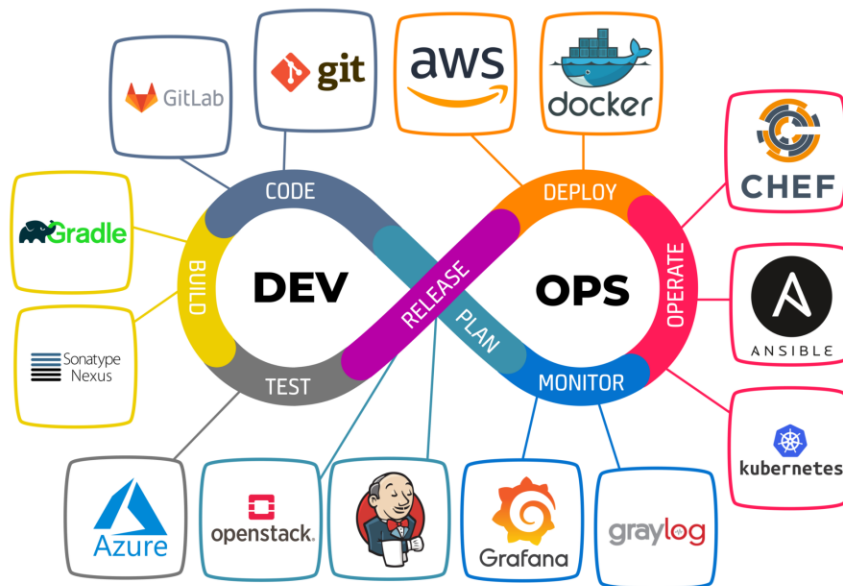


Day -1

❖ What is DevOps:

Devops is a culture that promotes collaboration between Development(Dev) and Operation(Ops) Team.



This allows deploying code to production faster and in an automated way.

It helps to increase an organization speed to deliver application and services.

There are lots of tools are available in a market.some of them are listed below

- Git(Version Control System)
- Jenkins(CI/CD Tool)
- Gradle/Maven(Build the application)

- Ansible(Configuration Management Tool)**
- Docker(Containerization Tool)**
- Kubernetes(Container Management Tool)**
- Grafana(Monitoring Tool)**

❖**What is Automation, Scaling:**

Automation:-

Automation is the ability to use technology to perform tasks with minimal human effort,using Automation we can run several jobs or applications automatically .we can also have a facility to schedule a job at a specified time,when our job are run automatically.

Scaling:-

Scaling can be defined as a process to expand the existing configuration (servers/computers) to handle a large number of user requests or to manage the amount of load on the server. This process is called scalability. This can be done either by increasing the current system configuration (increasing RAM, number of servers) or adding more power to the configuration.

There are 2 types:

- **Vertical Scaling**- increasing the capacity of a same machine by adding more resources such as storage, memory.
- **Horizontal Scaling** - adding more instances of the same type of machine .