

TCW

THE CLOUDOPS
WIZARDS

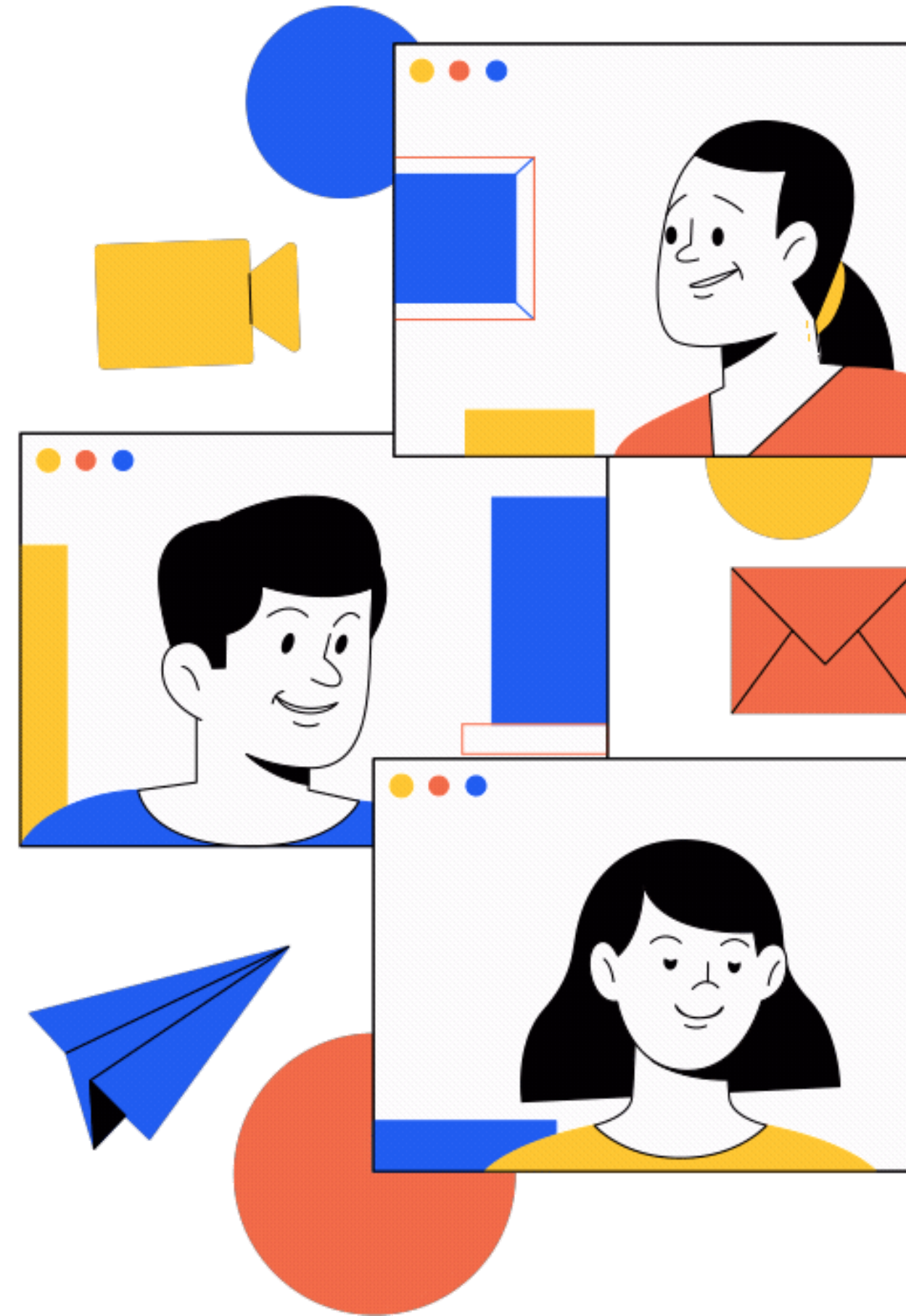
#10weeksofCloudOps

Week #2

Learn, share and grow together as a community!

