

TCW

THE CLOUDOPS
WIZARDS

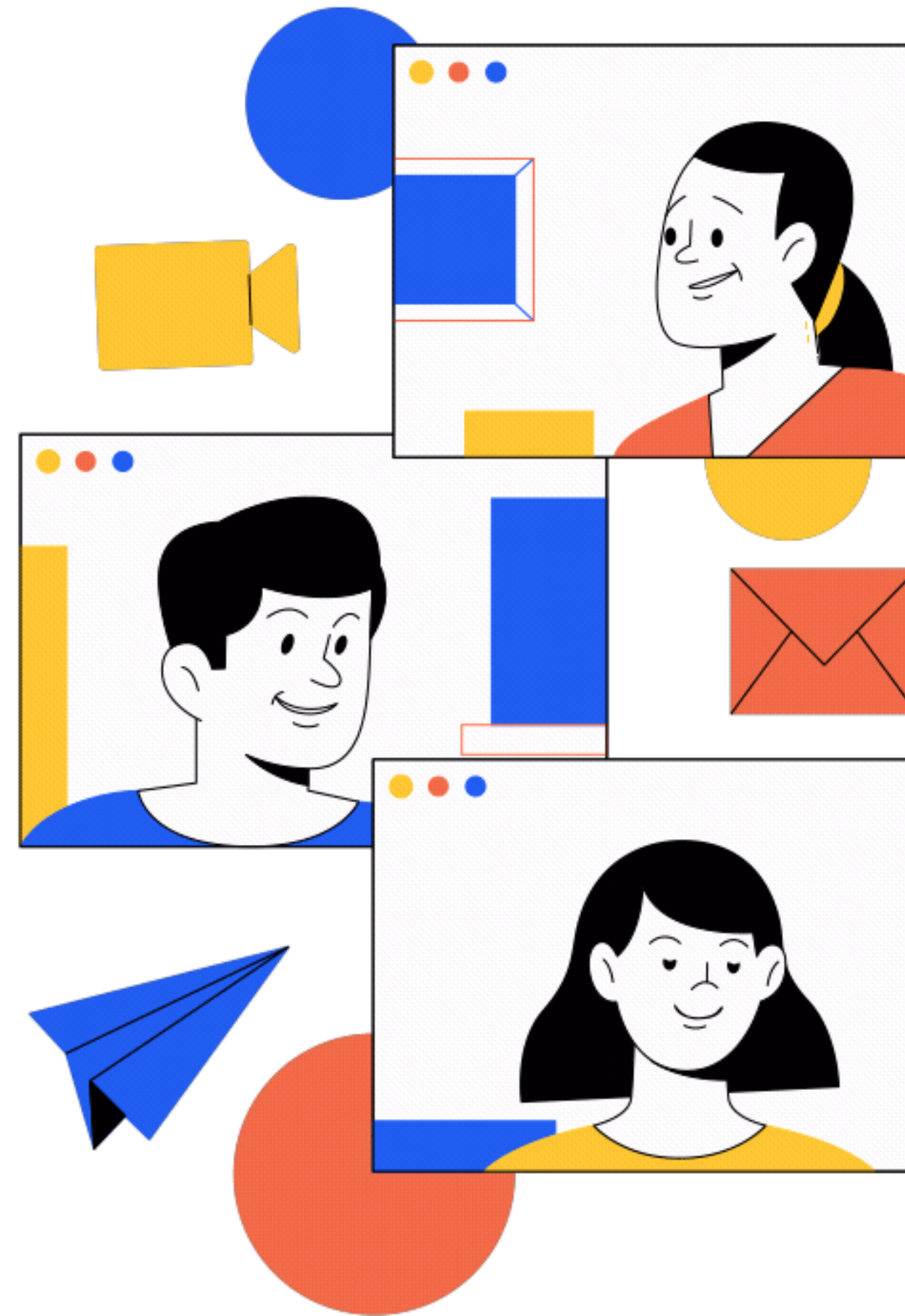
#10weeksofCloudOps

Week #3

Learn, share and grow together as a community!

Weekly live sessions on Discord.

