

ASG



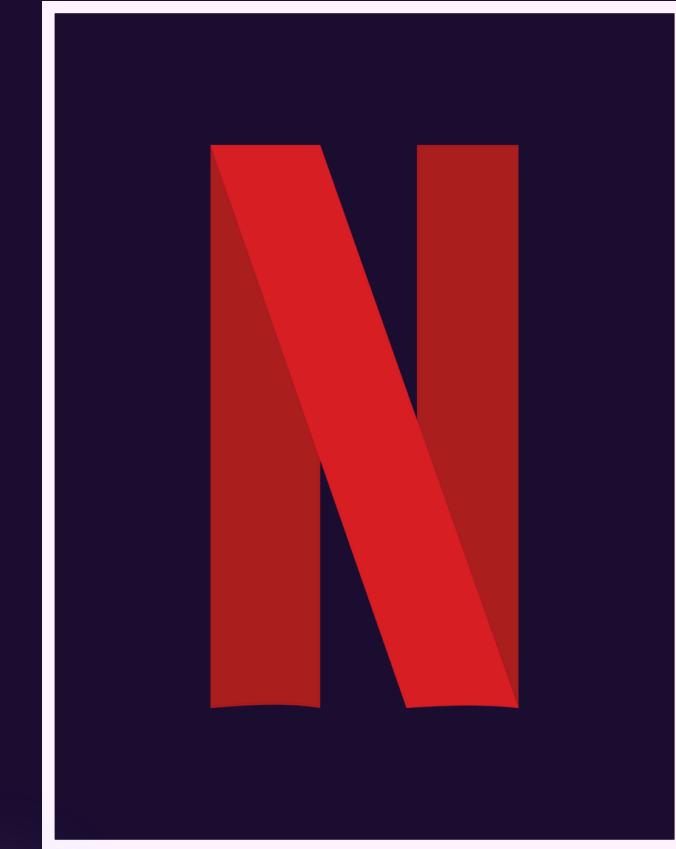
STUDIO SHODWE



What is **AUTOSCALING GROUP**

- IT IS A PROCESS OF ADDING/REMOVING SERVERS
- WHEN LOAD IS INCREASED IT WILL ADD SERVERS
- WHEN LOAD IS DECREASED IT REMOVE SERVERS
- IT MAKE SURE ALWAYS MINIMUM NUMBER OF SERVERS ARE RUNNING TO SERVER APPLICATION

