

CLOUD COMPUTING

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📌 AGENDA

1. Before cloud.
2. What is cloud ?
3. Cloud Providers, models and Types.
4. Lets's Practice.
5. What is Terraform ?
6. Conclusion.

BEFORE CLOUD



IMPLEMENT AN IDEA

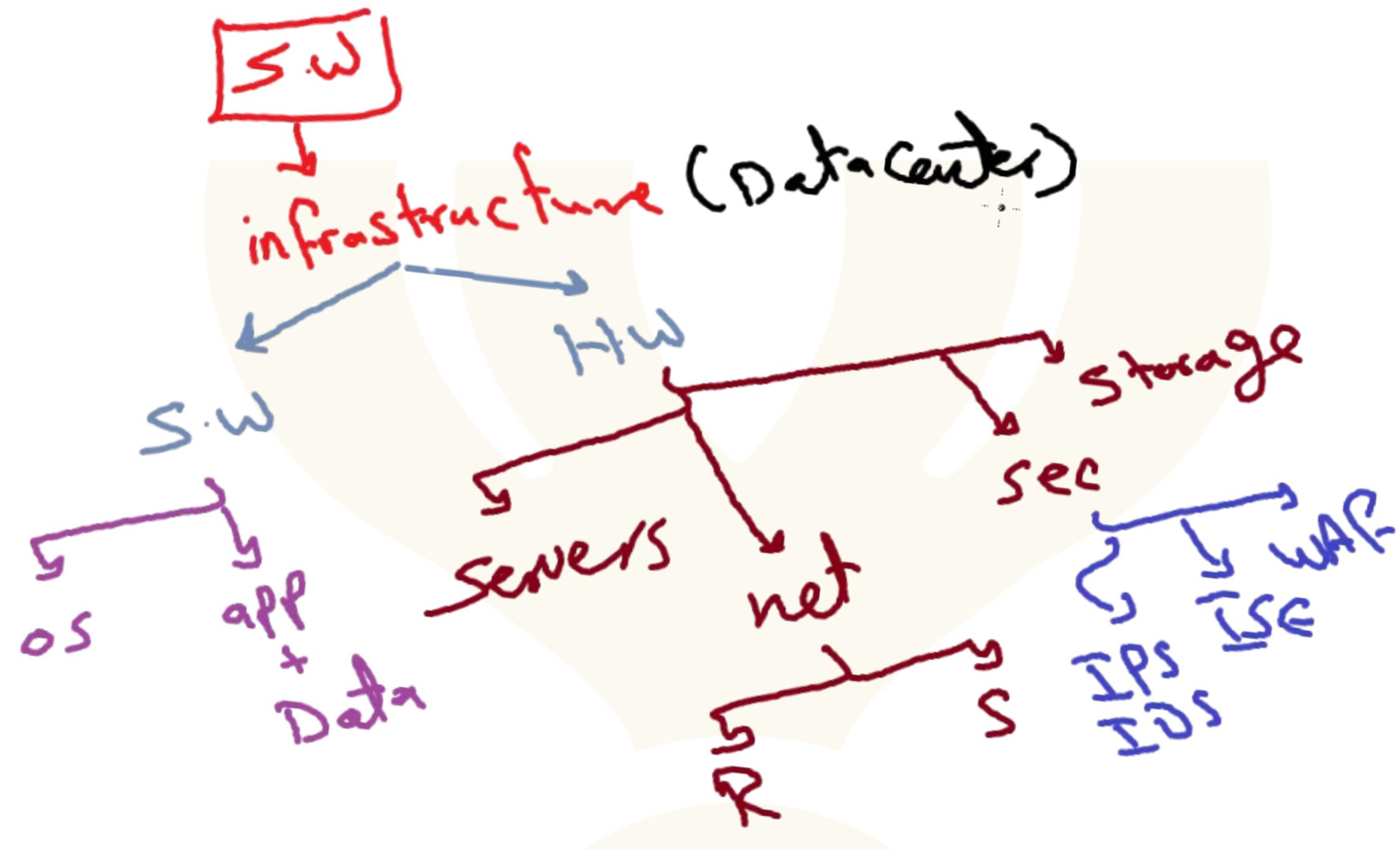


? FOUR QUESTIONS

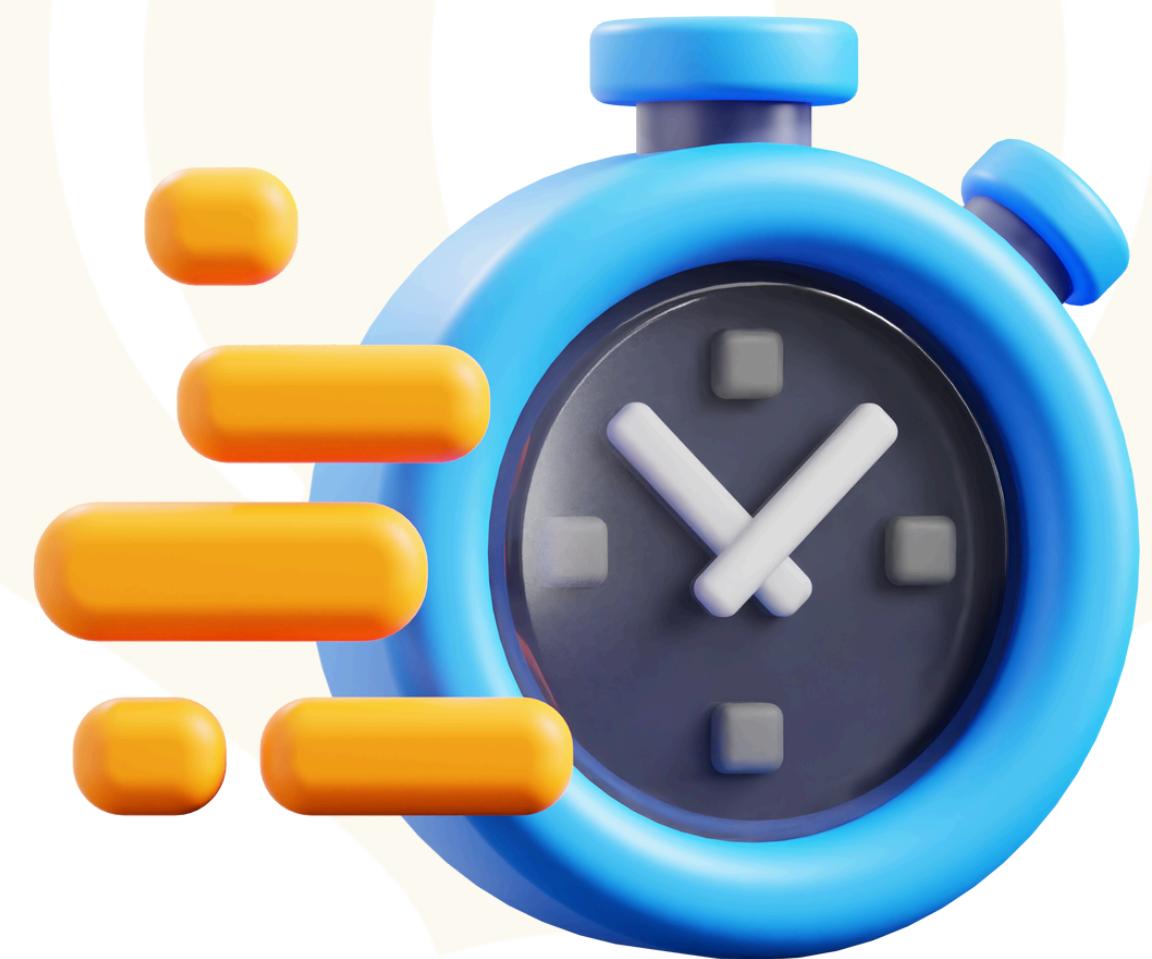
- How can I implement it?
- What is the time required for implementation?
- What is the cost of implementation?
- If the idea fails, what would be the potential losses?



HOW CAN I IMPLEMENT IT?



WHAT IS THE TIME REQUIRED FOR IMPLEMENTATION?



WHAT IS THE COST OF IMPLEMENTATION?



IF THE IDEA FAILS



SO, WHAT IS THE SOLUTION ?





WHAT IS CLOUD ?

Cloud computing is like renting computers and storage over the internet instead of owning them.



