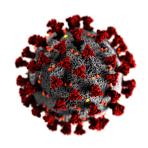
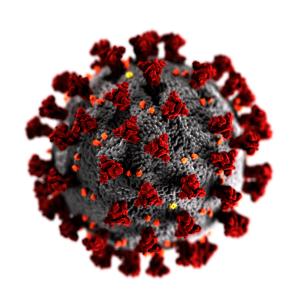
# Replay, Relay and Inverse-Sybil Attacks on Proximity Tracing Apps

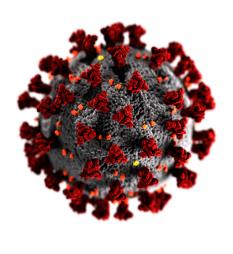


Krzysztof Pietrzak









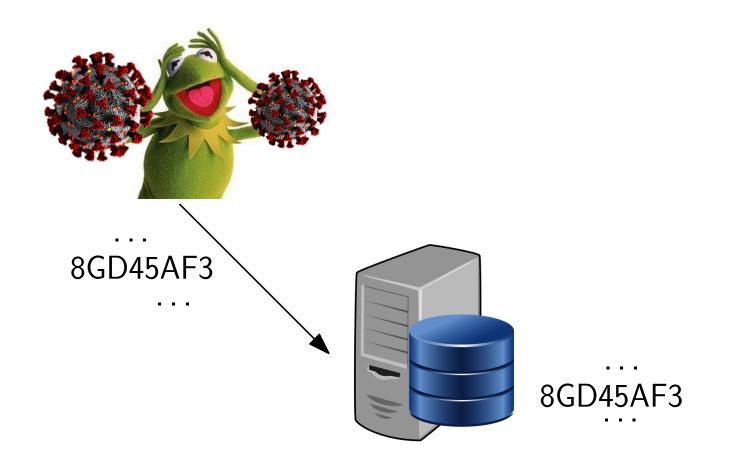
2020 Eurocrypt Rump Session, May 13th, Living Room

