

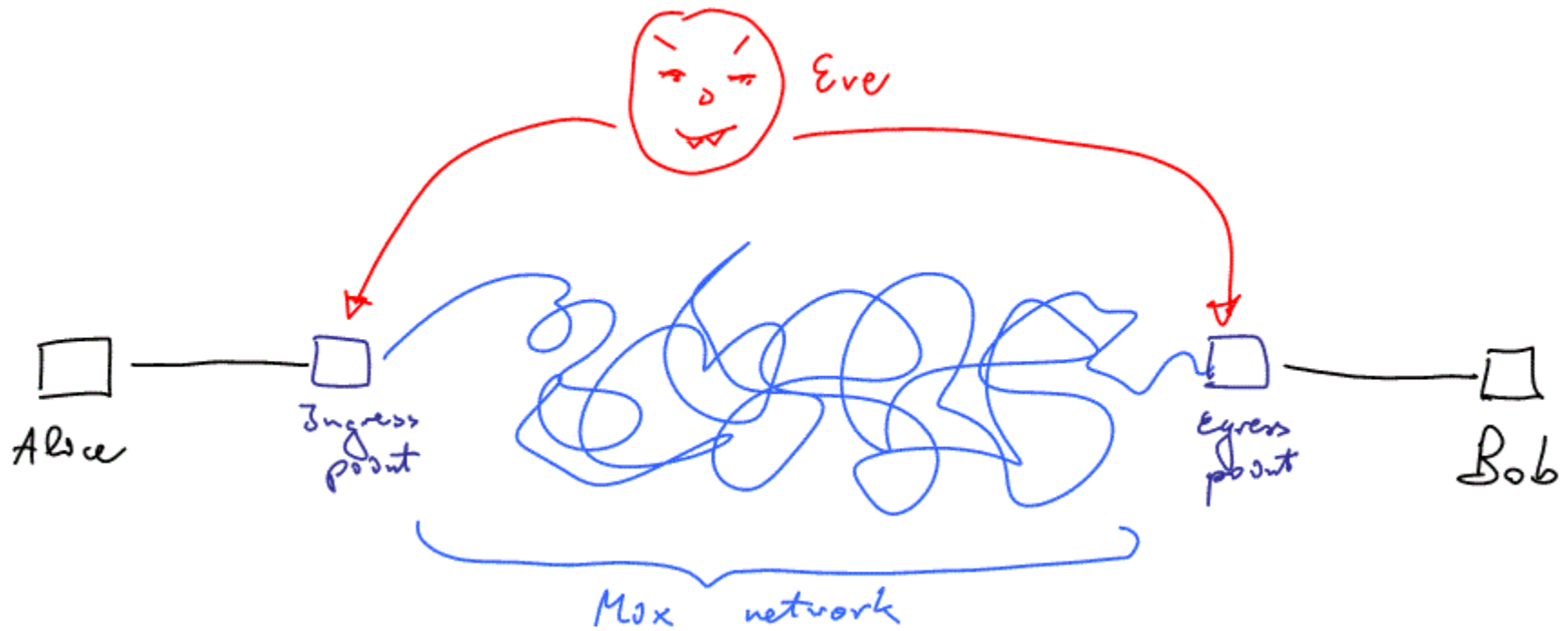


Using Dust Clouds to Enhance Anonymous Communication

18th International Workshop on Security Protocols
March 24th-26th 2010, Cambridge, UK

