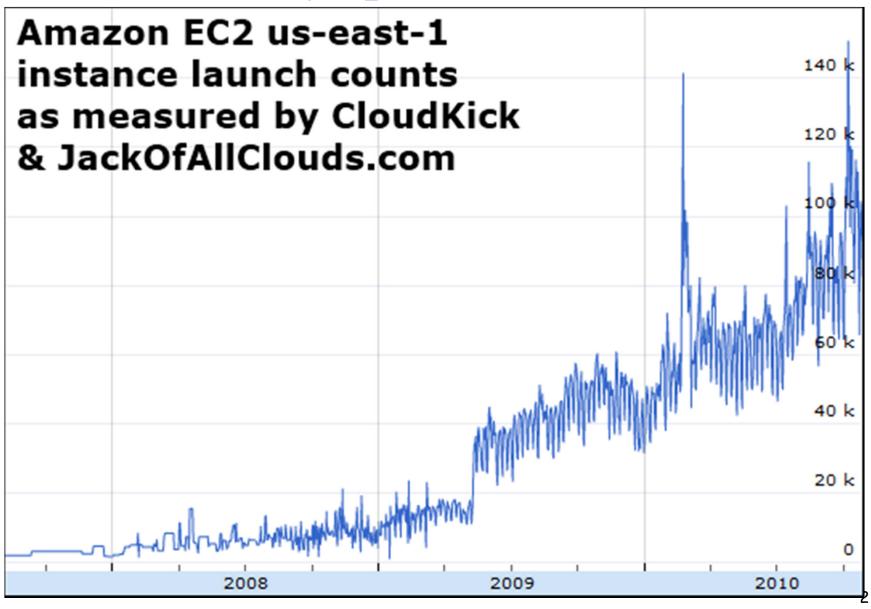
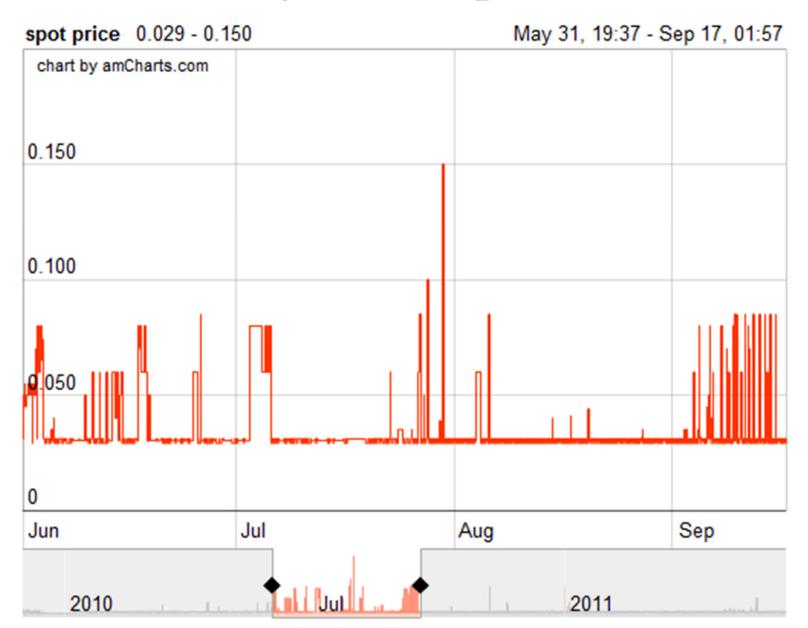
# Cutting MapReduce Cost with Spot Market

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#### Why spot market?



## Challenge with Spot Market

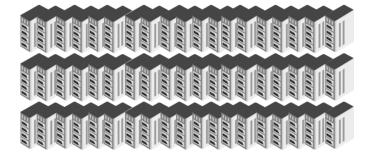


#### Cloud MapReduce

Hadoop

MapReduce App

Hadoop



Our prior work

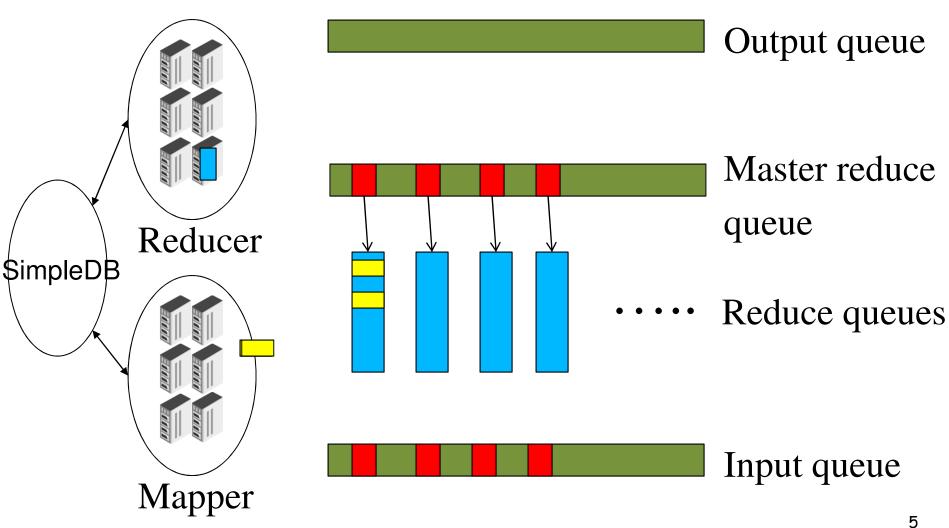
MapReduce App

Cloud MapReduce

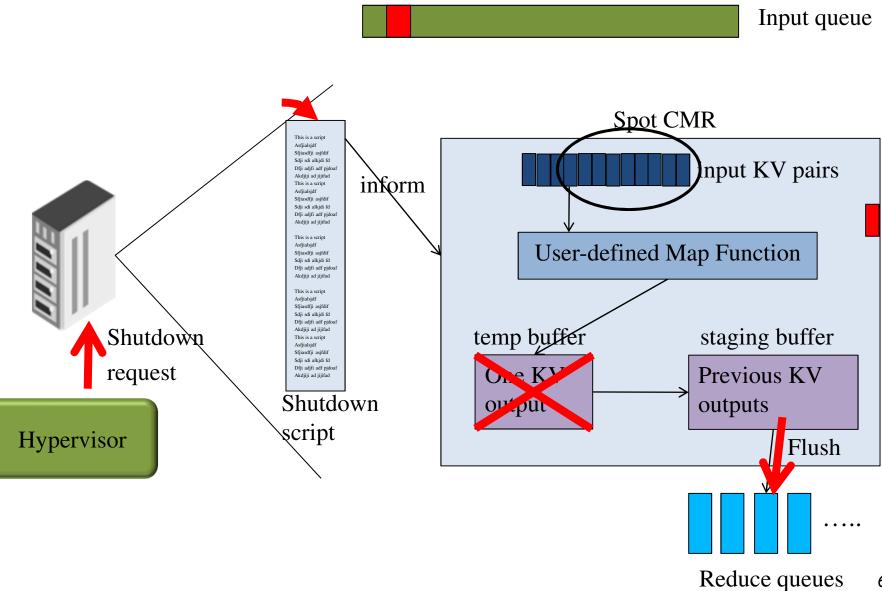
**Cloud OS** 

Amazon

#### Cloud MapReduce architecture



### A map node in Spot CMR



#### Summary

- > First-ever MapReduce implementation that works in a spot market environment
  - Uses on-demand checkpointing

Dramatic cost savings