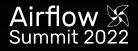
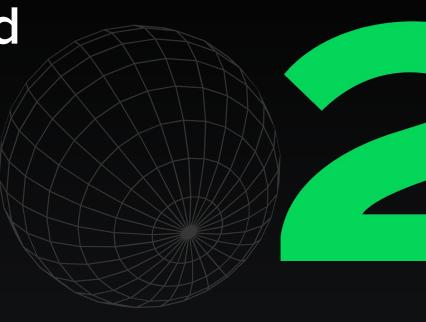
May 23—27, 2022

AIRFLOW SUMMIT



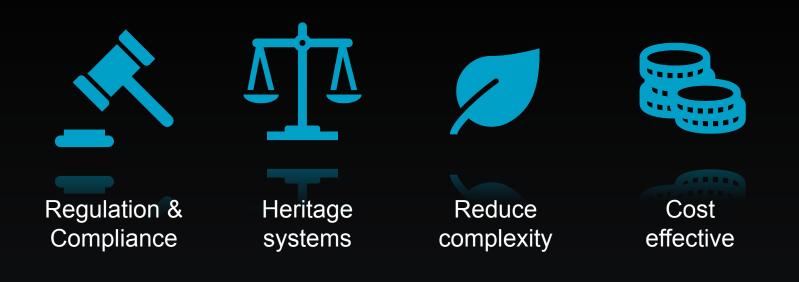
Orchestrating hybrid workflows with Apache Airflow

Ricardo Sueiras Principal Developer Advocate, AWS





Apache Airflow



SqIToS3Operator

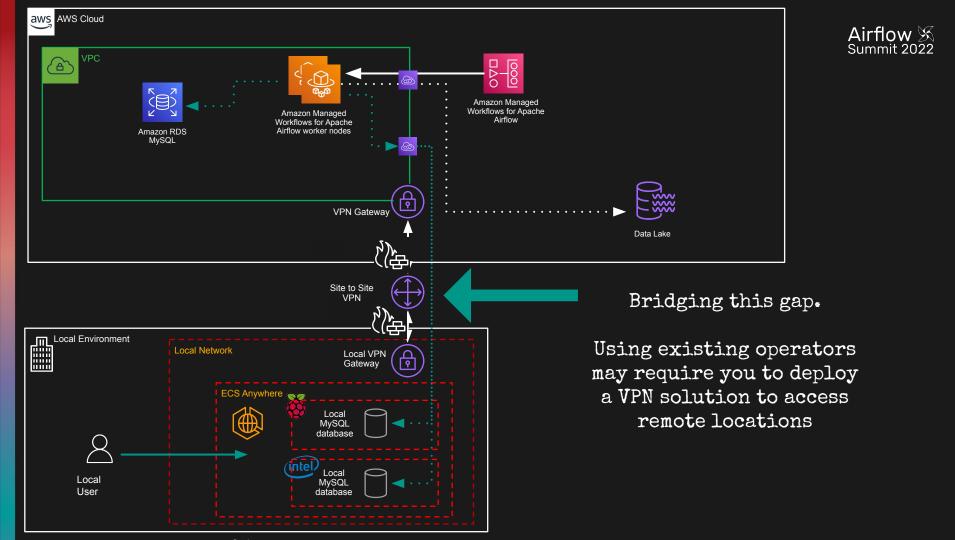
- Need to integrate networks between Cloud and remote (via VPN for example)
- Additional work required to enable connectivity (inbound/controlled networks)
- Processing of data in Airflow Worker

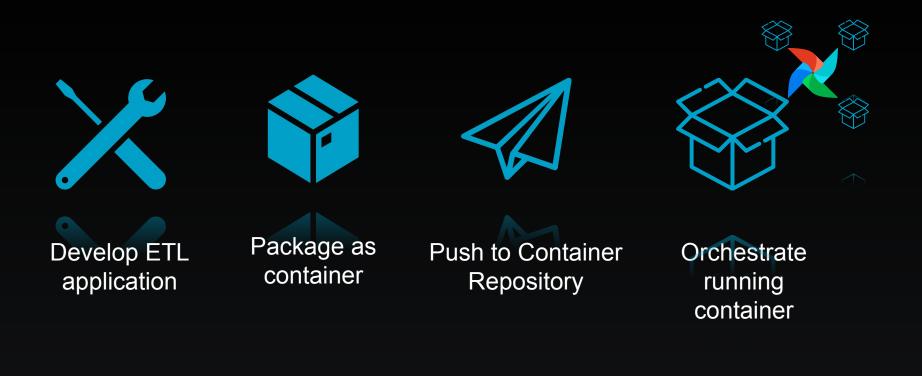
PythonOperator

- Need to integrate networks between Cloud and remote (via VPN for example)
- More complex DAGs
- Processing of data in Airflow Worker
- Potential Apache Airflow
 anti-pattern

