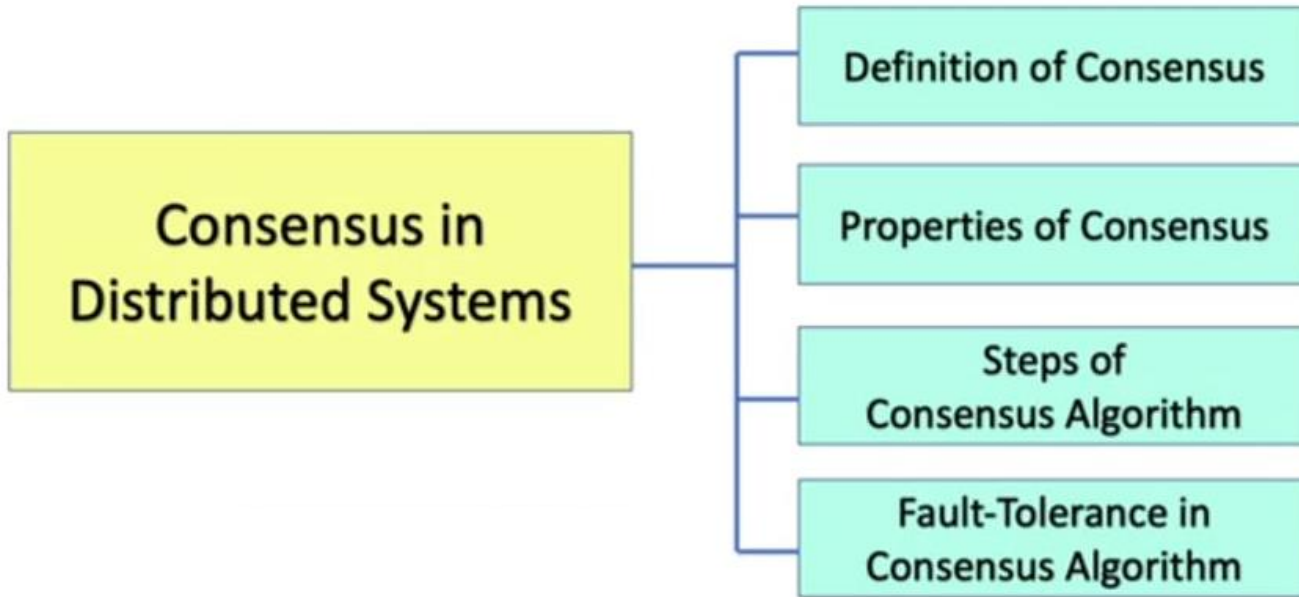




DISTRIBUTED CONSENSUS



10/28/2023



Consensus in Real Life



Italian



American



Indian



Mexican



Japanese



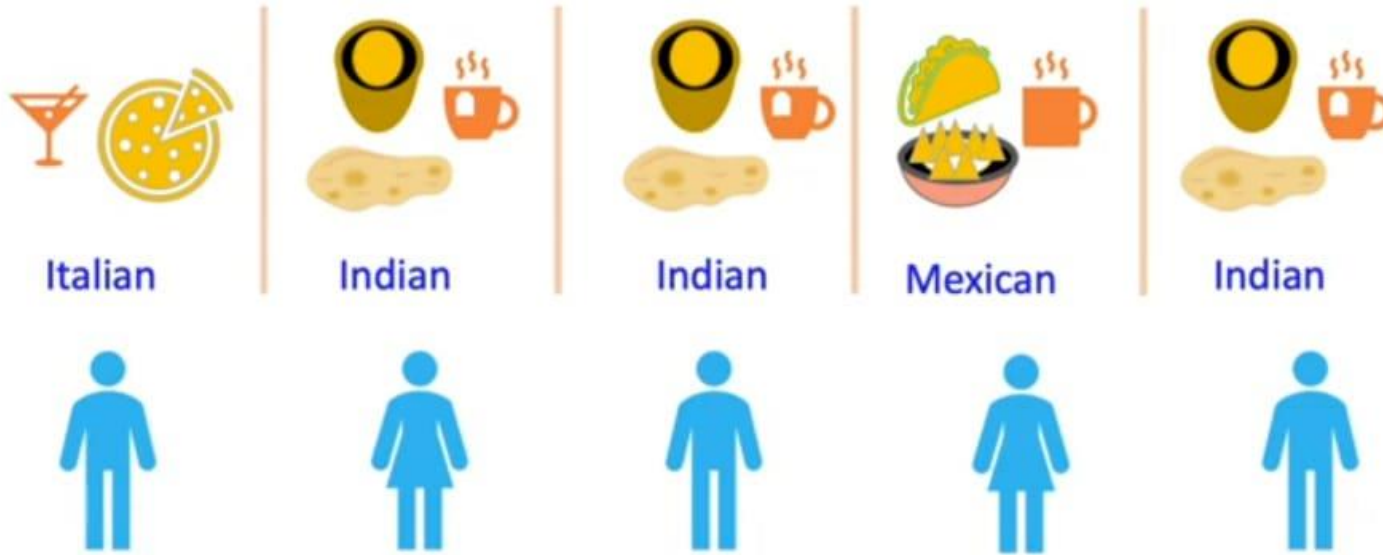
Consensus in Real Life



Indian



Consensus in Real Life



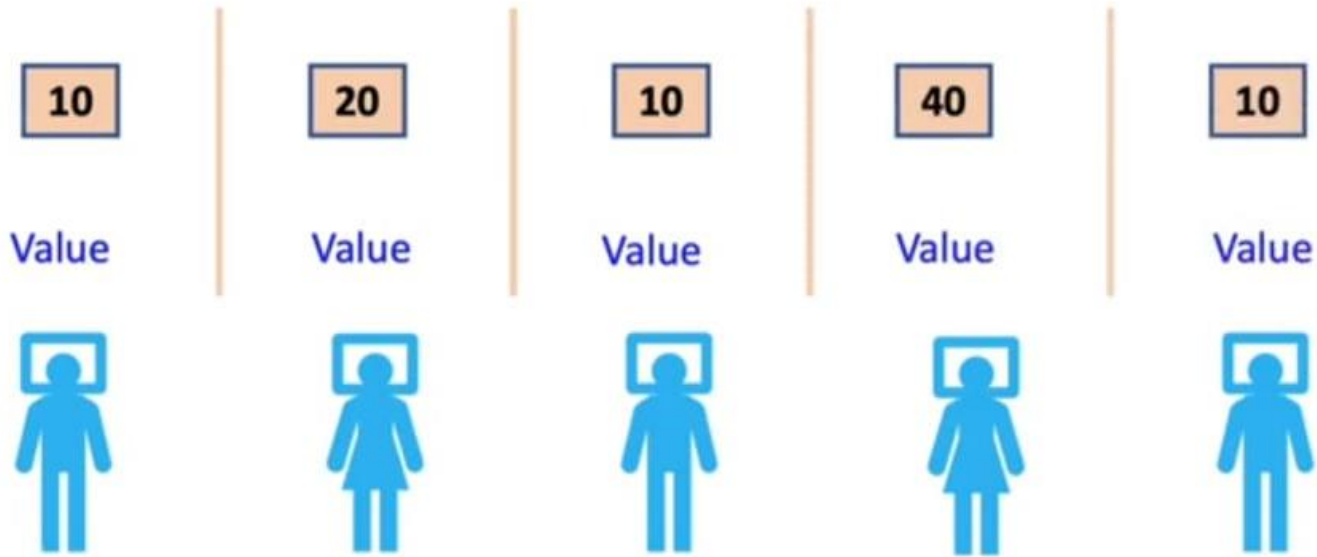
Consensus in Real Life