# Proximity Tracing



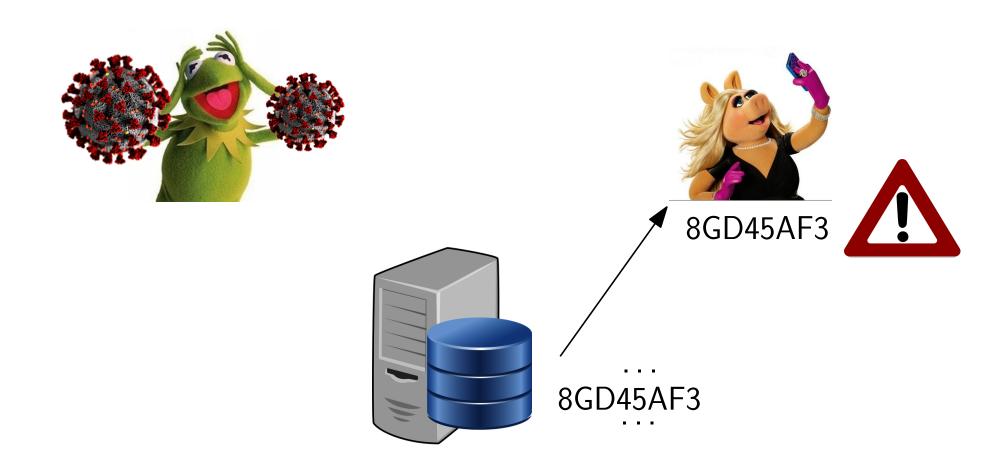
# Proximity Tracing



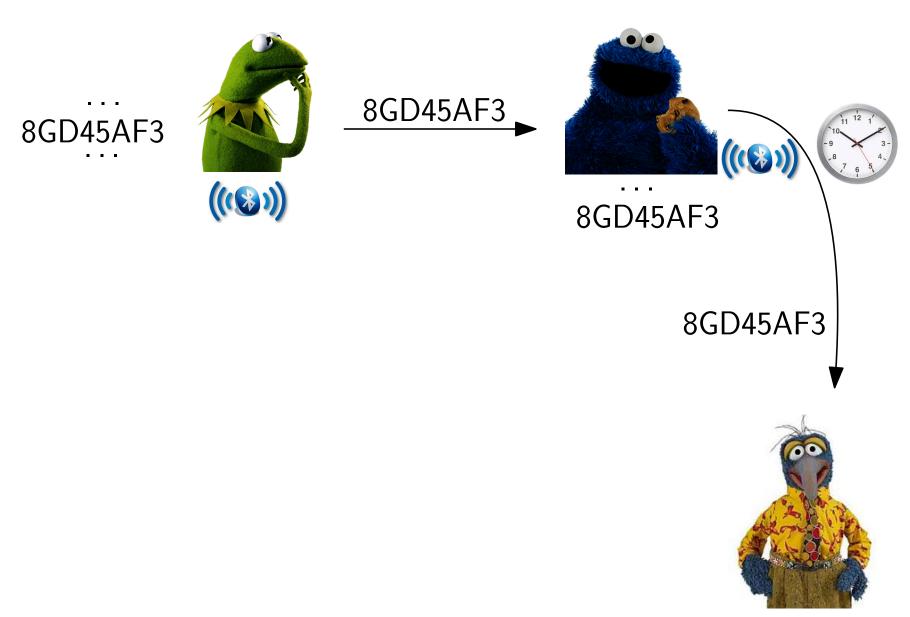


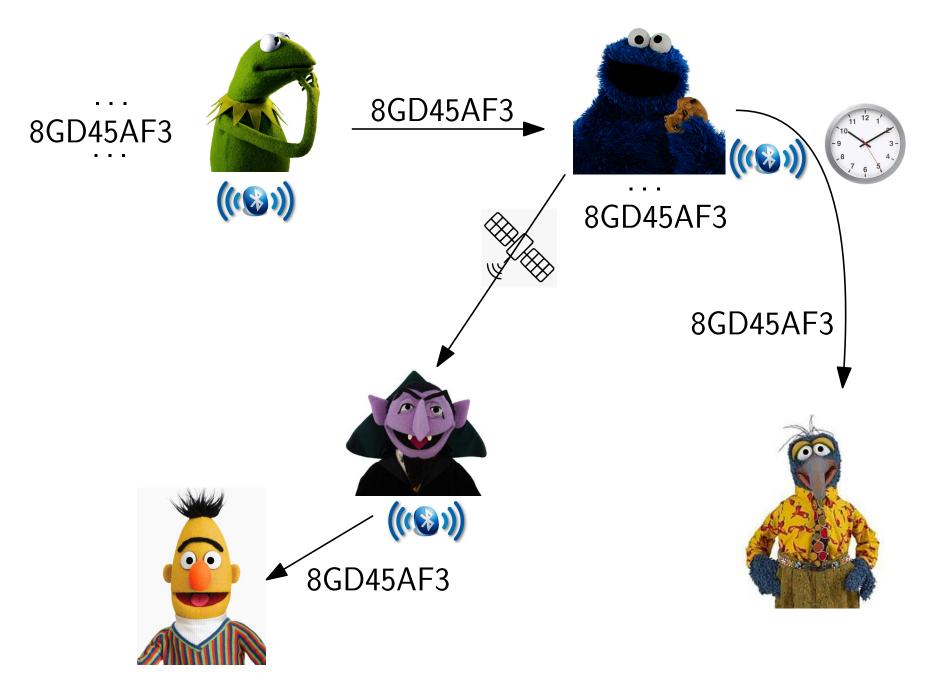
## Proximity Tracing

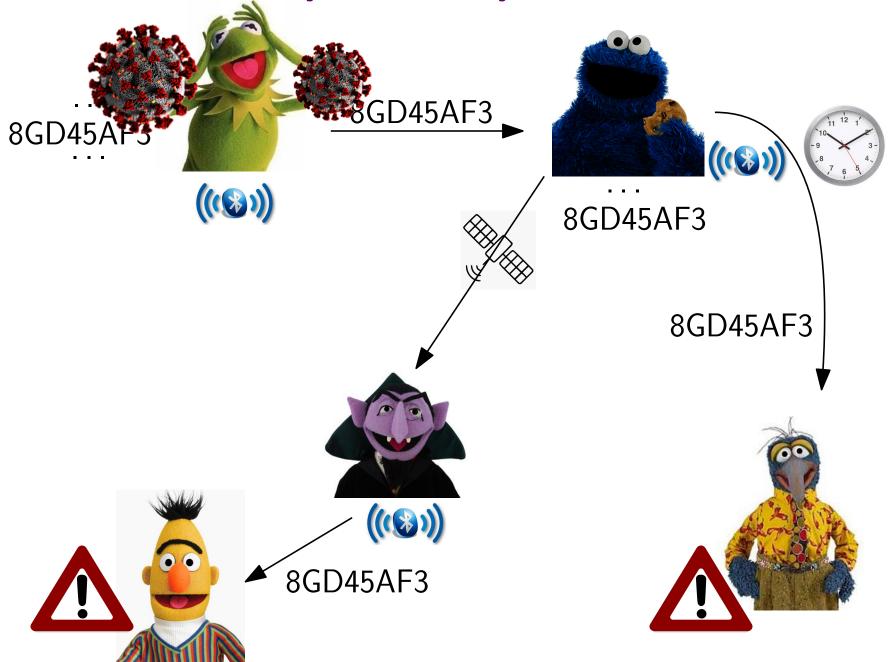