AthenaOperator

- Need to integrate networks between Cloud and remote (via VPN for example)
- Processing of data in Cloud (Athena)
- Create Athena Federated Queries (running as Lambda functions)
- Additional work required to enable connectivity (inbound/controlled networks)



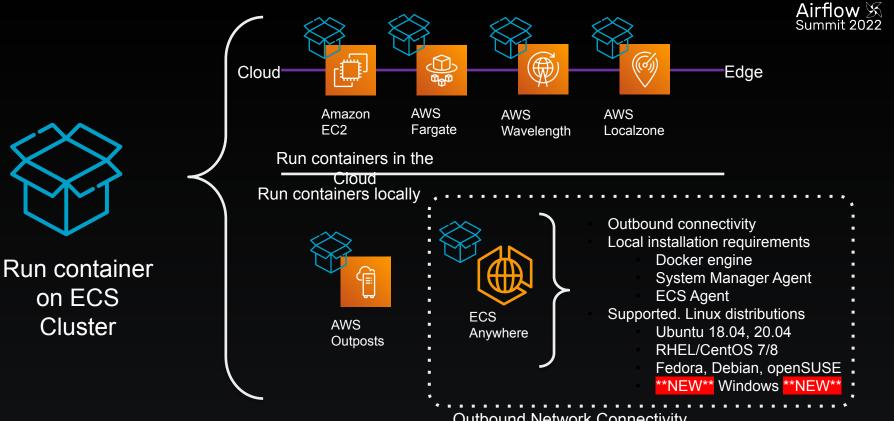


KubernetesOperator

- Need to integrate networks between Cloud and remote (via VPN for example)
- Need to build your ETL container image
- Good re-usability
- Need to provision and manage K8s clusters locally

ECSOperator

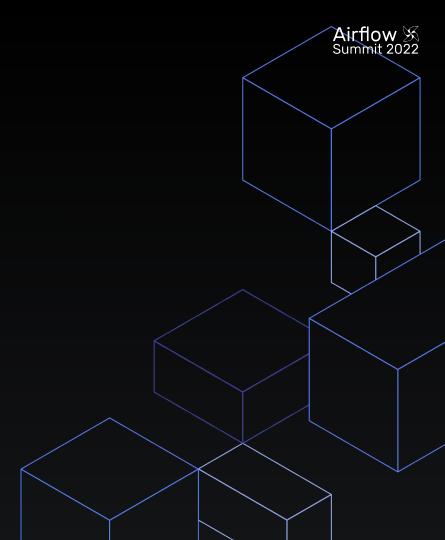
- Need to install local ECS Anywhere agent and create Amazon ECS clusters
- Not open source
- Need to build your ETL container image
- Good re-usability
- Processing of data locally