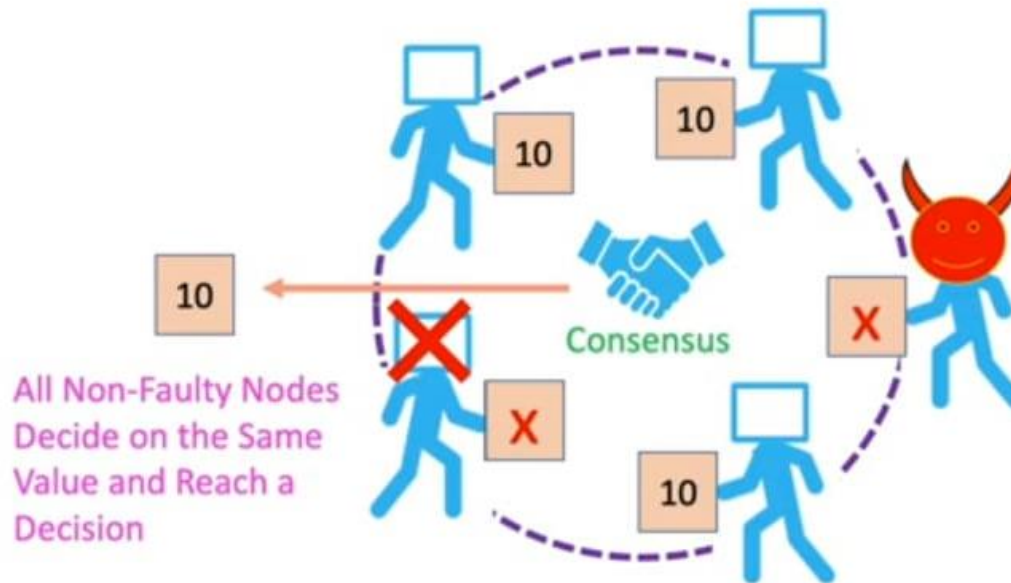
Indian



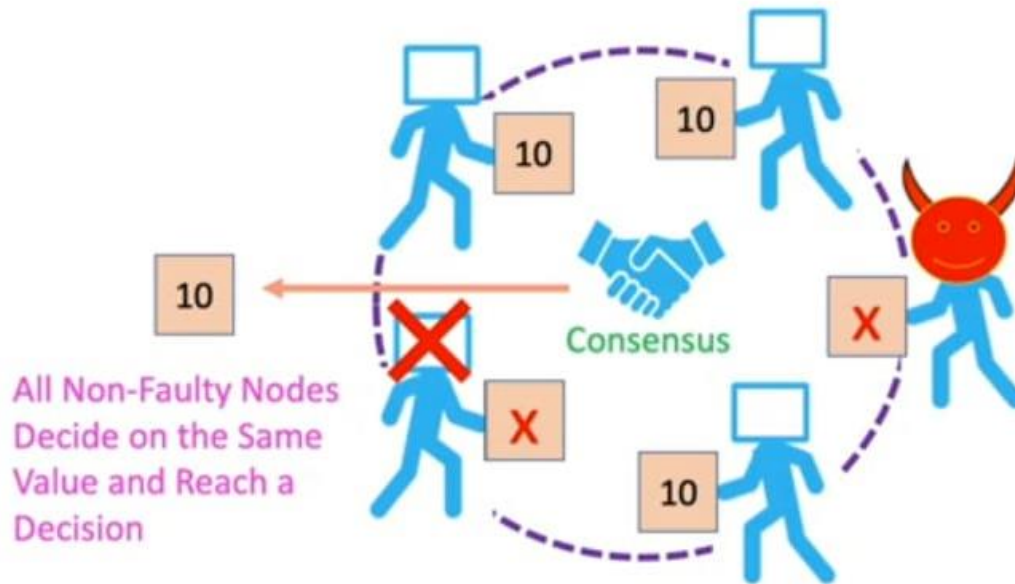
Consensus in Distributed Systems



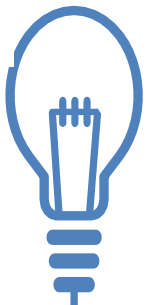
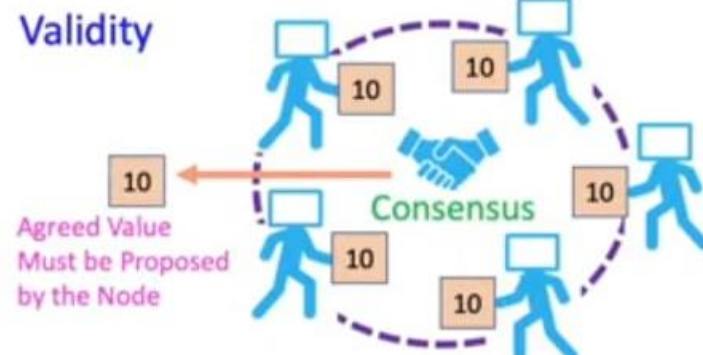
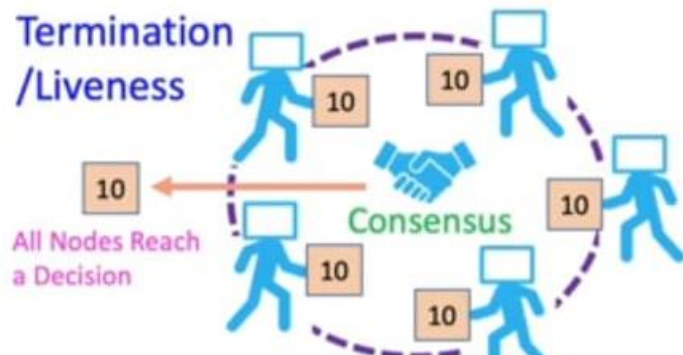
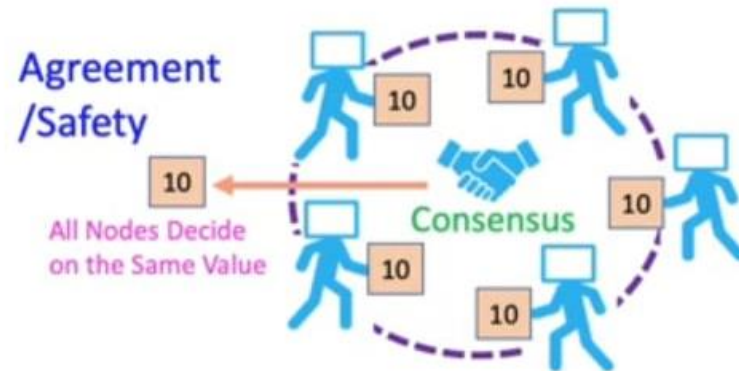
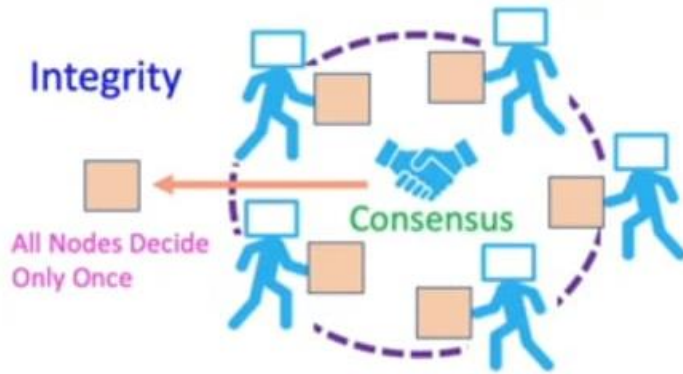
Definition of Consensus



