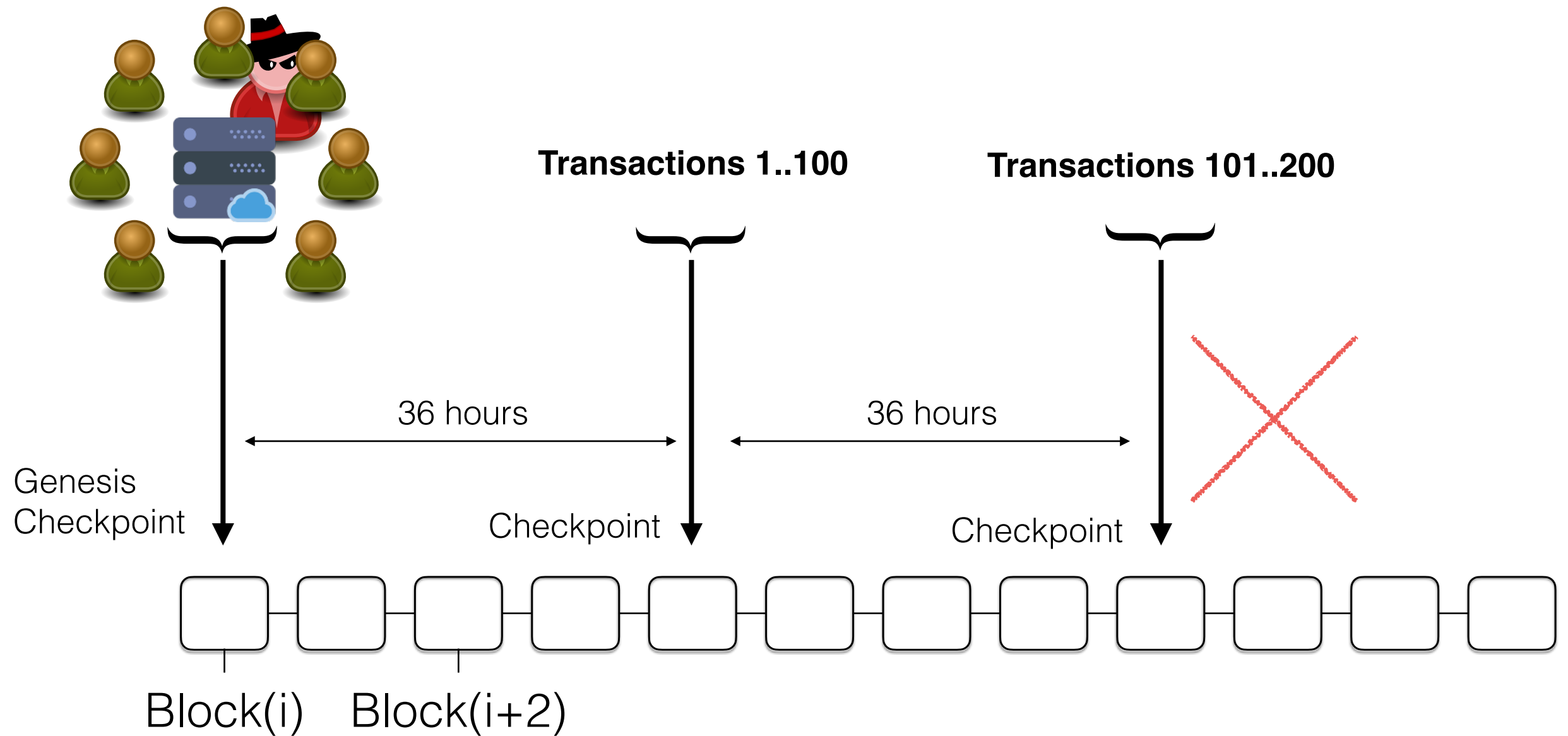




**Commit-Chains  
NOCUST Security**



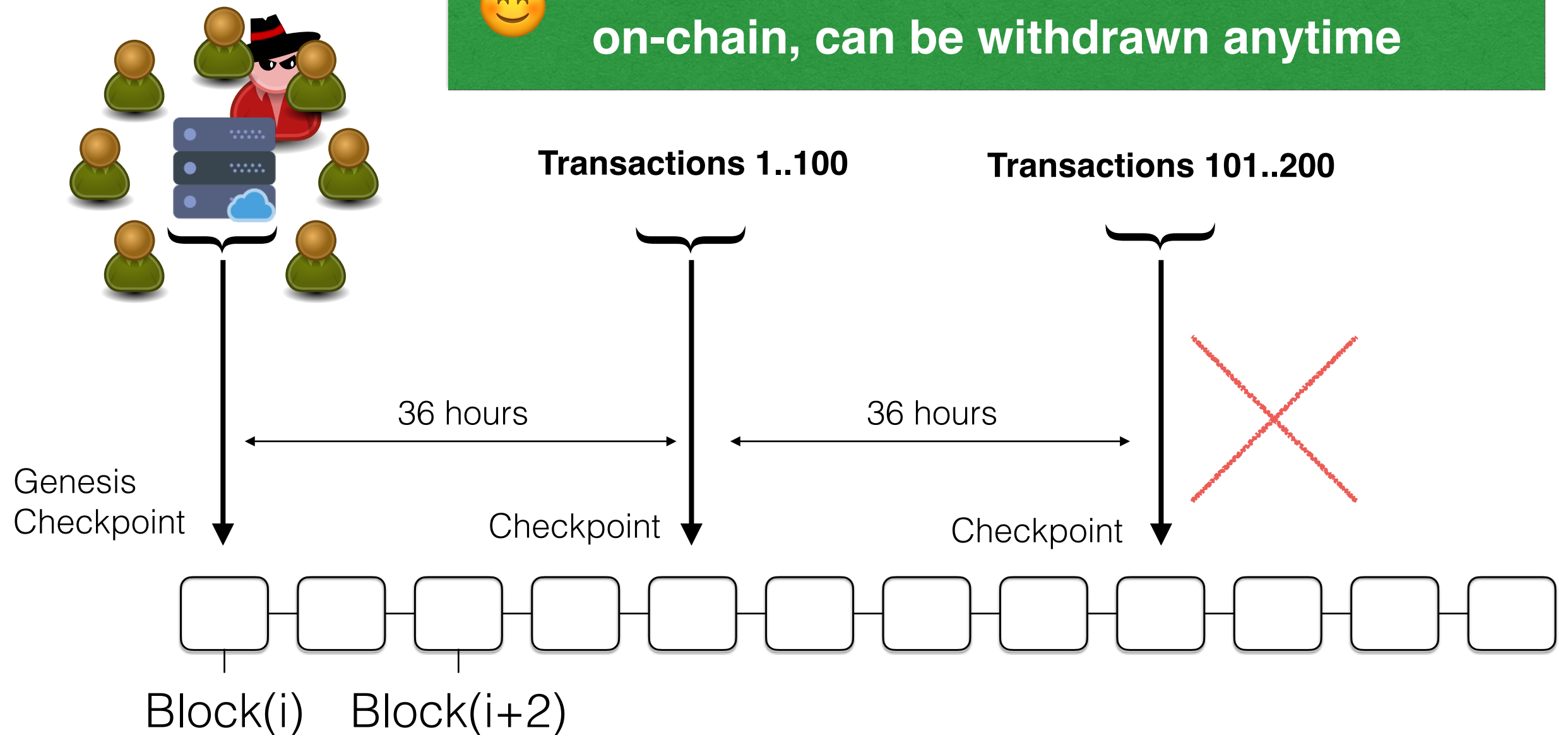