 Anyone can join, no fees/cost



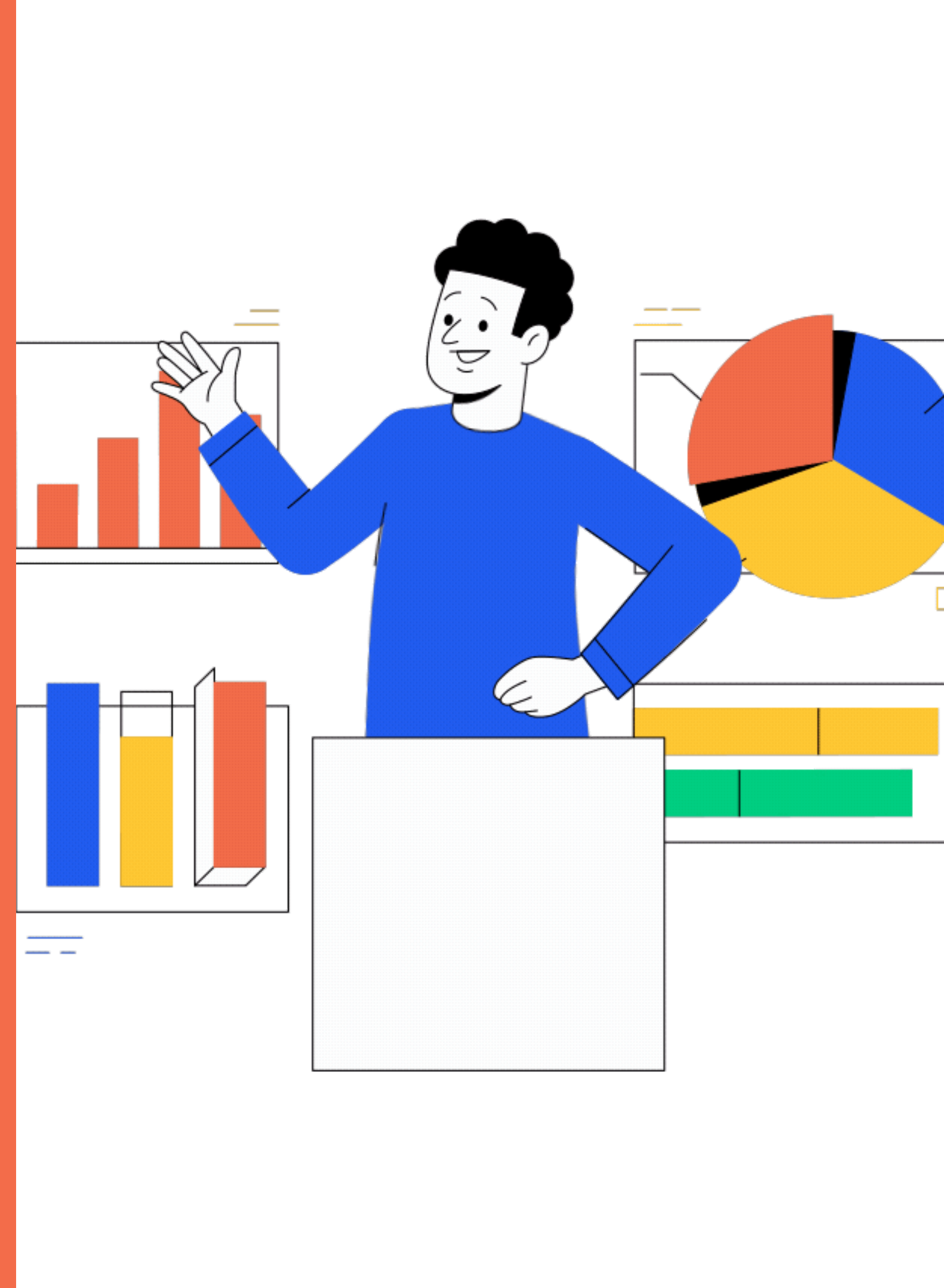
#Week2 Challenge

Design a 3-tier architecture in AWS or Azure or GCP.

- Highly available, highly scalable, and fault-tolerant
- Try to use custom VPC/VNET instead of default ones.
- Secure and apply best practices of IAM and security.

Deliverables:

- Blog and LinkedIn/Twitter posts.
- Architectural diagram.
- Details about each step with screenshots



