**How Cassandra write works**

* Lets say single data center with 4 nodes.
* Each node is assigned with a range of tokes Ex: 0 to 25, 26 to 50, 51 to 75, 75 to 100… like that as Primary
* Lets say my table name users… “Partition Key” is userName.
* If I try to save a row of user. Hash or token is created for Partition key(userName). So the data will land up on any node that has the token range.
* If I mention Replication Factor as 3. Then data will be copied to other 2 nodes nodes. 1 as Primary and other 2 as replica.

**How Cassandra read works:**

* When I try to get data for Partition key. Hash is generated, specific node where data is present.
* Data will be picked from Primary.
* When Primary goes offline then replica is chosen to get data shown in next figure.





<http://www.slideshare.net/anukeus/things-you-should-be-doing-when-using-cassandra-drivers>