Weekly live sessions on Discord.

 Anyone can join, no fees/cost



Today's Agenda:-



What we'll cover in this session

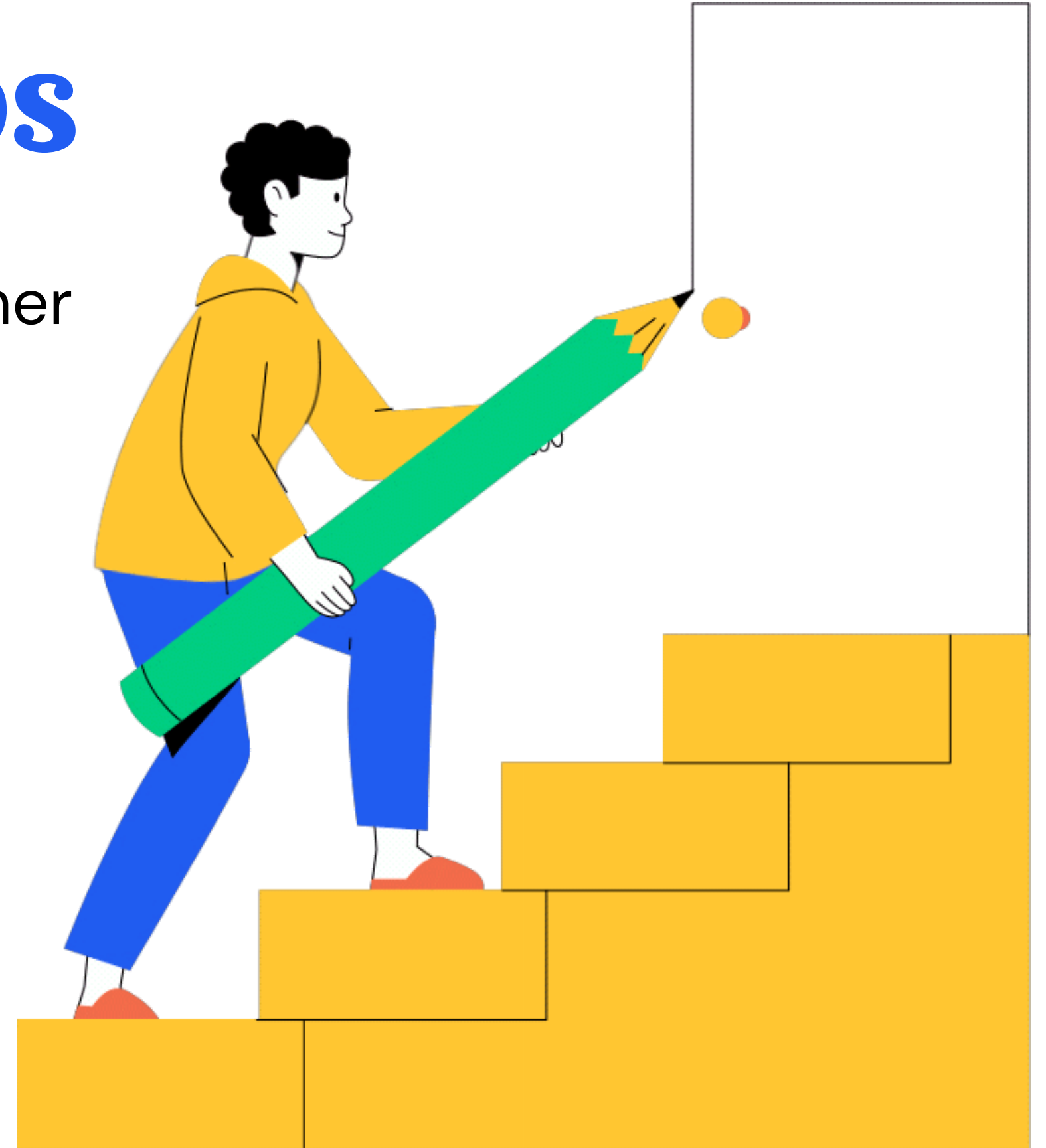
- Review and feedback for challenge #1
- Things that went well
- Things that we can improve ✓
- Winner of challenge #1
- Week 2 challenge and guidelines
- Q&A
- Introduction of new members

