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# LONG RUNNING ACTIONS

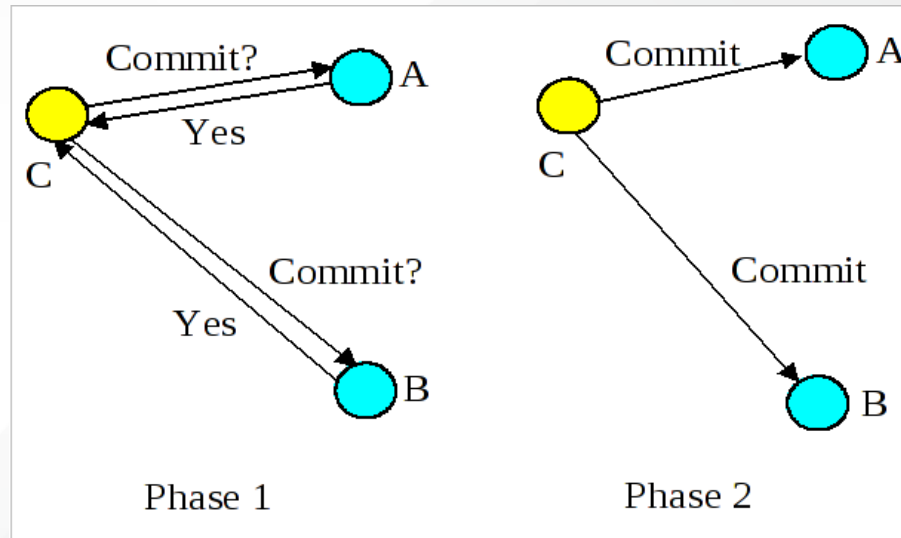
MICROPROFILE TRANSACTIONS

**MARTIN STEFANKO**

JBoss Middleware

# TRADITIONAL APPROACH

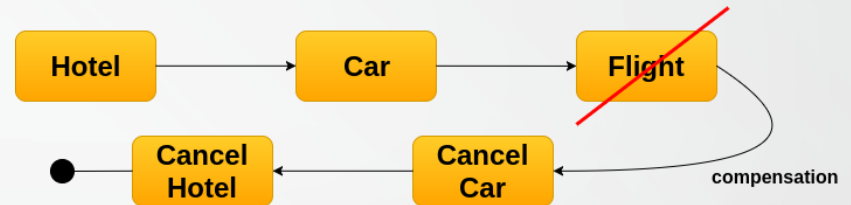
- JTA, JTS, XA specifications
- Two phase commit protocol



# SAGAS

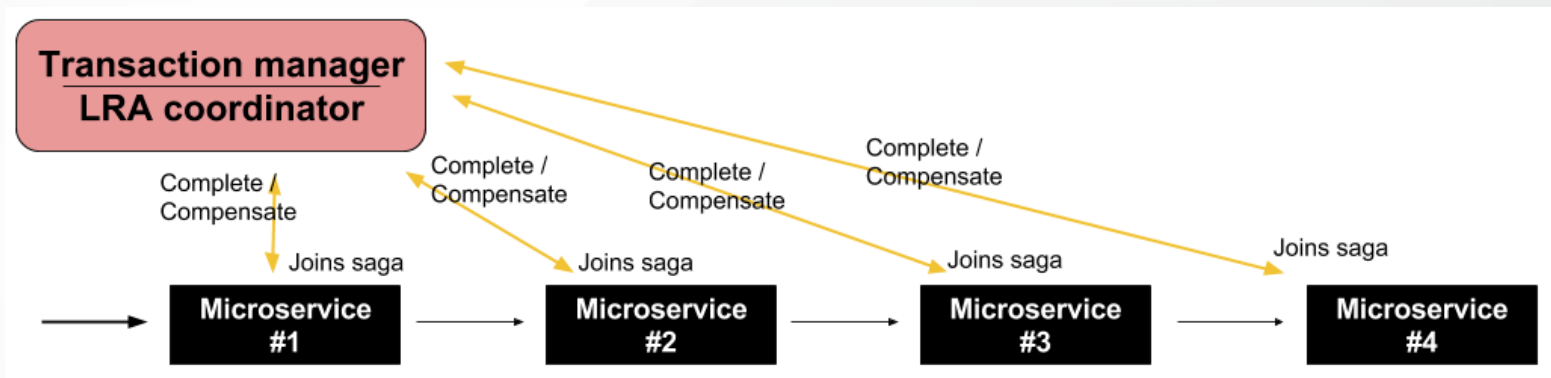
*Hector Garcia-Molina and Kenneth Salem, Princeton University, 1987*

- long lived transactions
- compensations
- all-or-nothing property



# LONG RUNNING ACTIONS

- MicroProfile
- standardization
- microservices architectures





The image features a landscape with a body of water and a sky filled with large, dark, billowing clouds. A thick, semi-transparent red layer is applied over the entire scene, creating a monochromatic effect. Two diagonal bands of a darker red shade cut across the image from the top-left and bottom-right corners. Centered in the middle of the frame, the word "QUESTIONS" is written in a bold, white, sans-serif typeface.

**QUESTIONS**



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