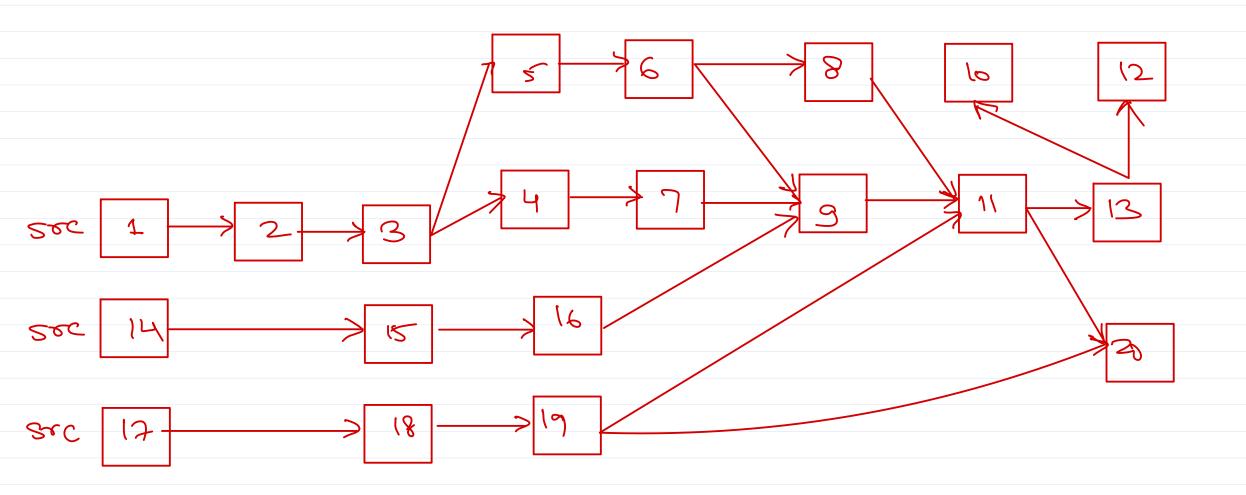


Big Data Technologies

Trainer: Mr. Nilesh Ghule.

