

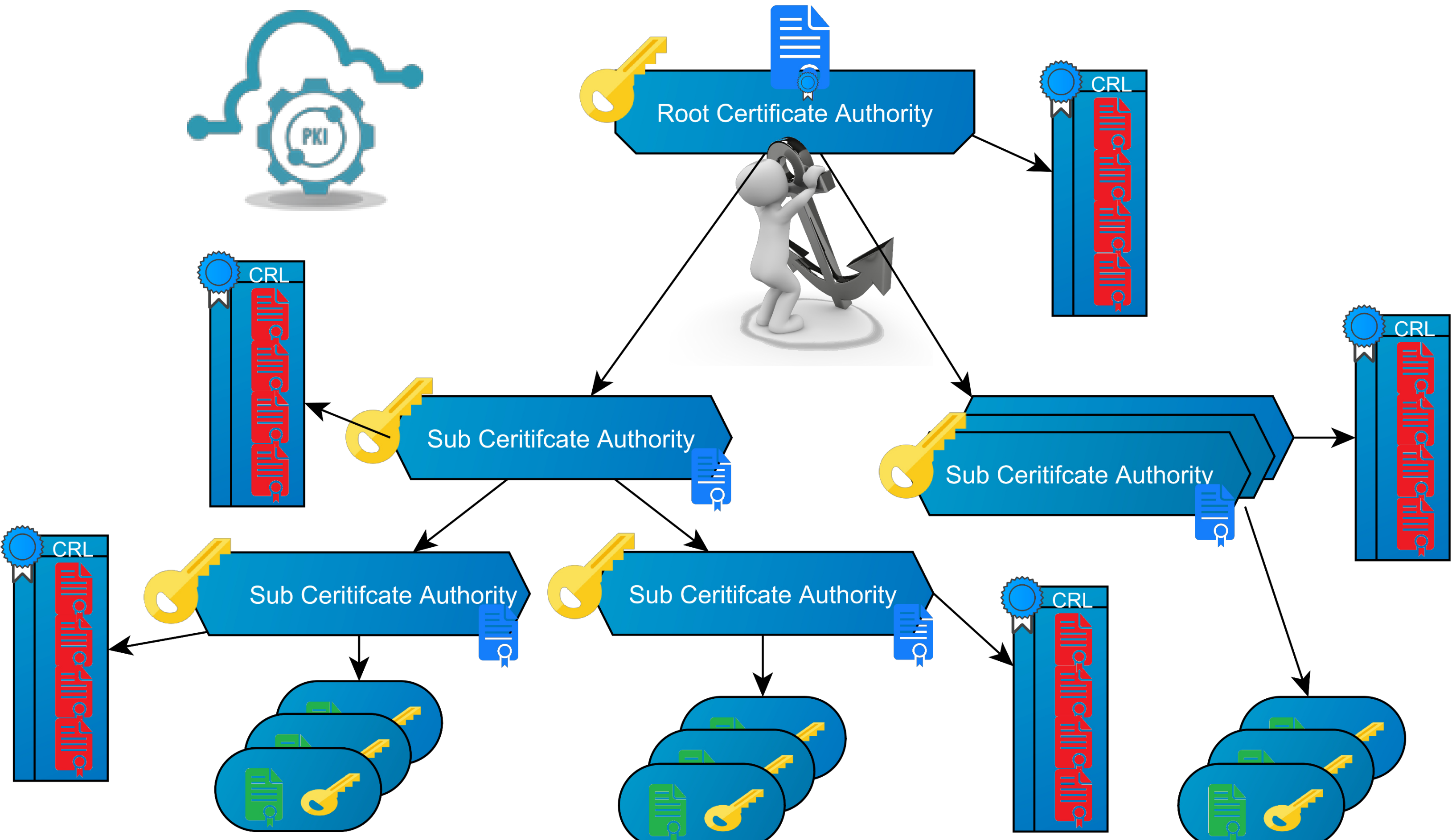
# The Metrology Cloud: Trust

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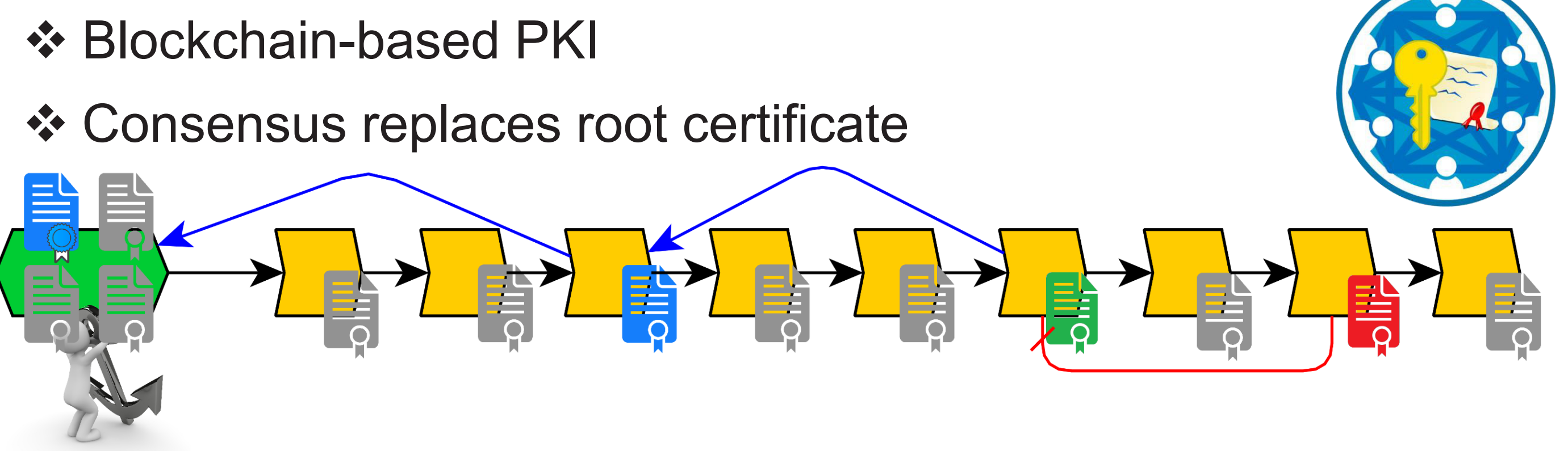
## Data Security and Public Key Infrastructure

### Public Key Infrastructure



### Usage

- ❖ Smart contracts
- ❖ Distributed ledgers i.e. for logging
- ❖ Secure user authentication and communication
- ❖ Confidential data exchange between nodes
- ❖ Digital document signing