#10weeksofCloudOps

let's build DevOps and Cloud projects together for the next 10 weeks (1 project per week)

Benefits? Keep reading

- Self learning and development
- Hands-on experience in building realtime use cases.
- Ability to justify your hands-on experience in your resume.
- Showcase your skills through GitHub, blogs and social media



● **Our accomplishments and awesomeness!**



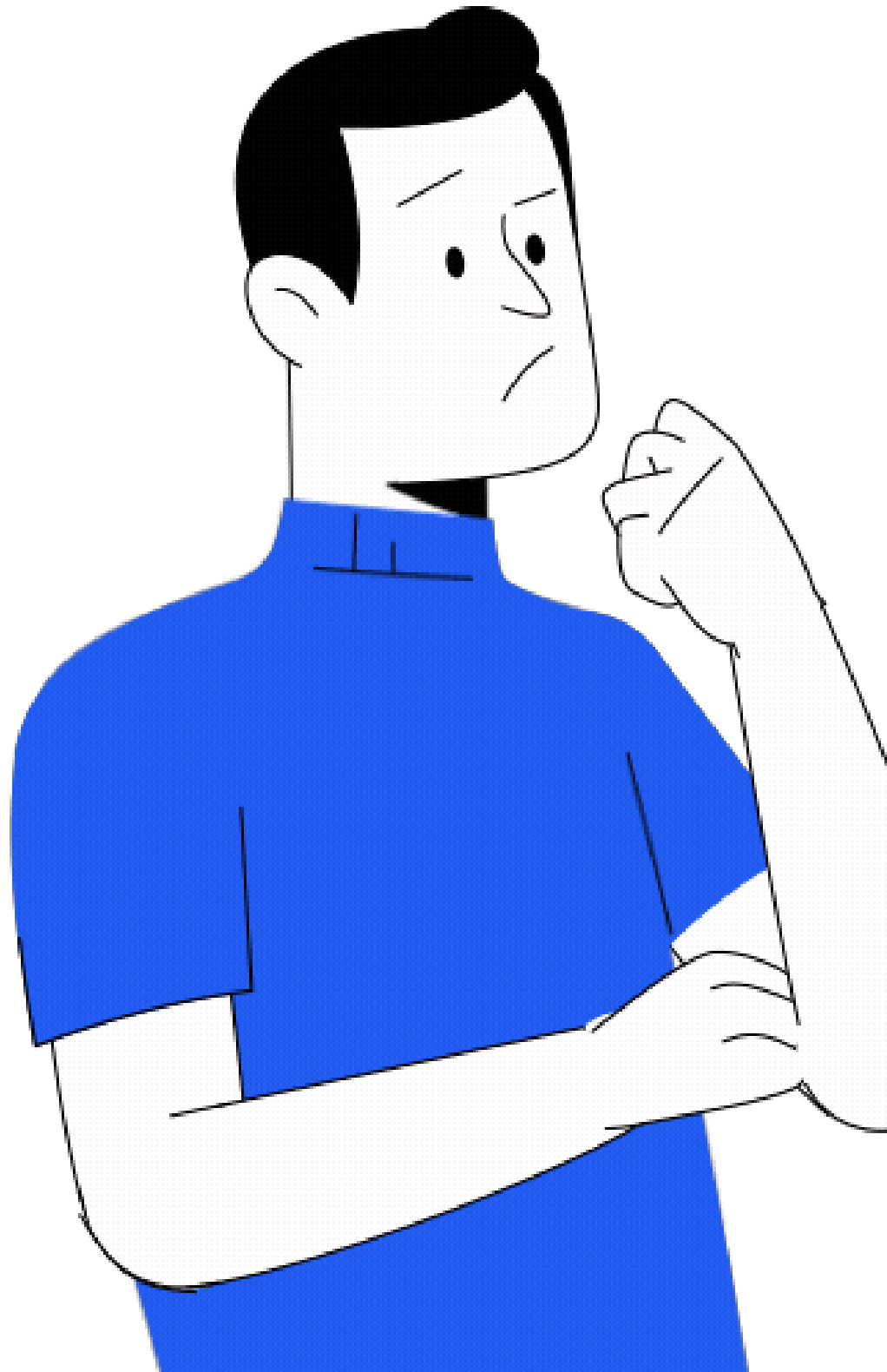
- **Blog explanations were top notch with only a few mistakes here and there**
- **Almost everyone was able to host the static website**
- **Most of us tried to create the architectural diagram**
- **A few people have gone above and beyond by using Terraform for Infra provisioning and someone used all 3 clouds which is impressive.**
- **A variety of tools and technologies were used, AWS, Azure, GCP, Terraform, Azure DevOps, GitHub Actions, and Circle CI.**
- **People were submitting till the last minute even if the work was incomplete, this shows the never giveup attitude.**

