

## Session 2: Fault Tolerance and Security

# Ensuring consistency in the face of failures and attacks

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### Abstract

Services are expected to ensure consistency, i.e., always/eventually the last written value is read. Fault tolerance ensures consistency even in the case of failures. If we permit adversaries that can roll back time, ensuring consistency with traditional fault tolerance mechanisms alone is not possible anymore. We show how to protect the consistency of services in case of failures and adversaries with root access on all machines.