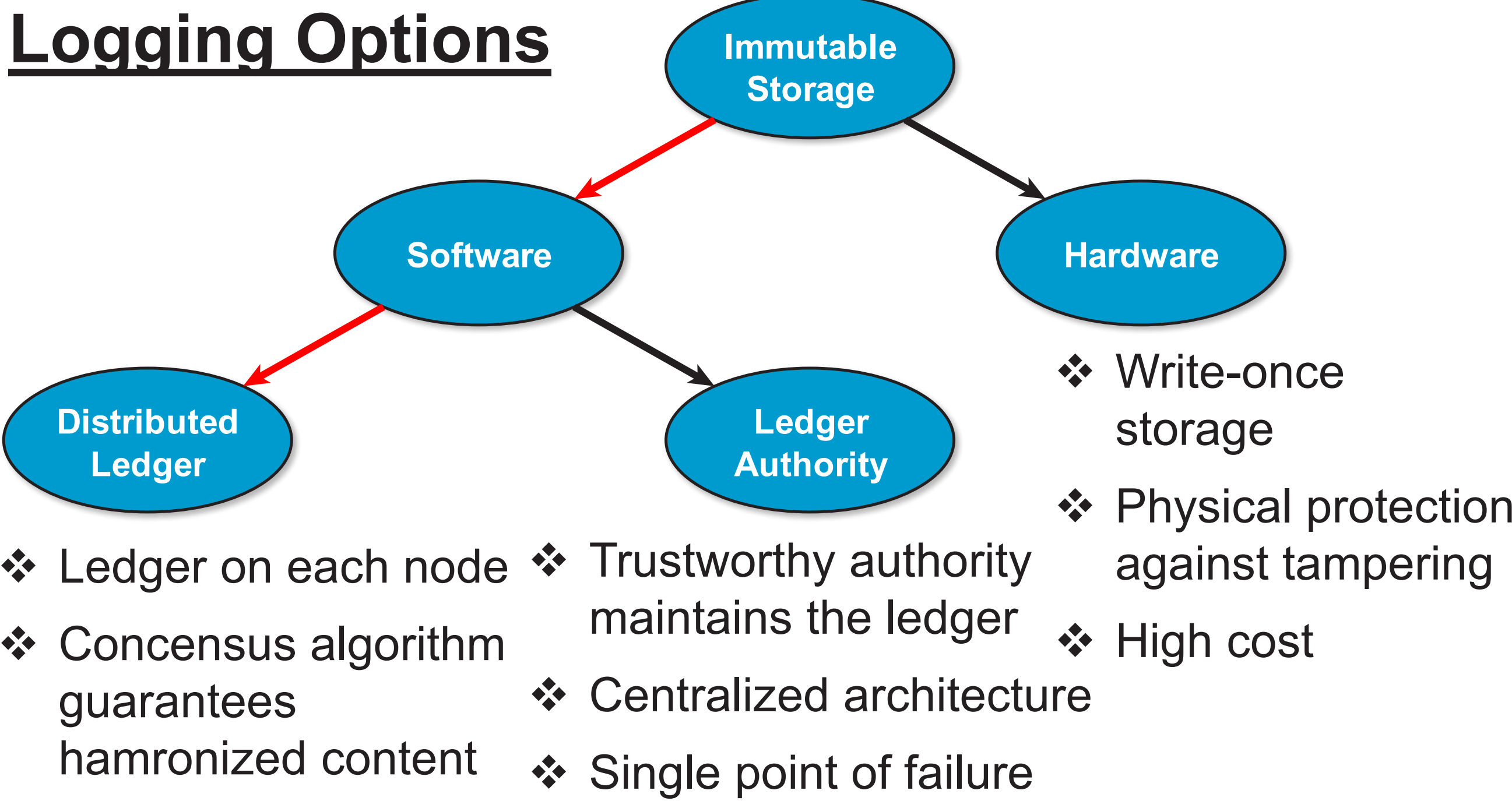


## Traceability and Logging

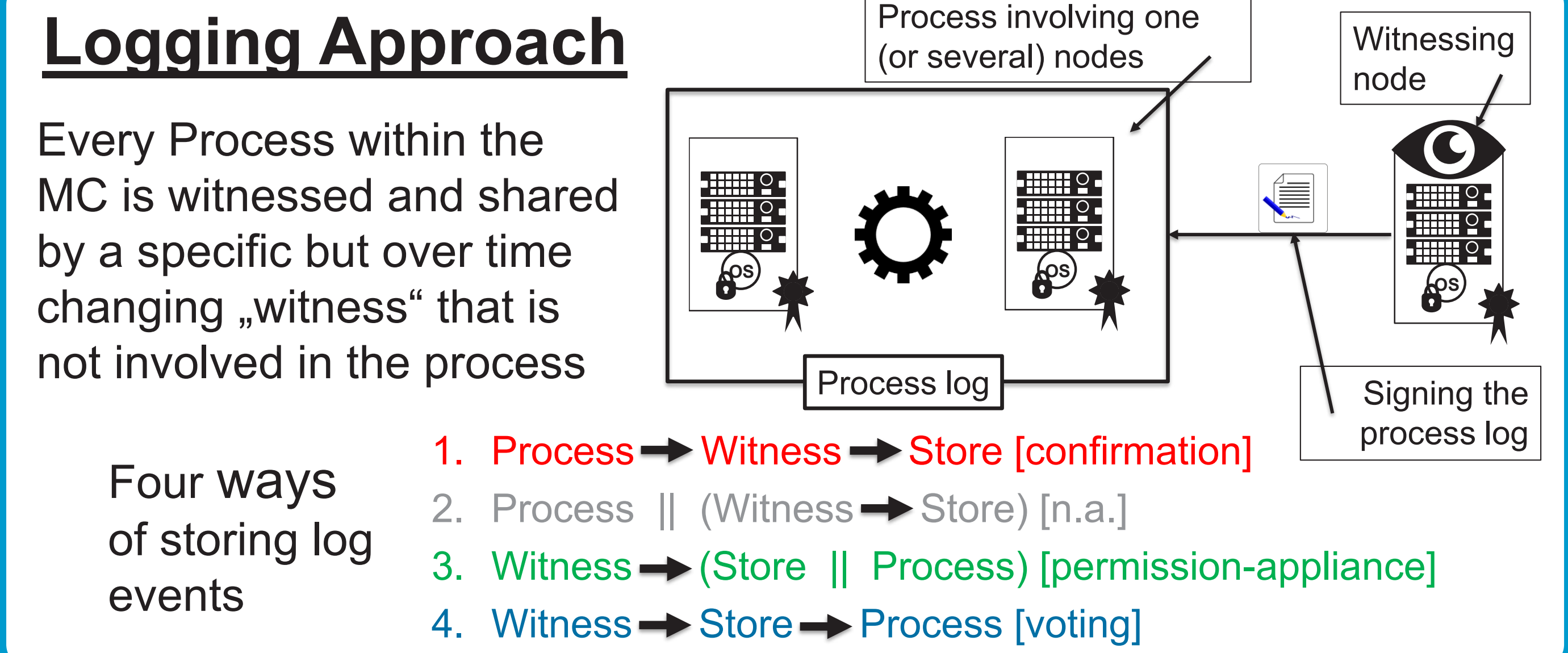
### Requirements

- ❖ Trace changes on data
- ❖ Immutable log
- ❖ Replication of log data
- ❖ No data leaking by log