Definition of Consensus

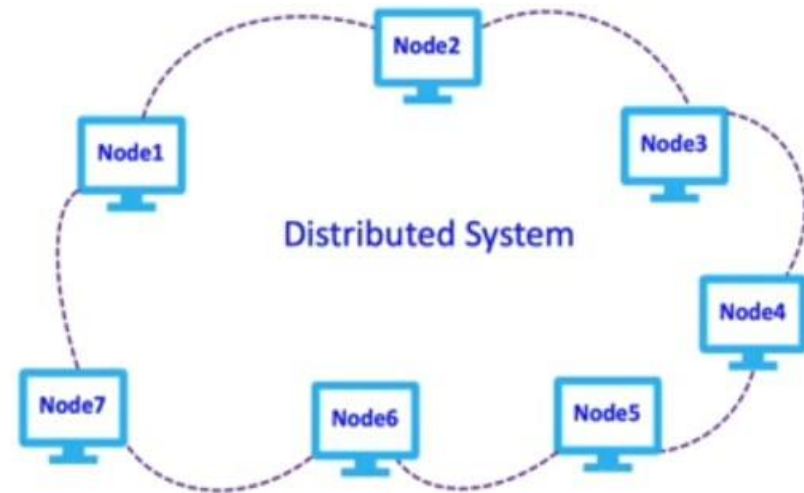


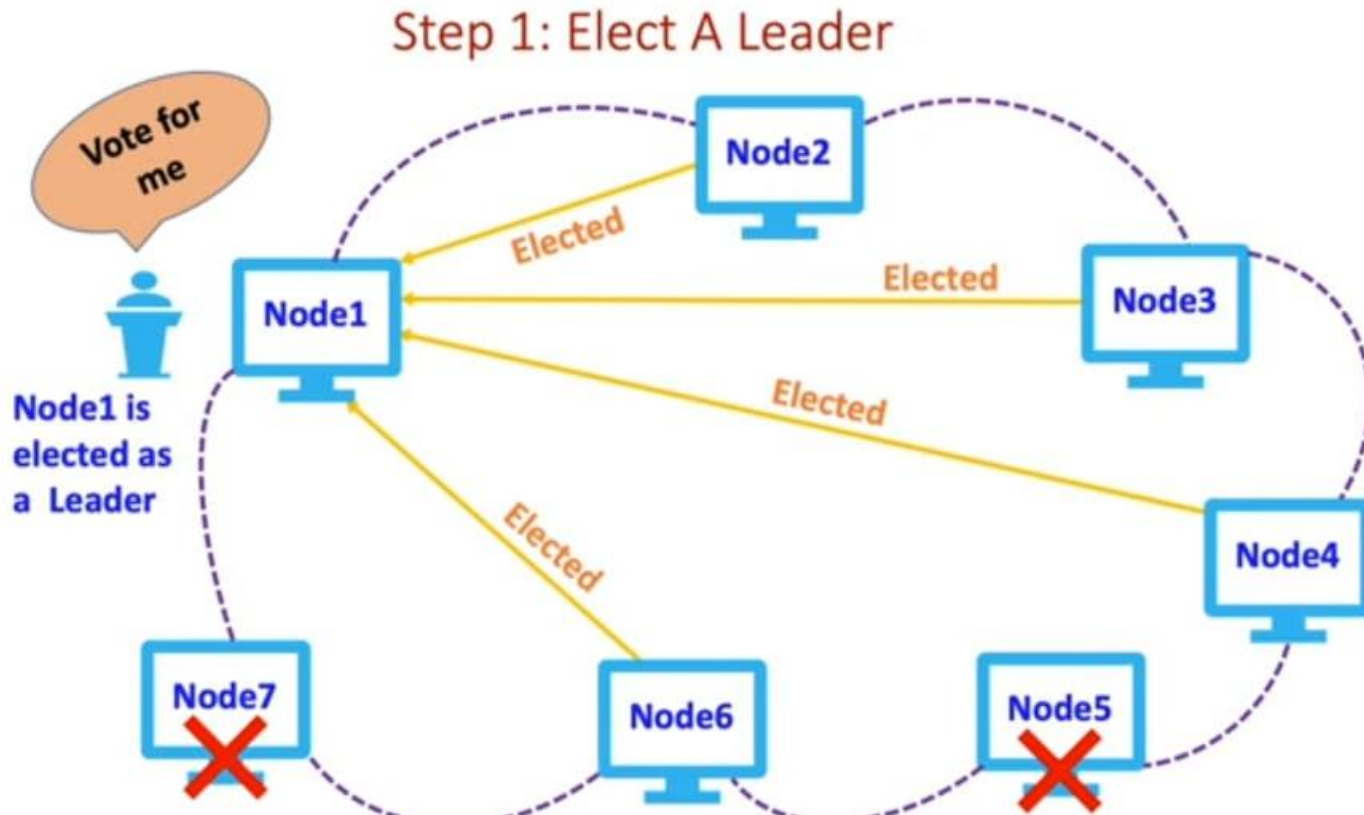
Properties of Consensus



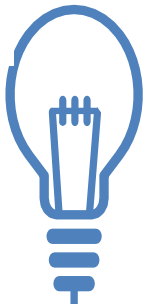
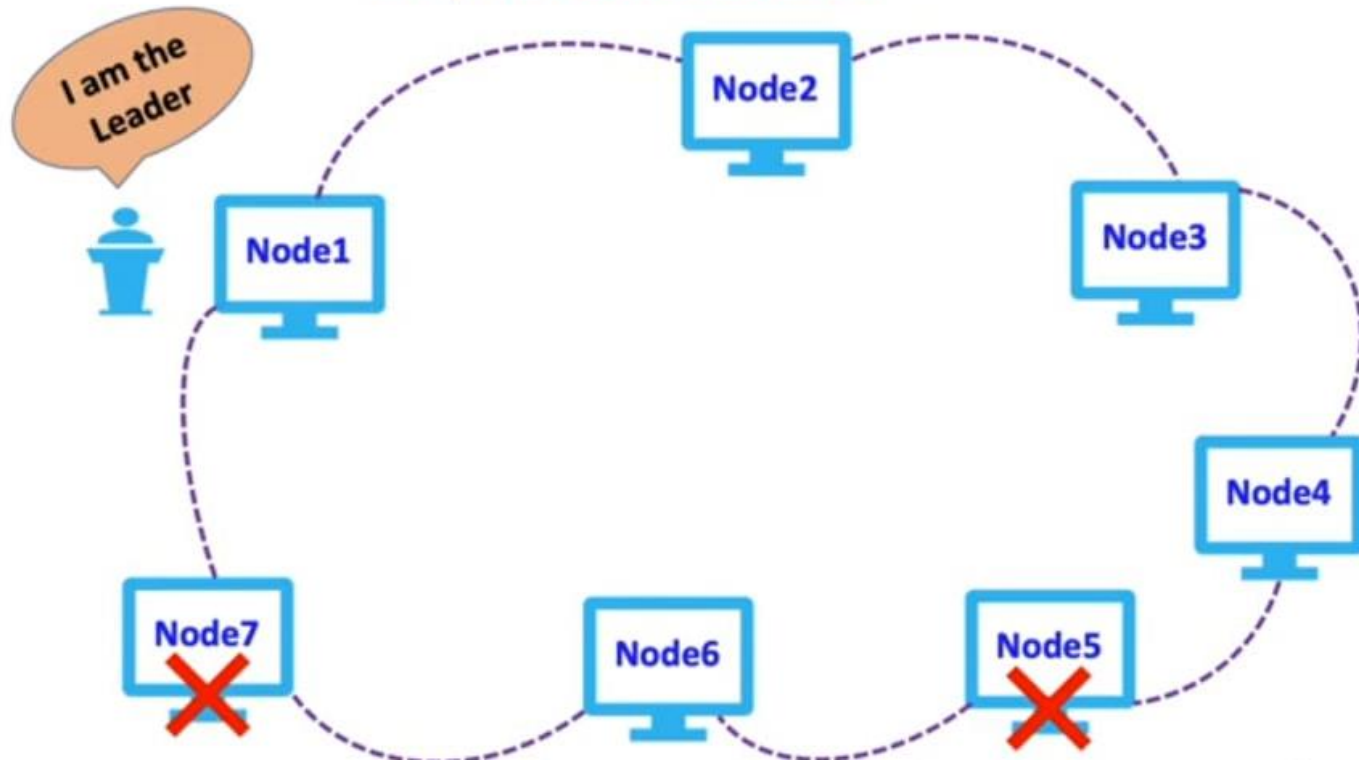
