Arun

May 27, 2019







Arun

It's a workflow manager



- It's a workflow manager
- We can also call it a fancy Scheduler



- It's a workflow manager
- We can also call it a fancy Scheduler
- It can be a easy backend job Scheduler in a distributed system
- Ref, this blog







• Oozie - XML code

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• Pinball (pinterest) - no community interest



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- Luigi (Spotify) Uses HDFS, no alerts or monitoring



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- Luigi (Spotify) Uses HDFS, no alerts or monitoring
- Azkaban (LinkedIn) Uses custom config file for workflow setups





• Python code base + for workflow definitions



 Arun
 Airflow
 May 27, 2019
 5 / 1

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- Trigger rules





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- Xcoms



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- Cool UI & CLI



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- Cool UI & CLI
- Queues & Pools
- Zombie cleanup

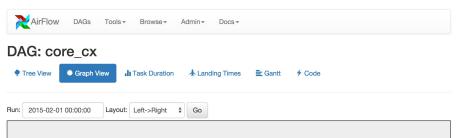


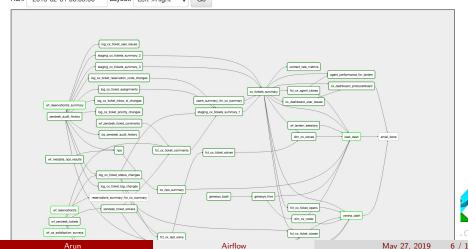


- Python code base + for workflow definitions
- Trigger rules
- Xcoms
- Cool UI & CLI
- Queues & Pools
- Zombie cleanup
- Large community









Airflow - Executors

- Sequential
- Local (parallel)
- Celery
- Mesos
- Kubernetes (still in alpha)



Our cluster

- Single node (8 core, 20 GB node)
- Local Executor (with 24 parallel schedulable tasks)
- 3000+ tasks triggred a day
- Code auto deployed from master to prod



Tasks

- BQ job
- Run spark jobs daily for ML
- All batched jobs in Google Dataflow
- Scheduling backend jobs
- All errors to SLACK
- Critical DAG failures will invoke Victorops issue



