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Now a days whenever you are building an application it will be always a three tier architecture

If front end or logic has been failed using an image. It will automatically come up

1. Front end : Angular - Replication
2. Logic : ReactJS - Relocation - it will always ensure that if anything goes wrong . It will automatically start your application
3. Backend : Database MYSQL Mariadb or Mongo - we will run in cluster so there will no failure.

This is something called as Resilient Architecture.

It should run on Highly available environment.

IBM Resiliency Architecture.

Previously for Disaster Recovery.

You need to integrate this product in your datacenter. And for DR site. You can connect the product will aws or azure.

If due to some reason your on premises. You need to worry about either aws or azure the application is going to run

You cannot use something called servers. If you want to run those 800 pieces in 800 server it will too costly for any organization. To overcome this challenge . There is new technology which is container based technology.

Docker and to manage this container technology we use something called as Kubernetes.

To support microservice we need Docker and Kubernetes.

One ship on top of them we are putting. Containers.

Containers :

TikTok.

Streaming :

T20

Isp

QOS : Quality of service.

Download an app-it will always be slower.

Streaming it will much faster-streaming as no1 service. Using compression utility . All the videos you are watching they are lighter.

The changes are happening frequently.

Due to micro services you need to make frequent changes in the application .

Small changes: 7 days

Medium change: 14 days

Heavy change: 21 days.

Version control system: it is an utility which is used to control your application development.

Git which can easily manage your code. Plus it gives you history of the changes you are doing in your application

Previously we used to create application and compile the app. Due to micro service. We will have more compilation.

Continuous Integration and Continuous Delivery

1. Git
2. Jenkins
3. Tdd bdd Junit xunit
4. Sonar quobe integration with jenkins

5. Selenium webdriver testing.
6. Container technologies
7. Kubernetes.
8. Spring is being used for building microservice. Using Pom.xml

Agile : it is a practice to develop software. We need to build an perfect software. There will no bug.
Due to waterfall model.

Agile has come where we work on spring. We talk to the customer and gather the requirement. After 7 days we deliver the product to the customer. We go the feedback and add more feature as per the feedback. Like that the circle is going on.

The problem with agile methodology is that and there is no proper documentation.
There is no involvement of operation team.

Devops : it is an combination of agile and operation. Once you got the project. Inside your projhct you will have developer tester operation team all together. You can deploy your application smoothly.

If you want to work on a minor project in devops
Git,jenkins,junit,sonar,--docker.
Yes