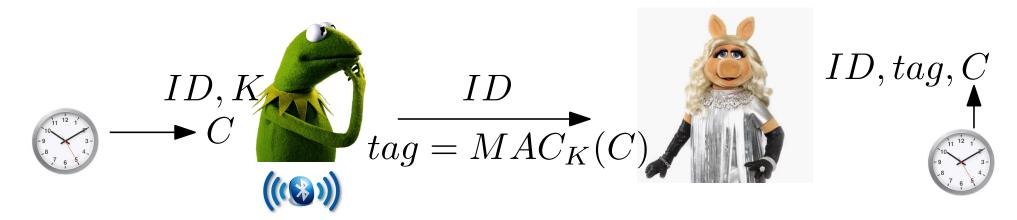


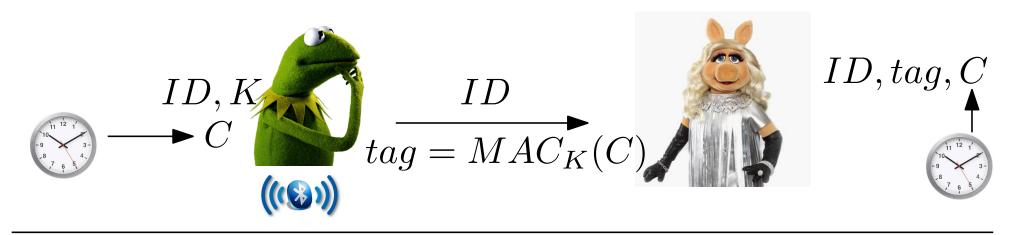


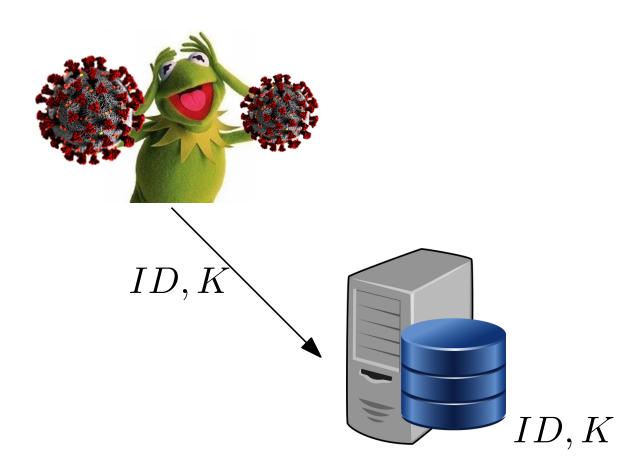


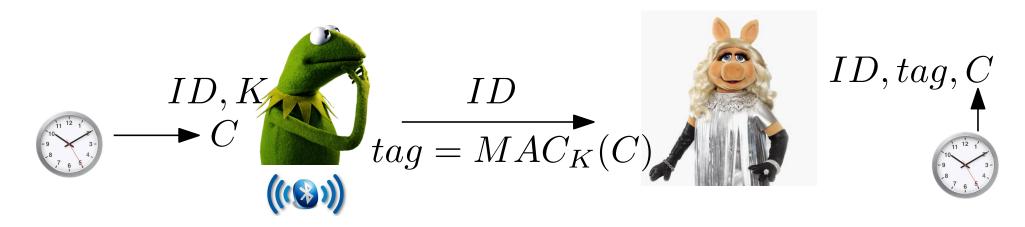


