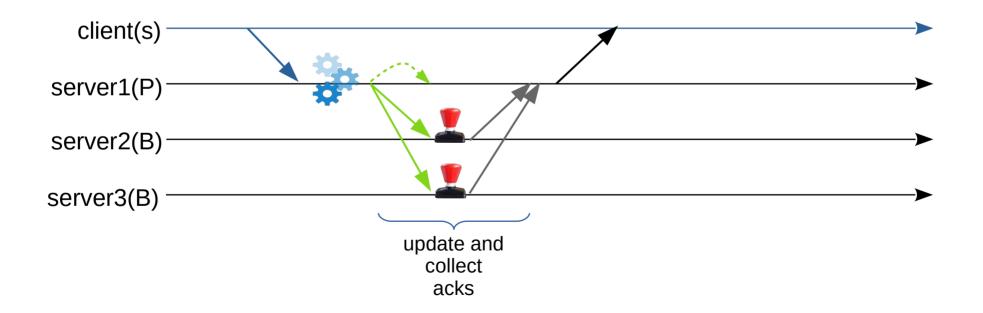
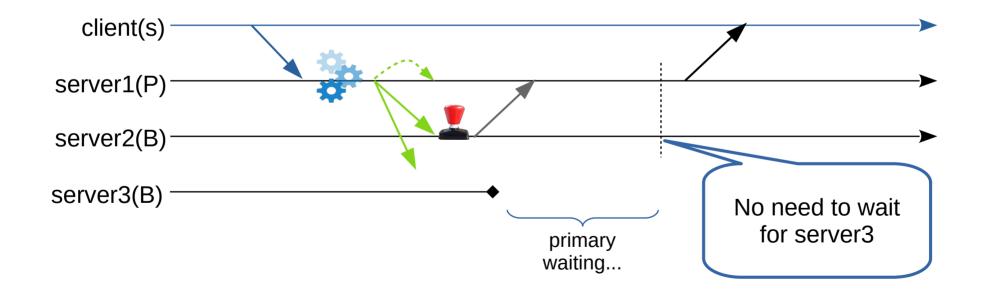
Collect explicit acknowledgments from backup servers:



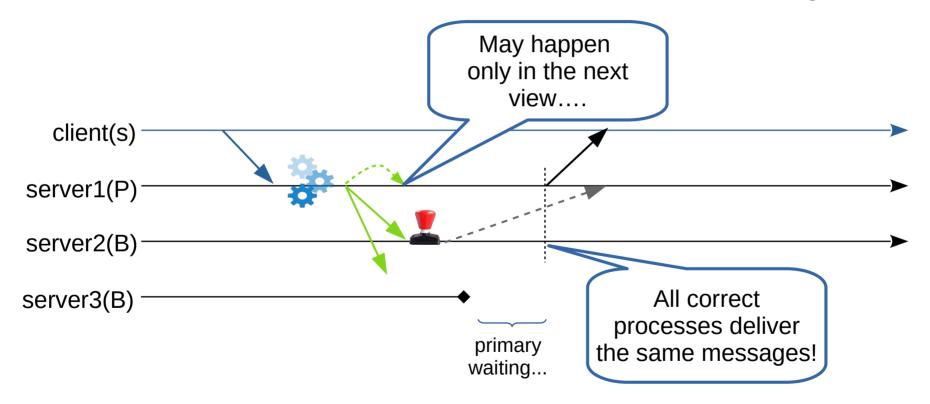
Fault Tolerance

 Use view to stop waiting for acknowledgments from dead processes:



Fault Tolerance 18

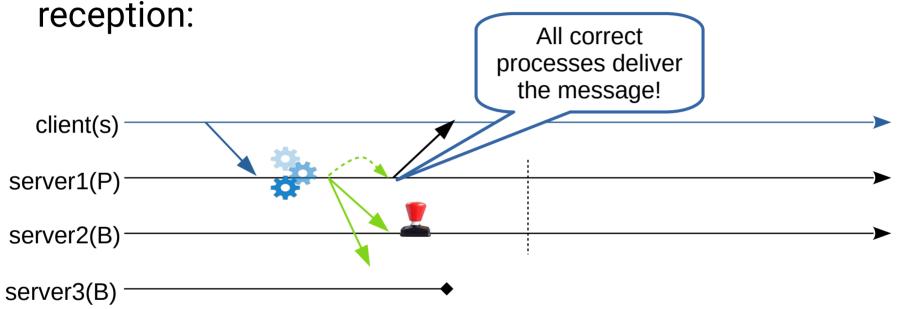
When self-delivered, use view as the acknowledgment:



Fault Tolerance

19

• In fact, with <u>safe</u> messages, self-delivery acknowledges



... but the message may not have been applied. This makes a difference with **crash-recovery** and stable storage!

Fault Tolerance 20