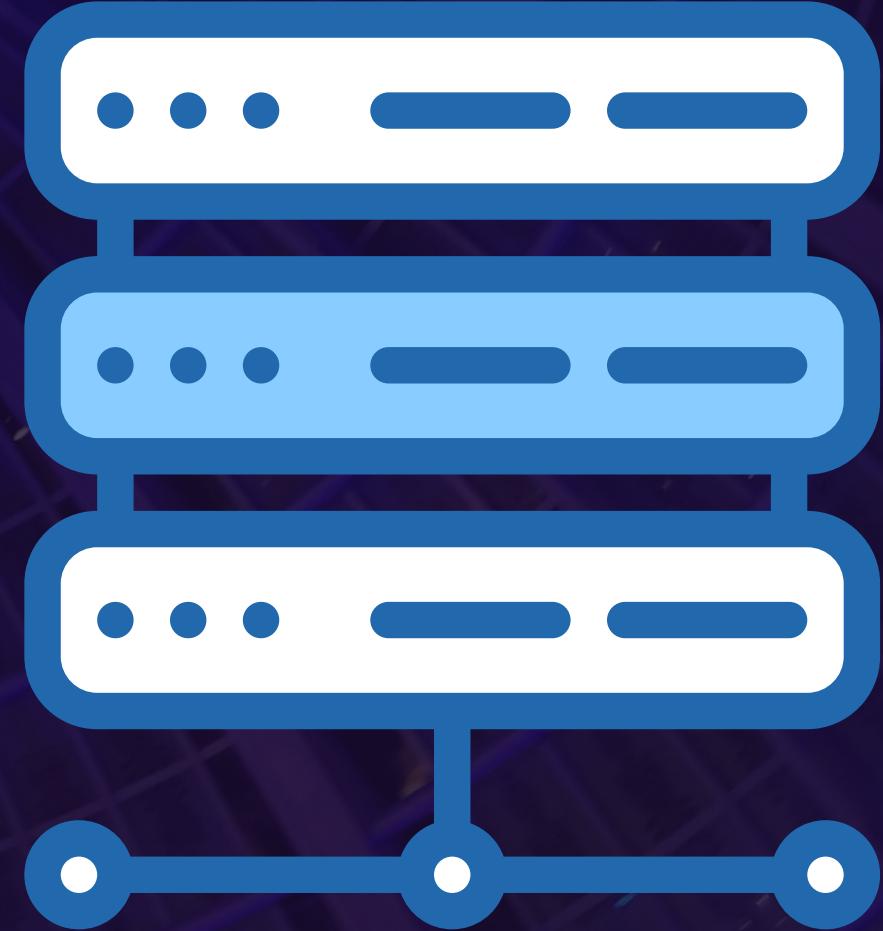
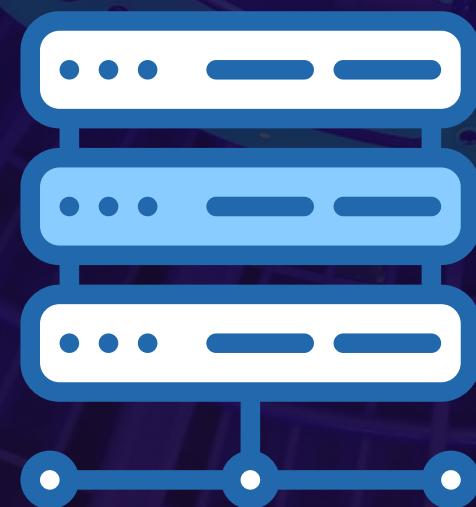
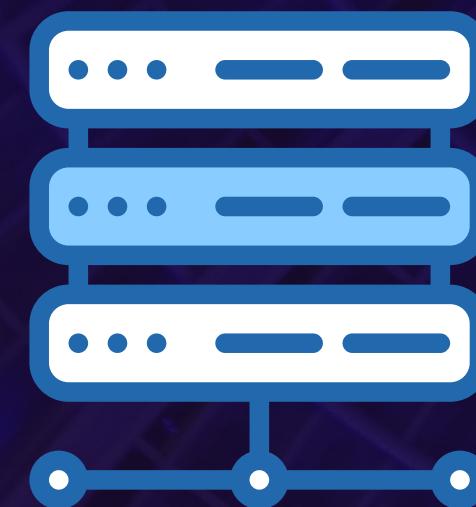
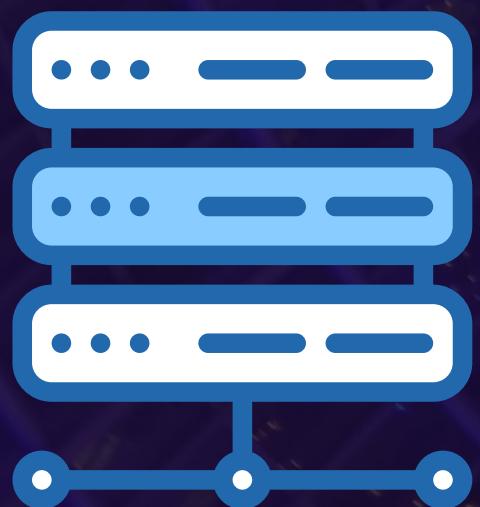
WHEN WE USE
ASG IN REAL WORLD