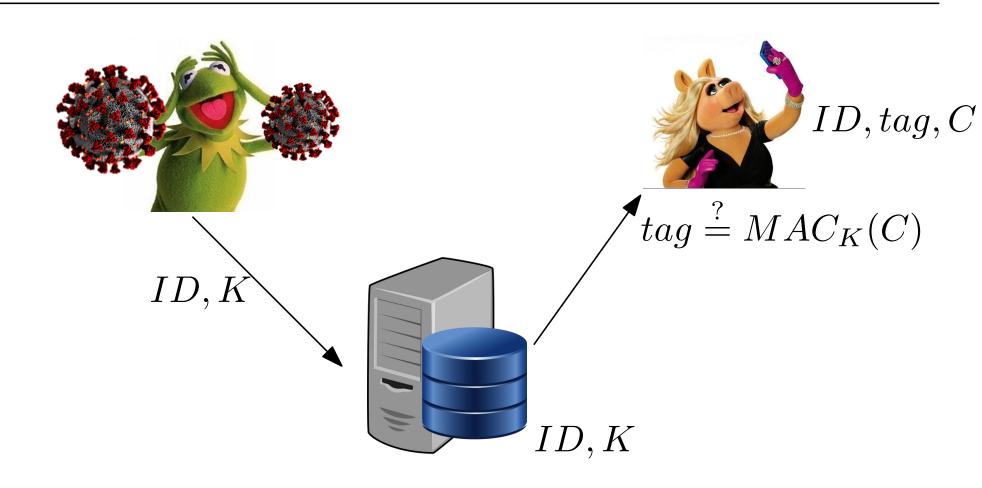


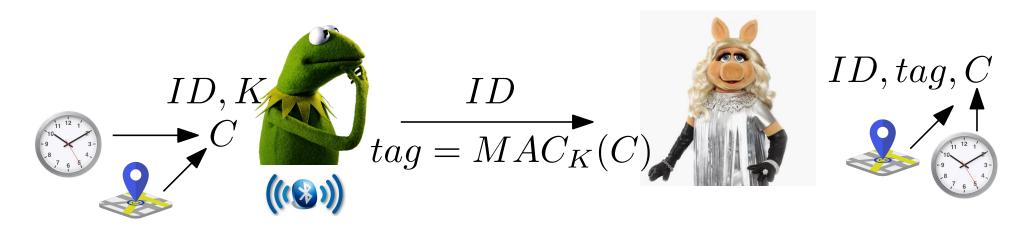


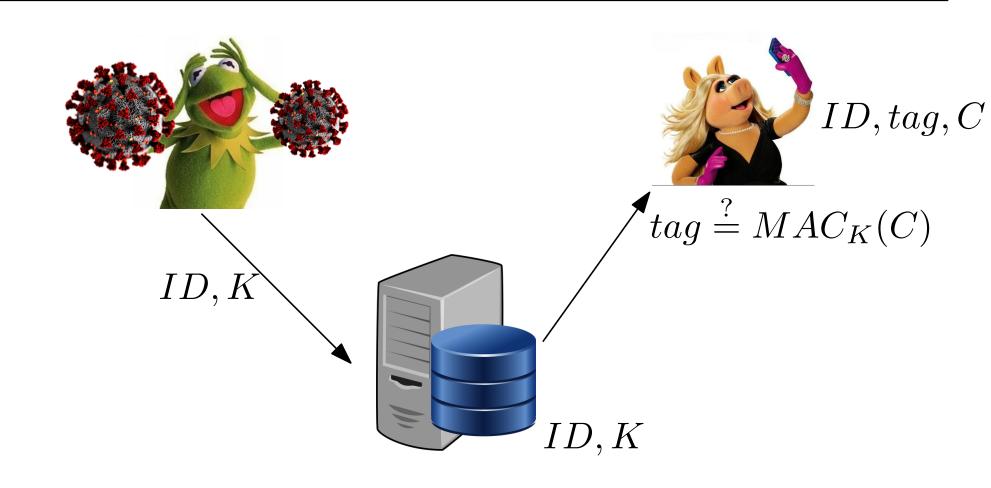


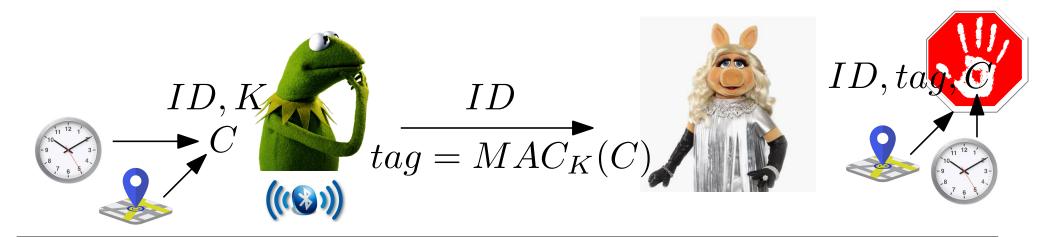


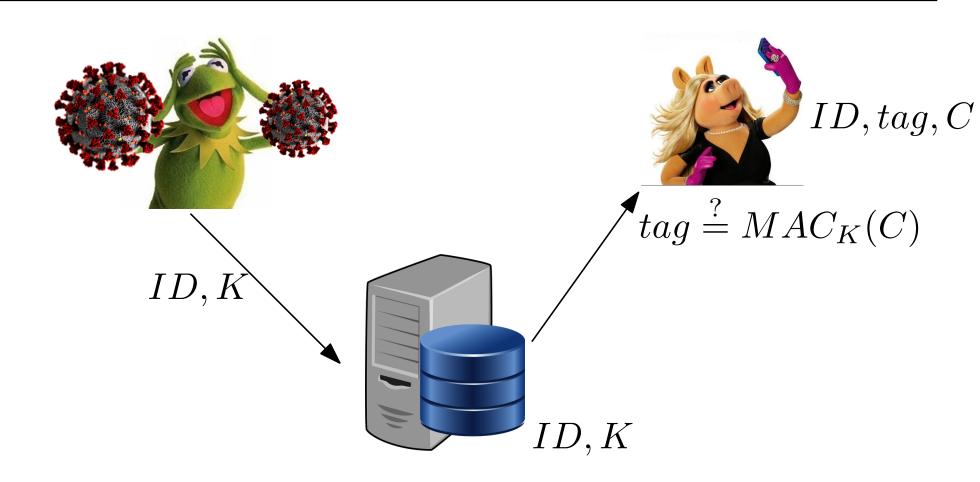