### Logging Options

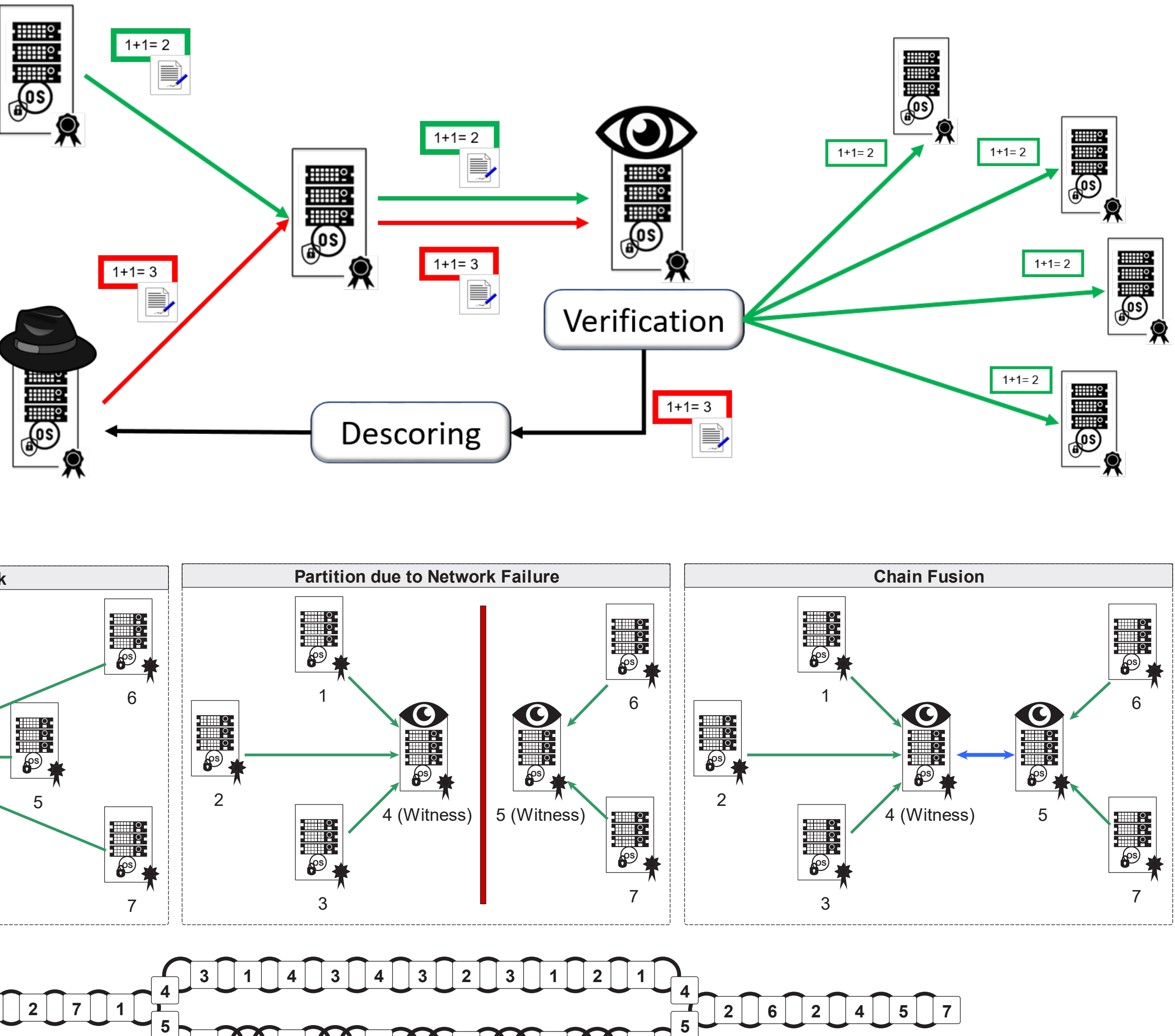


### Logging Approach

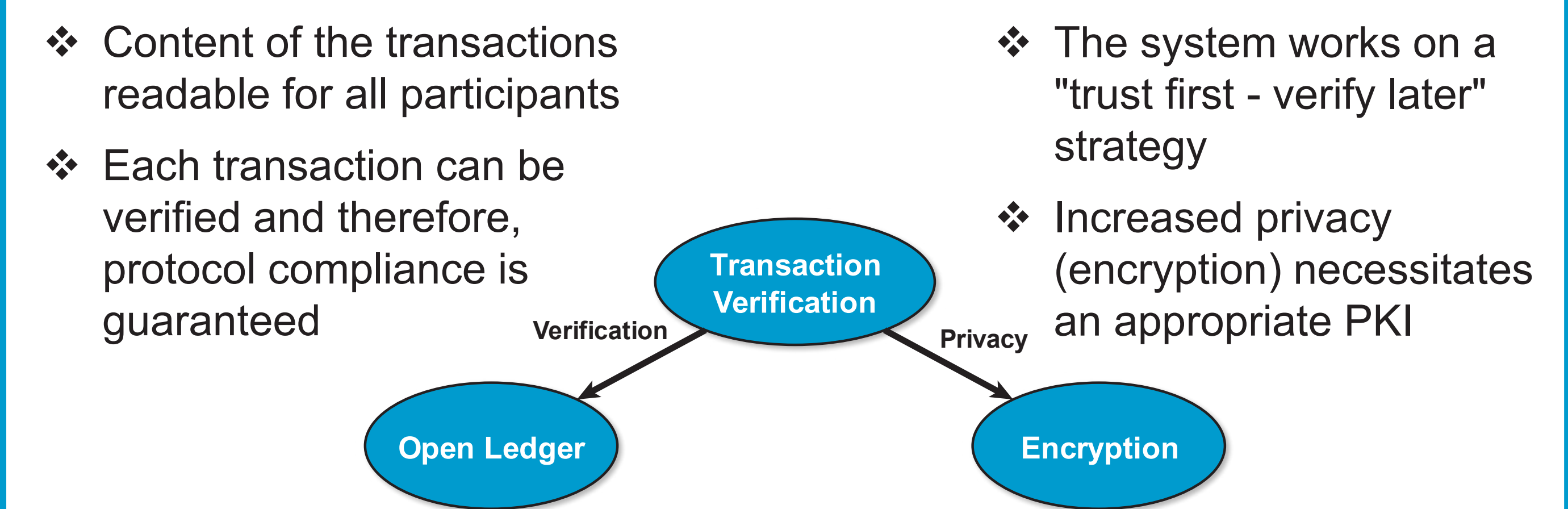


### Reliability Assurance

- ❖ Availability of logging service is crucial
- ❖ Logging needs to be robust against network faults and misbehaving nodes



### Privacy/Anonymity vs. Verifiability



### 2-step Hybrid Verification Approach