# NOCUST operator disappears ... just after checkpoint



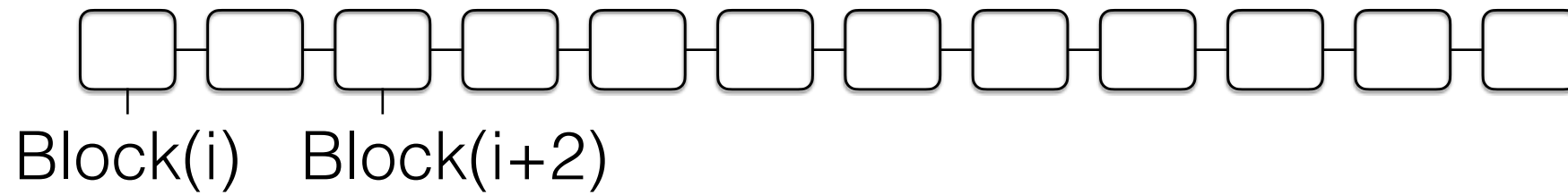
# NOCUST operator disappears ... just after checkpoint



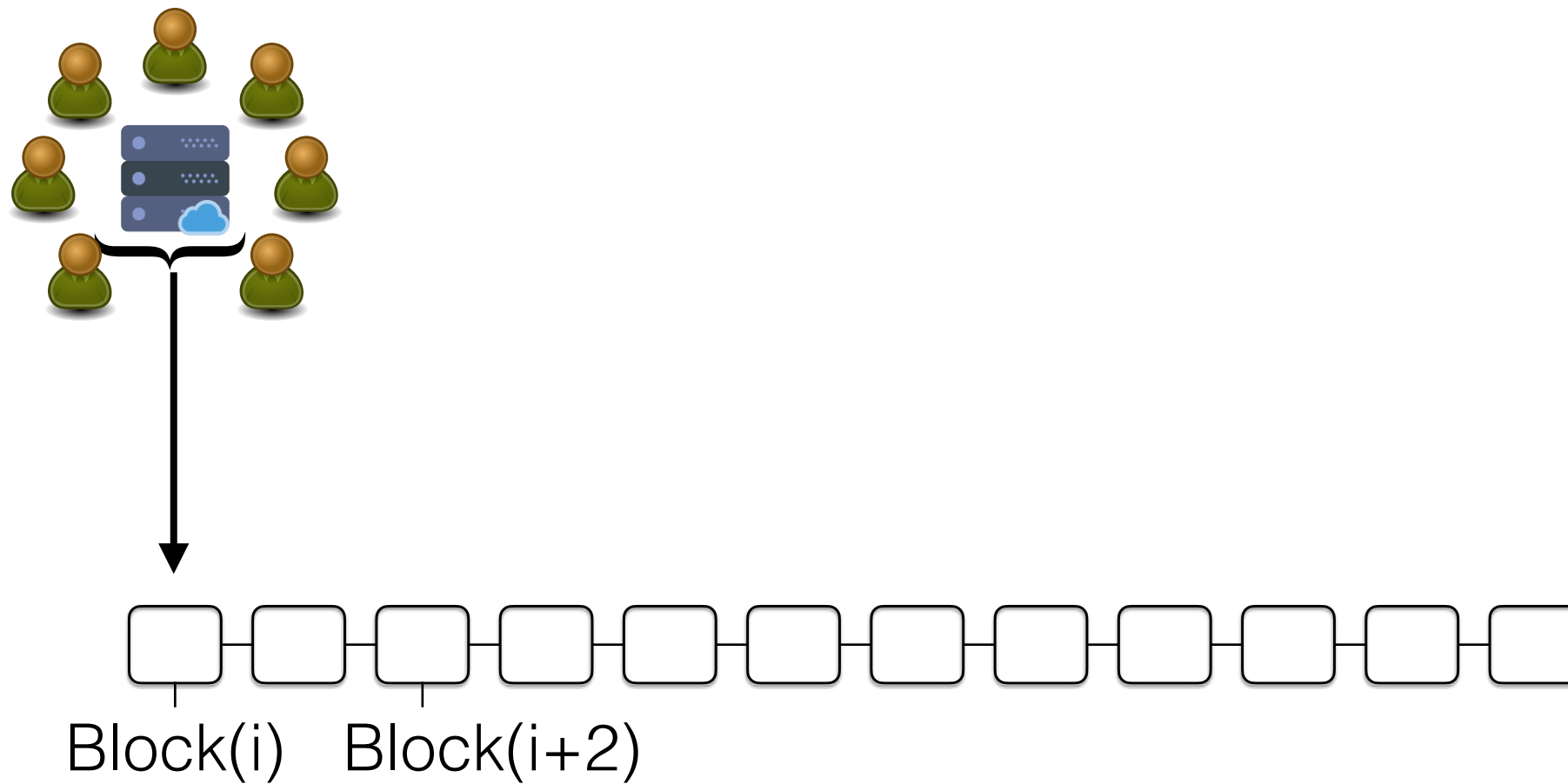
Transaction 1..200 are committed  