Steps of Consensus Algorithm

- Step 1: Elect A Leader
- Step 2: Propose A Value
- Step 3: Validate A Value
- Step 4: Decide A Value

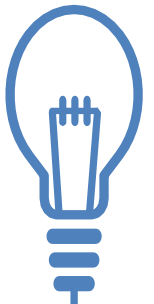
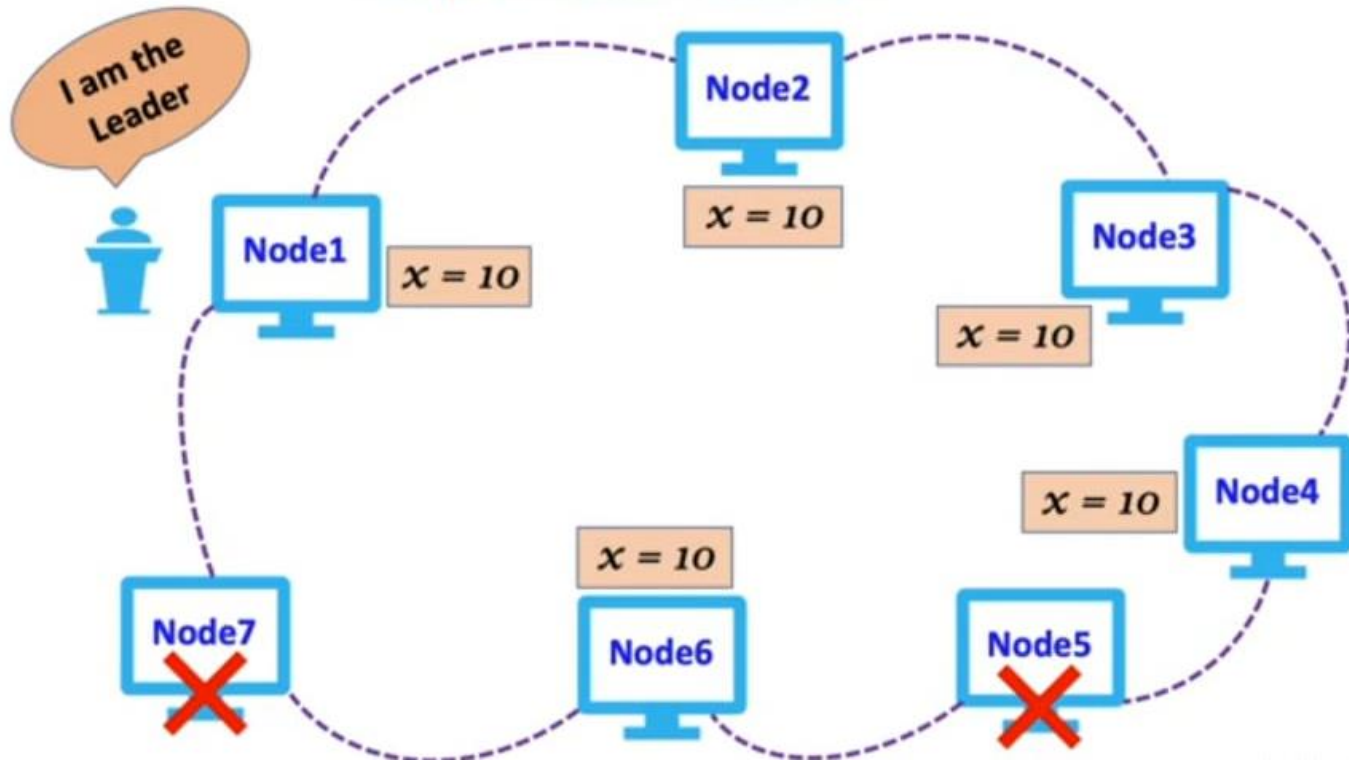