TYPES OF SCALING



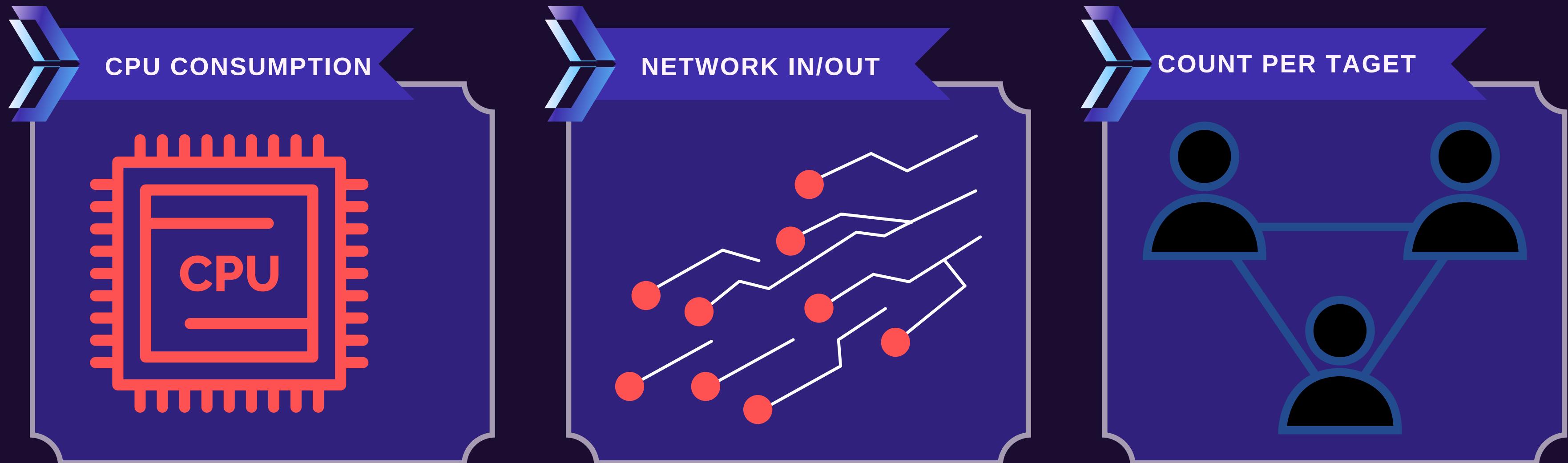
HORIZONTAL



VERTICAL



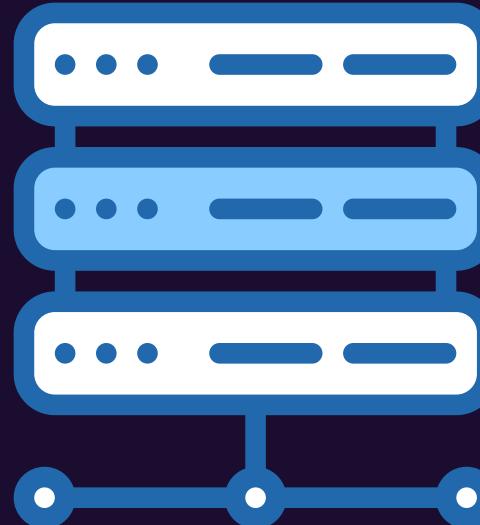
SCALING BASED ON ?