● Resume update



Deployed a static website using AWS S3 and utilized CloudFront, Route 53, ACM, and CodePipeline for edge caching, DNS management, SSL/TLS certificate, and CI/CD respectively.

- **Things that we need to work on!**



- **Use the Grammarly Chrome extension to make our blog error-free.**
- **Use draw.io to create the diagram and take care of the arrows**
- **Create the Github repo wherever code is involved and add details in the Readme file.**
- **Apply the principle of least privilege access, the bucket should not have public access.**
- **The introduction and conclusion followed by reference links can be added/updated.**
- **HTTPS should be used for any web application**



Winner of Challenge #1



Ankit Jodhani

<https://ankitjodhani.hashnode.dev/host-your-static-website-on-amazon-s3-services-cicd-pipeline-with-the-domain-name-and-ssl-certificate-10weeksofcloudops>

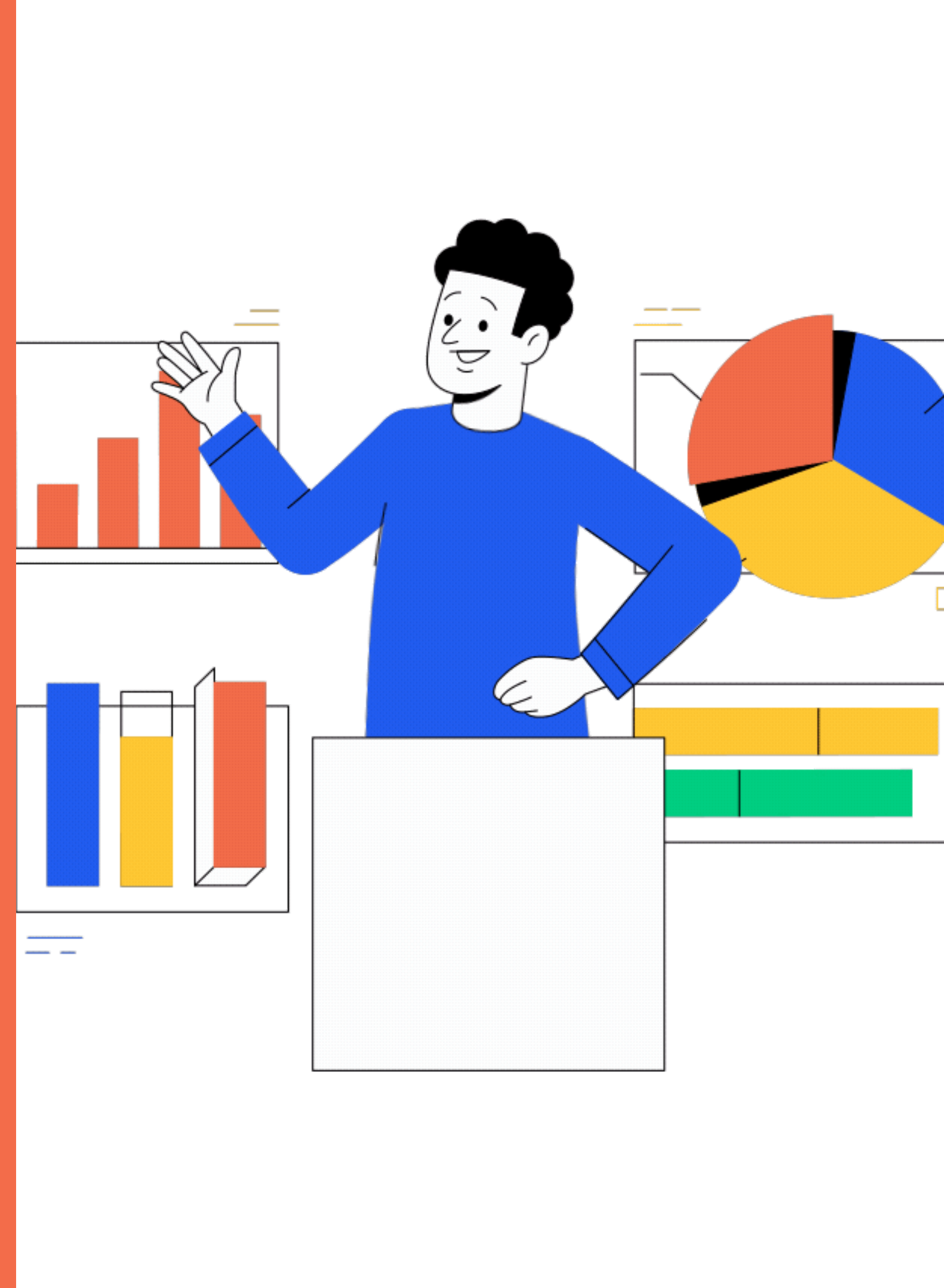
#Week2 Challenge

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



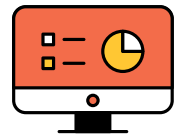
Steps to Participate



Cool gifts for winners



