Hello All,

As part of hashtag#90DaysofDevops I am happy to share my hashtag#Day1 learnings here.

**What is Devops?**

Is it just developer or operations team or combination of both?

Is it only tools such as docker, K8, terraform etc?

Or CI CD pipelines?

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**Lets find out what is Devops?**

DevOps is a methodology in an organization that promotes collaboration between development and operations team to smooth out the process of software delivery by using each others tool in an automated way. It helps to enable rapid deployment of the products.

The DevOps lifecycle is a continuous software development process that employs DevOps best practices to plan, build, integrate, deploy, monitor, operate, and offer continuous feedback throughout the software's lifecycle.

**What is Automation, Scaling, Infrastructure in DevOps ?**

Automation, scaling, and infrastructure are critical components of DevOps that enable teams to deliver software faster, with better quality, and at scale.

Automation involves automating the entire software delivery process, from code creation to testing, deployment, and monitoring.

Scaling involves designing and implementing systems that can handle increased load and traffic.

Infrastructure involves designing and managing the hardware and software required to run applications and services hosted on cloud platforms.

**Why DevOps is So Important?**

The reasons that have contributed the most to DevOps’ development are:

1. Shorter development cycles that encourage innovation

The fact that both departments (development and operations) come together is an advantage when it comes to releasing new apps, products… It is generally known that the more innovative companies are, the higher their chances of outrunning the competition. Which is essential to increase significantly competitiveness.

2. More collaboration, better communication

Thanks to the union between both teams, productivity improves a lot. The DevOps culture is based on achieving the best performance in such a union, instead of worrying about individual objectives.

As a result of both departments being fused, the process becomes more fluid since everyone is oriented towards a common goal.

To ensure that your DevOps team reaches its best performance, it is necessary to create a transparency culture in which responsibilities are shared and immediate feedback is guaranteed.

3. Reduced deployment failures and faster time to recover

Most failures during development occur due to programming defects. Having a DevOps team will allow for more releases in shorter time spans. This way, it is easier and more likely to find possible defects in the code. Recovery will be quicker.

4. Efficiency: Improved resource management

Increased efficiency helps speed up development and reduce coding defects and problems.

