**DEVOPS**

* **It is culture that improves deliver**
  + **It is not all about delivery**
  + **but automation**
  + **It includes quality**
  + **Also monitoring**
  + **Testing**

**Devops is a process improving delivery quickly that ensures proper automation and quality maintained and maintain continuous monitoring and continuous testing**

**Why devops?**

**10 years before: all thing manual effort it will take deploy from local laptop to production envinorment(customer use) nearly 10 days or more than**

**System administrator----🡪creating server(vm ware ,openstack everything bare metal)**

**Build & release engineer--🡪 deploy application on server**

**Server administrator-🡪 he creates app server**

**Developer(vc svn,cvs-🡪 push the code)**

**\*\*\*\*\*As a devops engineer u need to adopt new tool**

**Devops engineer improves efficiency**

**I was passionate learning devops**

**Core principles:**

* **Automation of the software development lifecycle.**
* **Collaboration and communication.**
* **Continuous improvement and minimization of waste**
* **Hyperfocus on user needs with short feedback loops**

**SDLC:**

**I is process follow in software industry**

**Design---- develop-----test---------🡪delivery high quality product**

**Steps for every org:**

---(requirements**)--Planning—(**define in document**) -defining— (**high level andlow level design **)---designing—building---testing---deplpoy------🡪it is a cycle**

**From the building onwards devops come into picture by making automation**

**Building -----developing----developers write code-🡪after they will push into git 🡪code repository-🡪 you can share this code with others (Developer)**

**Testing-----🡪application taken out from git and deploy it in server**

**QA engineers test the sotware🡪&push in to production server (QA)**

**Deploy-🡪 promote production server----ultimate customer**

**Everything happens in automated way -🡪improve the fastness--🡪avoiding manual intervention**

**Pillars of sdlc is:**

* **Building**
* **Test**
* **Deploy**