

Diagram

Token ring diagram

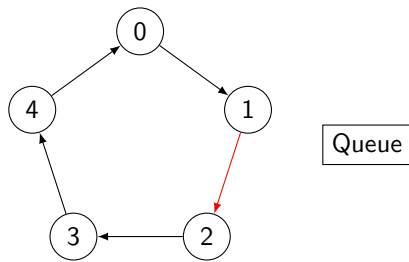


Diagram 1: Executor 1 sends token to executor 2

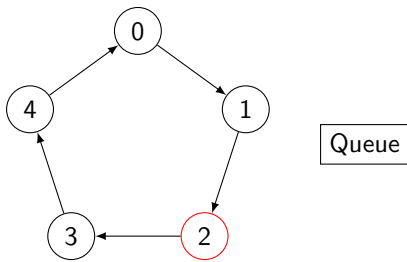


Diagram 2: Executor 2 now holds the token

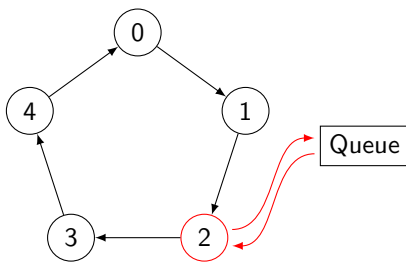


Diagram 3: Executor 2 communicates with the queue

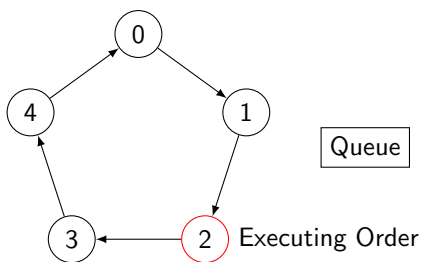


Diagram 4: Executor 2 starts executing the order

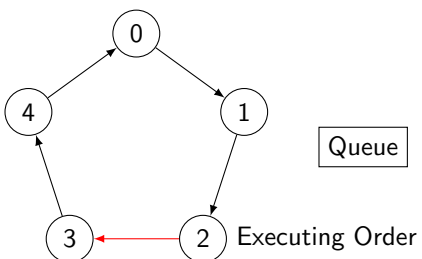


Diagram 5: Executor 2 gives token to executor 3 while continuing to execute the order

Resilience to executor death

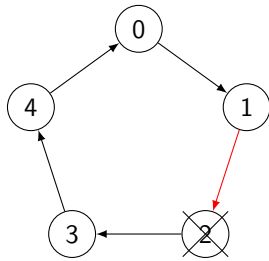


Diagram 1: Executor 1 attempts to send token to executor 2

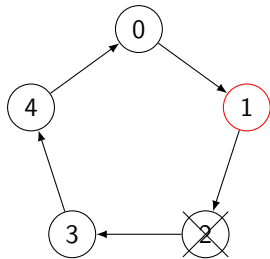


Diagram 2: Executor 1 is unable to contact executor 2

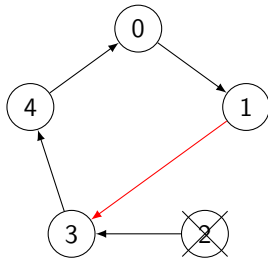


Diagram 3: Executor 1 now starts sending the token to 3

Rejoining the ring

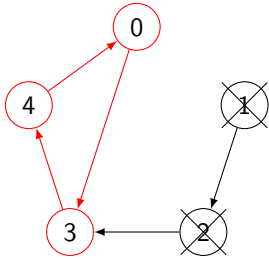


Diagram 1: Executors 1 and 2 are offline and the token moves between 0, 3 and 4

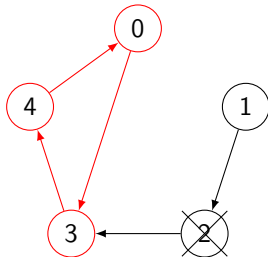


Diagram 2: Executor 1 comes back online

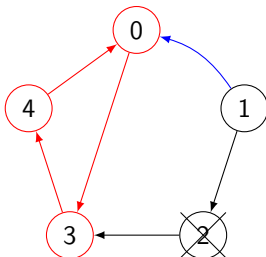


Diagram 3: Executor 1 has not received the token in a while and asks from 0 to be let rejoin the ring

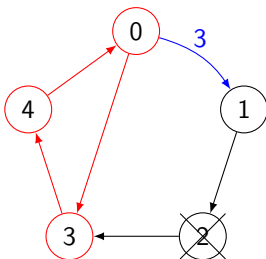


Diagram 4: Executor 0 responds by giving 1 the id of the next active node

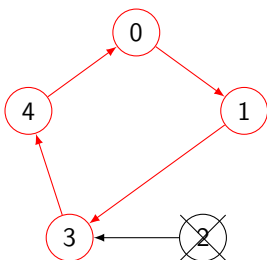


Diagram 5: Now both 0 and 1 know who to send the token to and 1 has rejoined the ring