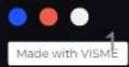


BY, ANAS ABDULATIF

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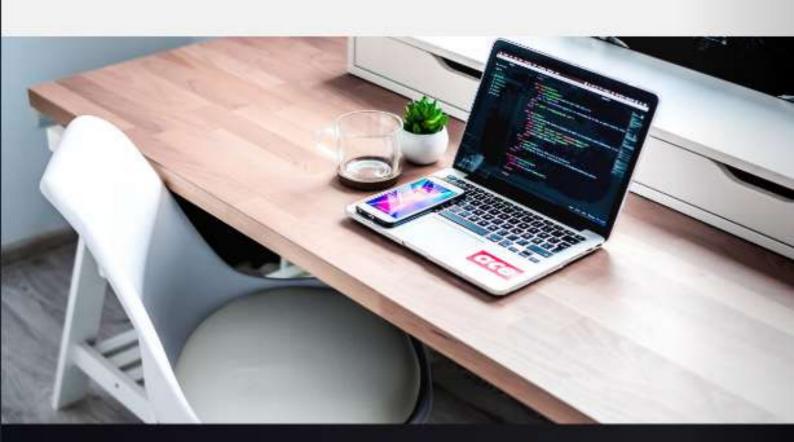
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What is DevOps

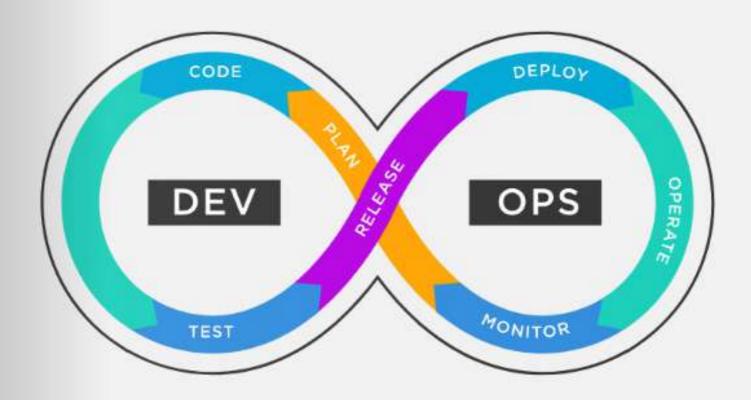
DevOps is a software development method that emphasizes collaboration and communication between development and operations teams. The goal of DevOps is to increase the speed and quality of software delivery by breaking down silos between these teams and automating the software delivery process.





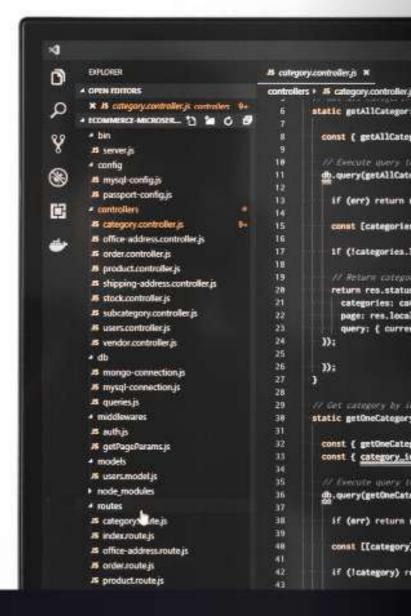


Stages Of DevOps



Some key practices of DevOps include:

- Continuous integration and continuous delivery (CI/CD): This involves automating the software build, test, and deployment process to reduce human error and speed up delivery.
- Infrastructure as code (IAC): This involves using code and automation to manage and provision infrastructure, rather than manually configuring it.
- Monitoring and logging: This involves using tools and automation to monitor the performance and health of the software and infrastructure, and to collect and analyze log data.

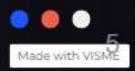




Some key practices of DevOps include:

- Microservices: This involves
 breaking down monolithic
 applications into smaller,
 independently deployable services
 that can be developed, tested, and
 deployed separately.
- Collaboration and communication:
 DevOps requires close collaboration and communication between development and operations teams to ensure that software is delivered quickly and reliably.





The Value of DevOPs

Adopting DevOps practices can help organizations improve their software delivery process and become more agile and responsive to changing business needs. It allows teams to focus on delivering value to customers, rather than being bogged down by manual processes and silos.

DevOps is not only a set of practices but also a culture, which is adopted by organizations to empower their teams to deliver software with high speed and quality. It's important to note that implementing DevOps is not a one-time effort, it's a continuous process of improvement and requires the support and commitment of the entire organization.

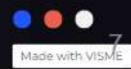






DevOps relies heavily on a variety of tools to automate and streamline the software development and delivery process such as

- Version Control Systems (VCS) such as Git, Mercurial, and Subversion are used to manage and track changes to the codebase.
- Continuous Integration (CI) tools such as Jenkins, TravisCI, and CircleCl are used to automatically build, test, and deploy code changes.
- Infrastructure as Code (IAC) tools such as Terraform,
 Ansible, and Puppet are used to manage and provision
 infrastructure in a repeatable and automated way.
- Collaboration and communication tools such as Slack, Jira, and Trello are used to facilitate communication and collaboration between development and operations teams.



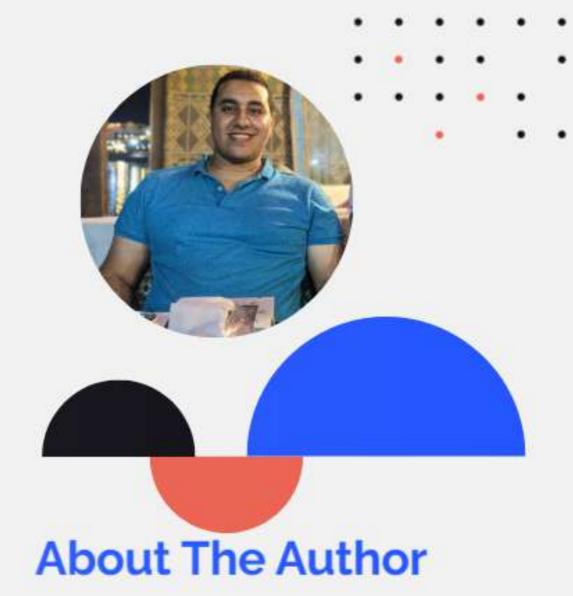


DevOps Tools

DevOps relies heavily on a variety of tools to automate and streamline the software development and delivery process such as

- Containerization tools such as Docker and Kubernetes are used to package and deploy software in a consistent and portable way.
- Monitoring and logging tools such as Prometheus, Grafana, and Logstash are used to monitor the performance and health of software and infrastructure, and to collect and analyze log data.
- Test automation tools such as Selenium, TestNG, and JUnit are used to automate the testing process.
- Cloud platforms such as AWS, Azure, and GCP provide a wide range of tools and services that can be used to implement DevOps practices such as virtualization, container orchestration, and continuous delivery.





I am a DevOps Engineer who's always on the
lookout to improve my skills. I just graduated from The British
University in Egypt, I had a lot of experience in
collage and serval internships and courses in DevOps Field
such as FWD AWS Cloud Devops and ITI DevOps track
beside Software engineering skills I got from collage, I have
good commination skills where I was Vice President and cofounder of GDSC (google developers student club)

