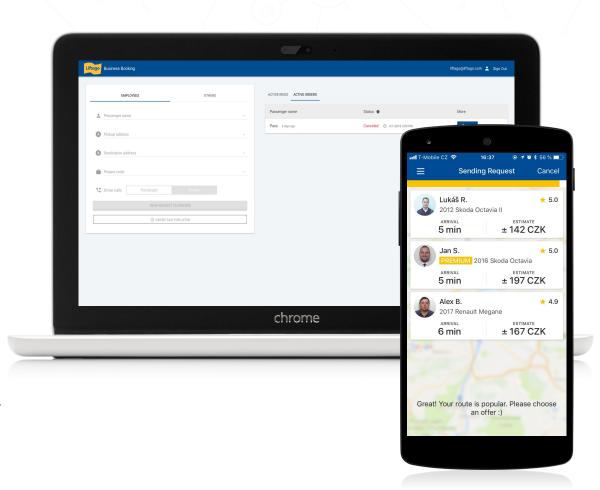


Operations at Liftago



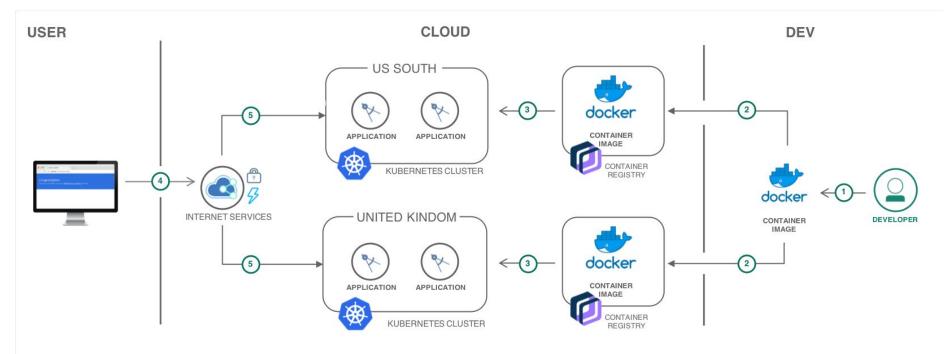
Our Engineering

- iOS/Android/Web/APIs
- Web for booking rides
- Web for managing business
- Internal Admin
- Fleet management
- Accounting
- Taxi management
- AWS
- K8s (docker/java/js)
- Multi-AZ/HA/self healing cluster
- CI/CD to dev/test
- Daily deployments to PROD



Kubernetes





Devs

Ops

4

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KOPS



What is Kops?

- Fully automated installation
- Uses DNS to identify clusters
- Self-healing: everything runs in Auto-Scaling Groups
- Limited OS support (Debian preferred, Ubuntu 16.04 supported, early support for CentOS & RHEL)
- High-Availability support (Drain and Validate Rolling Update)
- Can directly provision, or generate terraform manifests

Pre-requirements

- Install kops + awscli
- Create a route53 domain for your cluster
- Create an S3 bucket to store your clusters state

Create cluster

```
kops --v 3 create cluster \
--cloud aws \
--name $CLUSTER_NAME \
--zones eu-central-1a,eu-central-1b,eu-central-1c \
--node-size t2.medium \
--node-count 5 \
--master-zones eu-central-1a \
--master-size m3.medium \
--network-cidr 172.10.0.0/16 \
--topology private \
--networking kopeio-vxlan \
--bastion \
--ssh-public-key ssh/devtest.pub
```

Create cluster

kops update cluster \$CLUSTER_NAME --yes

Two years with Kops

- Several upgrades on devtest cluster on runtime without downtime
- Patch upgrade on production
- AWS credits (CPU utilization) run out on PROD
- Network splits or zones issues
- Easy management when your cluster grows
- No further configurations
- Keeps aws clean

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