

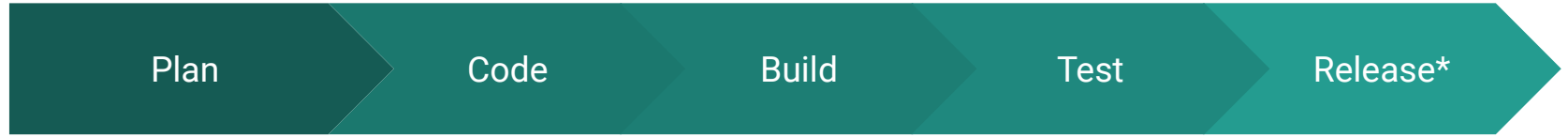
CI/CD - Pipeline Efficiency

HOW WE CAN RAPIDLY SHIP PRODUCTS FASTER WITHOUT FEAR OF DOWNTIME

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CI – Continuous Integration

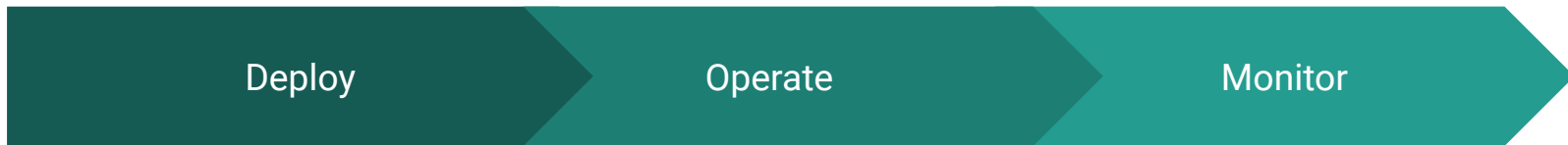


- Developers regularly submit their code changes to a central pipeline
- Every submission automatically builds the code and tests it
- Ultimately, a high quality and deployable artifact is made and stored

* - Release phase is centred around repository commits and adequate documentation of the changes



CD – Continuous Delivery



- Second half of the CI/CD pipeline
- Automatically create and configure infrastructure to host artifact generated in CI process
- Deploys to testing and/or production environment after successful passage of all tests in the pipeline

Benefits of CI/CD

- **Automate Infrastructure Creation:**
 - Avoid costs with less human involvement and error, leading to faster deployments
- **Faster and More Frequent Production Deployments:**
 - Increase revenue by releasing new value-generating features more quickly
- **Automated Smoke Tests:**
 - Protect revenue by reducing downtime from a deploy-related crash or a major bug



Benefits of CI/CD

- **Detect Security Vulnerabilities:**
 - Avoid cost by preventing embarrassing or costly security holes.
- **Deploy to Production Without Manual Checks:**
 - Increase revenue by making features take less time to market.
- **Detect Security Vulnerabilities:**
 - Avoid cost by preventing embarrassing or costly security holes