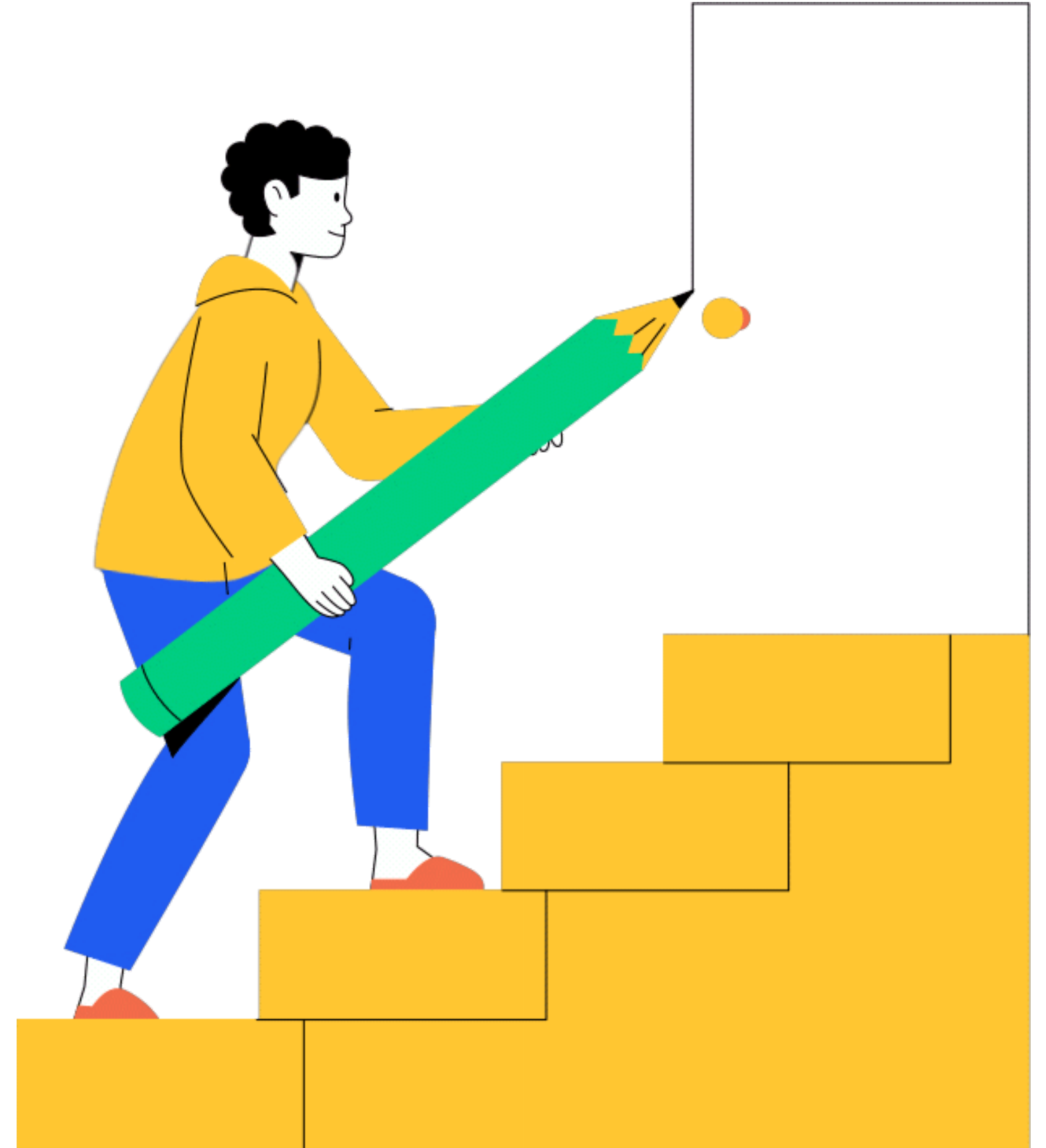
Went well!

Architectural diagram

Understood the requirements

Detailed and nicely explained blogs

**Added Screenshots and other
relevant details**



Can be done better!



- **Focus more on security**
- **Principle of least privilege**
- **Backups and DR**
- **Missing references**
- **Icons and descriptions**
- **Multi-AZ deployment**
- **Ask for help!**



GOPAL GUPTA

[HTTPS://DEVOPSWITHGOPAL.HASHNODE
.DEV/ARCHITECTING-3-TIER-
APPLICATION-ON-AWS-VPC-WITH-ASG-
ELB-ALONG-BACKUP-PLAN](https://devopswithgopal.hashnode.dev/architecting-3-tier-application-on-aws-vpc-with-asg-elb-along-backup-plan)

- **AWS Firewall**
- **AWS Backup and DR**
- **Multi-Region for high availability**
- **Good references at the end.**