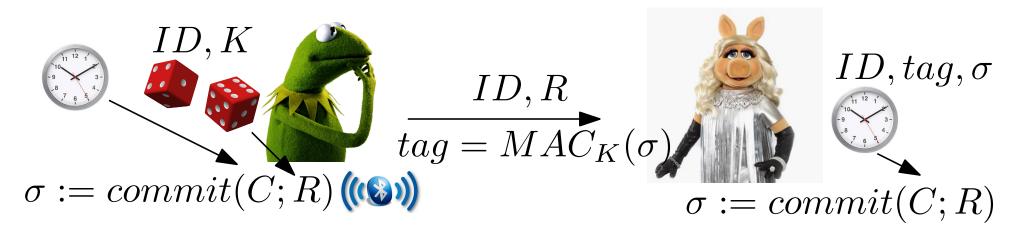




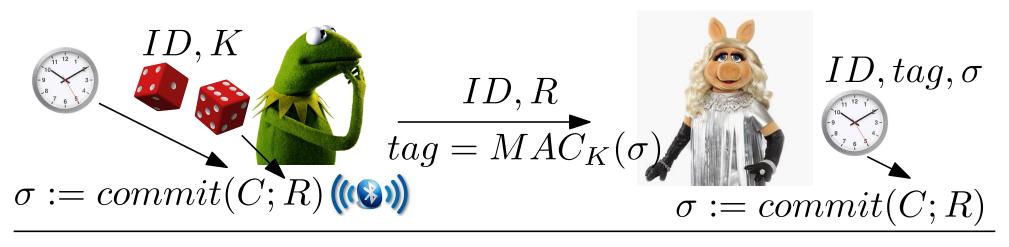


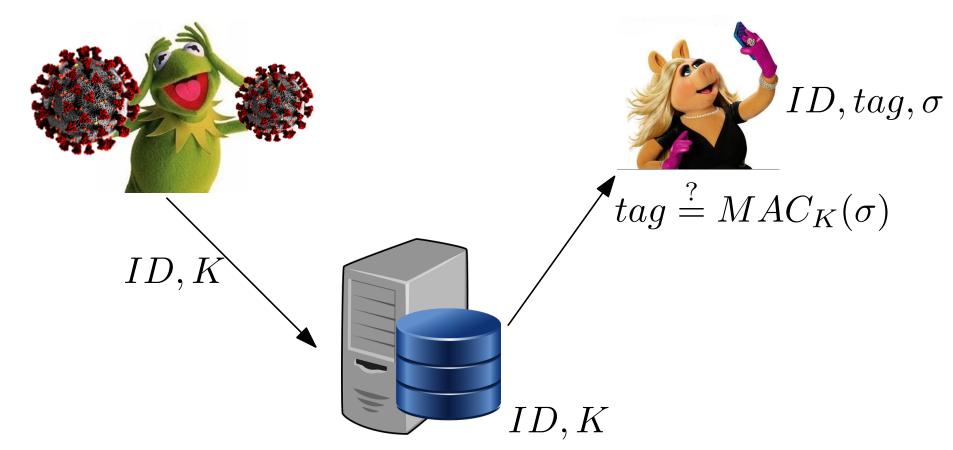


# Delayed Authentication (eprint 2020/418)

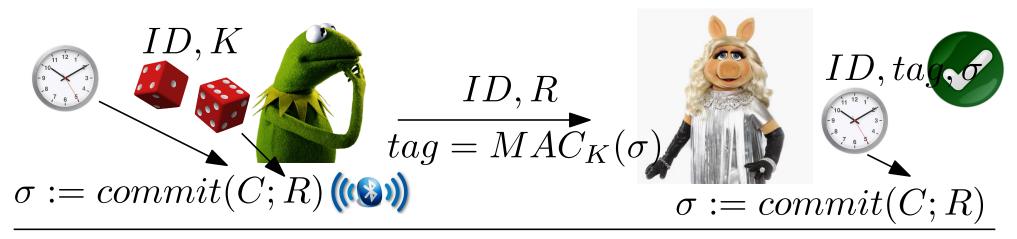


