

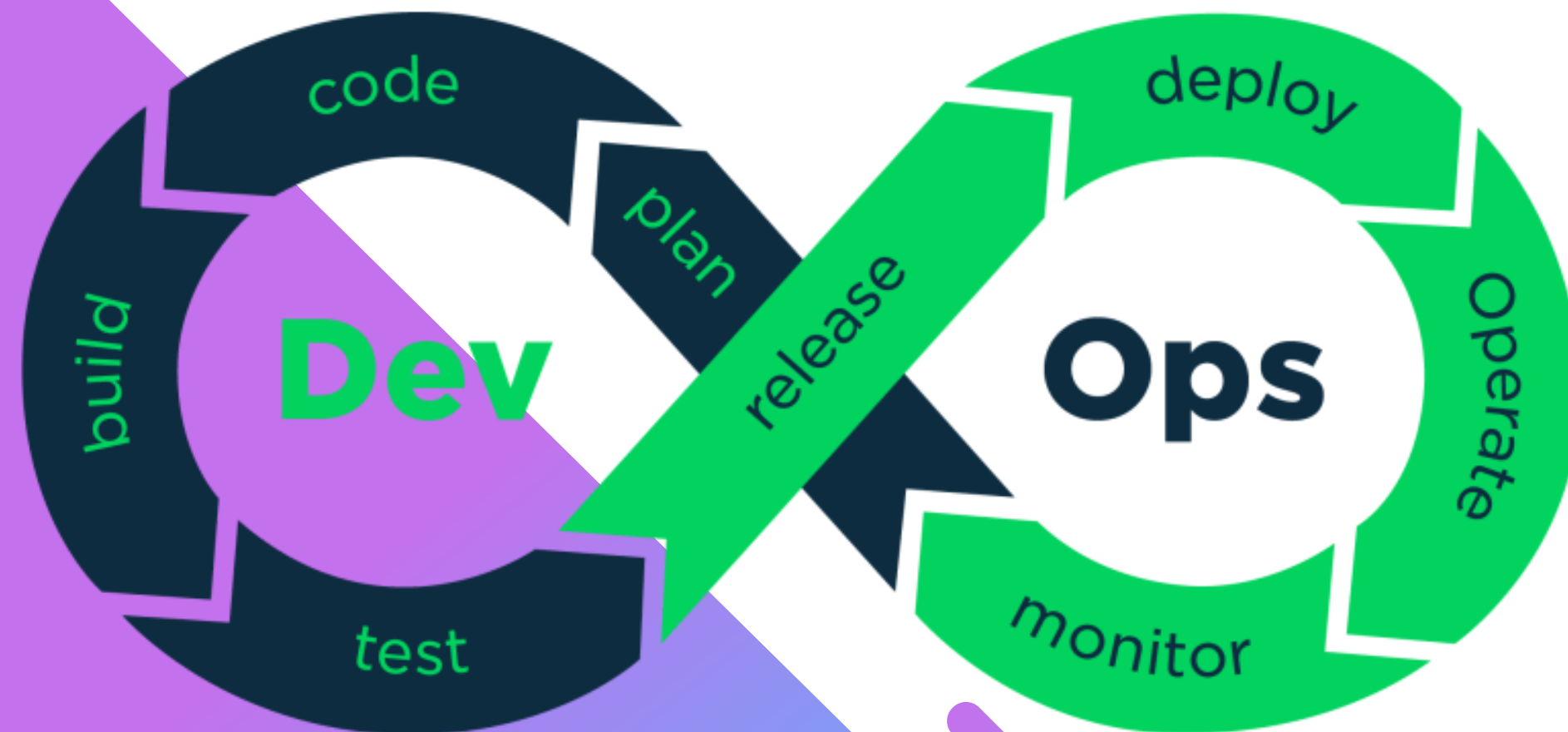
UDACITY

CI / CD (SECTION 1

UDAPeople

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Fundamentals of CI/CD



1. Continuous Integration (CI):

- Definition: CI involves the automatic integration of code changes from multiple developers into a shared repository.
- Benefits:
 - Early bug detection
 - Collaboration
 - Code quality

2. Continuous Deployment (CD):

- Definition: CD focuses on automating the release and deployment of applications to various environments.
- Benefits:
 - Faster time to market
 - Increased reliability
 - Rollbacks and roll-forwards