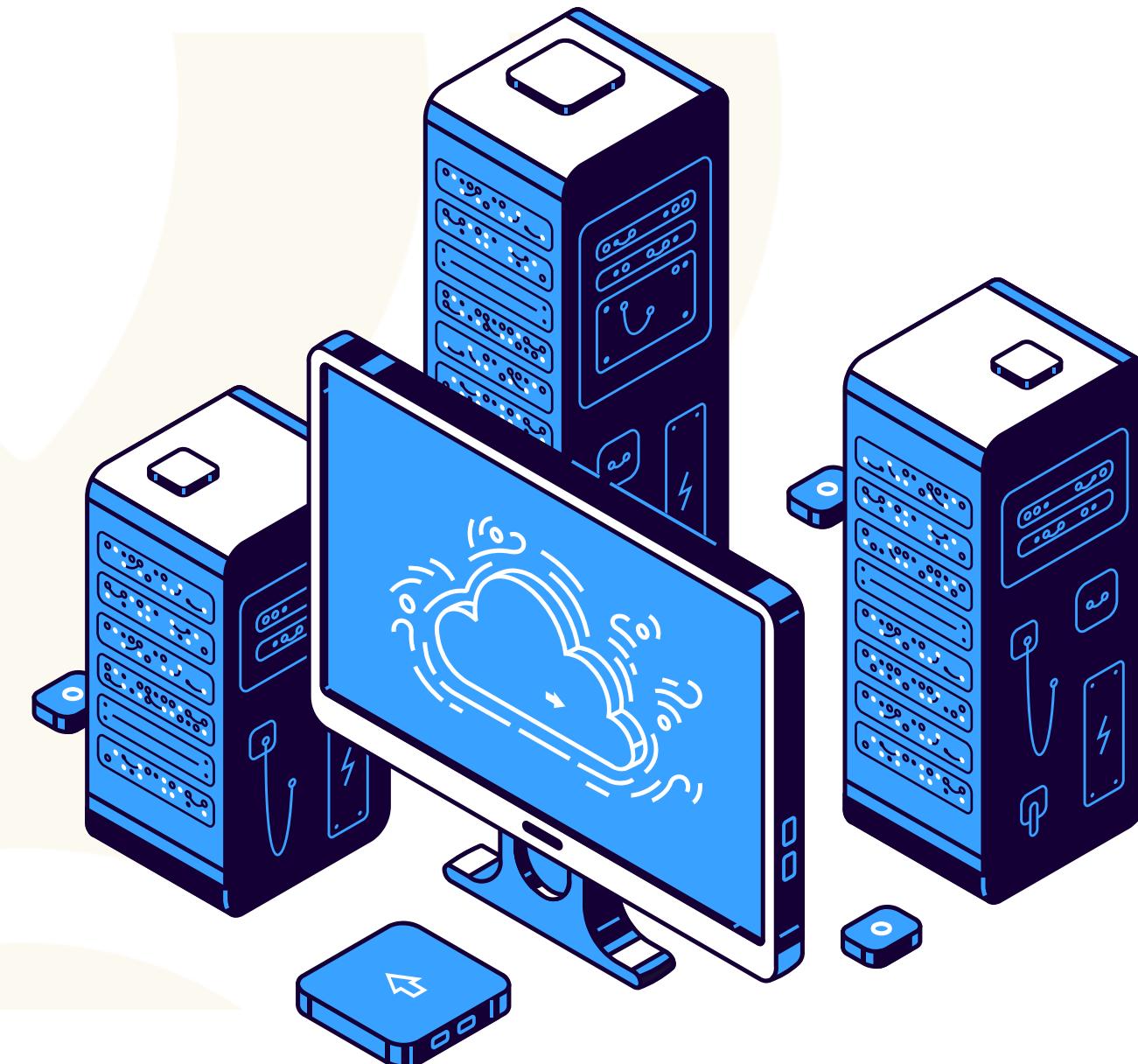
CLOUD PROVIDERS



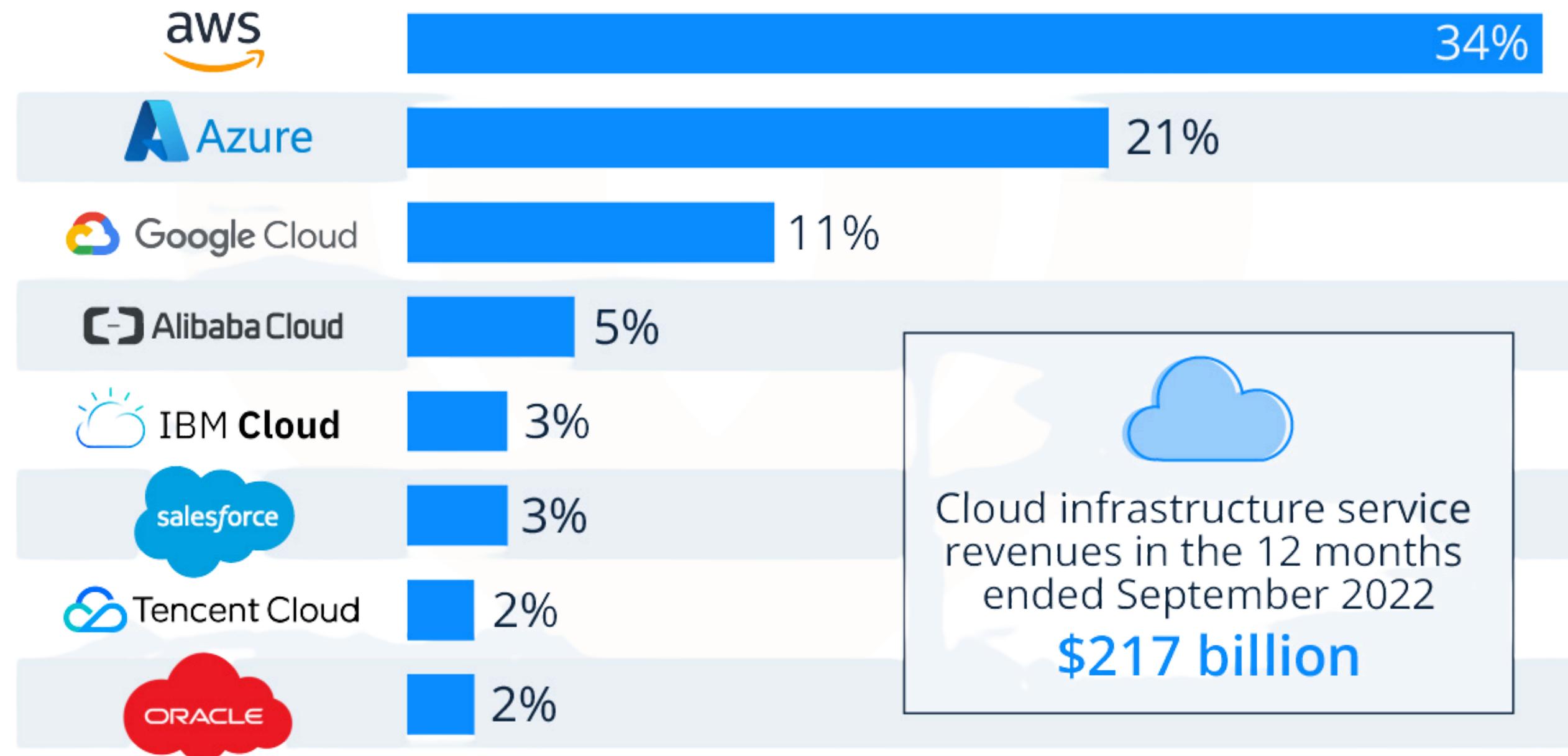


REAL DATACENTERS