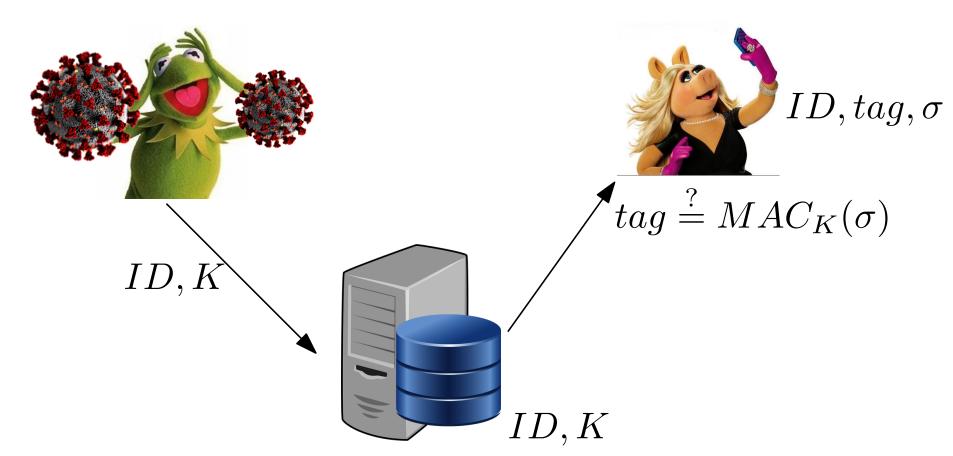
## Delayed Authentication (eprint 2020/418)



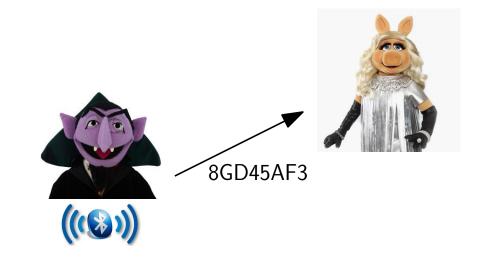


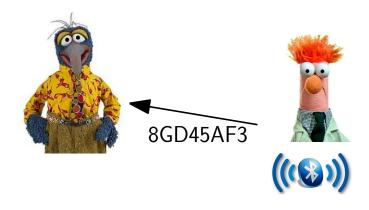
