

# Parallel Batch Processing Apache Spark VS Apache Flink

SUTs

Benchmark approach: client perspective

### SUTs:

- Flink 1.6.2
- Spark 2.4.0

#### Cluster settings:

- · Provider: AWS
- · One master; Two slaves
- EC2 type: m5.large

## Workload/Metrics

Data structure: typical book store

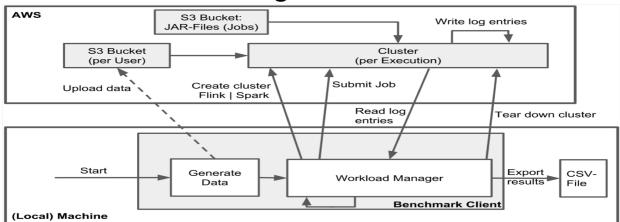
Workloads for each metric and SUT:

- a) GroupBy: genre, count per group
- b) Sorting: number of pages (ascending)
- c) Aggregation: price (max)

#### Metrics:

- 1. Runtime
- 2. Throughput

## Benchmarking Tool: Architecture



Result: GroupBy

- 1. TODO Plot
  - 1. Flink data
  - 2. Spark data

1. TODO: Plot interpretation