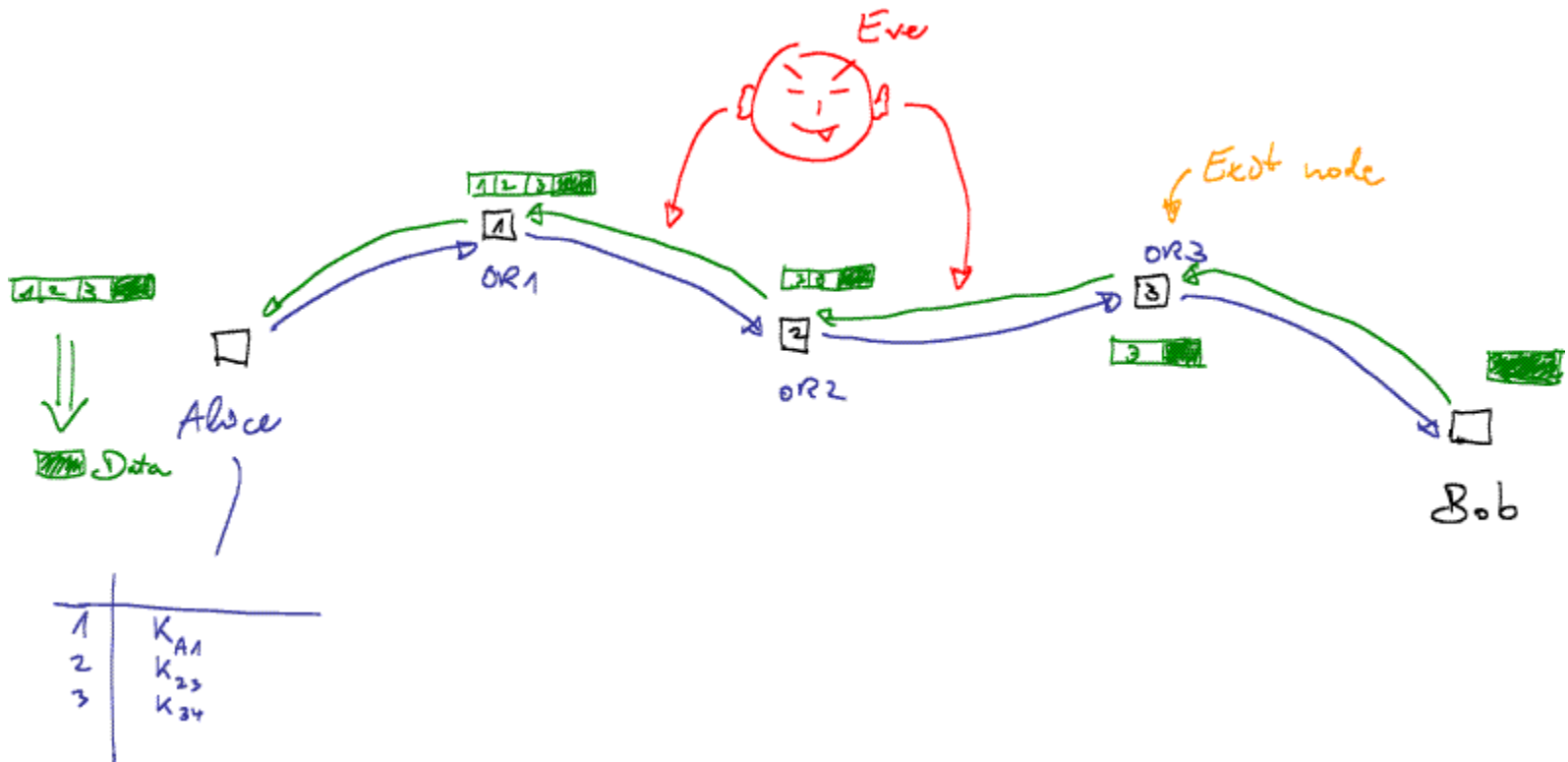
Malte Schwarzkopf

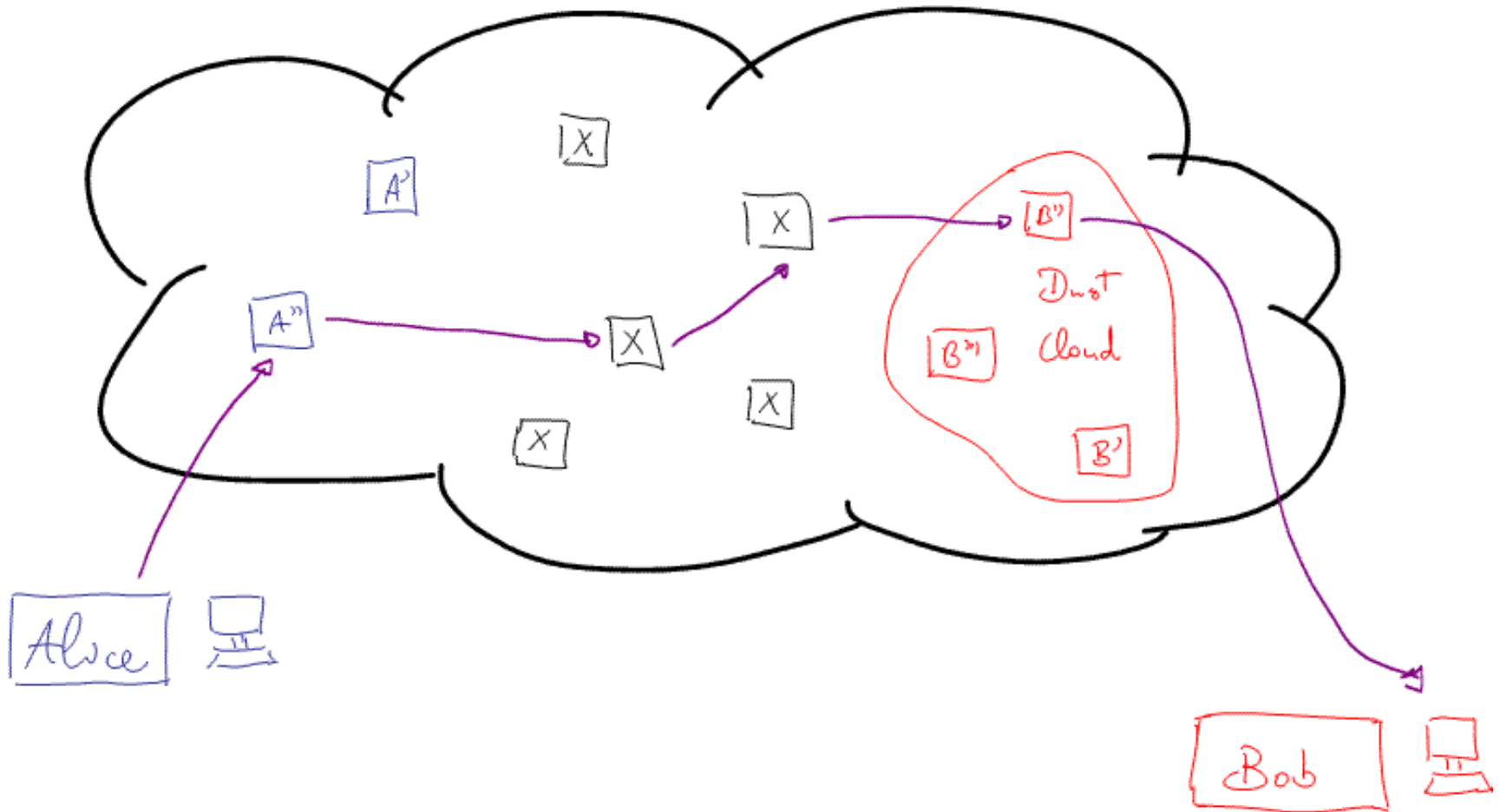
with Richard Mortier, Anil Madhavapeddy, Theo Hong, Derek Murray