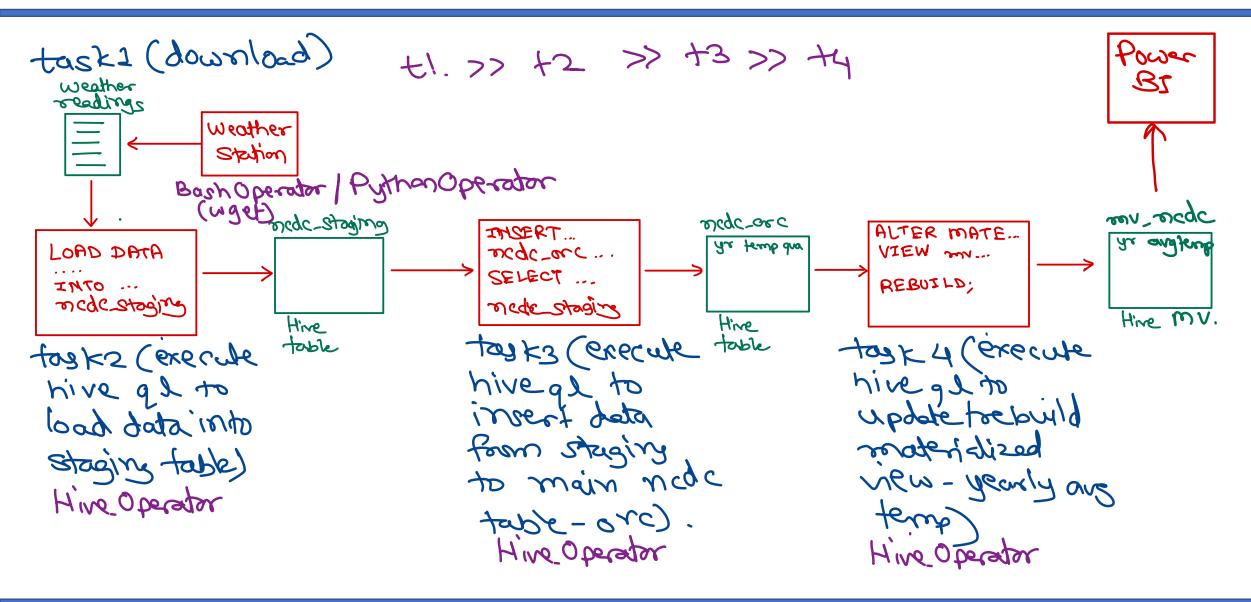


Complex DAGs



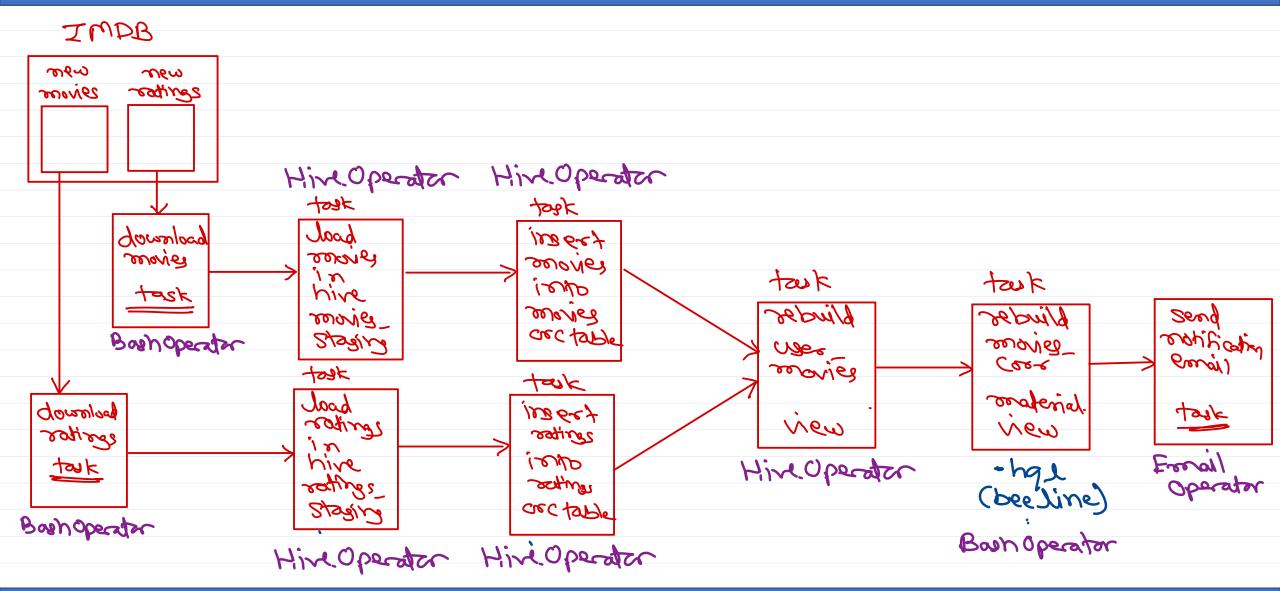


DAG



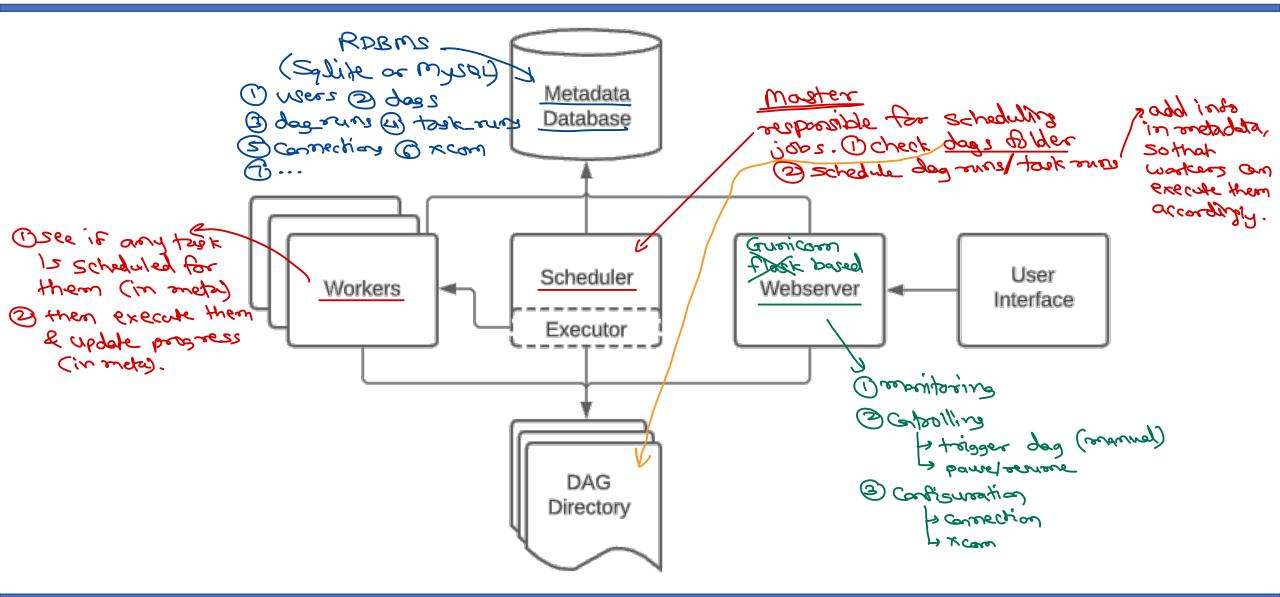


Movie Recommendation Workflow



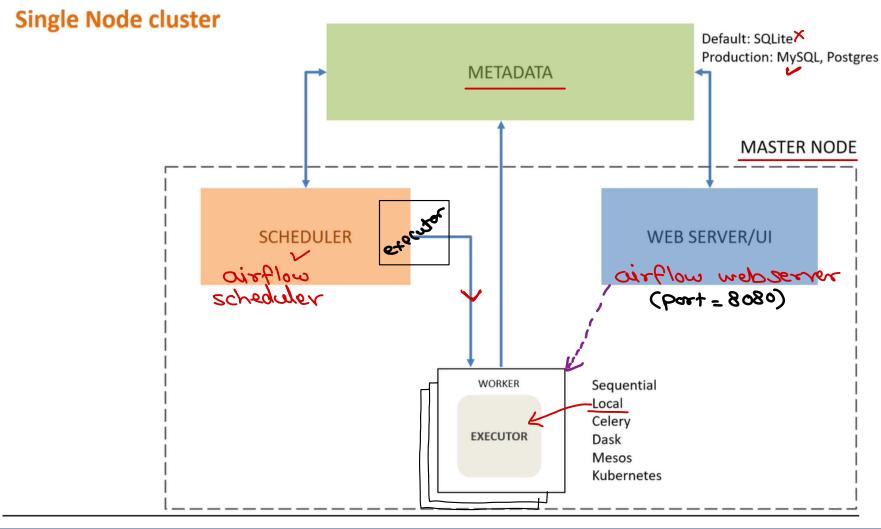


Airflow Architecture





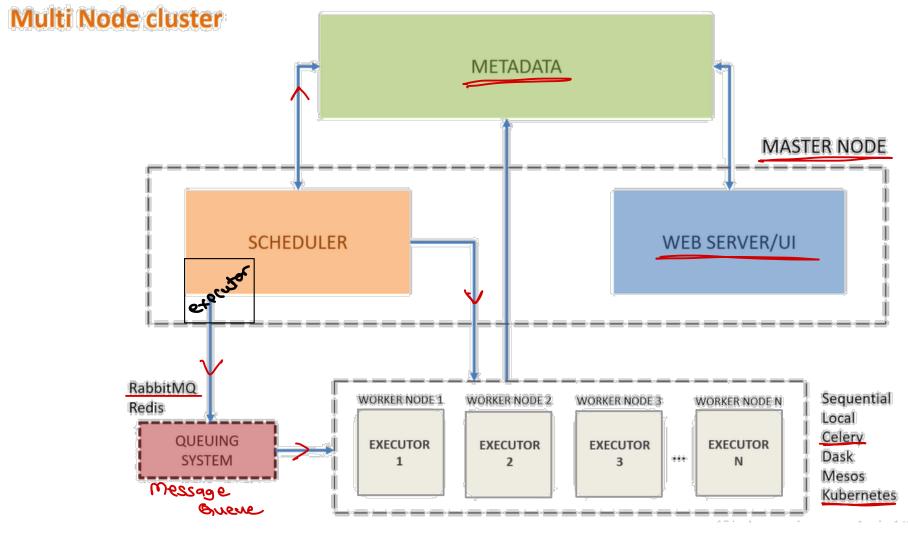
Airflow – Single node installation



- Single worker node.
- Not scalable (max all resources available on the system).
- Quite fast for limited number of DAGs and data size.
- Use local executor.
- Direct
 communication
 between scheduler
 and executor. workers