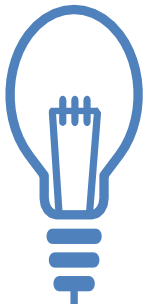
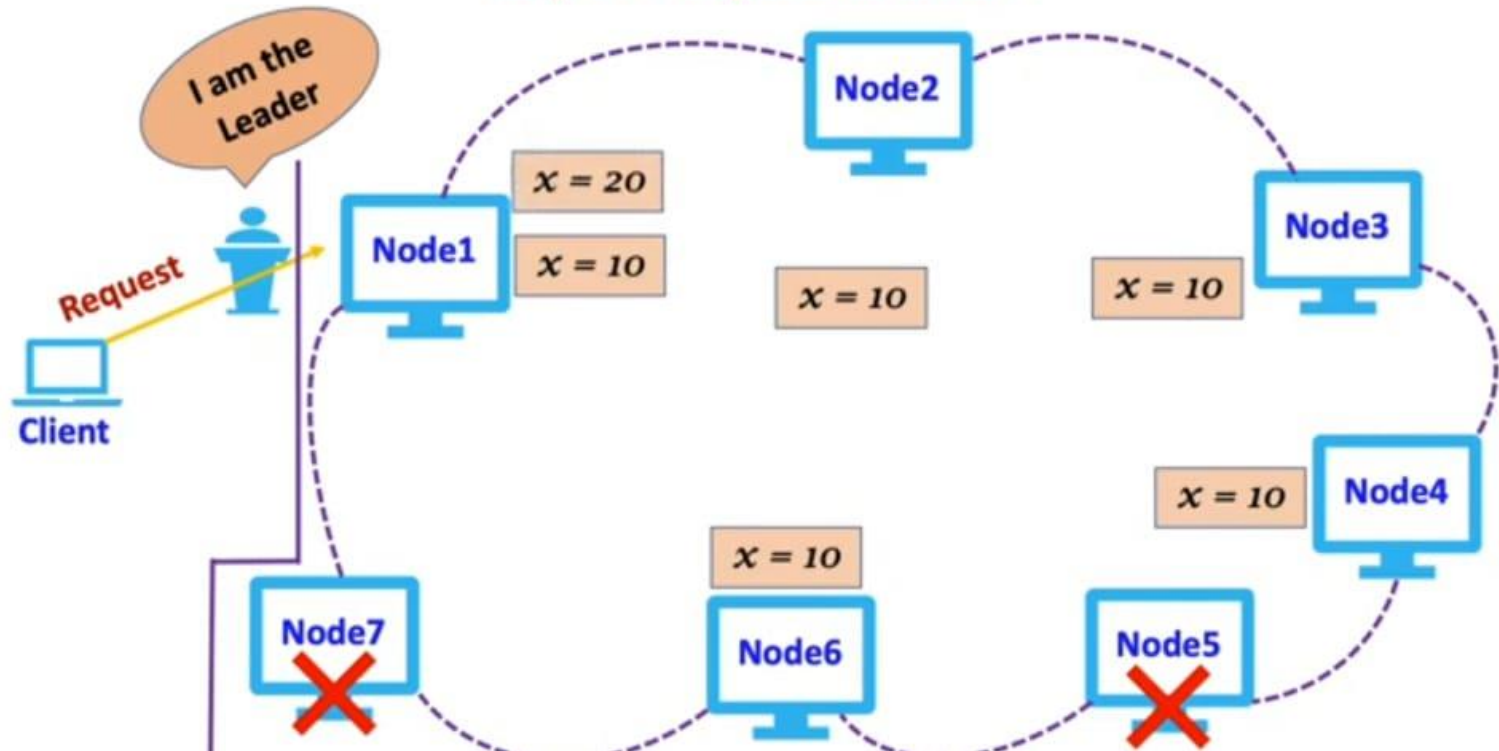
Step 1: Elect A Leader