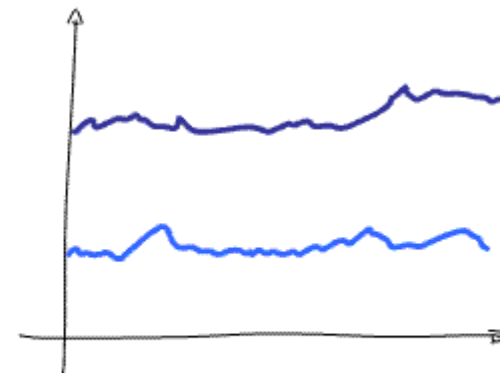
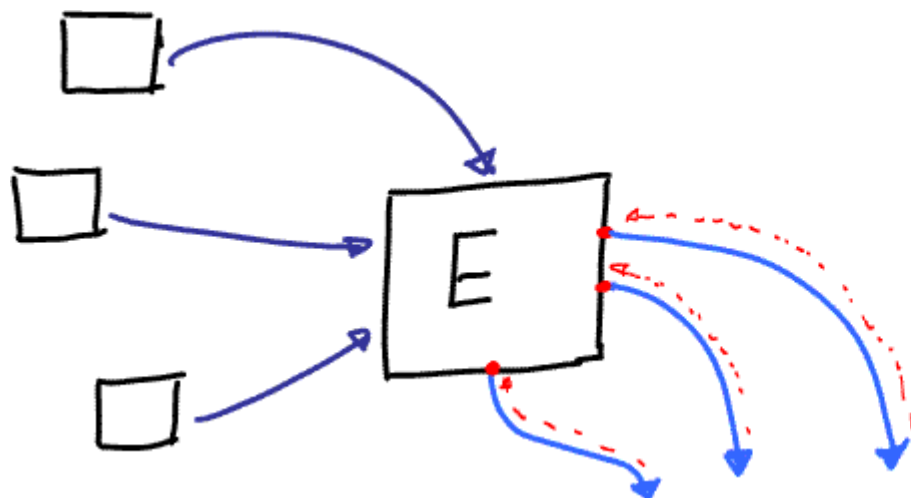
Tor

