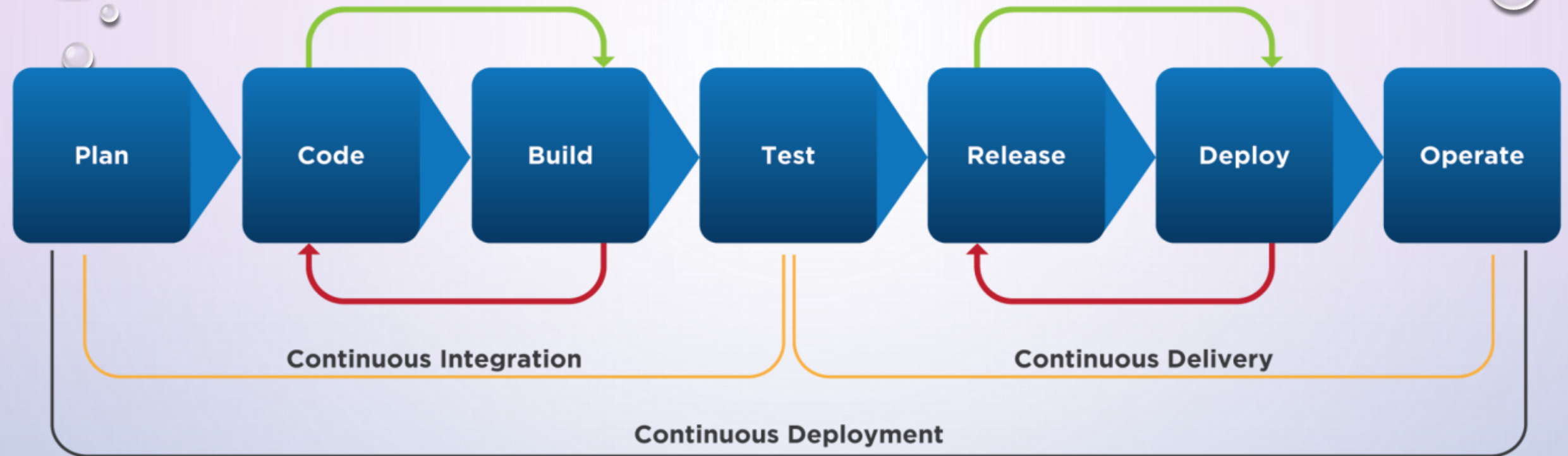


IMPLEMENTING CI/CD FOR THE *UDAPEOPLE*



WHAT IS CI/CD



Planning	Code	Build	Test	Release	Deploy	Operate
<ul style="list-style-type: none">• Requirement finalization• Updates & new changes• Architecture & design• Task assignment• Timeline finalization	<ul style="list-style-type: none">• Development• Configuration finalization• Check-in source code• Static-code analysis• Automated review & peer review	<ul style="list-style-type: none">• Compile code• Unit testing• Code-metrics• Build container images or package• Preparation or update in deployment templated• Create or update monitor dashboards	<ul style="list-style-type: none">• Integration test with other component• Load & stress test• UI testing• Penetration testing• Requirement testing	<ul style="list-style-type: none">• Preparing release notes• Version tagging• Code freeze• Feature freeze	<ul style="list-style-type: none">• Updating the infrastructure i.e staging, production• Verification on deployment i.e smoke tests	<ul style="list-style-type: none">• Monitor designed dashboard• Alarm triggers• Automatic critical events handler• Monitor error logs

BENEFITS OF CI/CD

“COST”



Reduce Cost

- Less developer time on issues from new developer code
For Example: *Catch Compile Errors After Merge.*
- Less infrastructure costs from unused resources
For Example: *Automate Infrastructure Cleanup.*



Avoid Cost

- Less bugs in production and less time in testing
For Example: *Catch Unit Test Failures.*
- Prevent embarrassing or costly security holes
For Example: *Detect Security Vulnerabilities.*
- Less human error, Faster deployments
For Example: *Automate Infrastructure Creation.*

BENEFITS OF CI/CD

“REVENUE”