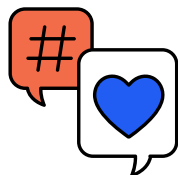
Register for the challenge if you haven't.



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

- <https://youtu.be/yUhzvVrwkV8>
<https://dev.to/aws-builders/aws-networking-aws-vpc-subnets-security-groups-nat-gateway-ip-addresses-4p8c>
<https://medium.com/nerd-for-tech/design-and-create-an-aws-three-tier-architecture-9f85c9402ae6>
<https://medium.com/@ericr.Clark/building-and-designing-a-three-tier-architecture-in-aws-2cf725f07174>
<https://medium.com/@ojomohalex/deploying-a-highly-available-3-tier-architecture-in-the-aws-console-c028a3767866>
- <https://youtu.be/fzaWF9OzkRs>
<https://learn.microsoft.com/en-us/azure/architecture/guide/architecture-styles/n-tier>
<https://learn.microsoft.com/en-us/azure/architecture/example-scenario/infrastructure/multi-tier-app-disaster-recovery>
- <https://medium.com/google-cloud/master-gcp-networking-and-vpc-the-ultimate-guide-for-cloud-engineers-db16338c9db0>
<https://youtu.be/XLaFU1t9pM8>
<https://medium.com/google-cloud/3-tier-application-deployment-in-google-cloud-d474339bccad>



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