DevOps Fundamentals

1. What is DevOps?

DevOps is a culture that improves the organization ability to deliver the application. DevOps is a process of improving the application delivery by ensuring that there is proper automation, quality, Continuous Monitoring/Observability and Continuous Testing.

1. Why DevOps?

Before 10 years, when the concept of DevOps was not available, still many teams involved in the process to deliver the code from Developer system to Production server.

Let’s say, we have system administrators, whose work is to create a server to deploy the application. Next, the BRE(Build & Release Engineer) comes to the picture and BRE used to fetch the code from the Git/CVS and deploy the application into the server. Now, the server administrator comes and creates an application server on top of the server, where our actual application will run. Still the process of Security, Monitoring etc. was there. This whole process is a manual process and will take around 10-15 days to complete. Hence, the concept of DevOps culture comes into the picture to automate the process by maintaining the quality with proper testing and monitoring.