

A little about Snowflake

What does Snowflake do?

Brings the Aviation industry into the 21st century

What/How do we deliver?

Flight data processing systems

- High-volume, real-time data
- Customer specific deployments

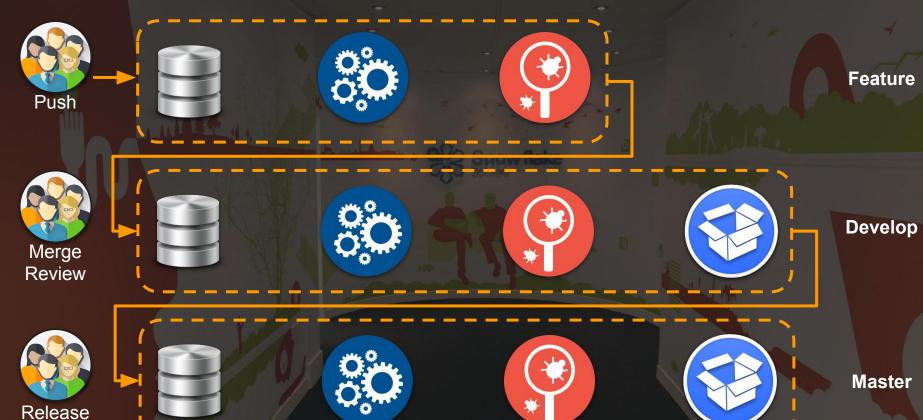
Cloud and on-prem installations

Event-driven, microservices architecture

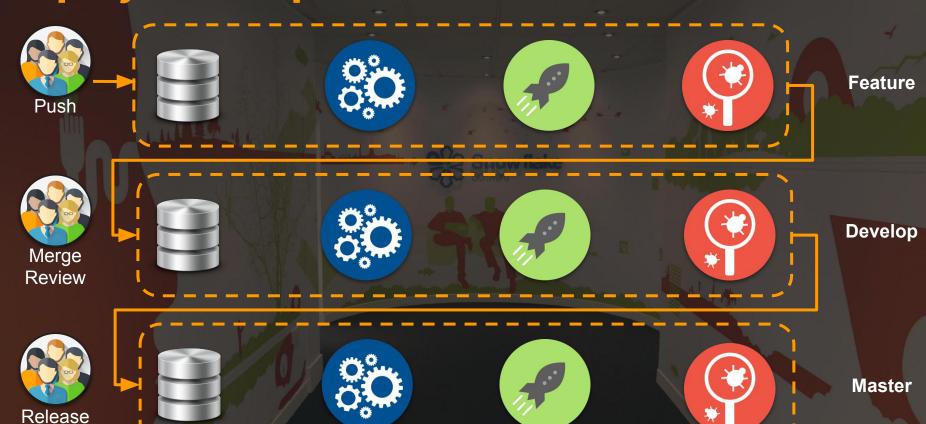
- Many small components acting independently
- Emergent behaviour

Mixture of agile and waterfall projects

Component Build Pipeline



Deployment Pipeline



Awesome bits

Fast feedback cycle - componentisation + consistent pipelines

Quality control is high with consistency across business

Quality extends beyond just the "production" code - even shell scripts!

Highly automated, but we can do better!

All driven out of version control

Not-so-Awesome bits

Hard to update widely used dependencies - libraries and also quality checks

Pipelines contain duplication - feature to develop to master

Maven doesn't fit with a phased GitlabCI build/test/deploy pipeline

Lack of visibility across all components - dependencies, versions and quality

Quality checks can be over-zealous - PMD, CPD, CVE



Questions?!

