**DEVOPS**

**What is Devops?**

Devops is the combination of the software development work and operational work which enabled the dissolution ofbarrier between both development and operational team and enables faster application build, faster testing process and faster deployment rate.

Devops enabled meeting business customers’ requirement at a much faster rate than the previous approach that existed since it made software update to the application at a frequent interval with lessened failure rates and easier maintenance of the application.

**Why we need Devops?**

* It broke the barrier between development team and operations team which resulted in cooperative work and increased the efficiency of their work since their deployment is at a much faster rate.
* It treated infrastructure as code rather than treating as manual process which is why the detecting of mistakes is easier since it is well documented.
* It enabled low failure rate of the application deployed to market since it is well documented and maintenance of the application is easier.
* It delivered software update to the application at a frequent interval and thus enabled to meet customer requirement therefore making the approach accountable.

**What was practised before Devops?**

**Waterfall:** This approach treated developing in stages: Analyze requirement, design, develop, test and deploy into operation. This approach required the output of the previous stage to make progress and thus making it time consuming, slower deployment rate, conflict between operation and development team is error occurred since it is staged approach.

**Agile:** This approach also treats developing in stages but at each stage, team looks for improvement at their work and it releases application with small frequent phases. This being a stage process makes it time consuming and also frequent small release also accounts for it.

**Merits of Devops.**

* Faster and better build product delivery.
* Faster update to the software of the application.
* Reliable since being well documented.
* Lessened failures rates.
* Even if failure, reduced recovery time.
* Efficient since meeting the customer requirement at a regular interval.
* Reduced risk rate.
* Maintaining stability of application is made easier.
* Improved software quality by automation.