

System Technical Report

Authors

We present APUS, a fault tolerance system that can efficiently replicate unmodified server programs.

1 Architecture

APUS deployment is similar to a typical SMR's: it runs a server program on replicas within a datacenter. Replicas connect with each other using RDMA QPs. Client programs are located in LAN or WAN.

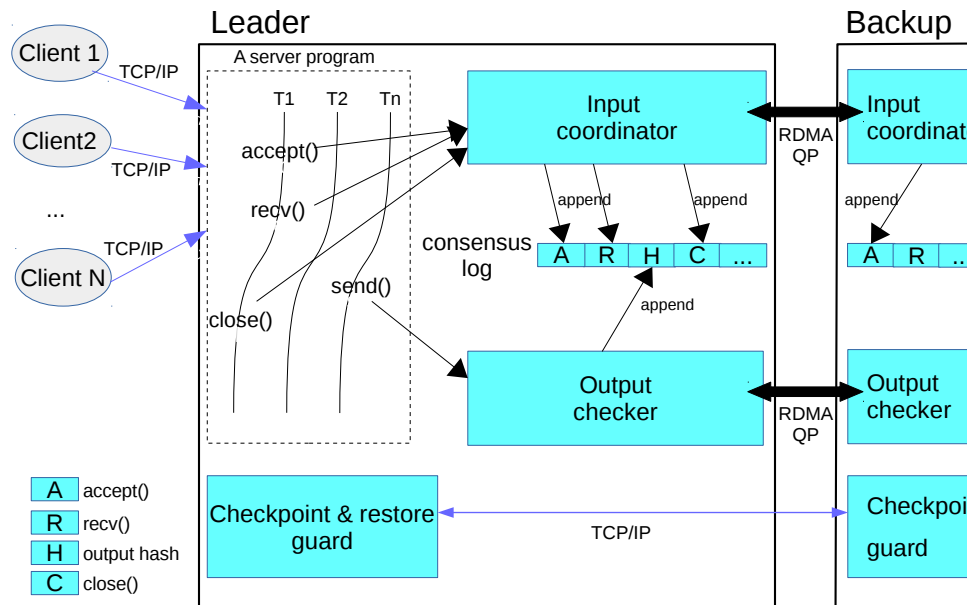


Figure 1: APUS Architecture (key components are in blue).

2 Protocol

References

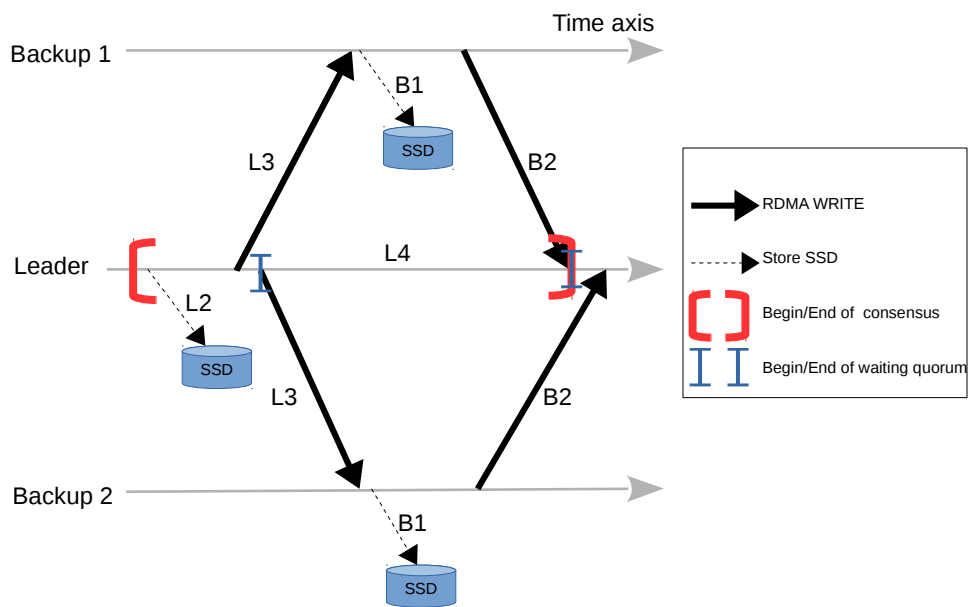


Figure 2: APUS consensus algorithm in normal case.