

Data Placement Strategies

- Replication Strategy: two options:
 1. *SimpleStrategy*
 2. *NetworkTopologyStrategy*
- 1. SimpleStrategy: uses the Partitioner, of which there are two kinds
 1. *RandomPartitioner*: Chord-like hash partitioning
 2. *ByteOrderedPartitioner*: Assigns ranges of keys to servers.
 - Easier for *range queries* (e.g., Get me all twitter users starting with [a-b])
- 2. NetworkTopologyStrategy: for multi-DC deployments
 - Two replicas per DC
 - Three replicas per DC
 - Per DC
 - First replica placed according to Partitioner
 - Then go clockwise around ring until you hit a different rack