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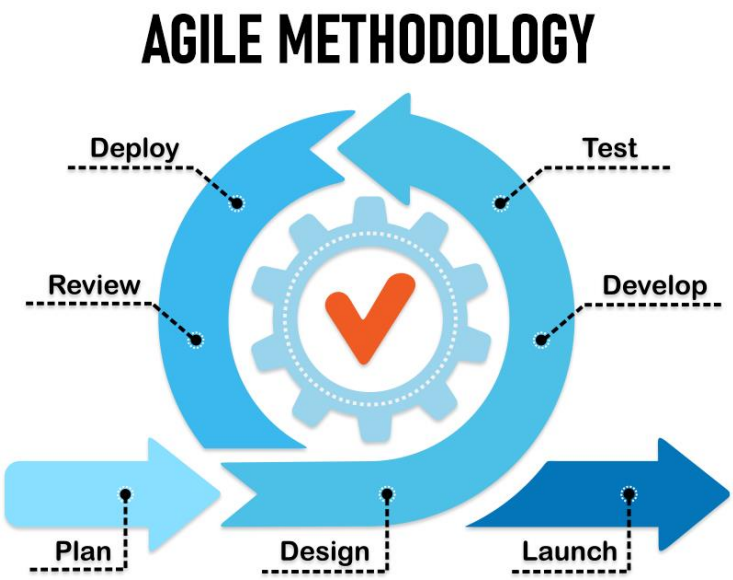
Agile vs DevOps

PREPARED BY :

YOUSSEF YASSER MOHAMMED HUSSEIN

What is Agile?

Agile is an iterative approach to project management and software development that helps teams deliver value to their customers faster and with fewer headaches.



Recently, a new methodology has started to come out to us since 2007 and this methodology is called (Devops_).

Why Devops??..

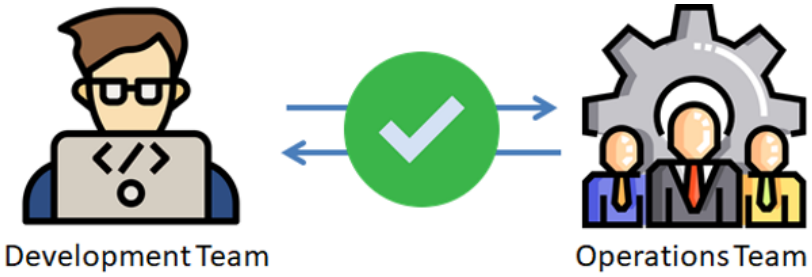
in any software lifecycle, software has to go through two teams development teams and operations team.

Some of roles and responsibilities of	
Operations team	Development team
Application deployment	BUSINESS ANALYST
Application, Network, and Infrastructure monitoring	PRODUCT OWNER
Log management	PROJECT MANAGER
Database design and administration	TEAM LEAD
Incident management and troubleshooting.	SOFTWARE ARCHITECT
Application performance management.	SCRUM MASTER
Service level management and reporting.	DEVELOPERS
----------	QA TEAM
----------	UX/UI DESIGNERS
----------	TESTERS

⟶ Using (devOps) model to prevent the conflict that could be happened between development and operations teams, sometime when a problem hits the software process, it takes a long time to know the reason of the issue and where it comes from Development or operation team, not to mention the blame that each team put it on each other.

