

TOPICS TO BE COVERED

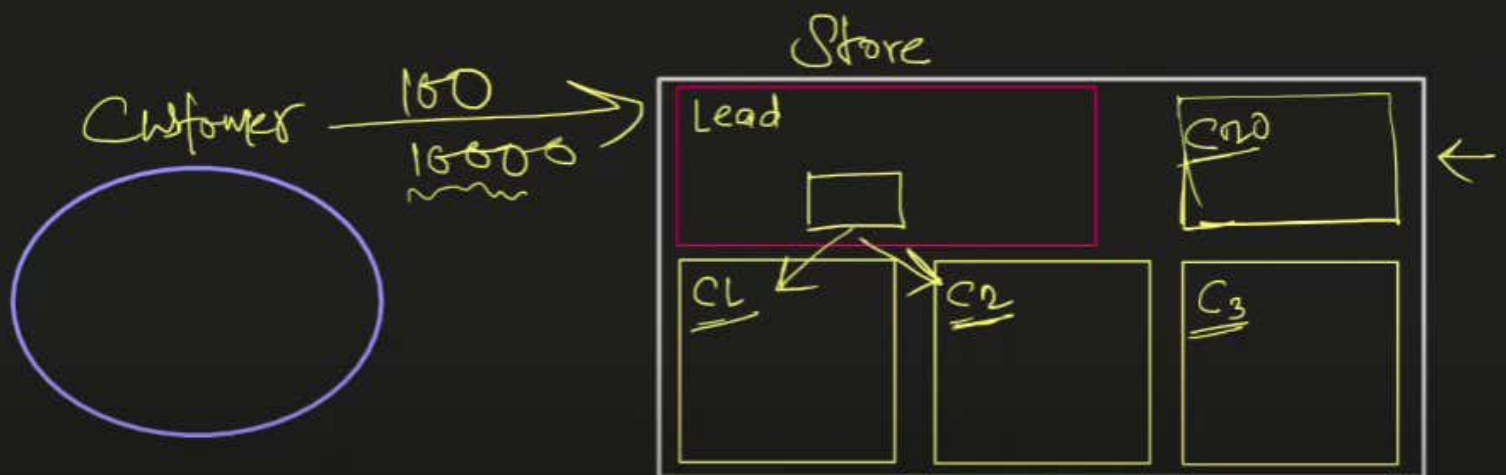
{ DVC
MLFLOW }

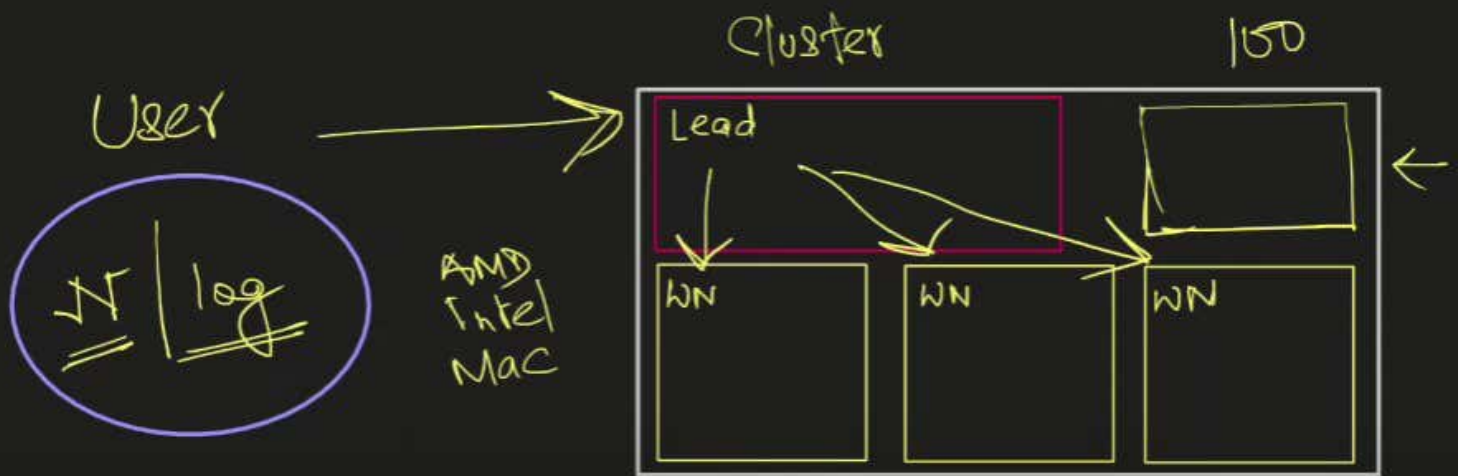
- Our playlist so far. (Pre-requisite)
- Distributed Computing
 - Cluster
 - Lead-Node Server
 - Communication
 - Concurrency [Speed, Fault Tolerance]
 - Same as inside Apache Spark internally (Map Reduce)
- Microservices (How related to Docker & Kubernetes?)
- Kubernetes Internals (next slide)

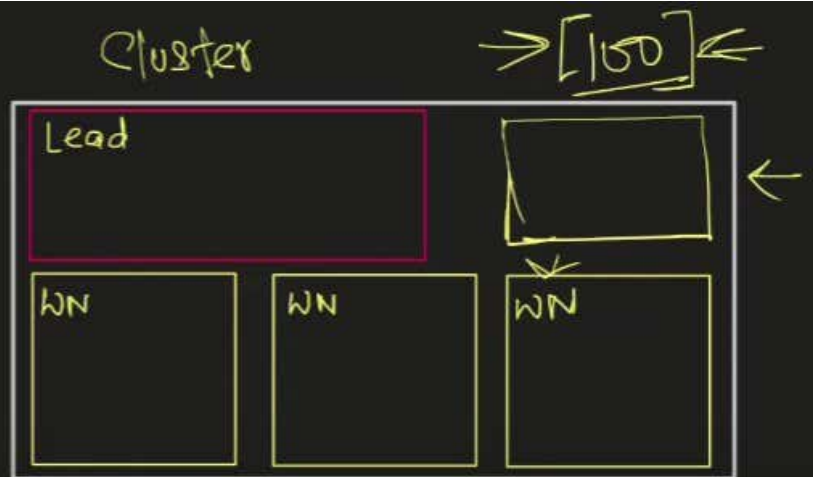
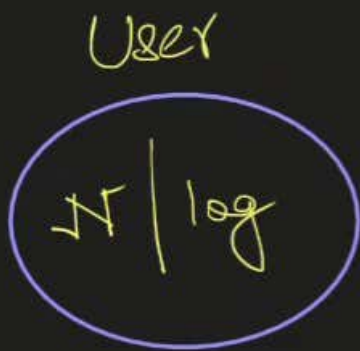
KUBERNETES INTERNALS

- Master Node (Control Plane)
 - Resource Manager
 - Communication (User to API Server)
 - Database (etcd)
- Worker Node
 - Kubelet
 - Kube-Proxy
 - Pods
 - SharedDB (volumes)
 - Kube-manifest (yaml)
 - Service
 - Namespace
 - Scheduler
 - Replica Set
- VS Code - Kubernetes Extension

DISTRIBUTED COMPUTING







ML-Proj

Monolithic

MICROSERVICES EXPLAINED



Docker Image

EC2 (10000)

MICROSERVICES EXPLAINED

Data
ing

Pre-
Processing

Feature
Engg

Model
Training
Eval

Model
Serving
or
APP



Zomato App / Vehicle Insurance



User



~~10L~~
~~10M~~

Cluster



10 → EC2^x
5 → EC2

25 → EC2 