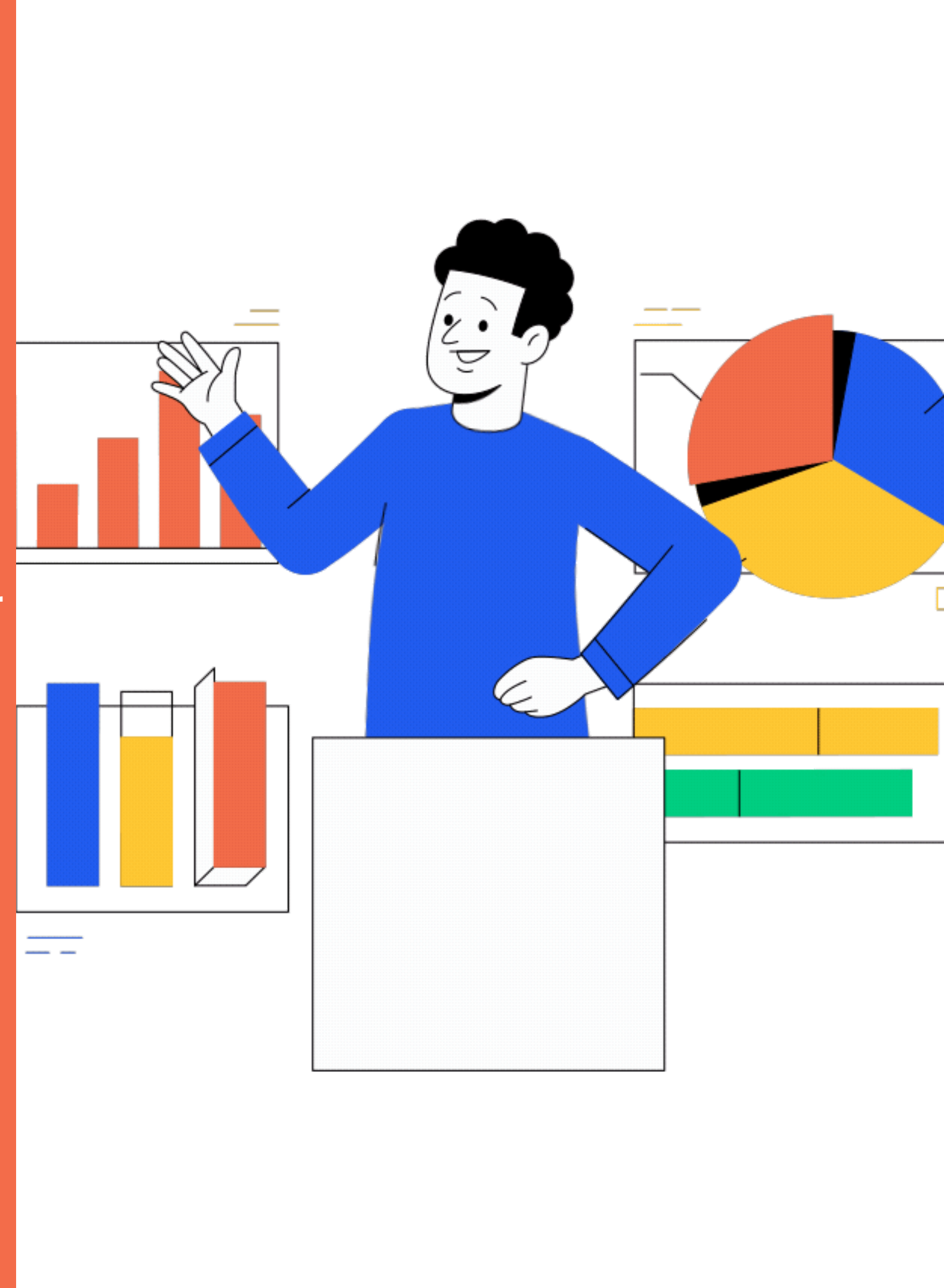
#Week3 Challenge

Implement a 2-tier architecture in AWS or Azure or GCP using Terraform.

- Leverage modules to create reusable and shareable
- Use variables and data sources to make your code flexible and maintainable.
- State file should be stored remotely.
- Security should be kept in mind.

Deliverables:

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



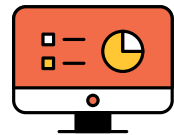
Steps to Participate



Cool gifts for winners



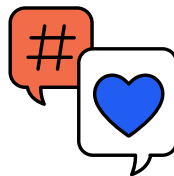
Register for the challenge if you haven't.



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

- Terraform Overview: https://youtu.be/I5k1ai_GBDE
- Terraform best practices : <https://youtu.be/gxPykhPxRWO>
- Terraform modules: <https://youtu.be/W92fsWzVRsg>
- AWS Terraform: https://youtu.be/ZP_vAbjfFMs
- Azure Terraform: <https://youtu.be/I-MbnfNcikk>



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