

# How software get to customers

## DevOps flow

Software that scale, mostly used after initial MVP get funded

Tools needed for local development:

1. Formarter
2. Linter
3. Integration test library
4. Unit test library
5. build tools
6. Docker for local resources
7. Server framework

Topics for architectures:

1. Availability vs Consistency
2. Microservices Increased latency + reduced consistency
3. NoSQL + SQL
4. Load Balancers
5. Docker + k8s for deployment
6. zookeeper
7. service discovery
8. Stream services (Kafka)

Dev

Terraform



Device Provisioning Services

Create all resources needed (provisioning on AWS account)

Source Code



GitHub



AWS cloud

Minimum steps with least requirements  
required heavily on manual work and aws console  
No security measure, only good for small size team

Dev



Source Code



GitHub

ssh into instances  
and do manual copy of the  
code into the instance



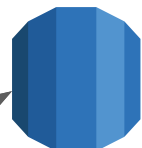
Amazon EC2

Front End



Amazon EC2

Back End



Amazon RDS



Application  
Load  
Balancer



Amazon Route 53



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End User