

VENUS

Verification for Untrusted Cloud Storage

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Cloud Overview

- Advantages:
 - Scalability/availability
 - Pay-on-demand
 - Minimizing in house infrastructure
- Challenge:
 - Security
 - Privacy
 - Integrity
 - consistency

Where does this work fit?

- Addressing integrity and consistency of data – approaches:
 - From within the clouds
 - From **Outside** the clouds
- Venus assures
 - **Integrity**: a data object read by any client is previously written by another client (protection against malicious provider)
 - **Consistency**: allowing multiple clients to access data concurrently in a consistent fashion
- Goals:
 - Clients dynamics
 - Clients do their operation independently
 - No additional trusted component needed
 - Works on normal cloud commodity