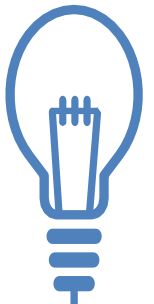
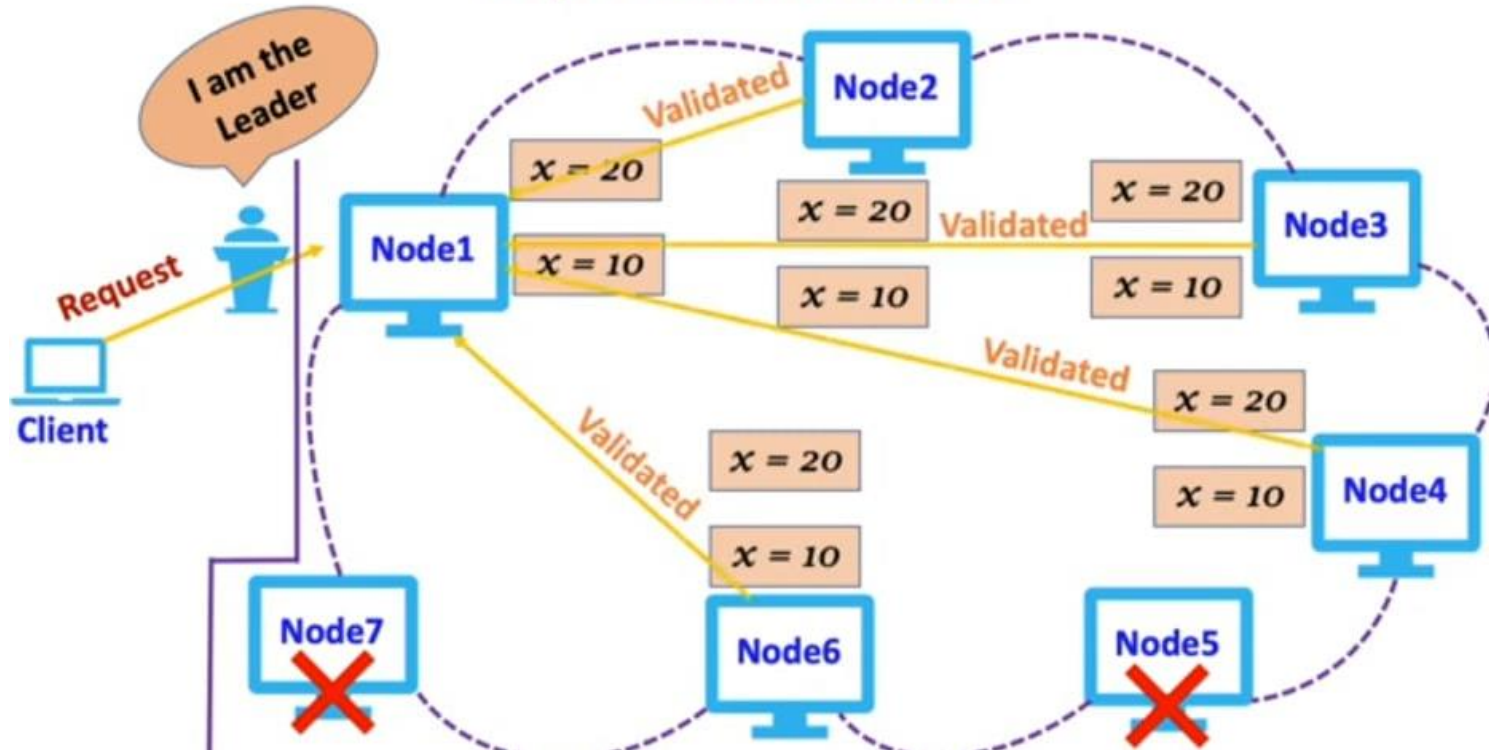
Step 1: Elect A Leader



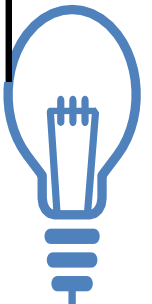
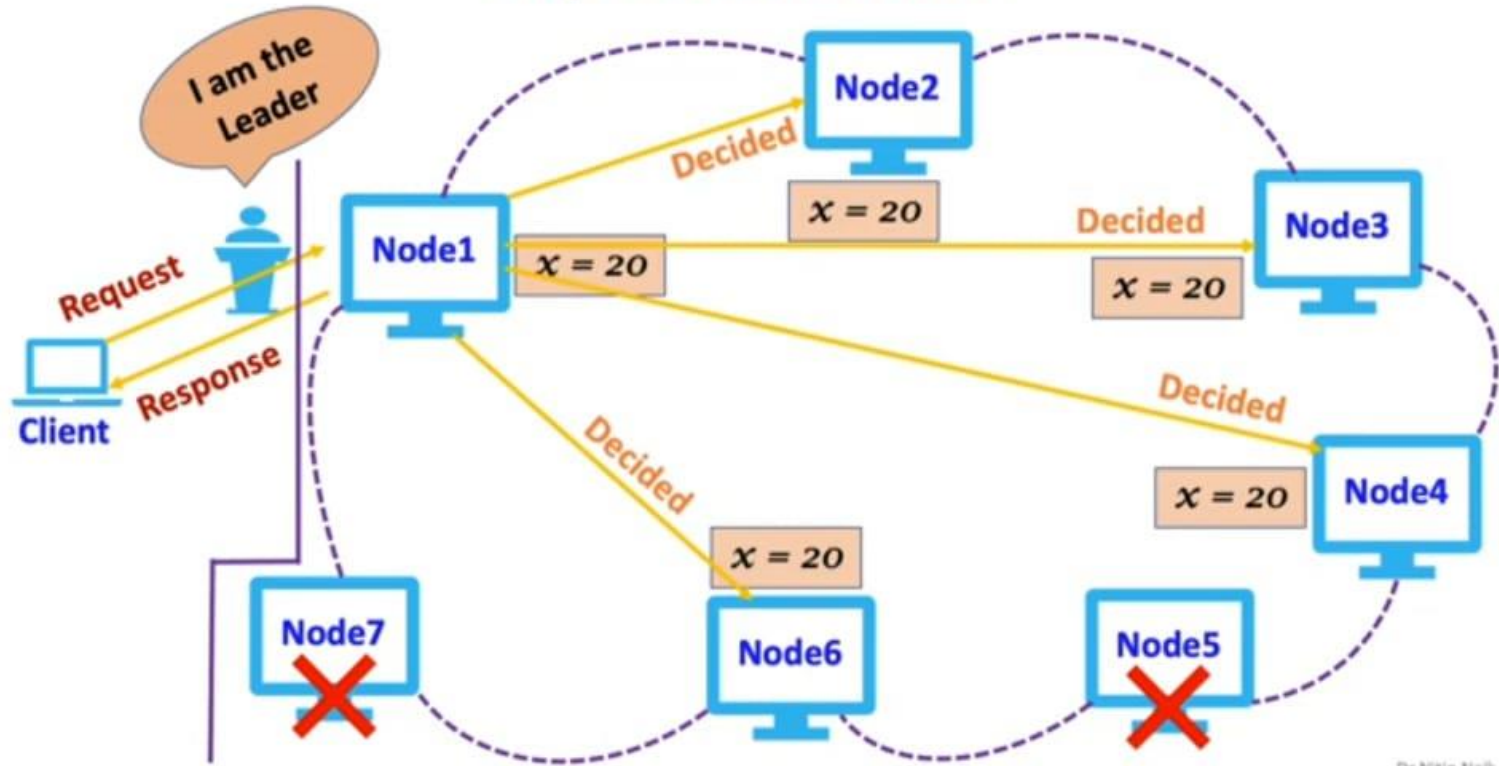
Step 2: Propose A Value