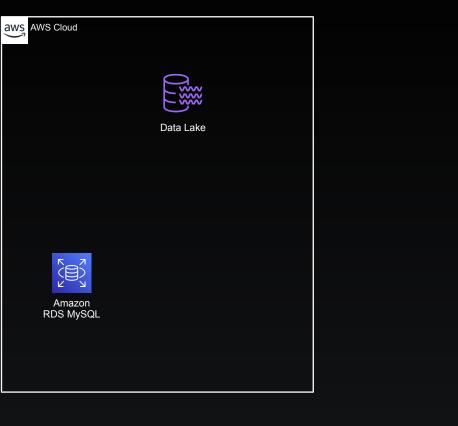


Outbound Network Connectivity



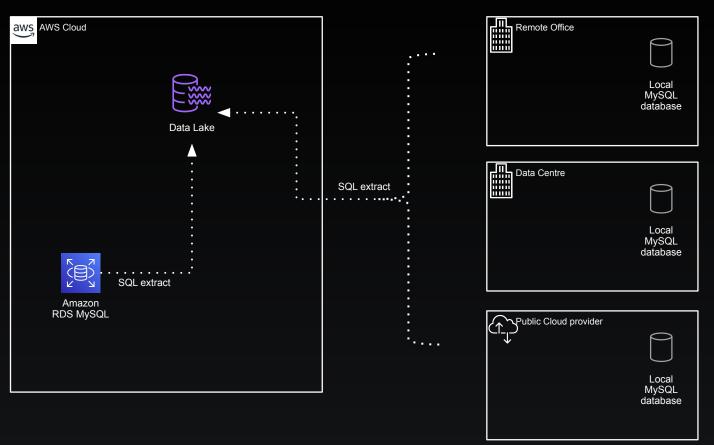
(live, pray for me!)

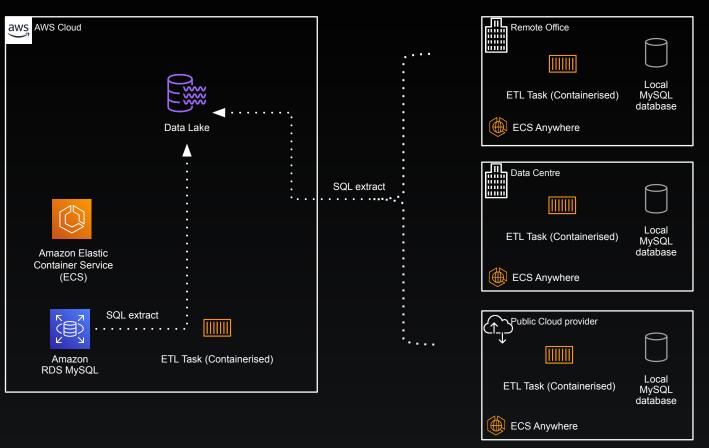


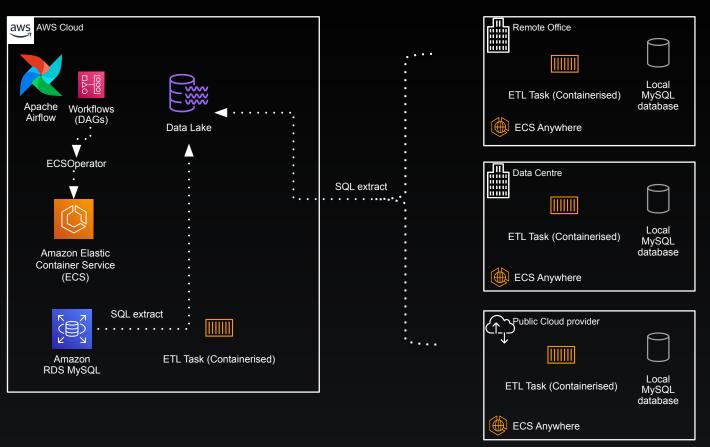


Remote Office	Local MySQL database
Data Centre Regulatory controls	Local MySQL database