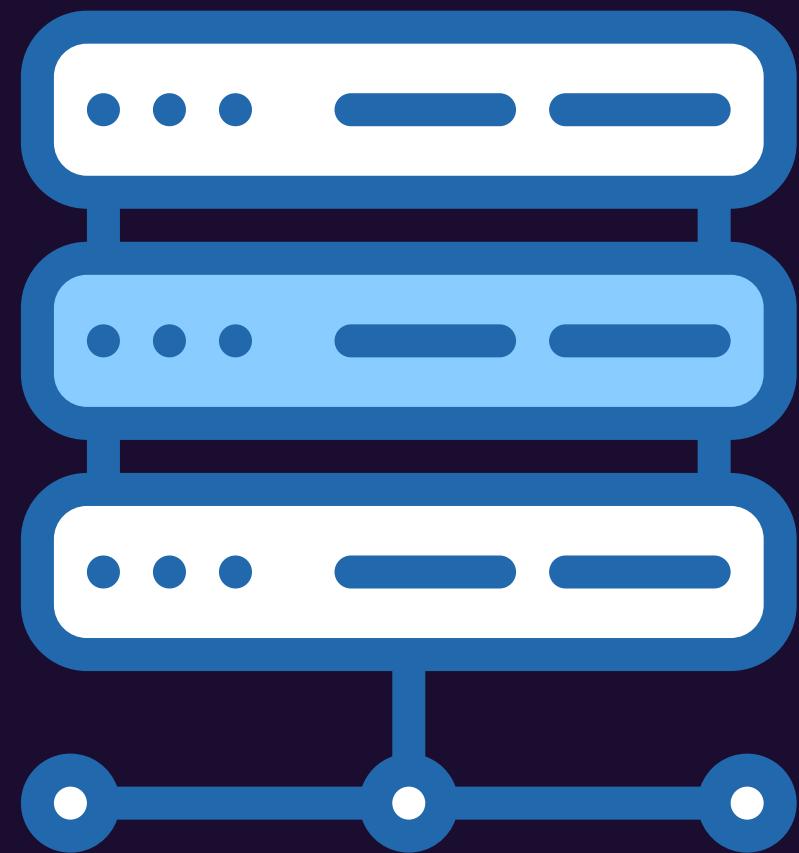
VERTICAL SCALING

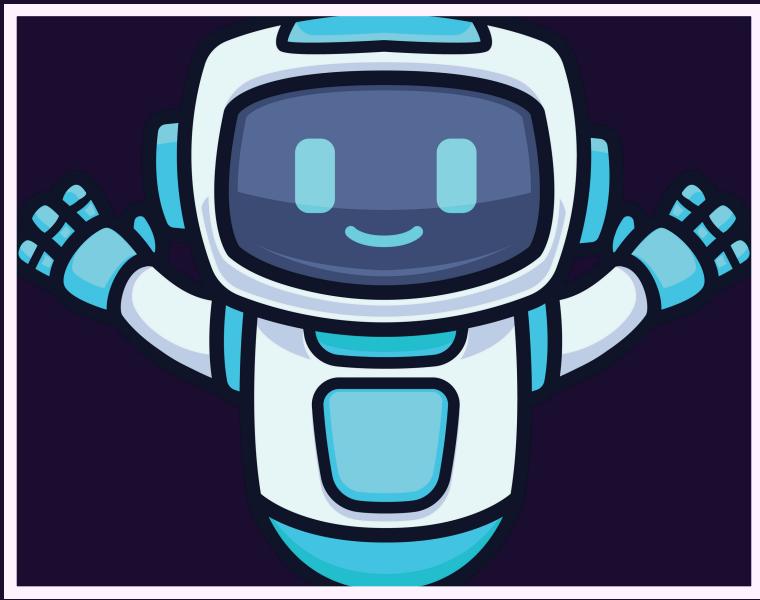
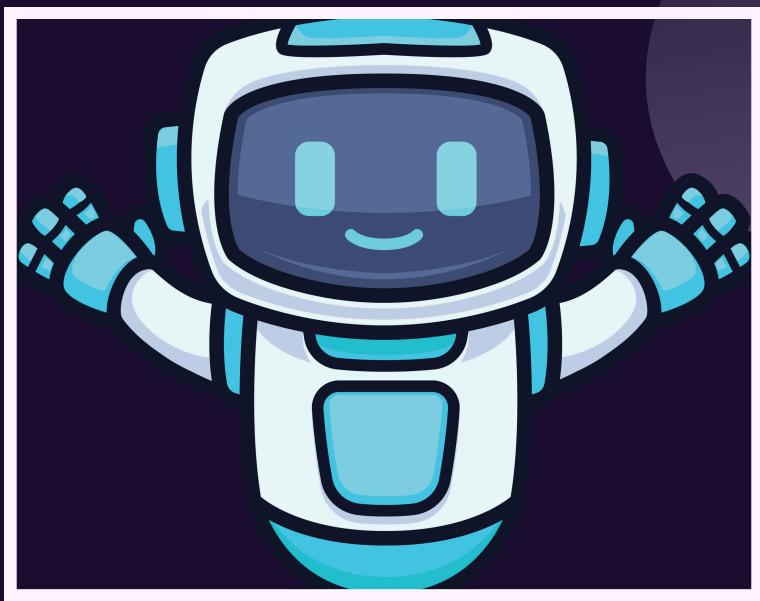
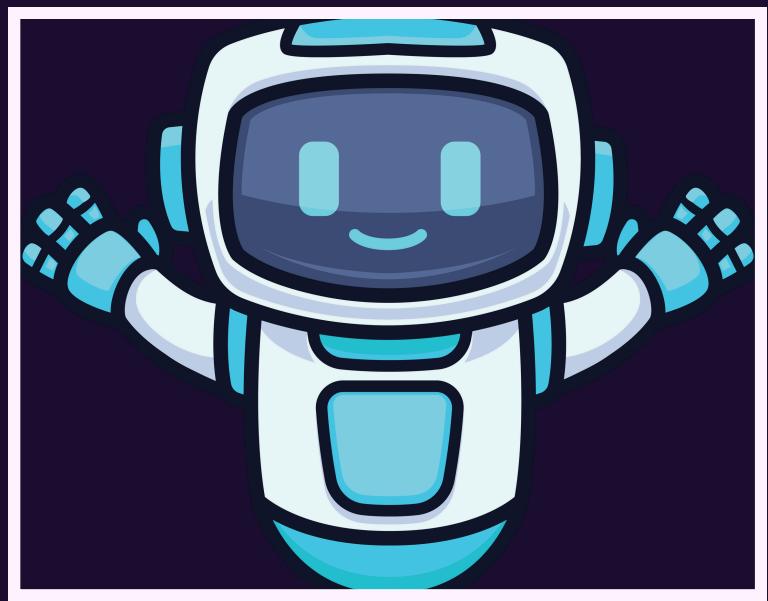
1. STOP SERVER
2. ACTIONS -- > INSTANCE SETTINGS -- > CHANGE INSTANCE TYPE -- > T2.MEDIUM
3. START SERVER