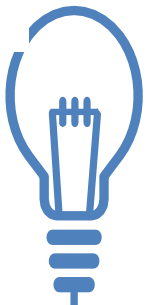
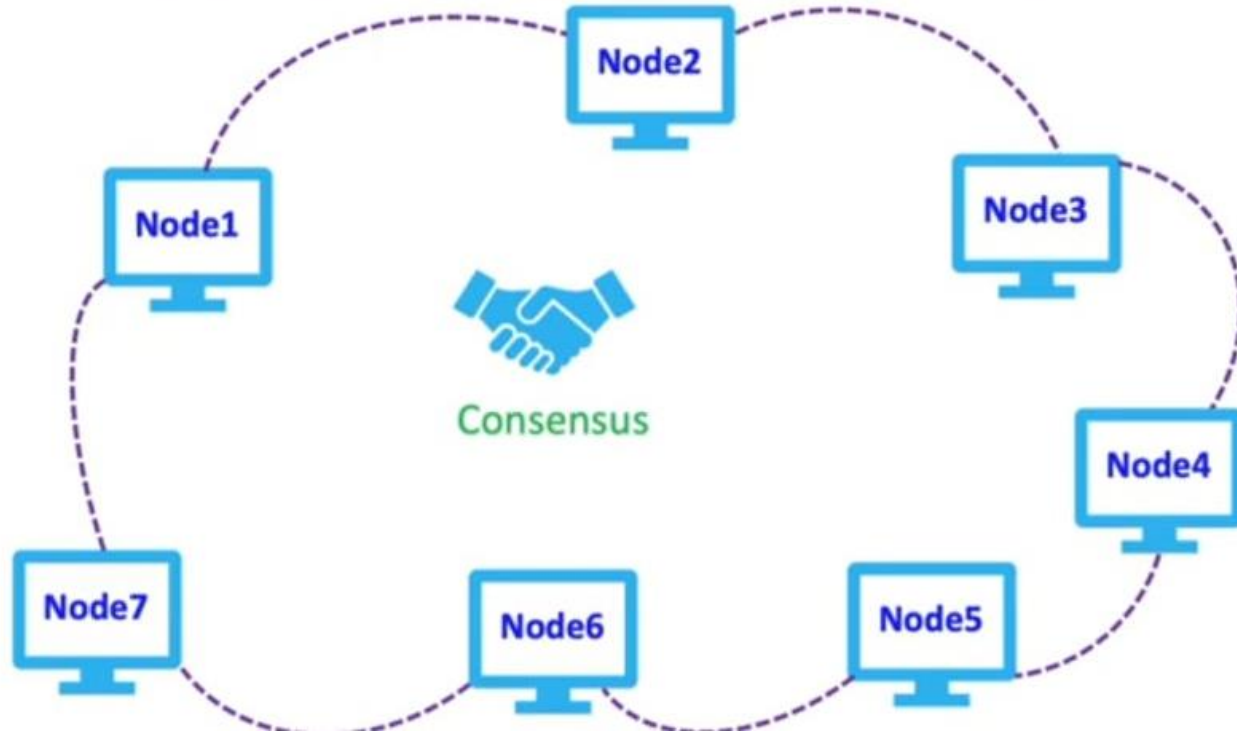
Step 3: Validate A Value



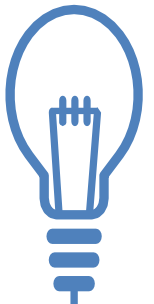
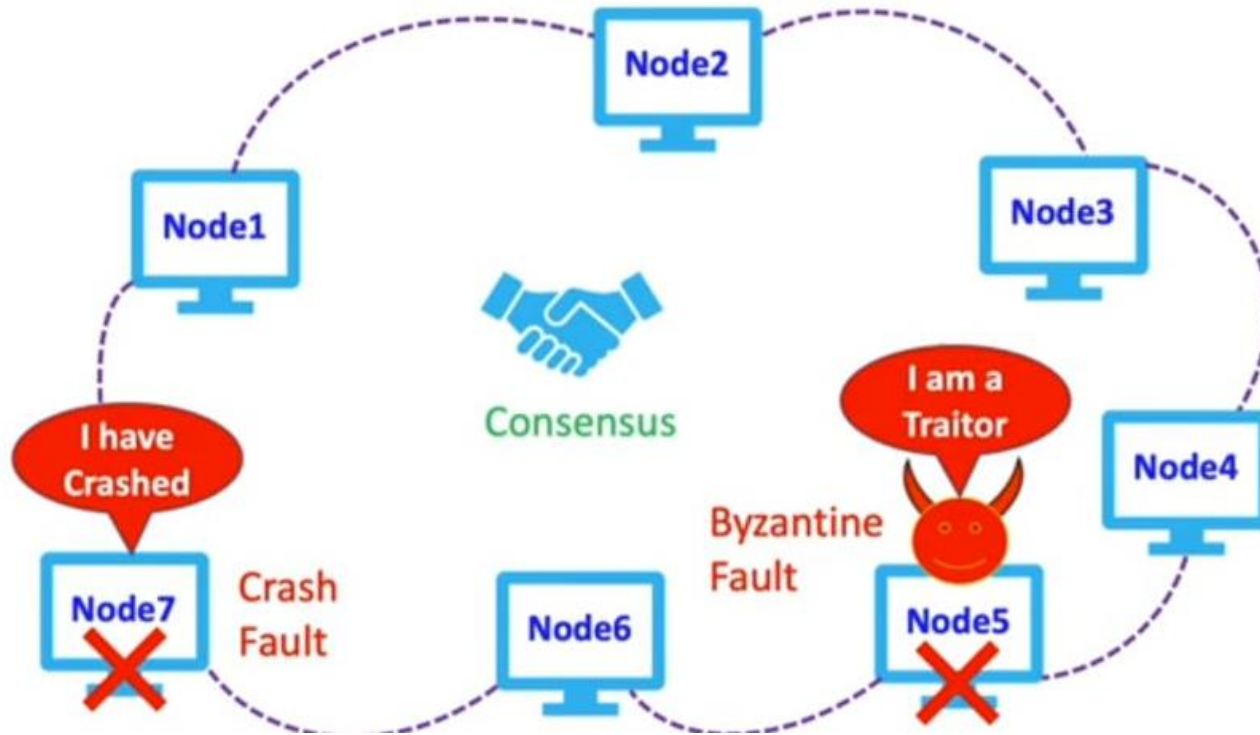
Step 4: Decide A Value



