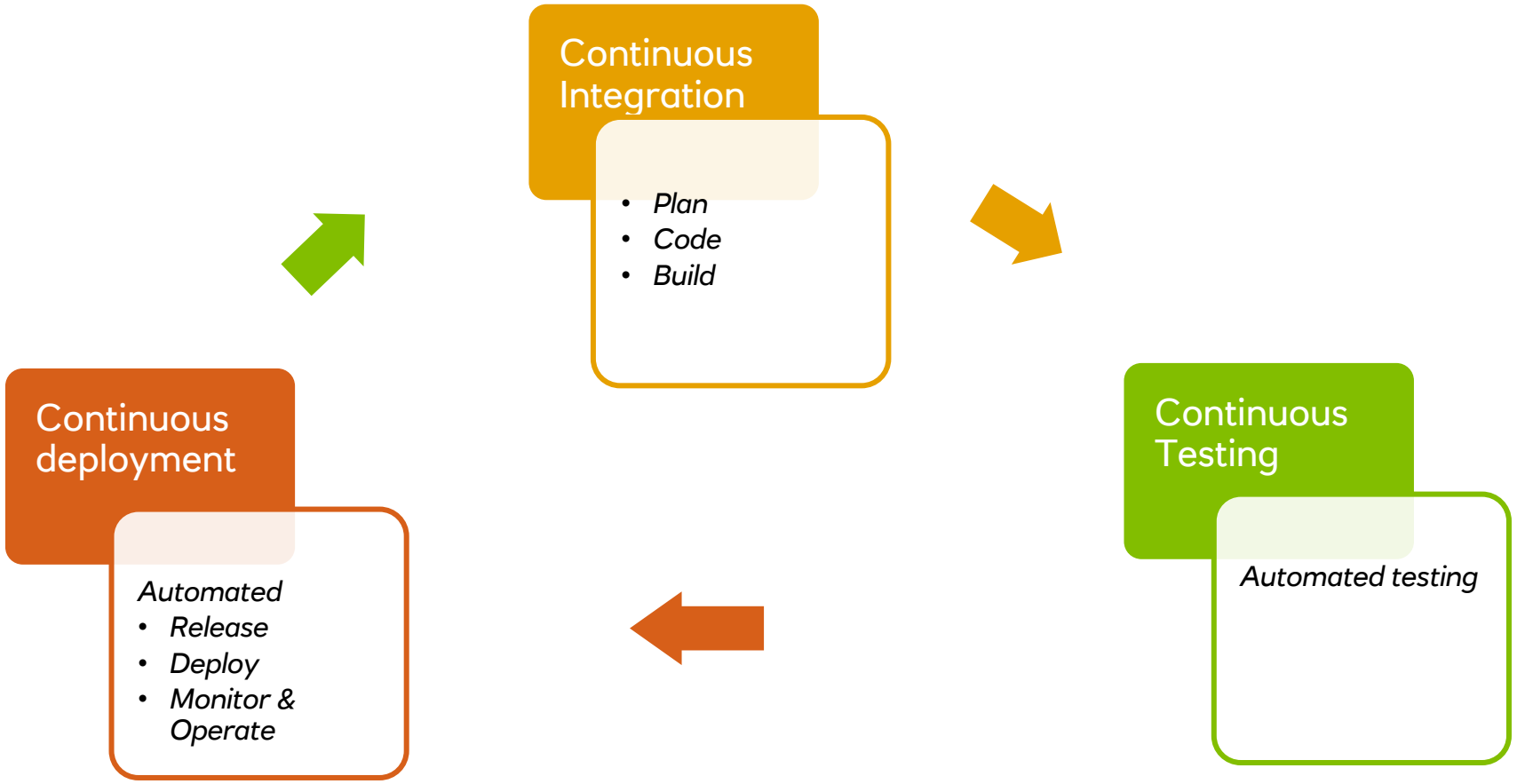
CICD Proposal

for Udacity DevOps

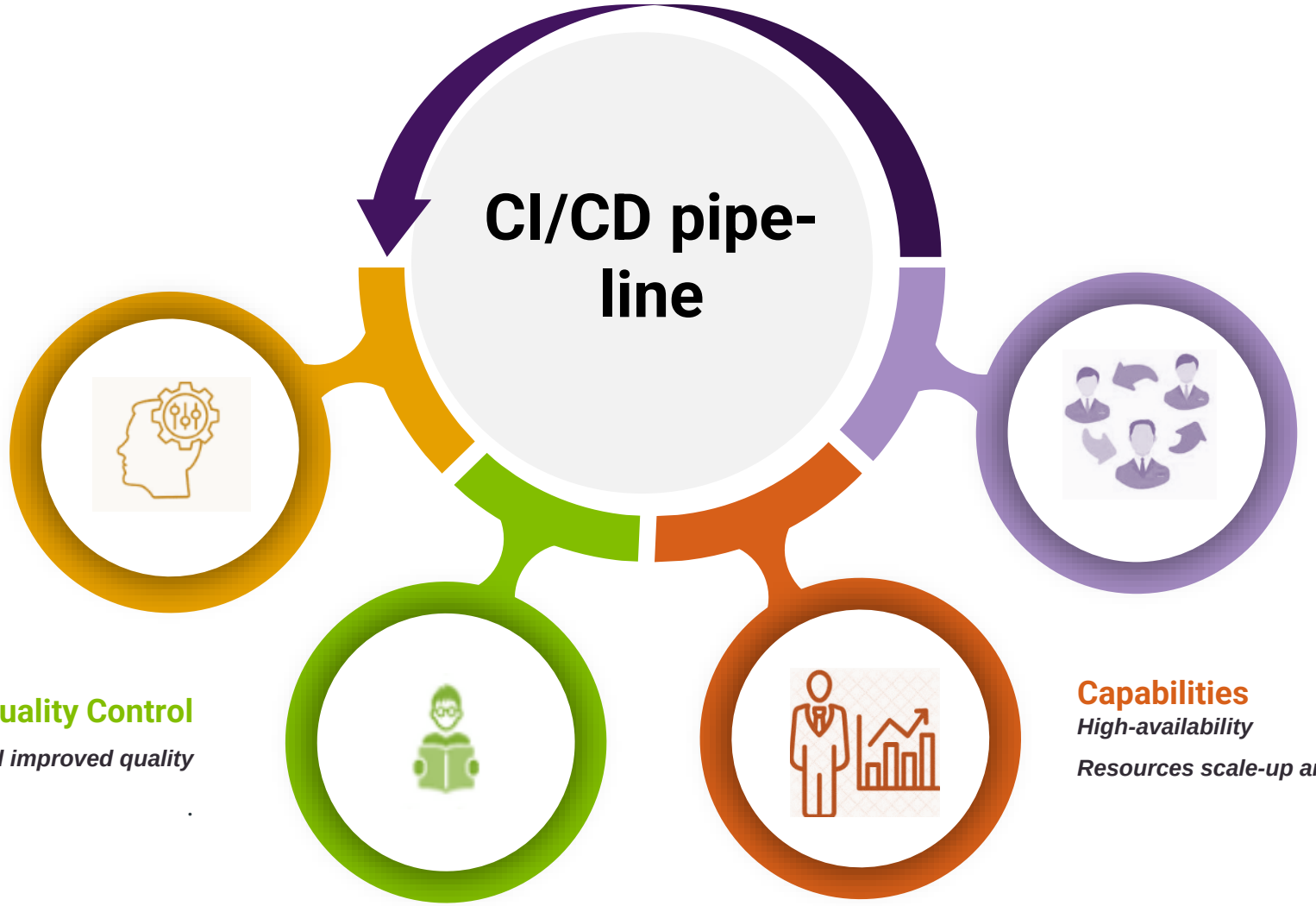
2023

Information Classification – Confidential

What is CI/CD software development cycle ?



Benefits of CI/CD



Cost control

Realtime cost monitoring and alerting.

Collaboration

Fast and cost-effective delivery.

Agility

Quality Control

Automating testing and improved quality

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Capabilities

High-availability

Resources scale-up and scale-down

Benefits of CI/CD

Cost Control

- *CI/CD pipeline reduce human intervention across the application development lifecycle. IT reduce the cost drastically.*
- *Enable us to take advantage of Cloud's 'PAY as You Go' costing model.*
- *CICD allow us to build infra with high agility, it means realistic budgeting and cost planning.*
- *CICD allow us to forecast the cost of development and can take decisions about the revenue.*

Quality Control

- *Automated testing reduce the testing cost and time.*
- *Effective & early bug(s) finding and continuous resolution deployment(s).*
- *Automated code review and scanning for security and vulnerabilities.*
- *Version control, development process produce high-quality software.*

Benefits of CI/CD

Collaboration

- *CICD enable teams to work with great collaboration.*
- *Applications are developed to meet changing business reequipments.*
- *Multiple teams can work parallelly across the Globe.*
- *Fast and cost-effective delivery.*

Capabilities

- *High availability solutions hosted nearer to the business user's geographical location.*
- *Fully automated Disaster recovery solution.*
- *Scaling up and down to meet the business requirements.*
- *No huge upfront cost required to start the project or experiment.*

Summary

We should see if CI/CD is a good fit for your business by answering below questions.

- *Is CICD going to help business and users to achieve their goals in less time and cost?*
- *Does CICD improve the productivity of developers and testers?*
- *Is the automation technically feasible ?*
- *Is CICD cost effective at all stages of development?*

If Answer is 'YES', CICD will bring huge advantages !