
# RAFT- Based Consensus

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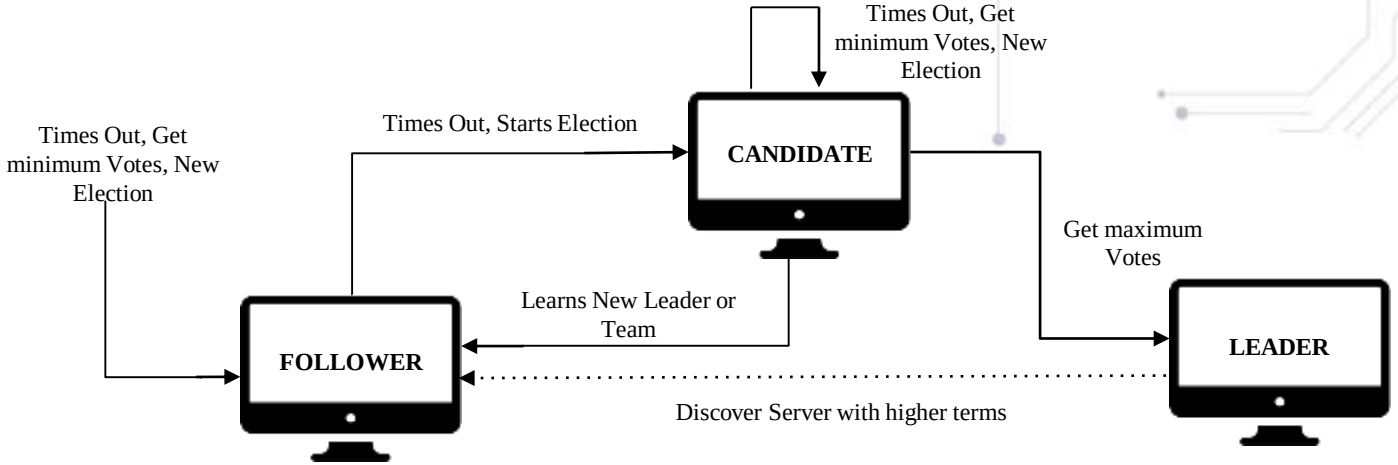
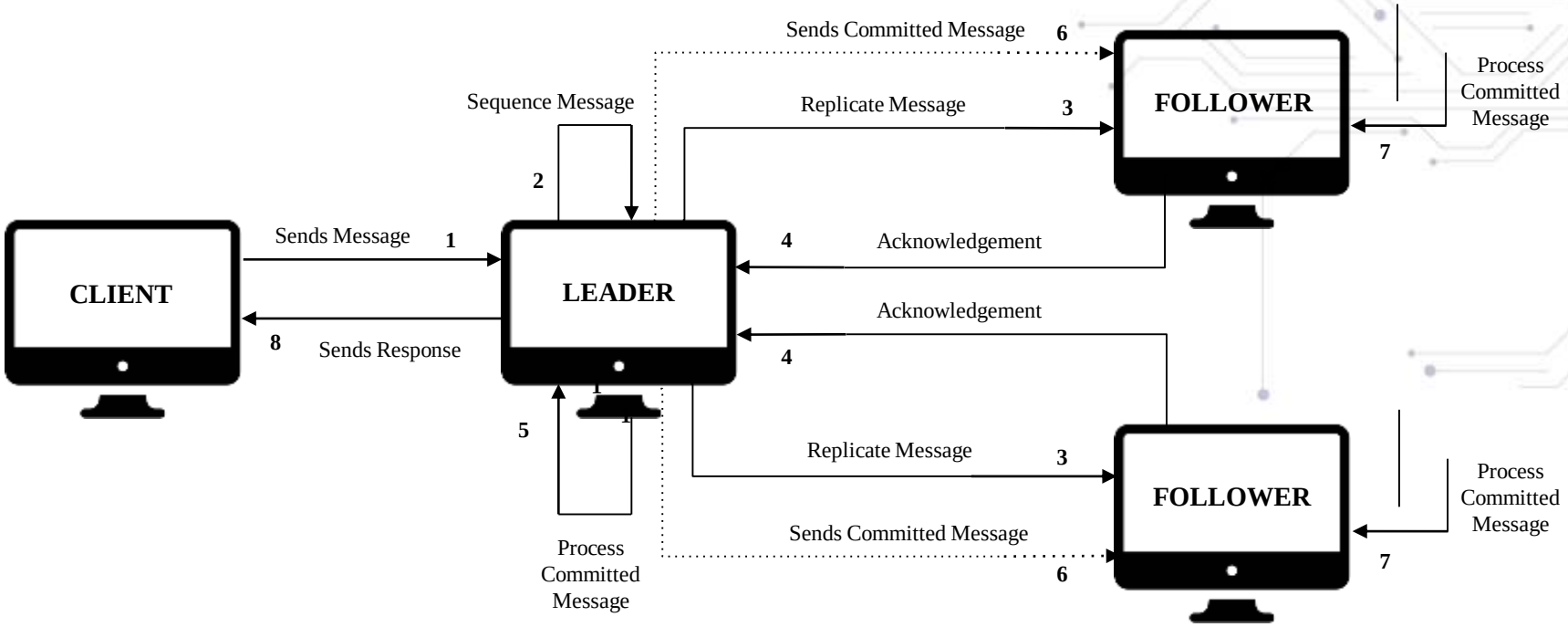
- A distributed consensus algorithm, designed to solve the problem of getting multiple servers to agree on a single shared state.
- It works on the leader-follower model.
- Data flows in one direction, that is from leader to other servers in the network.
- Raft uses two remote procedure calls (RPCs): **RequestVotes** and **AppendEntries.**
- Divides consensus into three sub-problems:
  - **Leader Election.**
  - **Log Replication.**
  - **Safety.**

# Stages of RAFT Consensus Algorithm

- **Follower:** They are passive, issue no requests on their own but simply respond to requests from candidates and leaders.
- **Candidate:** It is used to elect a new leader.
- **Leader:** It handles all client requests.



# RAFT-Based Visualization



# THANK YOU!

**Any questions?**

You can mail us at

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