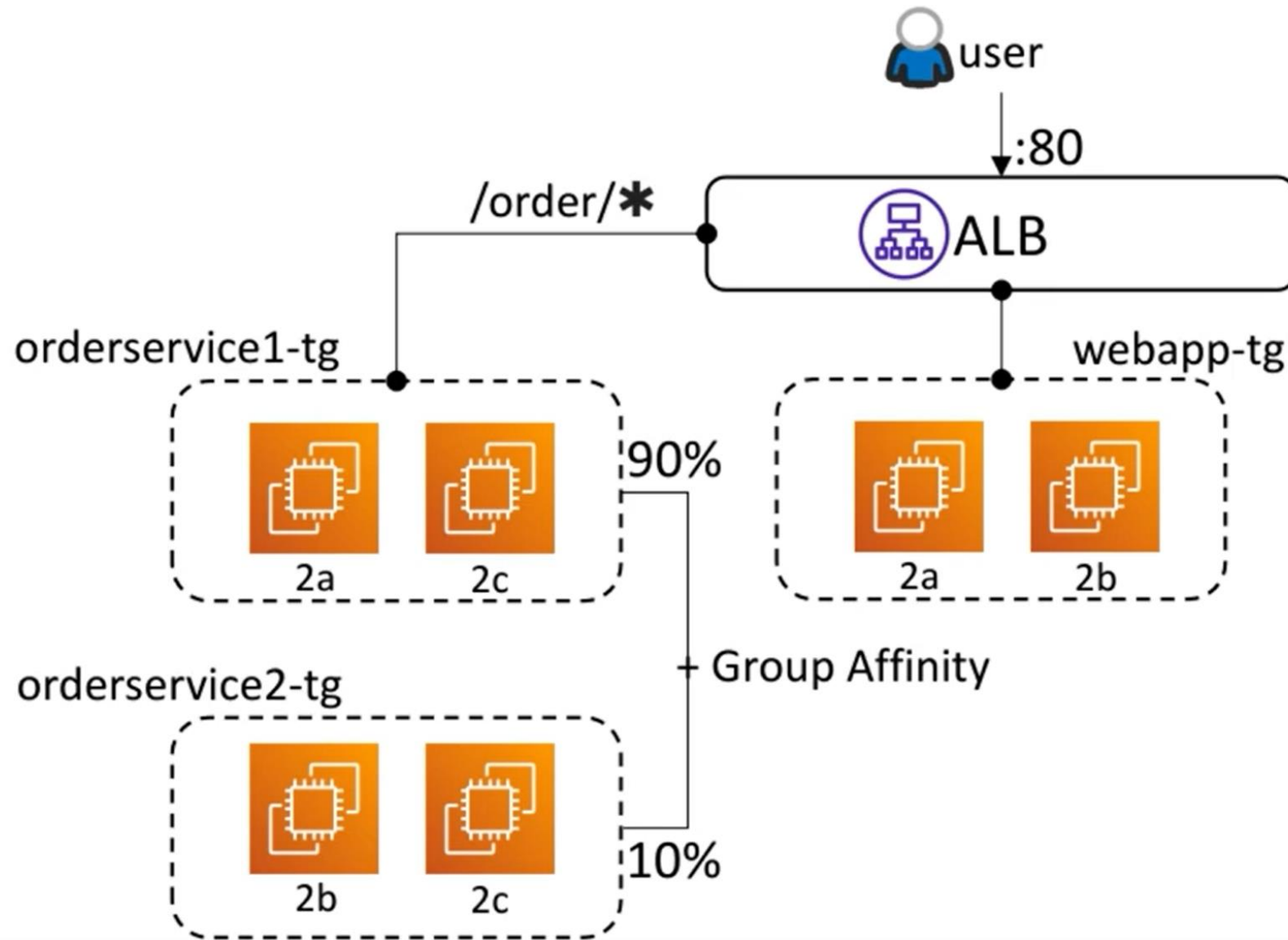


# TOI2 – EC2, TG & ALB

Build EC2 instances, target groups and  
Application Load Balancer (ALB) using  
terraform

# Let's build this ...



## Service inventory

- ✓ One SG
- ✓ Six EC2 instances
- ✓ Three TGs
- ✓ One ALB

## Following Parameters were used to create the EC2 Instance

---

- Name: **liftshift-app-1** and **liftshift-app-2**
- AMI: **Ubuntu 20.04 LTS**
- VPC: **Default**
- Subnet: **us-west-1a**
- Security group: **open-HTTP**
- User data: The following script was used –

```
#!/bin/bash
APP_NAME=LiftShift-Application
apt update -y && apt -y install python3-pip zip
cd /opt
wget https://d6opu47qoi4ee.cloudfront.net/loadbalancer/simuapp-v1.zip
unzip simuapp-v1.zip
rm -f simuapp-v1.zip
sed -i "s=MOD_APPLICATION_NAME=$APP_NAME=g" templates/index.html
pip3 install -r requirements.txt
nohup python3 simu_app.py >> application.log 2>&1 &
```

Default values were used for the rest of the parameters.



## Following Parameters were used to create the EC2 Instance

- Name: **order-service-v1-1** and **order-service-v1-2**, respectively for the two instances
- AMI: **Ubuntu 20.04 LTS**
- VPC: **Default**
- Subnet: **us-west-1c** and **d**, respectively for the two instances
- Security group: **open-HTTP**
- User data: The following script was used –

```
#!/bin/bash
APP_NAME=order-service
apt update -y && apt -y install python3-pip zip
cd /opt
wget https://d6opu47qoi4ee.cloudfront.net/loadbalancer/simuapp-v1.zip
unzip simuapp-v1.zip
rm -f simuapp-v1.zip
sed -i "s=MOD_APPLICATION_NAME=$APP_NAME=g" templates/index.html
pip3 install -r requirements.txt
nohup python3 simu_app.py >> application.log 2>&1 &
```

Default values were used for the rest of the parameters.

## Following Parameters used to Create the EC2 Instance

---

- Name: **order-service-v2-1** and **order-service-v2-2**, respectively for the two instances
- AMI: **Ubuntu 20.04 LTS**
- VPC: **Default**
- Subnet: **us-west-1b** and **c**, respectively for the two instances
- Security group: **open-HTTP**
- User data: The following script was used –

```
#!/bin/bash
APP_NAME=order-service-v2
apt update -y && apt -y install python3-pip zip
cd /opt
wget https://d6opu47qoi4ee.cloudfront.net/loadbalancer/simuapp-v1.zip
unzip simuapp-v1.zip
rm -f simuapp-v1.zip
sed -i "s=MOD_APPLICATION_NAME=$APP_NAME=g" templates/index.html
pip3 install -r requirements.txt
nohup python3 simu_app.py >> application.log 2>&1 &
```

Default values were used for the rest of the parameters.