or the anatomy of an onion

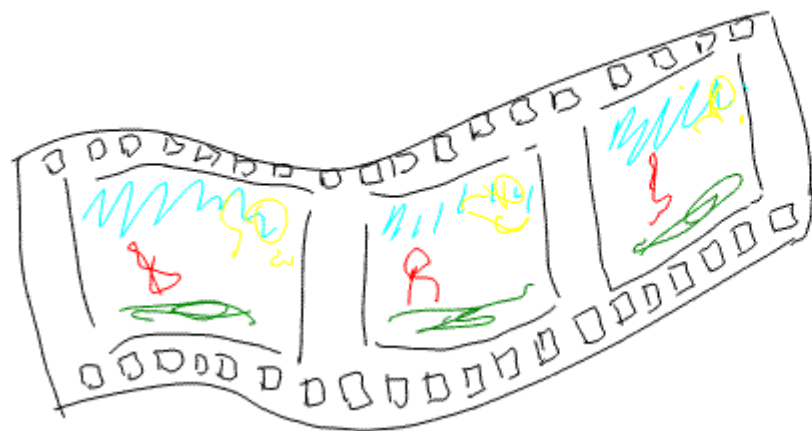




Scarcity of Exit Nodes



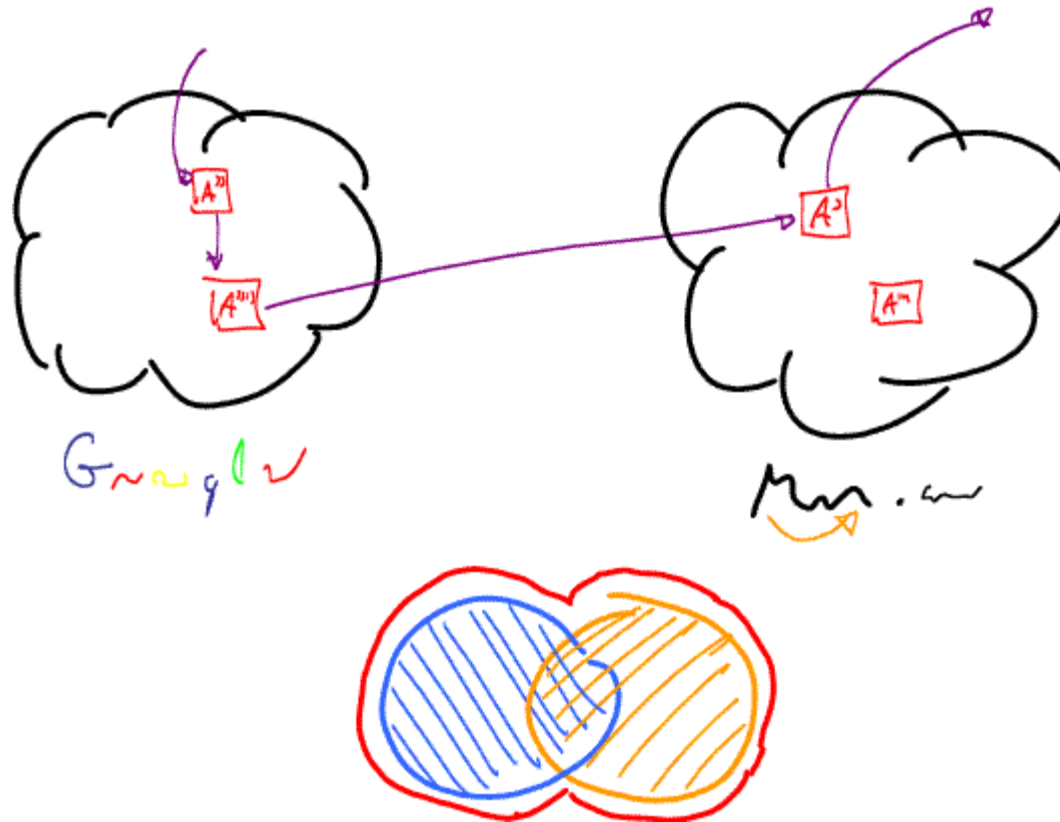
Long-lived transfers & Timing Attacks



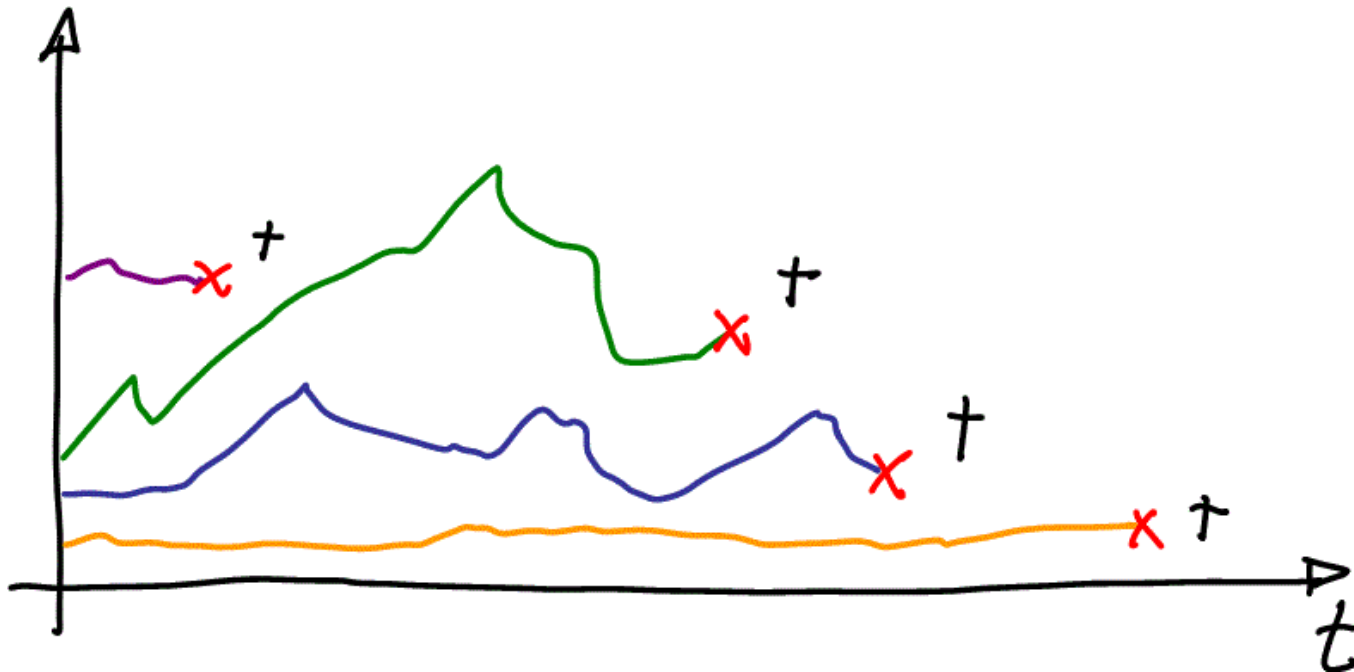
Constant padding



