

TCW

THE CLOUDOPS  
WIZARDS

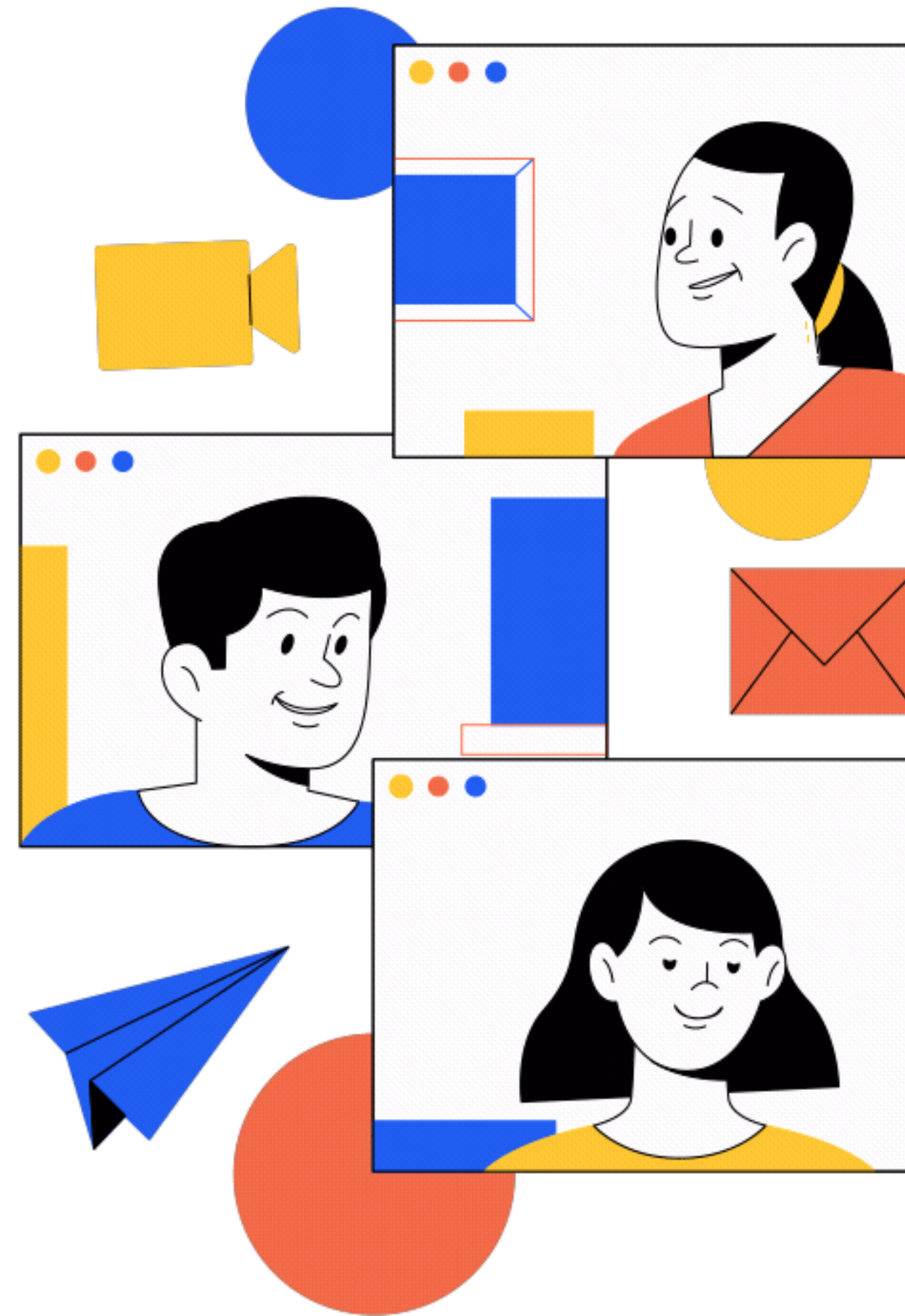
# #10weeksofCloudOps

## Week #5

Learn, share and grow together as a community!

Weekly live sessions on Discord.

