# DATABASE HIGH AVAILABILITY USING SHADOW Systiems soci

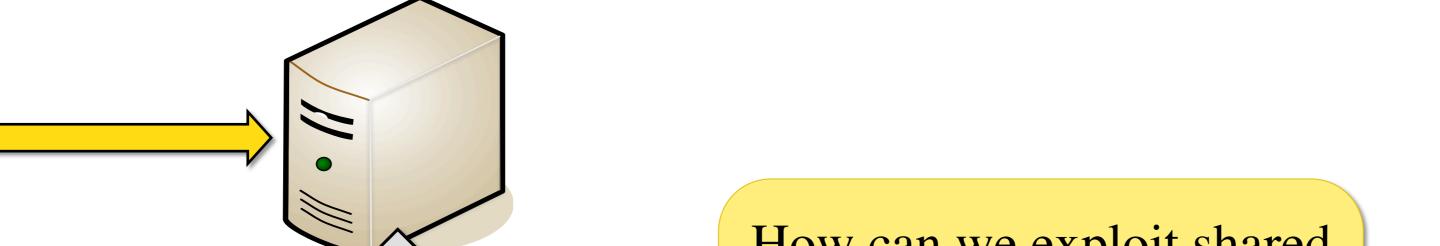


Jaemyung Kim, Kenneth Salem, Khuzaima Daudjee, Ashraf Aboulnaga, Xin Pan

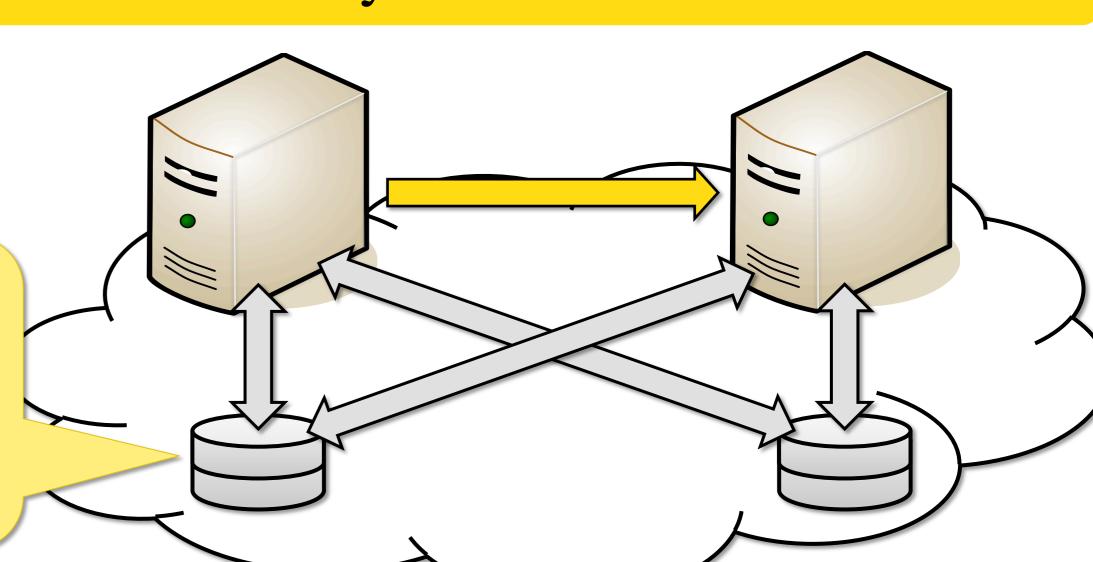


# Shared-Nothing High Availability



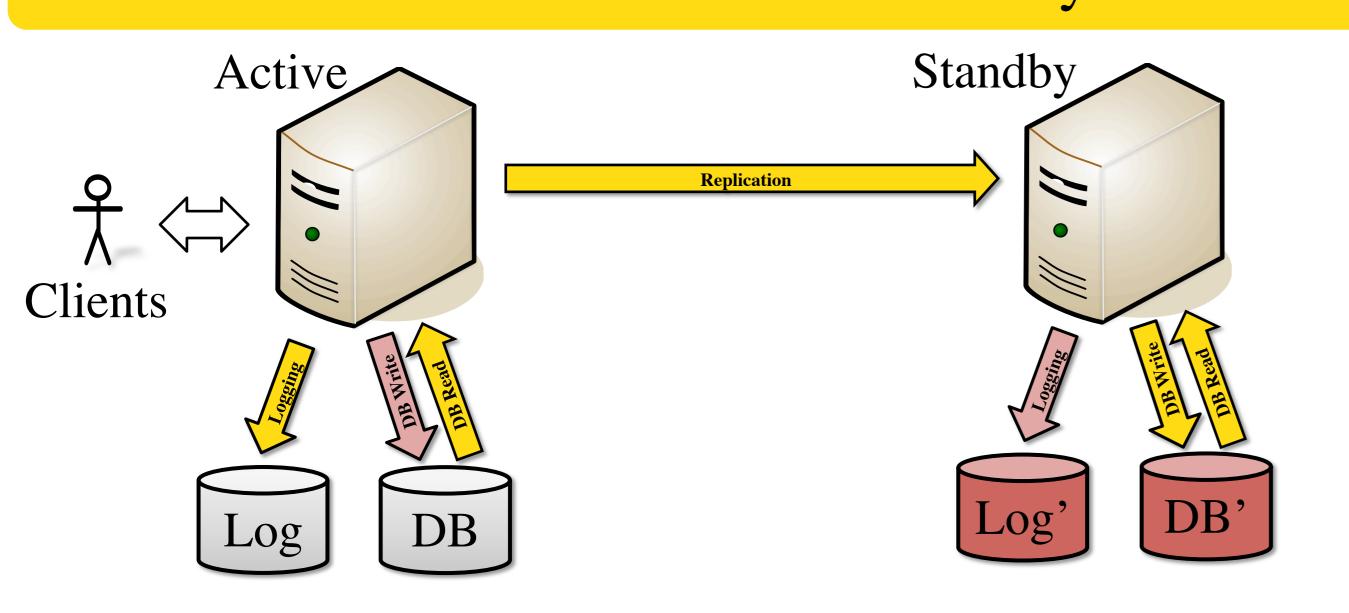


How can we exploit shared persistent storage to build better highly available database systems?