## Delayed Authentication (eprint 2020/418)





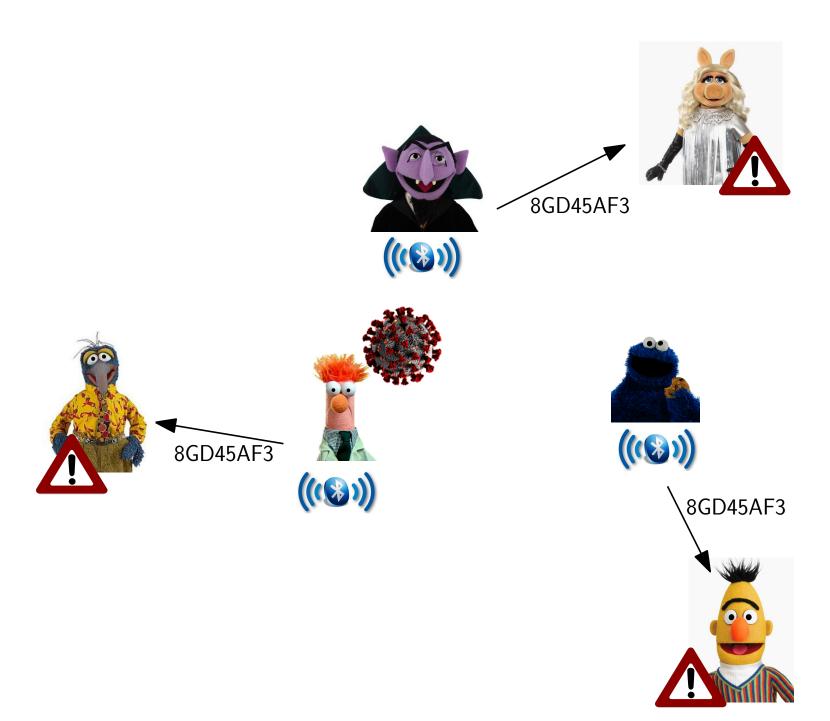
# Inverse Sybil Attacks







# Inverse Sybil Attacks



#### Inverse Sybil Attacks

https://github.com/DP-3T/documents/issues/295