 Anyone can join, no fees/cost



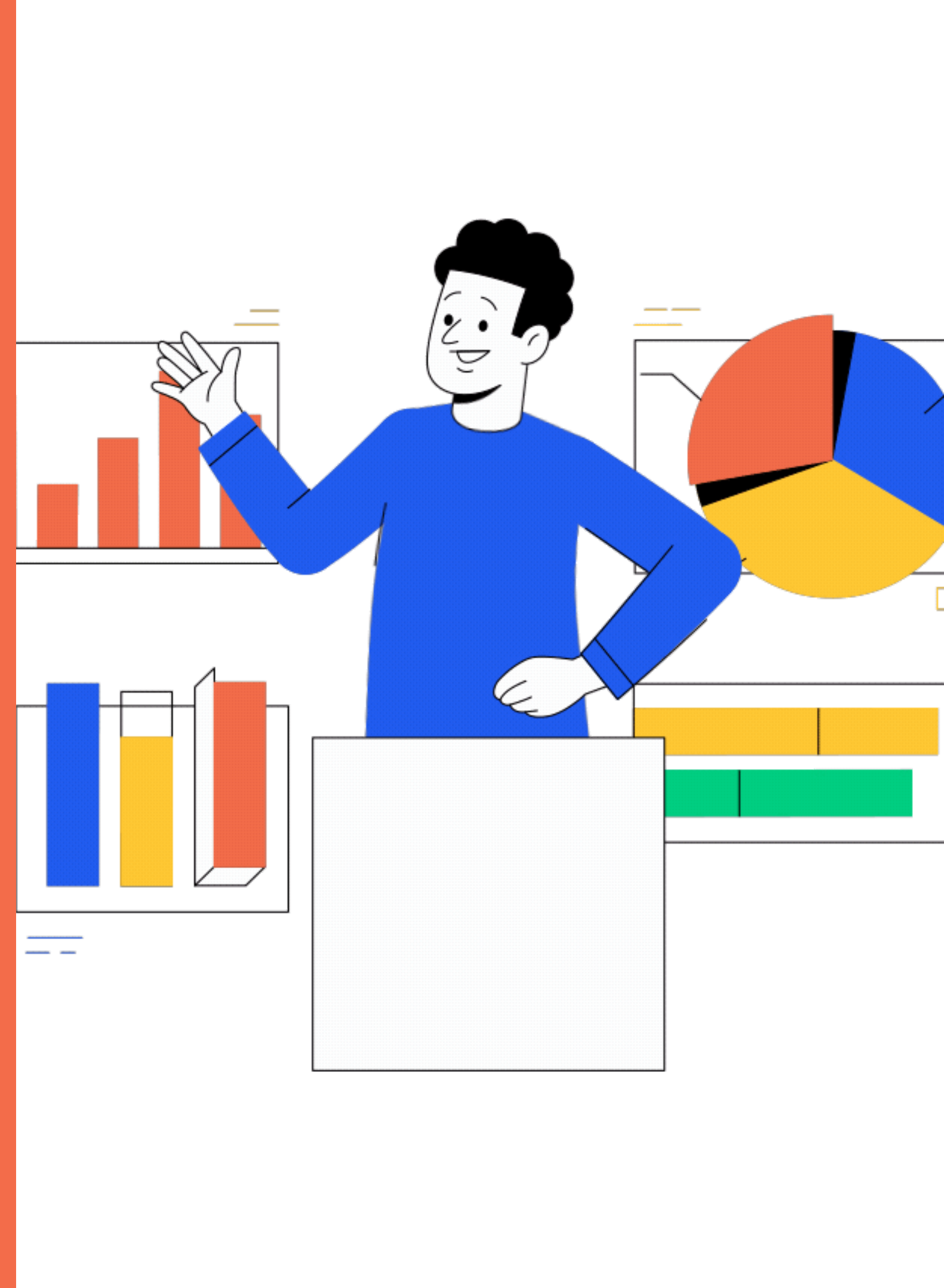
# #Week4 Challenge

## CICD on Kubernetes

- Dockerize a web application
- Provision a Kubernetes cluster using terraform( EKS/AKS/GKE/Minikube)
- CICD on Kubernetes using ArgoCD
- Security and best practices should be kept in mind.

## Deliverables:

- Blog and LinkedIn/Twitter posts.
- Architectural diagram.
- Github repo with code and readme file.