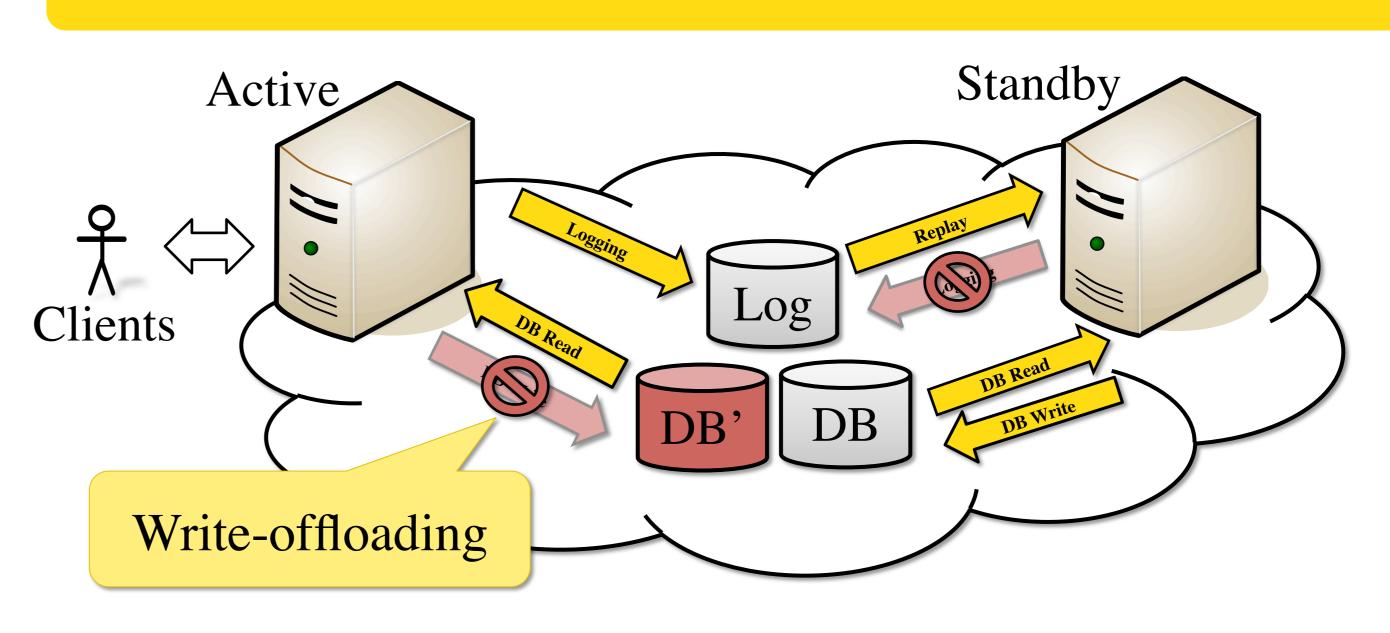
# SHAred Database with Offloaded Writes

#### Traditional Active/Standby



#### SHADOW Architecture

Active/Standby HA in Cloud



## Performance Evaluation

TPC-C Mean Throughput for SHADOW and Baselines

### Variability of TPC-C Throughput (1 min intervals)