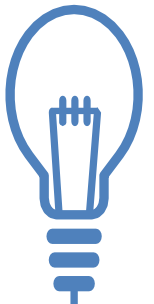
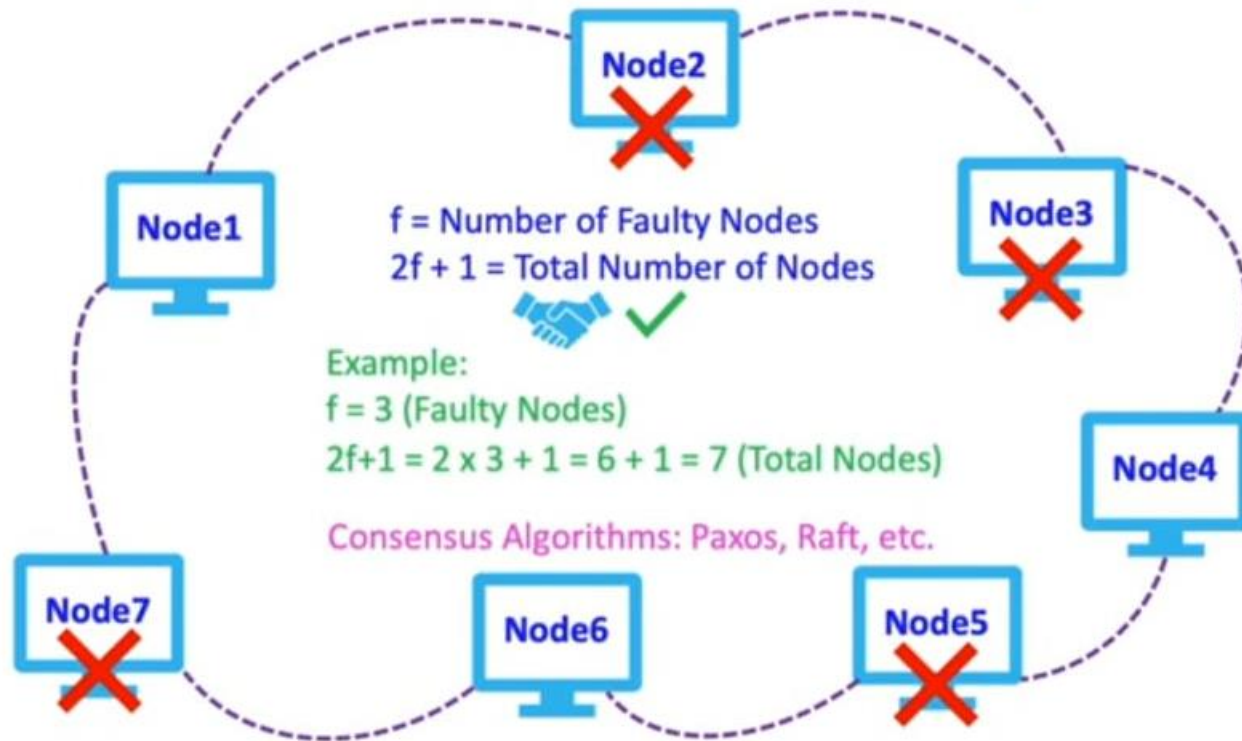
Fault-Tolerance in Consensus Algorithm



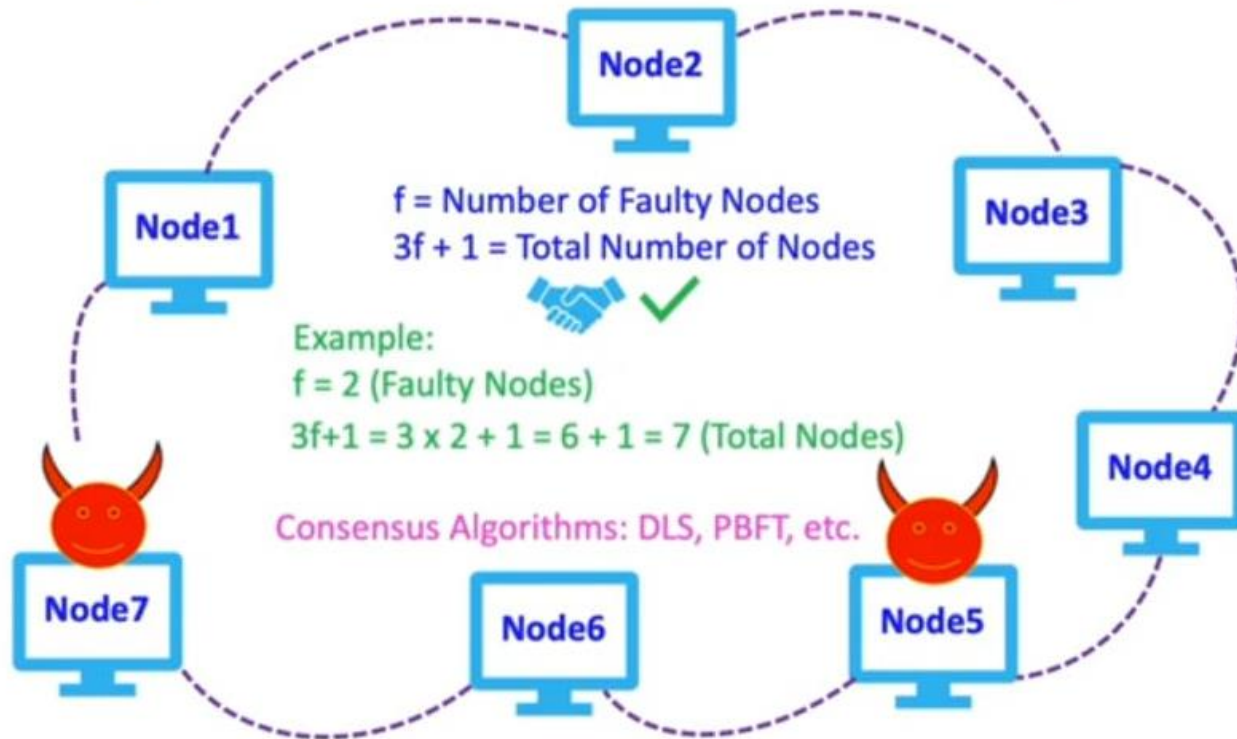
Fault-Tolerance in Consensus Algorithm



Crash Fault-Tolerance in Consensus Algorithm



Byzantine Fault-Tolerance in Consensus Algorithm





THANK YOU!!!