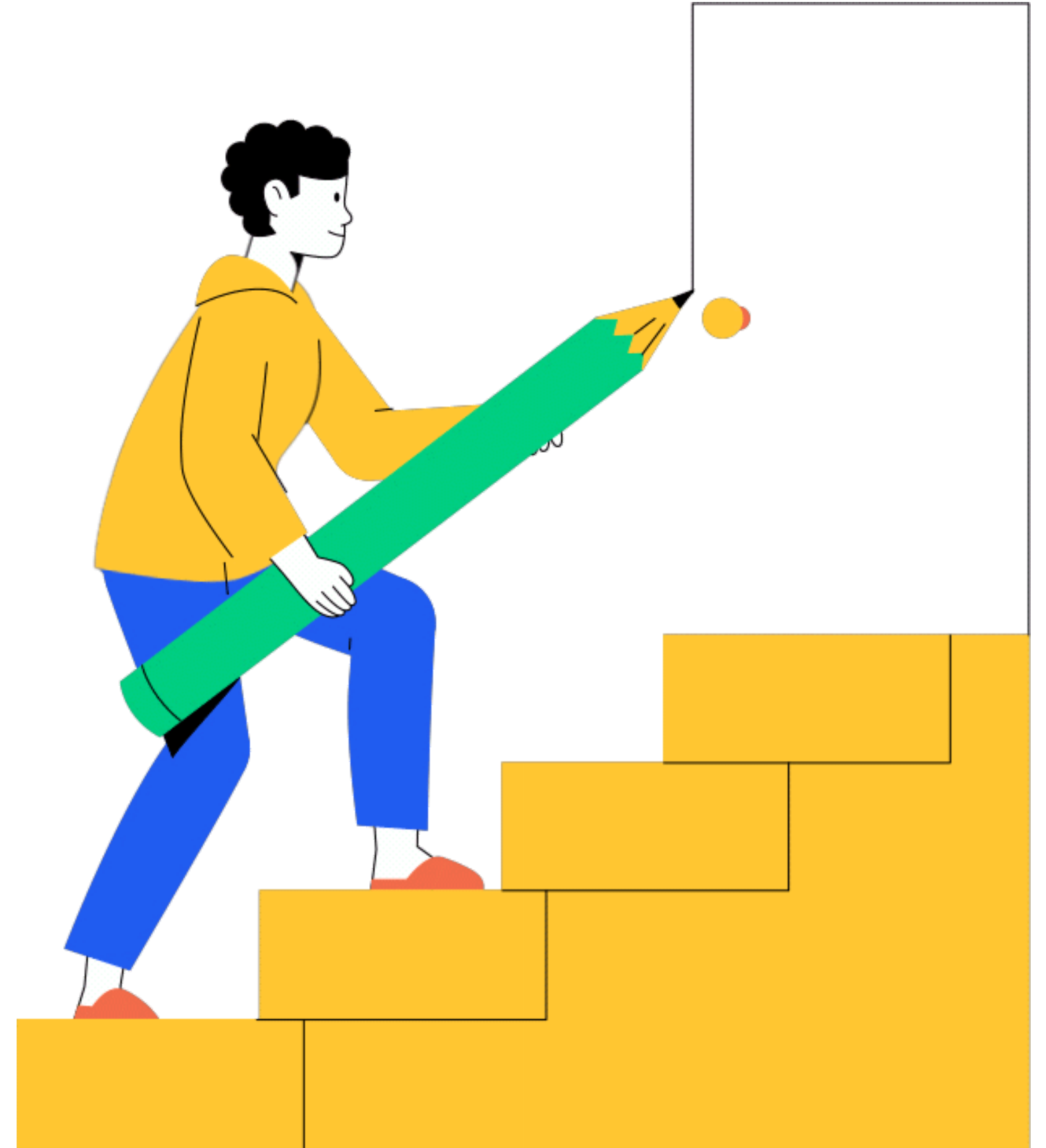
# Went well!

**Completed till the end, GitOps**

**Blogs were well crafted with details**

**Added Screenshots and other relevant details**

**Cross linking of blogs**



# Can be done better!



- **Diagrams need a little more work**
- **Terraform installation**
- **Requirements were missing**
- **GitHub Readme**



## **WEEK #4 WINNER**



**GOPAL GUPTA**

**[HTTPS://DEVOPSWITHGOPAL.HASHNODE  
.DEV/DEPLOY-A-WEB-APP-TO-AN-AKS-  
CLUSTER-USING-AWS-CODEPIPELINE-  
AND-ARGOCD](https://devopswithgopal.hashnode.dev/deploy-a-web-app-to-an-aks-cluster-using-aws-codepipeline-and-argocd)**