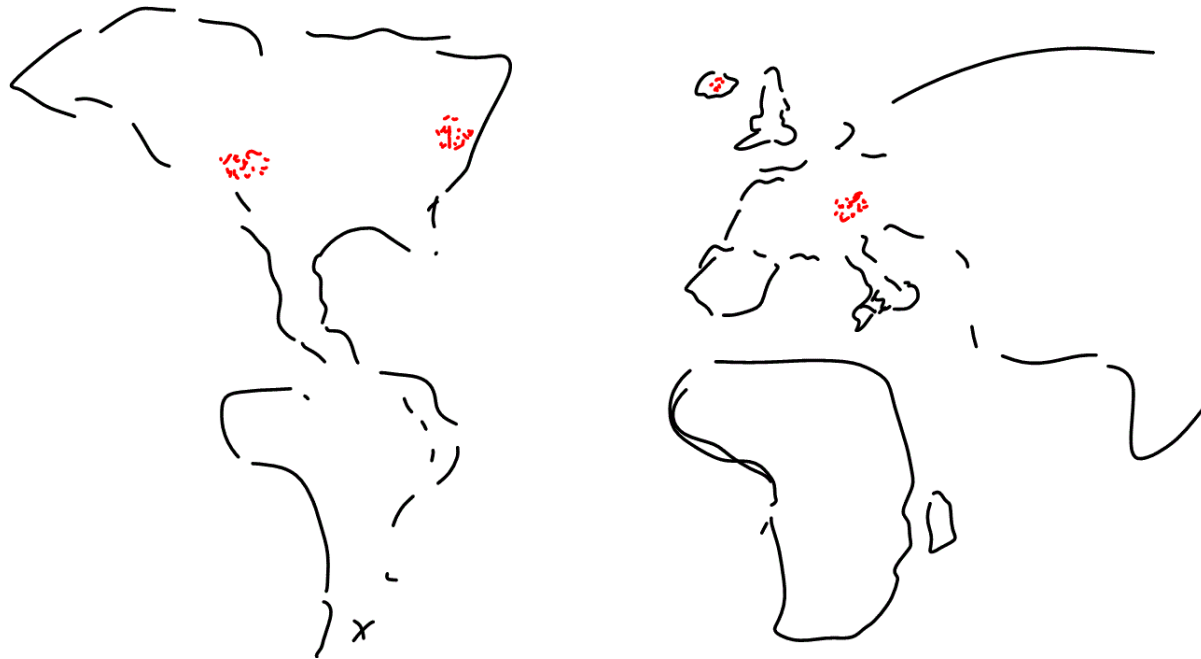
Heterogeneous Dust Mote Placement



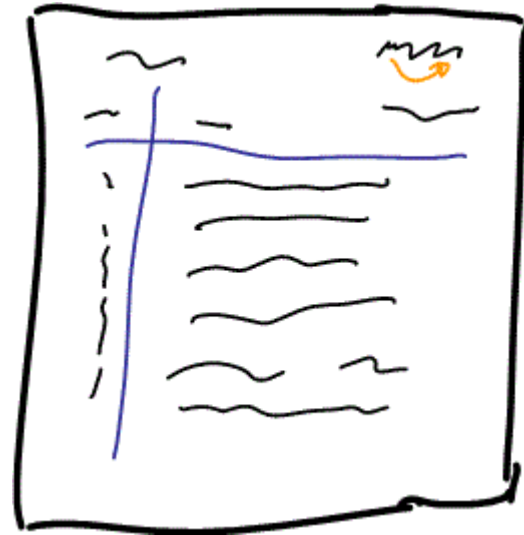
1. Longevity of Nodes



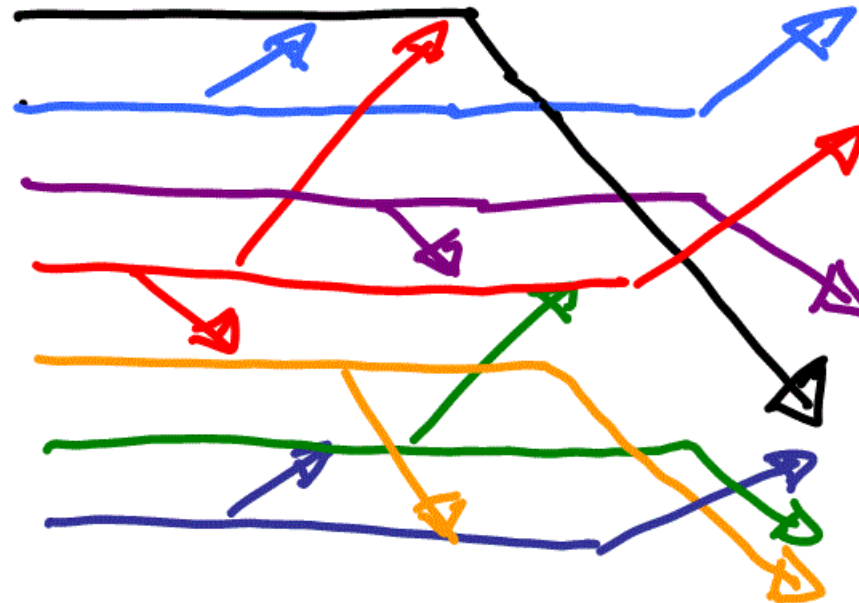
2. Provider & Geographic Diversity



3. Billing (records)



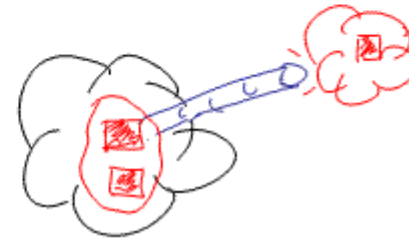