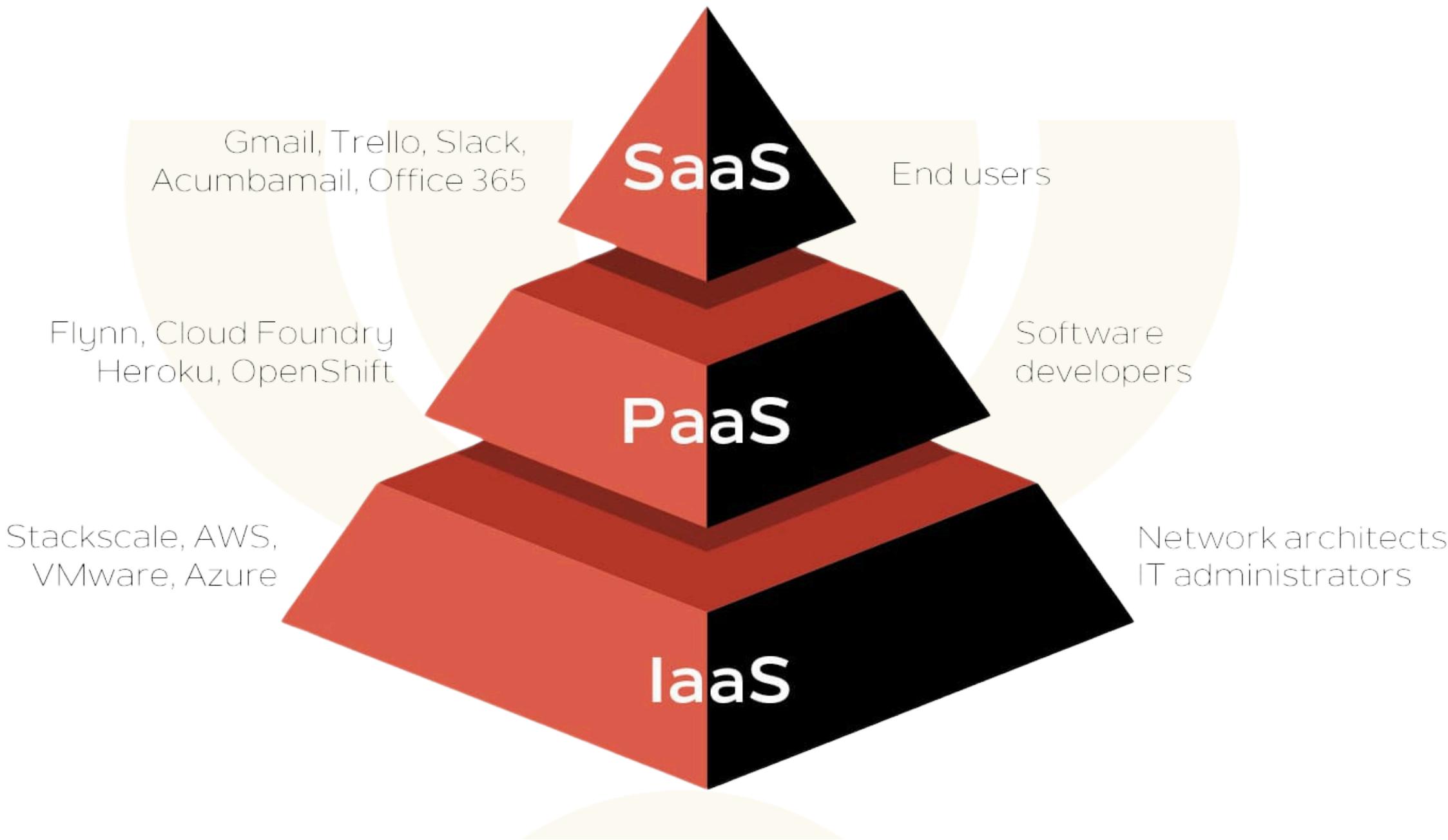
- Google data center
- Microsoft data center
- AWS data center