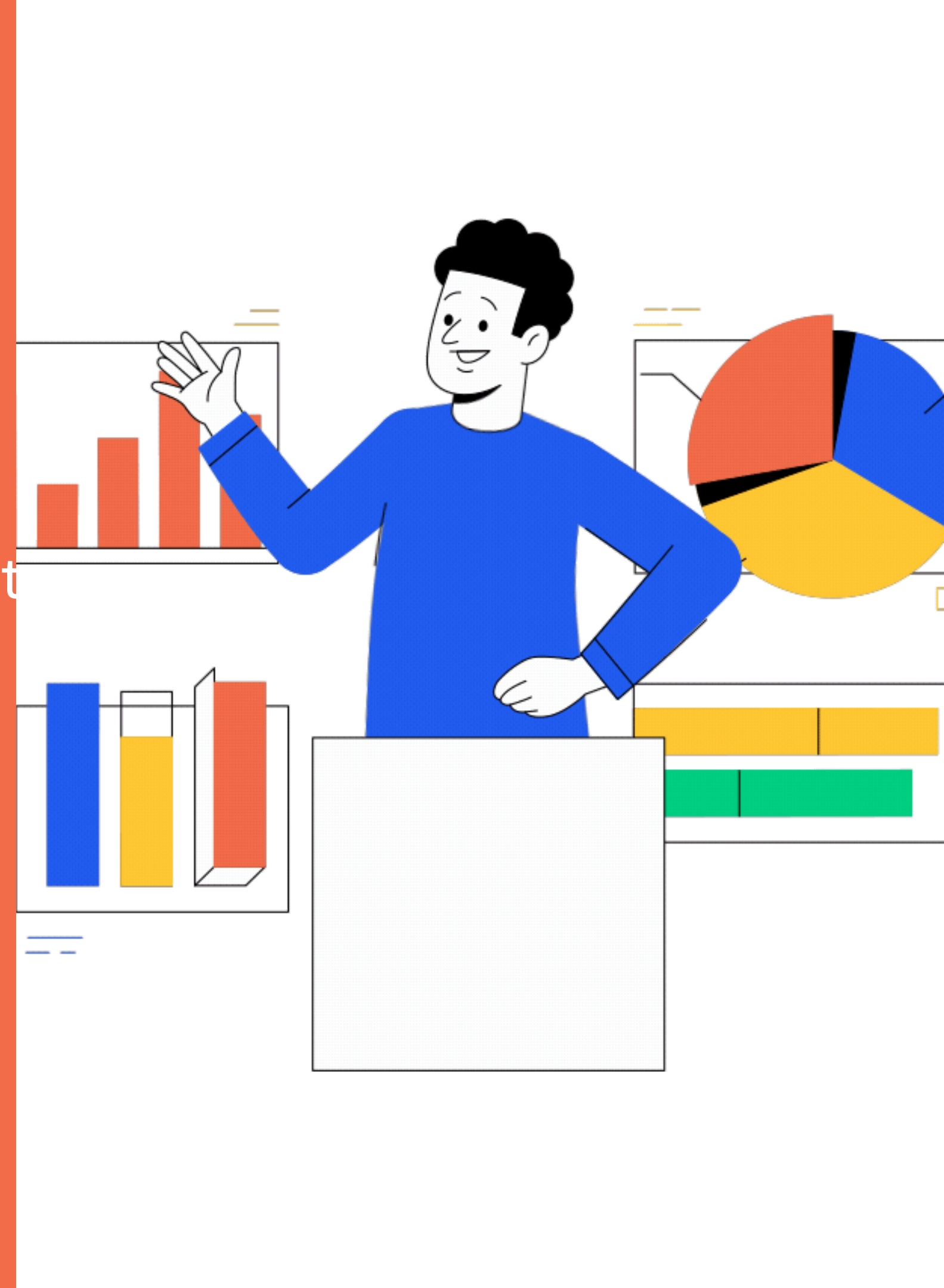
# #Week5 Challenge

## Implement Monitoring, Alerting, and Logging on Kubernetes.

- Leverage open-source tools Prometheus/Grafana/ELK.
- Create a custom monitoring dashboard that includes CPU, memory, disk, error codes.
- Create at least 2 metrics alerts and 2 log-based alerts
- Stream your logs to ELK.

### Deliverables:

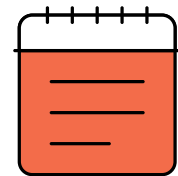
- Blog and LinkedIn/Twitter posts.
- Architectural diagram.
- Github repo with code and readme file.



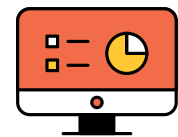
# Steps to Participate



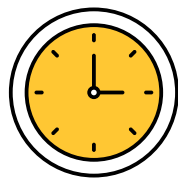
Cool gifts for  
winners after  
10th  
challenge



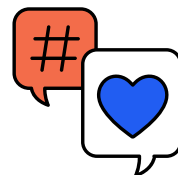
Register for the challenge if you haven't.



Build the End to End project and publish it on blogs or GitHub repo



Complete the submission before Thursday EOD so that we can review it on Friday before our next Saturday session.



Promote your Blogs/Github on LinkedIn/Twitter, mention me(Piyush Sachdeva) and the #10weeksofcloudops challenge



Submission must be done individually and on a public GitHub Repo

# Useful Documentations

- Will share in Discord chat





# Thank you!

Join our Discord community:  
<https://discord.com/invite/TNCs4BRzq8>

**Feel free to reach out for any queries:**

**Linkedin:** piyush-sachdeva

**Youtube:** @TechTutorialsWithPiyush

**Twitter:** techie\_piyush