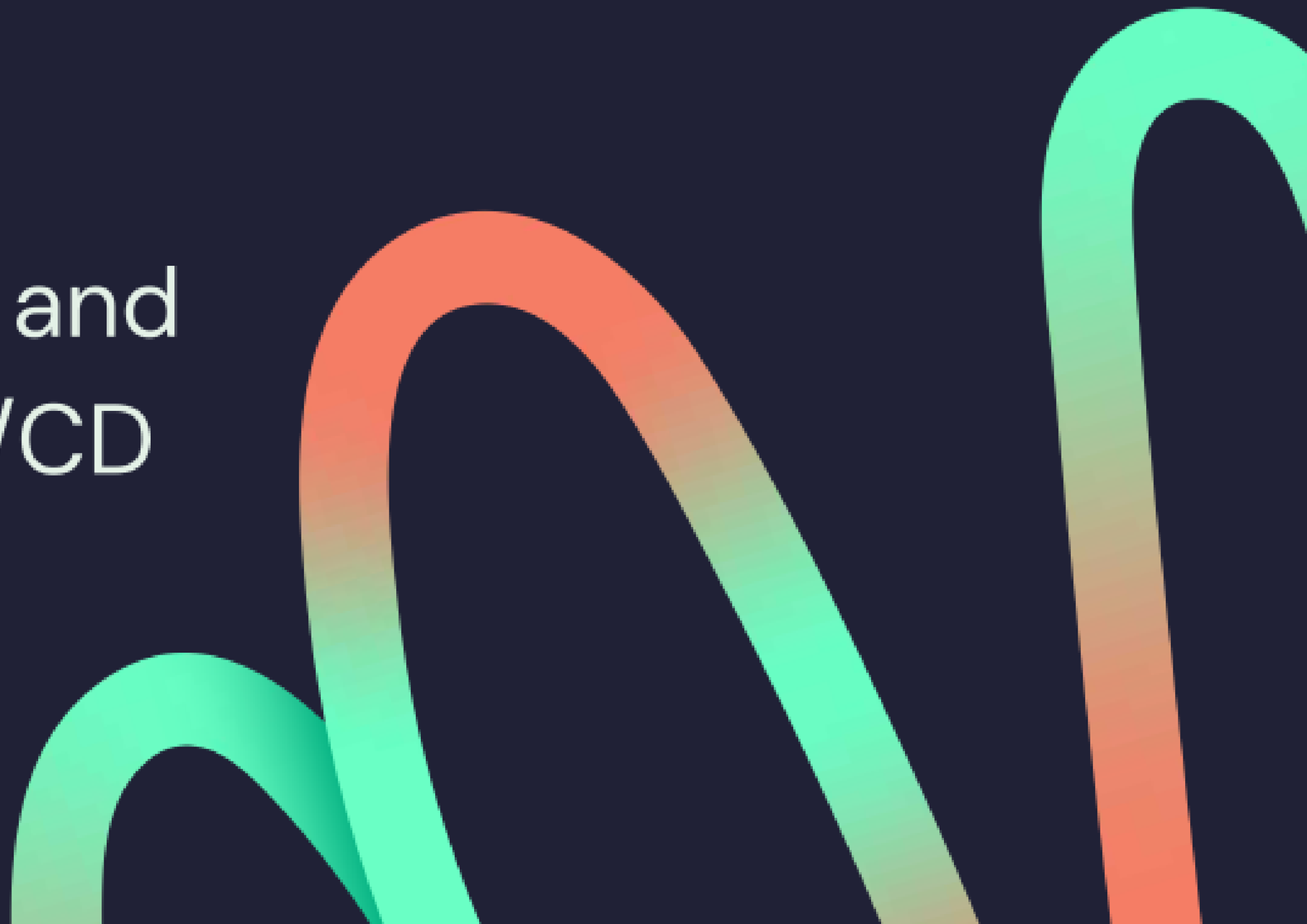
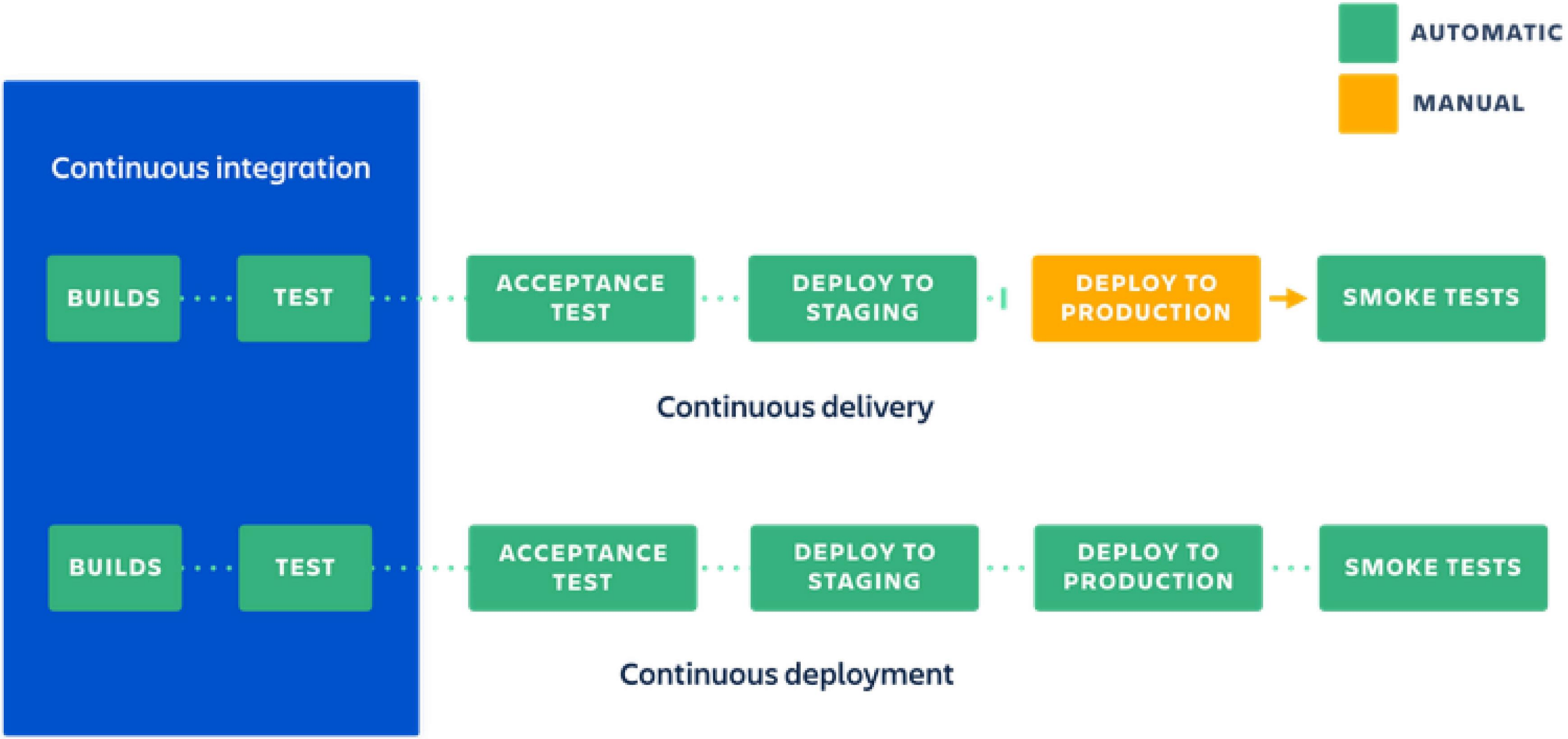
Fundamentals and Benefits of CI/CD



what is CI/CD?

CI-CD

Continuous integration	Continuous delivery
Continuous integration puts a great emphasis on testing automation to check that the application is not broken whenever new commits are integrated into the main branch.	Continuous delivery is an extension of continuous integration since it automatically deploys all code changes to a testing and/or production environment after the build stage.


AUTOMATIC
MANUAL
Continuous integration
BUILDS
TEST
ACCEPTANCE TEST
DEPLOY TO STAGING
DEPLOY TO PRODUCTION
SMOKE TESTS
Continuous delivery
BUILDS
TEST
ACCEPTANCE TEST
DEPLOY TO STAGING
DEPLOY TO PRODUCTION
SMOKE TESTS
Continuous deployment

benefits of CI/CD

CI/CD

Technical issue	Value reflected on business
• catch error after merge • catch unit test failures • avoid security vulnerabilities • automate infrastructure creation	• reduce cost • avoid cost • avoid cost due to security holes • avoid cost due to human errors

Technical issue	Value reflected on business
• automated smoke tests. • automated rollback triggered by job faillure. • automate infrastructure cleanup • faster deployment production • deploy to production without manual checks	• protect revenue • protect revenue • reduce cost due to unused resources • increase revenue • increase revenue because of increase time to market

THANK YOU!