Public Cloud provider	
Migration	Local MySQL database

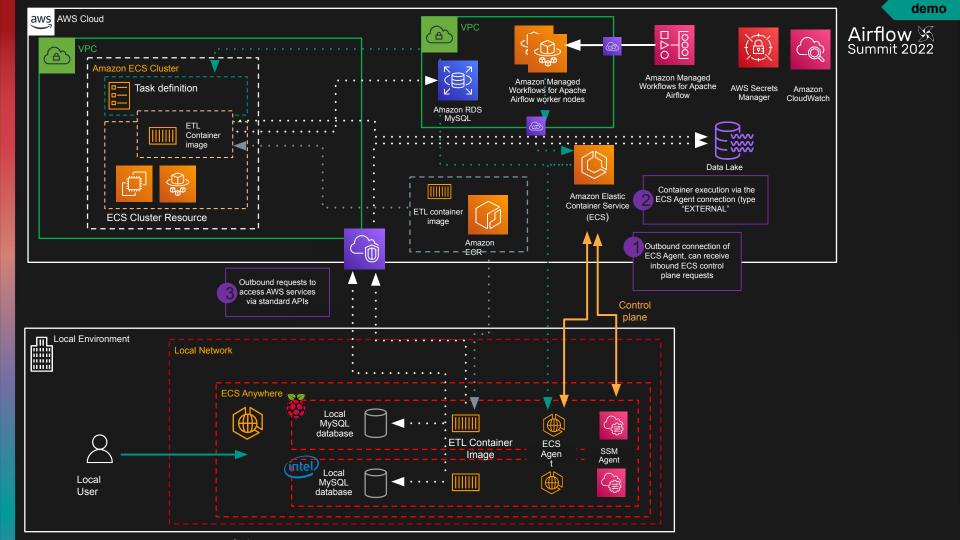


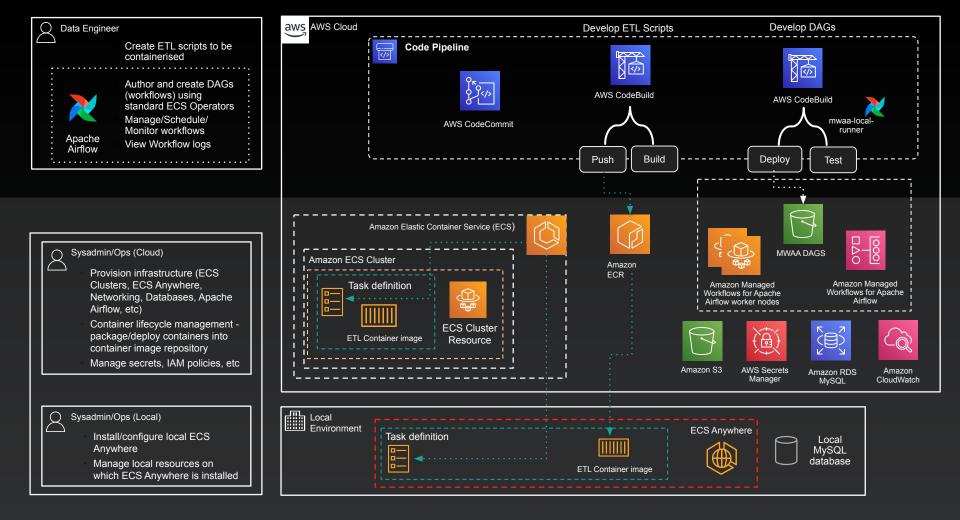


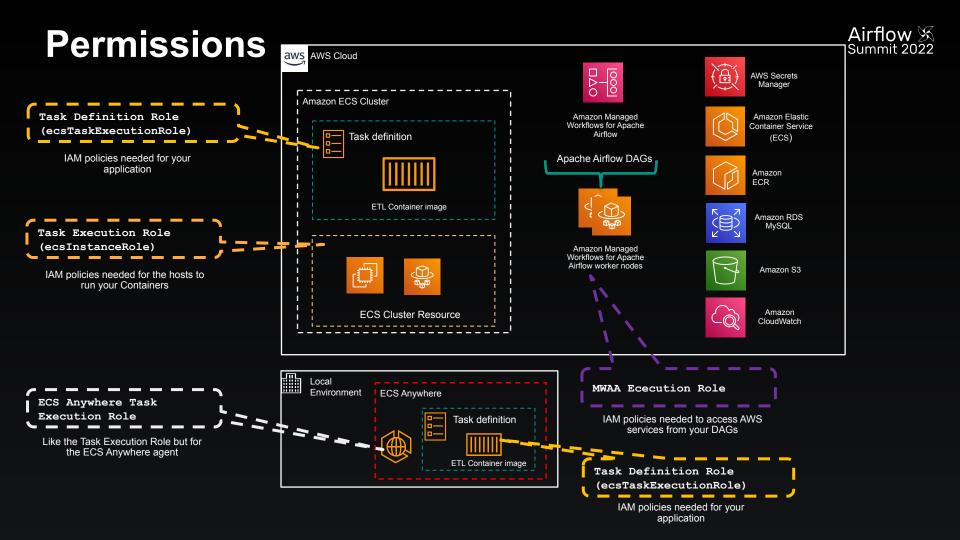
















https://github.com/094459/blogpost-airflow-hybrid



Thank you!

Ricardo Sueiras



https://www.linkedin.com/in/ricardosueiras