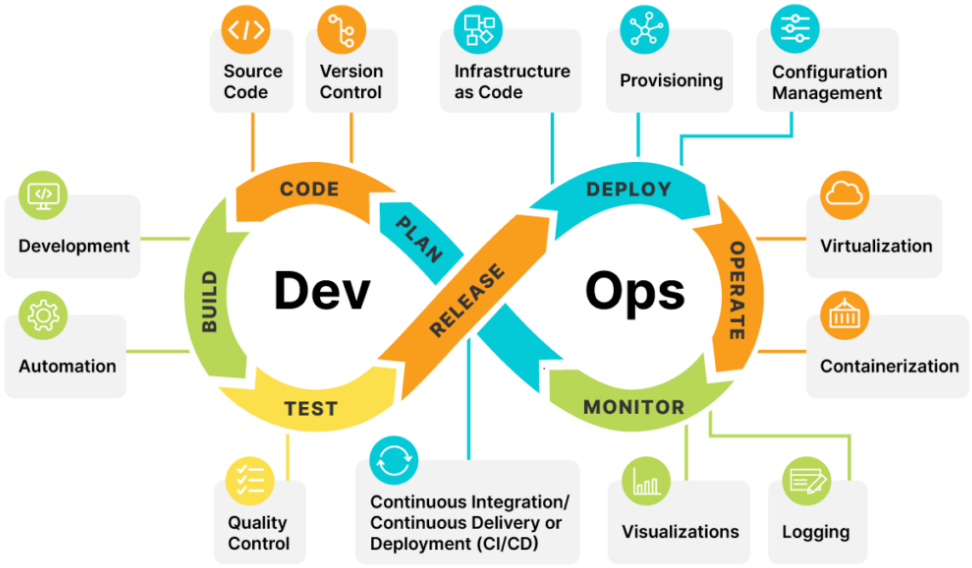
DevOps Model Defined

DevOps is a set of practices that combines software development (Dev) and IT operations (Ops).



It aims to shorten the systems development life cycle and provide continuous delivery with high software quality.

DevOps is complementary with Agile software development, several DevOps aspects came from the Agile methodology.



Benefits of DevOps…

- Speed
- Rapid Delivery
- Reliability
- Scale
- Improved Collaboration
- Security

DevOps tools…

DevOps process needs to use the right tools to address the key phases of the DevOps lifecycle:

Plan

Jira Software Confluence slack

Build

kubernetes docker

Production-identical environments for development

ANSIBLE CHEF Progress docker puppet Terraform

Infrastructure as code

Bitbucket GitHub GitLab

Continuous integration and delivery

Jenkins aws circleci snyk

Continuous integration

mabl SAUCELABS XRAY SMARTBEAR Zephyr

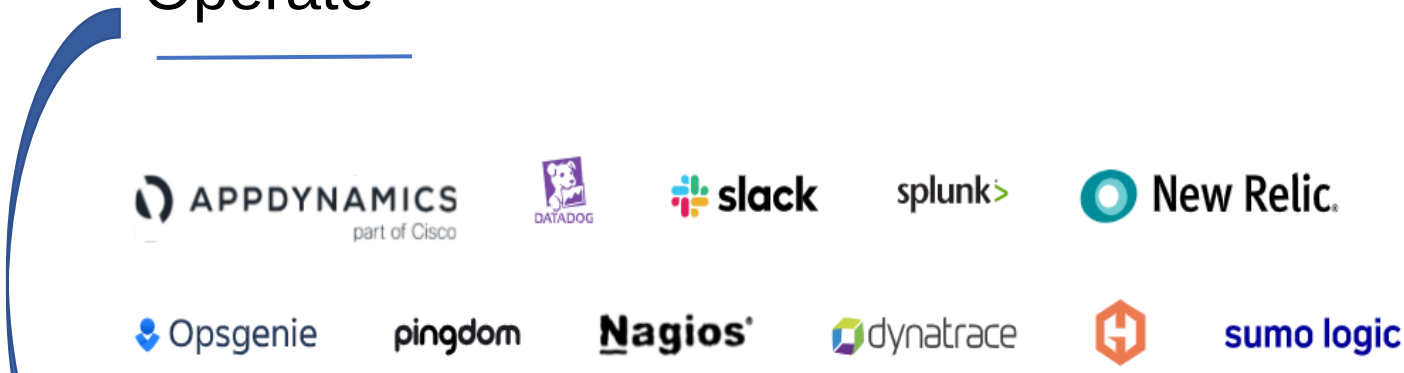
Test

Jira Software

Deployment dashboards

Bitbucket AWS CodePipeline

Operate



Application and server performance monitoring:

Jira Service Management
Jira Software
Opsgenie
Statuspage

Continuous Feedback

GetFeedback
slack
Jira Service Management
pendo