Modernizing DevOps - IaC - Infrastructure As CODE with Pulumi

DevOps hype cycle journey – it began by claiming No Admins, No IT team, Self Service, No Code and manged to grow as Low CODE with (scripts and yaml). However, the final reality of DevOps is – it is all CODE.

With IaC as current mainstream, Operations part #DevOps is now a core development too. Developers shall write infrastructure logic as code along the side of Main Code, Unit Tests, Build Scripts. This way, IaC is new normal, it is also the only way to curtail growing cloud costs.

IaC can be realized with many technologies. Most famous one is Terraform, but it demands learning curve due to its own DSL. To make developers life easy, Pulumi which is 5 years old mature solution, allows developers to write Infra logic in the langauge of their choice (be it TypeScript, Java Script, C#, Go, Python or Java etc).

This workshop will provide great start point for developers to get used IaC with ‘Hello World’ examples on 3 main clouds GCP, Amazon and Azure using Java language and on how to manage Kubernetis too with Java. It would also talk about Unit Testing IaC code. Every developer who is vexed with manual tasks involved in managing cloud should attend this.

Raja Nagendra Kumar ( <http://www.linkedin.com/in/nagkumar> ), C.T.O of tejasoft has handled more than 2 billion lines of messy code in the last 18 years to scale & save products and developers from #techdebt & #badcode stress. As always, he likes #cleancode and now he does show superpower of cloud to with IaC to his #productFirst customers.

Nagendra is supported by Naimeesh R (<https://www.linkedin.com/in/naimeesh/> ), who #DevOps Engineer at TejaSoft.

1 to 1.5 hours’ time needed

DevOps engineers and developers in general are increasingly realizing that they need to write infrastructure logic as code along with main code, unit tests and build scripts. Infrastructure as Code (IaC) is the new normal and the only way to curtail growing cloud costs. DevOps' initial promise of no admin and self-serviced low/no code has given way to a harsher reality. IaC can be realized with many technologies. The most famous one is Terraform, but it demands a hard learning curve due to its own domain-specific language (DSL). Pulumi, which is a 5-year old mature solution, presents an easier option, with support for TypeScript, Java Script, C#, Go, Python, Java, etc.

This talk will guide developers with 'Hello World' IaC examples on three main cloud platforms (GCP, Amazon and Azure) using Java language. We'll see how to manage Kubernetes and unit testing of IaC code. Every developer who is vexed with manual tasks involved in managing cloud should attend this.