* Think of designing a storage systems in a distributed environment.
* Think of operations, such as:
  + Create/inserting
  + Read/retrieving
  + Update/modify
  + Delete/removal
* Design a schematic overview of how each operation will function in a distributed storage system environment.
* Think of schematic/procedure/process/steps of each operation when operating on disk, etc...
* On a cluster of machines (distributed); storage on each one of the nodes.
* Data will be versioned.
  + No deleting of the data, label it as inactive.
  + When updating, the new version is created with object change. no in-place alteration. new version with delta change
  + All versions of data objects will be present from the first occurrence.

Understanding your workload

Important factors to consider when evaluating a storage system, such as:

* RUM conjecture
* maintenance overhead
* operational simplicity
* system requirements
* suitability for frequent updates and deletes
* access patterns

1. Writing
2. Reading
3. Updating & Deleting