TOP CLOUD PROVIDERS



CLOUD MODELS



MODELS

On-Premises

Applications

Data

Runtime

Middleware

O/S

Virtualization

Servers

Storage

Networking

Infrastructure
as a Service

Applications

Data

Runtime

Middleware

O/S

Virtualization

Servers

Storage

Networking

Platform
as a Service

Applications

Data

Runtime

Middleware

O/S

Virtualization

Servers

Storage

Networking

Software
as a Service

Applications

Data

Runtime

Middleware

O/S

Virtualization

Servers

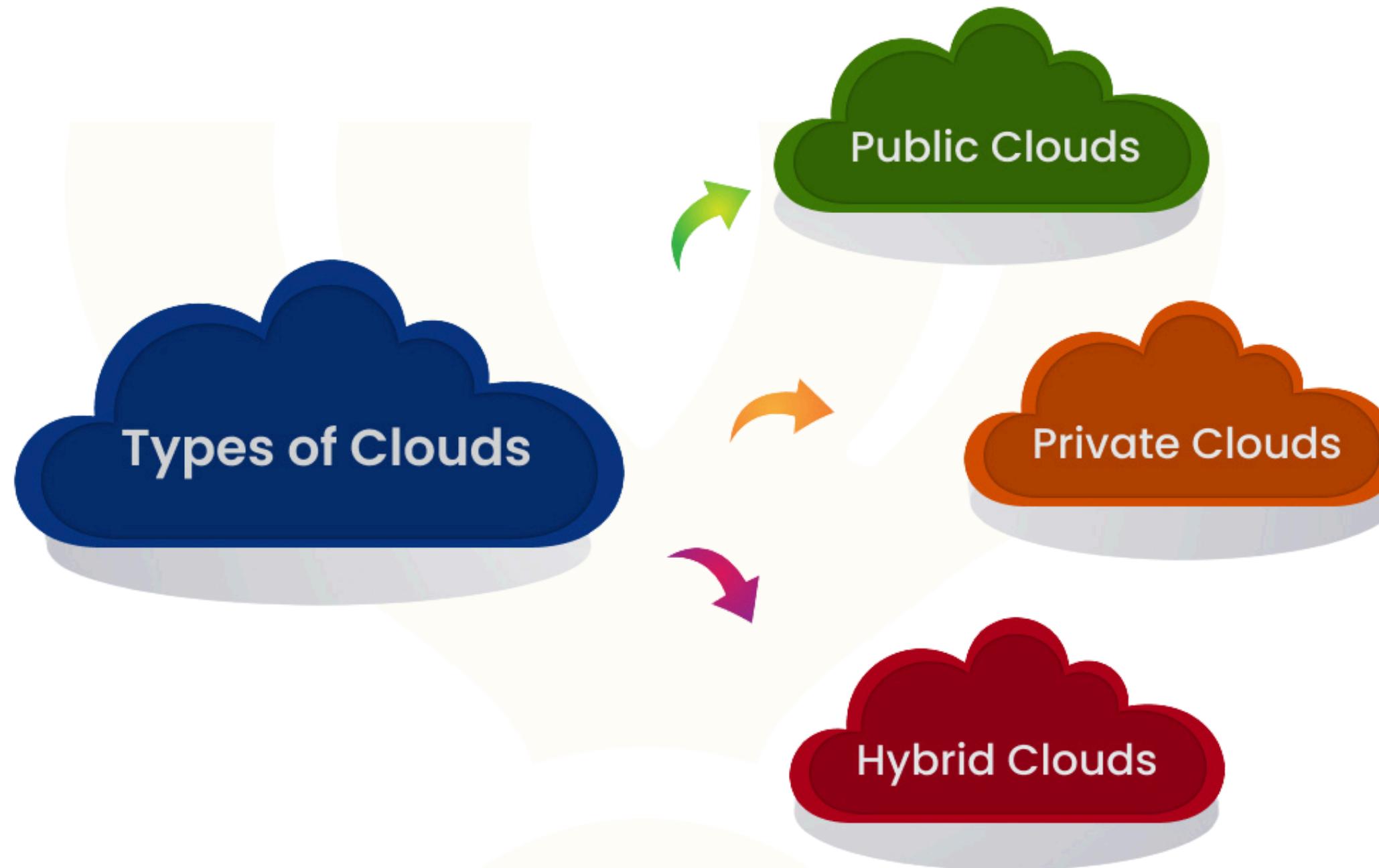
Storage

Networking

You Manage

Other Manages

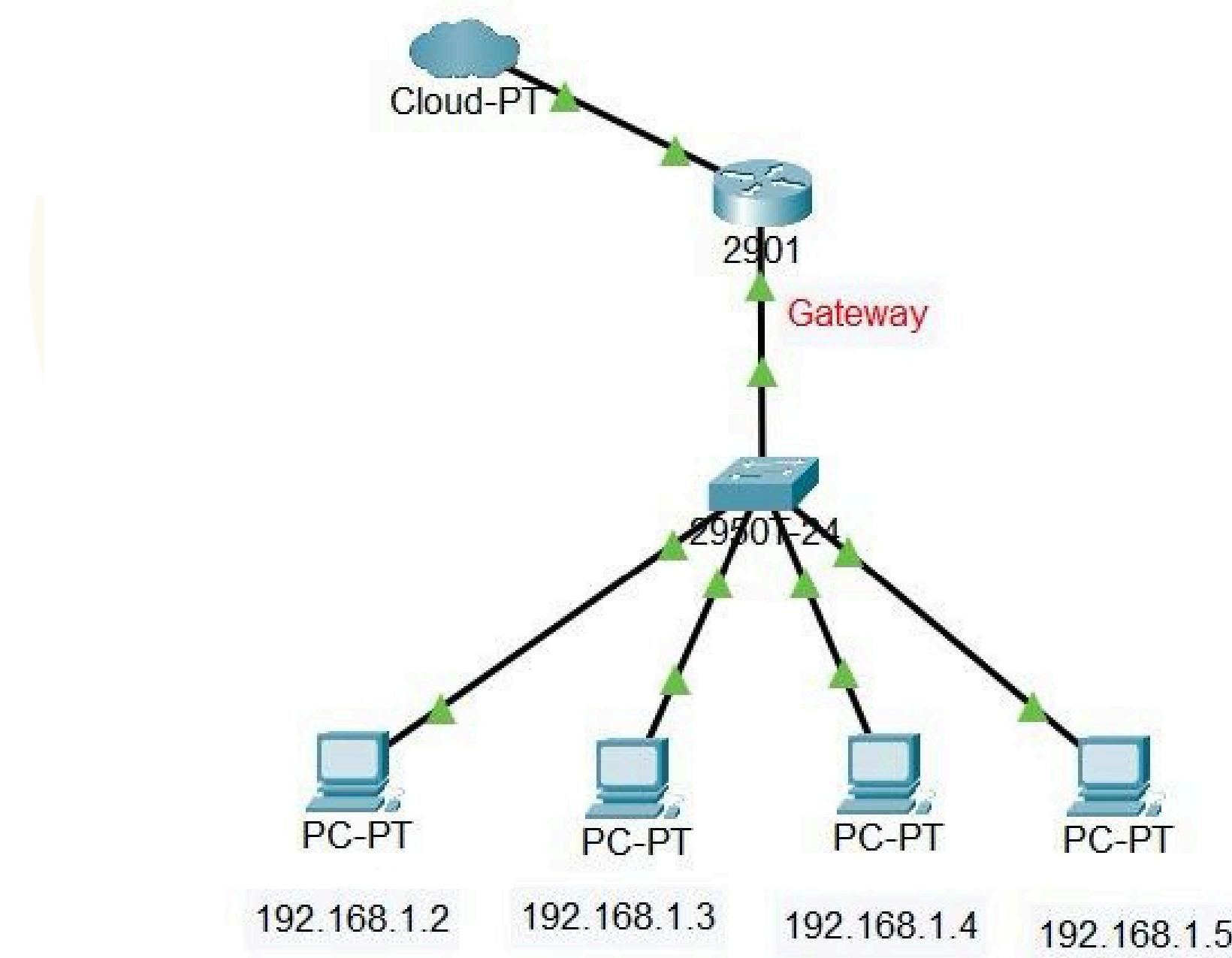
CLOUD TYPES





You deserve a break!