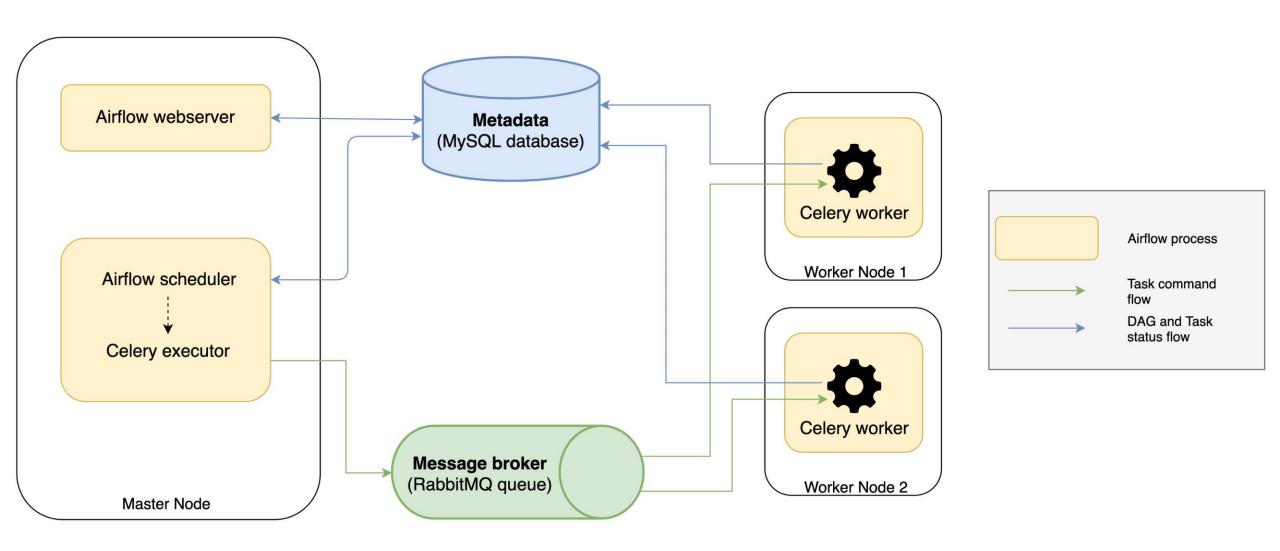
Airflow – Multi node installation



- Master node runs scheduler and webserver.
- Multiple worker nodes
 running executors/worker
- Highly scalable for huge data and many nodes.
- Recommended executor is Celery.
- Scheduler and workers communicate with external queue system like Rabbit MQ / Redis.

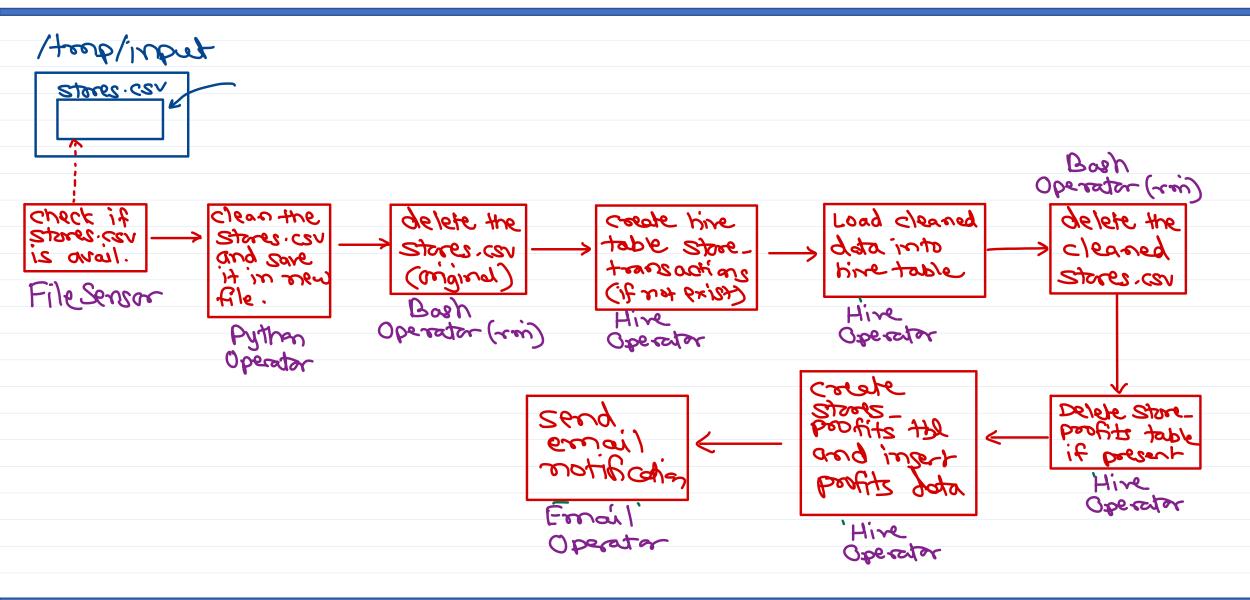


Airflow – Multi node installation





Data ingestion and Reporting workflow







Thank you!

Nilesh Ghule <nilesh@sunbeaminfo.com>