BEFORE
1 CPU 1 RAM



AFTER
4 CPUS 4 RAM

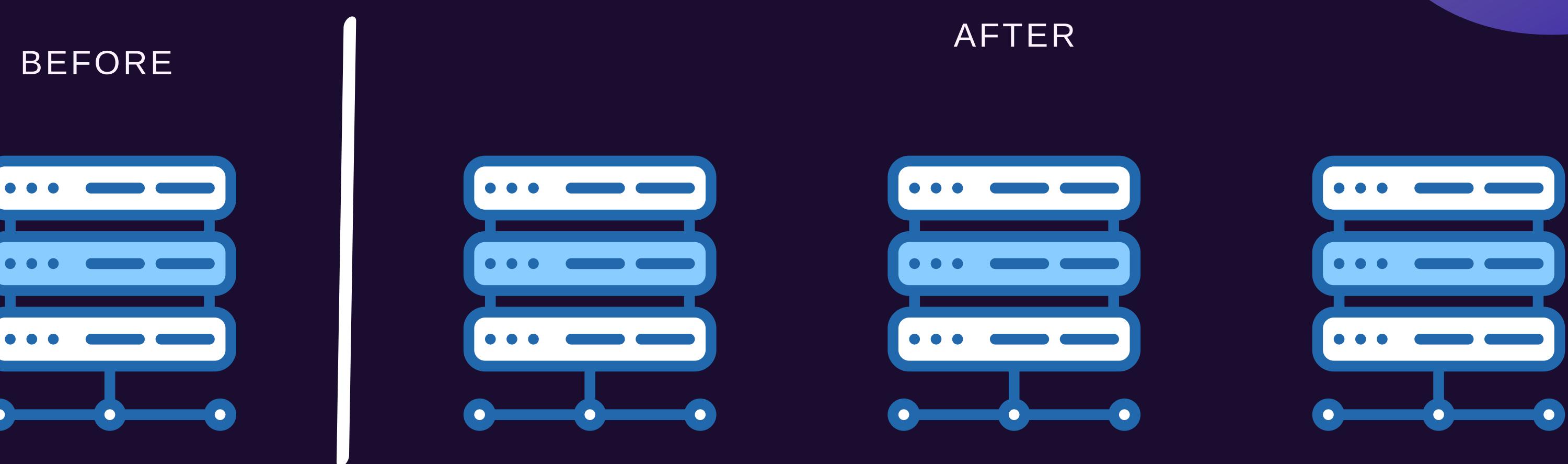




TEMPLATE

HORIZONTAL SCALING

- AUTO SCALING GROUP -- > CREATE
- NAME: SWIGGY
- CREATE A LAUNCH TEMPLATE
- NAME: SWIGGY-TEMPLATE
- NOTE: GIVE THE CONFIGURATION JUST LIKE WE GIVE FOR EC2.
- USE SCRIPT ON USERDATA



SCRIPT

```
#!/bin/bash
sudo -i
apt update
apt install nginx -y
cd /var/www/html/
git clone https://github.com/Ironhack-Archive/online-clone-amazon.git
mv online-clone-amazon/* .
```

- CREATE TEMPLATE

SCRIPT

- AZ AND SUBNETS: US-EAST-1A, US-EAST-1B, US-EAST-1C
- LOAD BALANCING: ATTACH TO A NEW LOAD BALANCER
- SELECT CREATE A NEW TARGET GROUP
- NEXT
- DESIRED : 2 -- > HOW MANY SERVERS YOU WANT NOW
- MIN: 2 -- > ALWAYS ATLEAST I WANT 2 SERVERS
- MAX: 10 -- > IF LOAD IS INCREASE I WANT 10 SERVERS
- AUTOMATIC SCALING POLICY:
- TARGET TRACKING SCALING POLICY:
- CPU -- > VALUE: 50 -- > NEXT
- NOTIFICATION -- > CREATE A TOPIC -- > NAME: SWIGGY SERVERS -- > EMAIL: give your email -- > NEXT -- > NEXT -- > CREATE AUTO SCALING GROUP

HOW TO INCREASE LOAD:

- **LOGIN TO SERVER:**
- **apt update -y**
- **apt install stress -y**
- **stress -c4**

REAL-WORLD APPLICATIONS

- 1. High Availability
- 2. Self-Healing
- 3. Cost Optimization
- 4. Time-based workloads



REAL-WORLD APPLICATIONS

- 1. High Availability
- 2. Self-Healing
- 3. Cost Optimization
- 4. Time-based workloads



STUDIO SHODWE

THANK YOU!

We hope this journey into the Metaverse
sparked your curiosity and imagination.

PLAN: RRR

