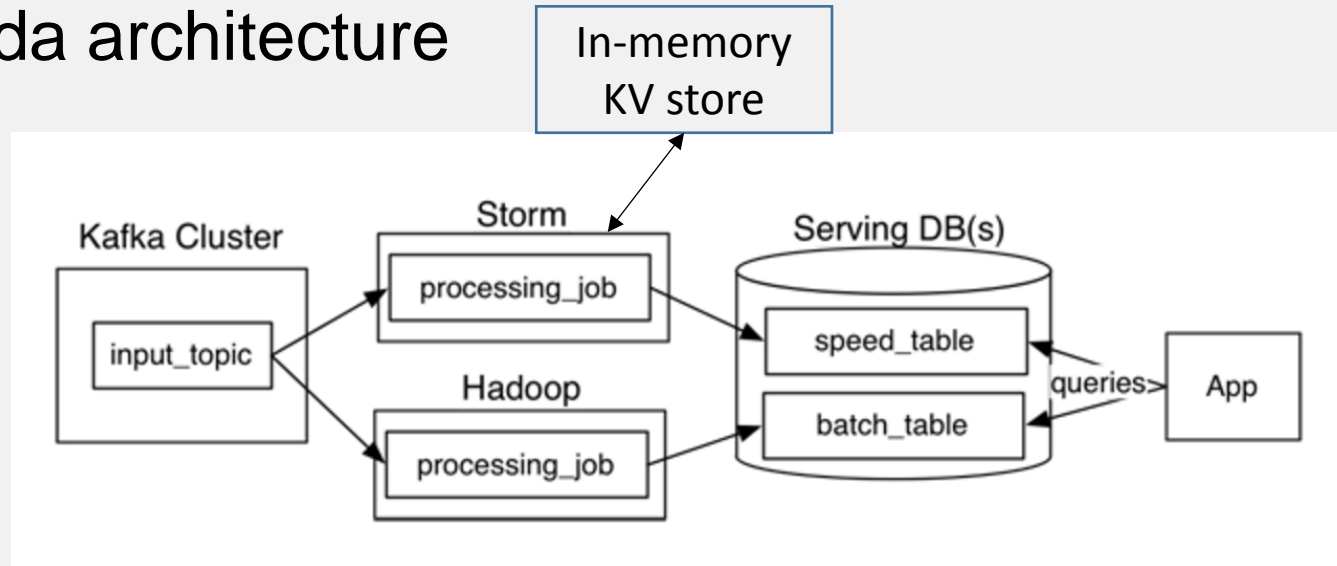# CLOUD COMPUTING APPLICATIONS

Lambda and Kappa Architecture

Roy Campbell & Reza Farivar
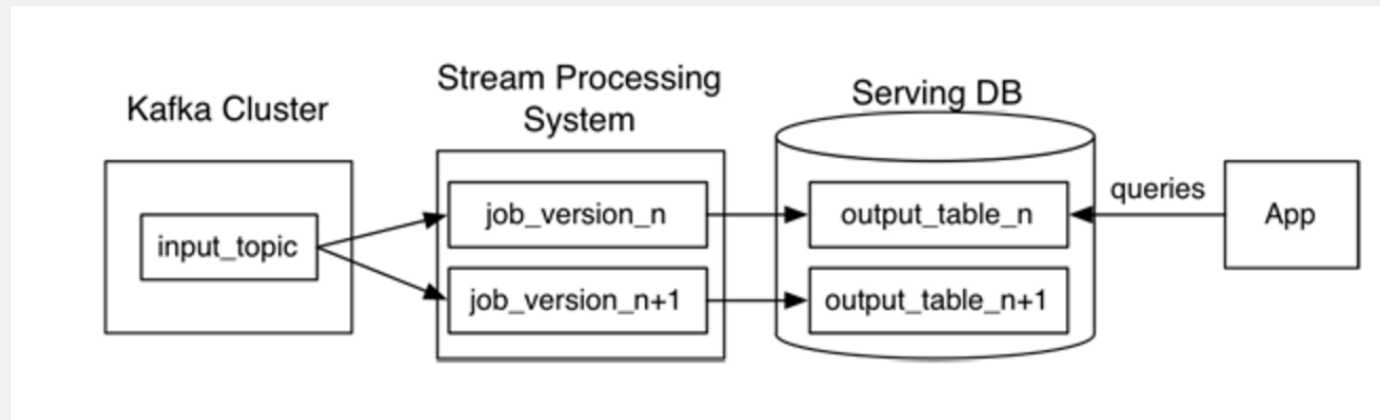
Lambda Architecture

- Lambda architecture

- Why Lambda? Because things fail
  - Batch handles failures just fine
- A true streaming system has to guarantee idempotency

Kappa Architecture

- Kappa Architecture

- Only the streaming path

- But what about the state?
  - Perhaps Microbatch can help