Increase Revenue

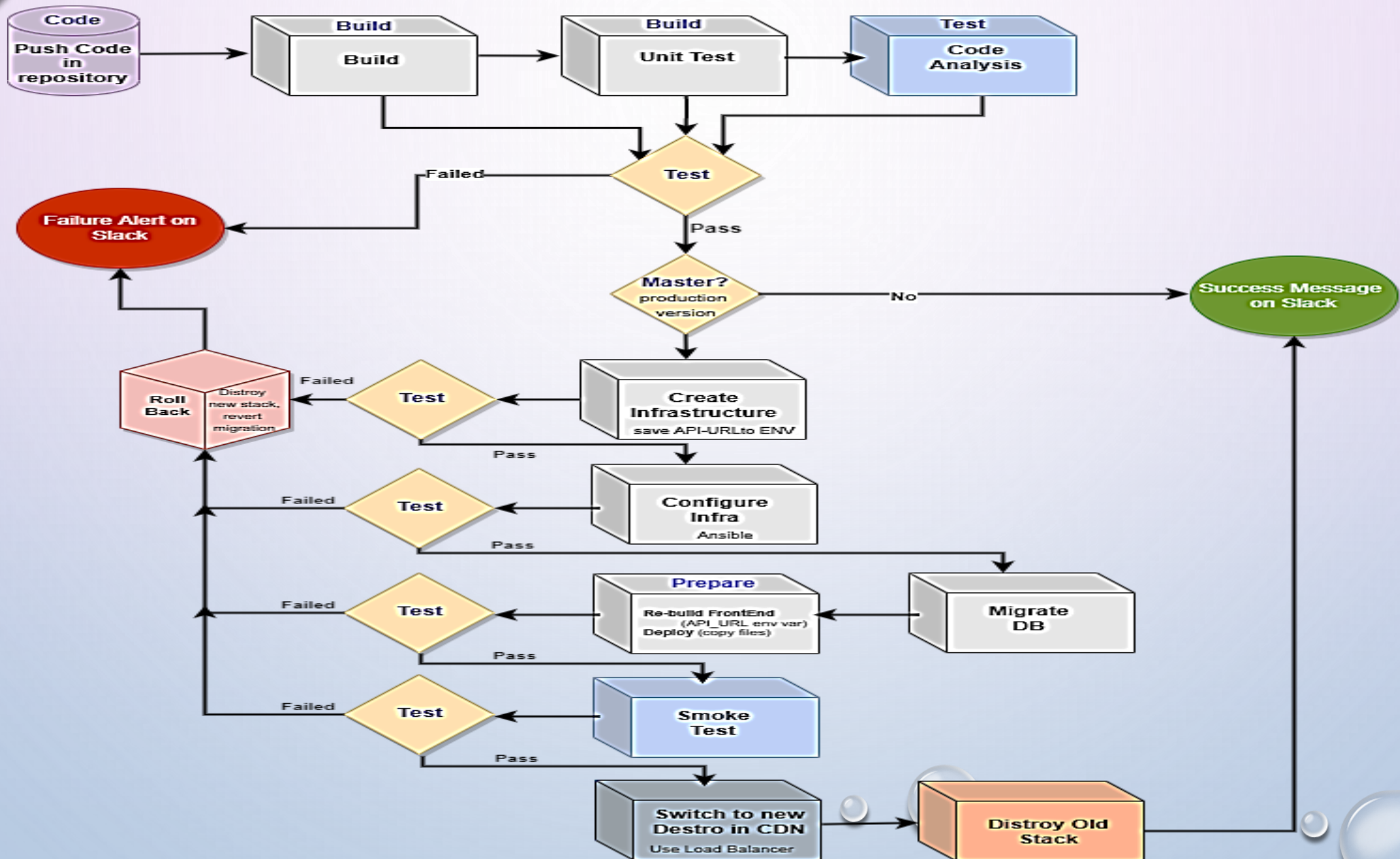
- New value-generating features released more quickly
For Example: *Faster and More Frequent Production Deployments.*
- Less time to market
For Example: *Deploy to Production Without Manual Checks.*



Protect Revenue

- Reduced downtime from a deploy-related crash or major bug
For Example: *Automated Smoke Tests.*
- Quick undo to return production to working state
For Example: *Automated Rollback Triggered by Job Failure.*

UDAPEOPLE PIPELINE





THANK YOU