EXPLAIN A SIMPLE NETWORK



How to create free tier account

Video

Let's Practice!



Docs

Task time



Create two EC2 instances
on AWS

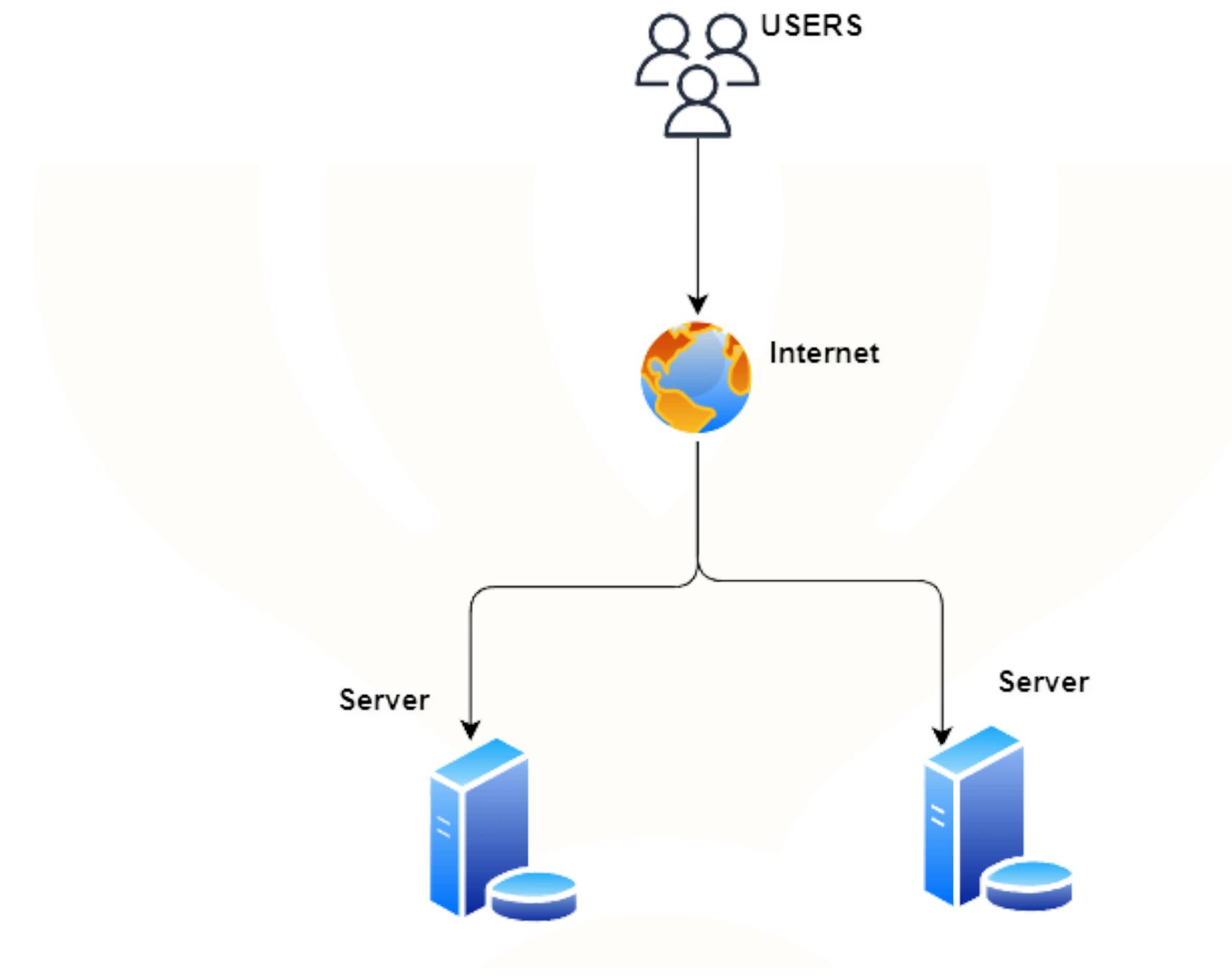


Let's Practice Again!