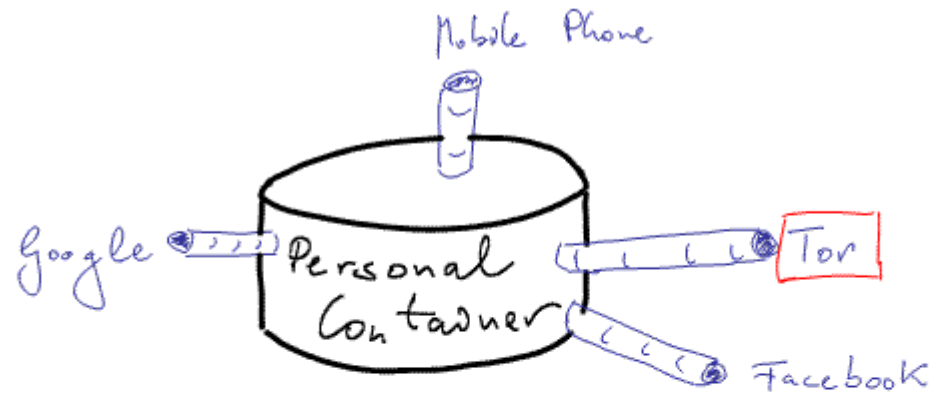
4. Traffic Mixing



5. Attack by the Cloud Provider



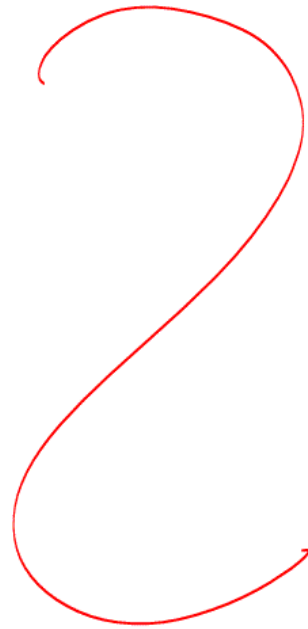
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Discussion

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