Benefits of CI/CD for Cloud-Based Software Products >>>

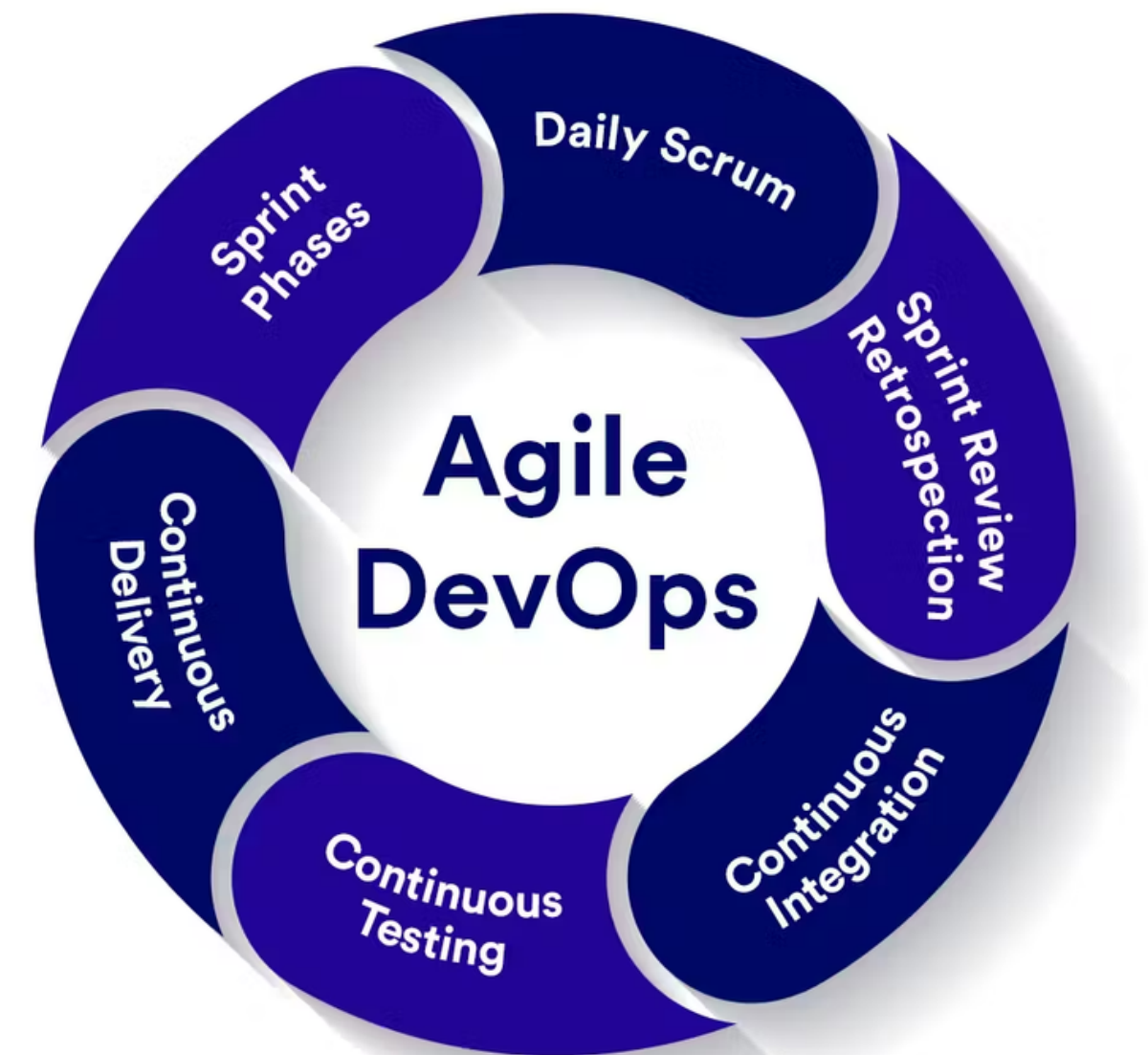
1. Increased Developer Productivity:
 - a. CI/CD streamlines the development workflow by automating time-consuming and repetitive tasks, such as code integration, testing, and deployment.
 - b. Developers can focus more on writing code and delivering value, rather than being burdened by manual processes.



Benefits of CI/CD for Cloud-Based Software Products >>>

1. Agile Development and Iteration:

- a. CI/CD fosters an agile development environment, enabling rapid iteration and continuous improvement.
- b. Implement user feedback quickly, iterate on features, and adapt to evolving market needs with ease.





CONCLUSION

1. Embracing CI/CD for your cloud-based software products brings numerous benefits, including accelerated time to market, enhanced software quality, increased developer productivity, and agility in development.
2. By automating integration, testing, and deployment processes, CI/CD empowers your team to deliver better software faster and stay competitive in the market.
3. Don't miss out on the advantages of CI/CD—start implementing it in your development workflow today and unlock the true potential of your cloud-based software products.