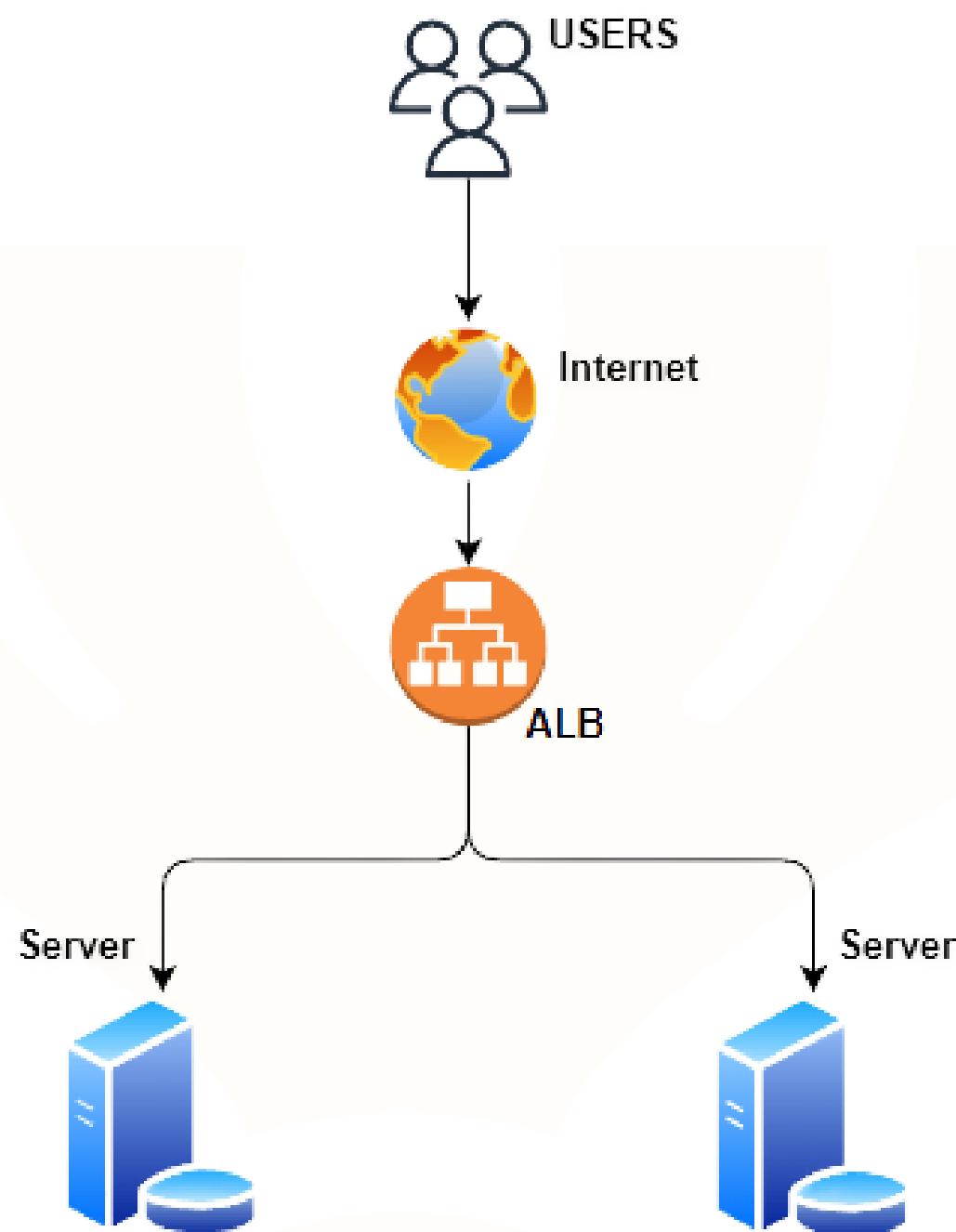


Docs

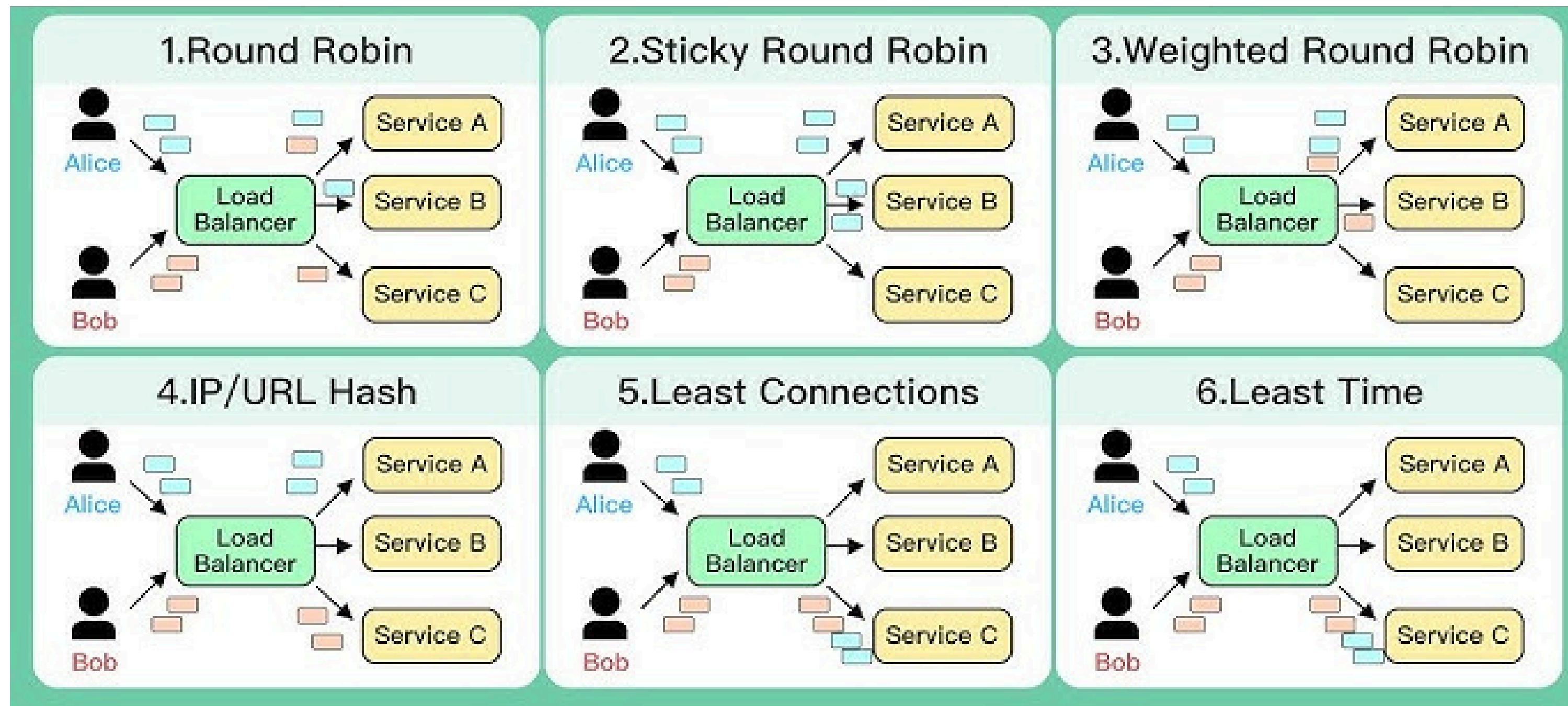
WITHOUT LOAD BALANCER



WITH LOAD BALANCER



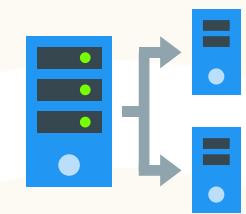
LOAD BALANCING TYPES



Task time



Create an ALB on AWS

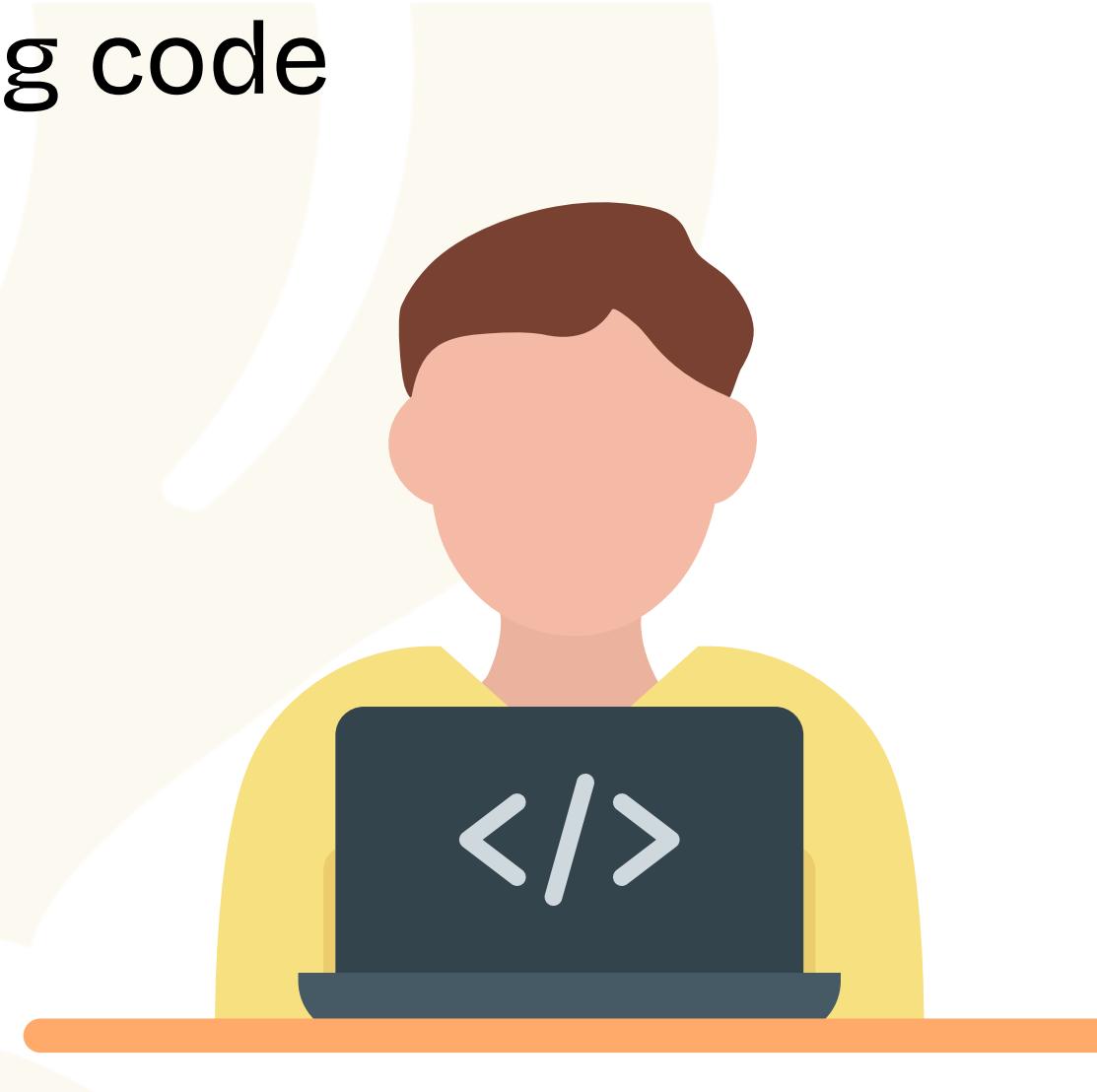


Let's Practice Somthing!



THIS IS IAC

Infrastructure as Code (IaC) is managing and setting up IT infrastructure using code instead of manual configuration.





WHAT IS TERRAFORM ?

Terraform is a tool for automating cloud infrastructure setup using code.



HashiCorp

Terraform



CONCLUSION & WHAT'S NEXT

Today, we learned:

- What is cloud ?
- Cloud provider, models and types.
- What is Terraform ?
- Practicing
- So, What's Next ?





REFERENCES

- <https://relevant.software/blog/public-cloud-services-benefits-limitations-and-pricing/>
- <https://docs.aws.amazon.com/>





THANK YOU

FOR LISTENING

ANY QUESTIONS ?