on-chain, can be withdrawn anytime



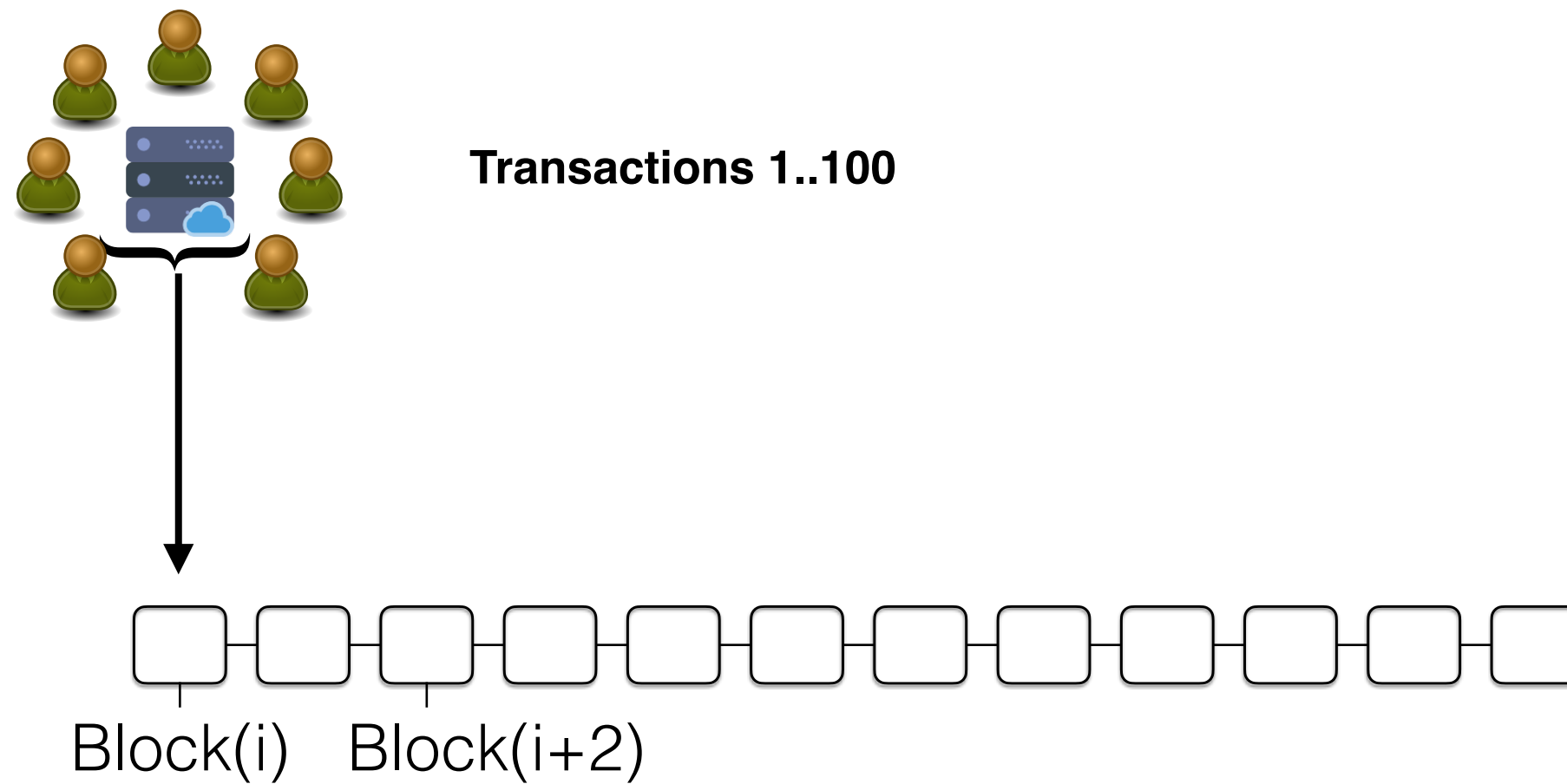
# NOCUST server disappears ... after a few transactions



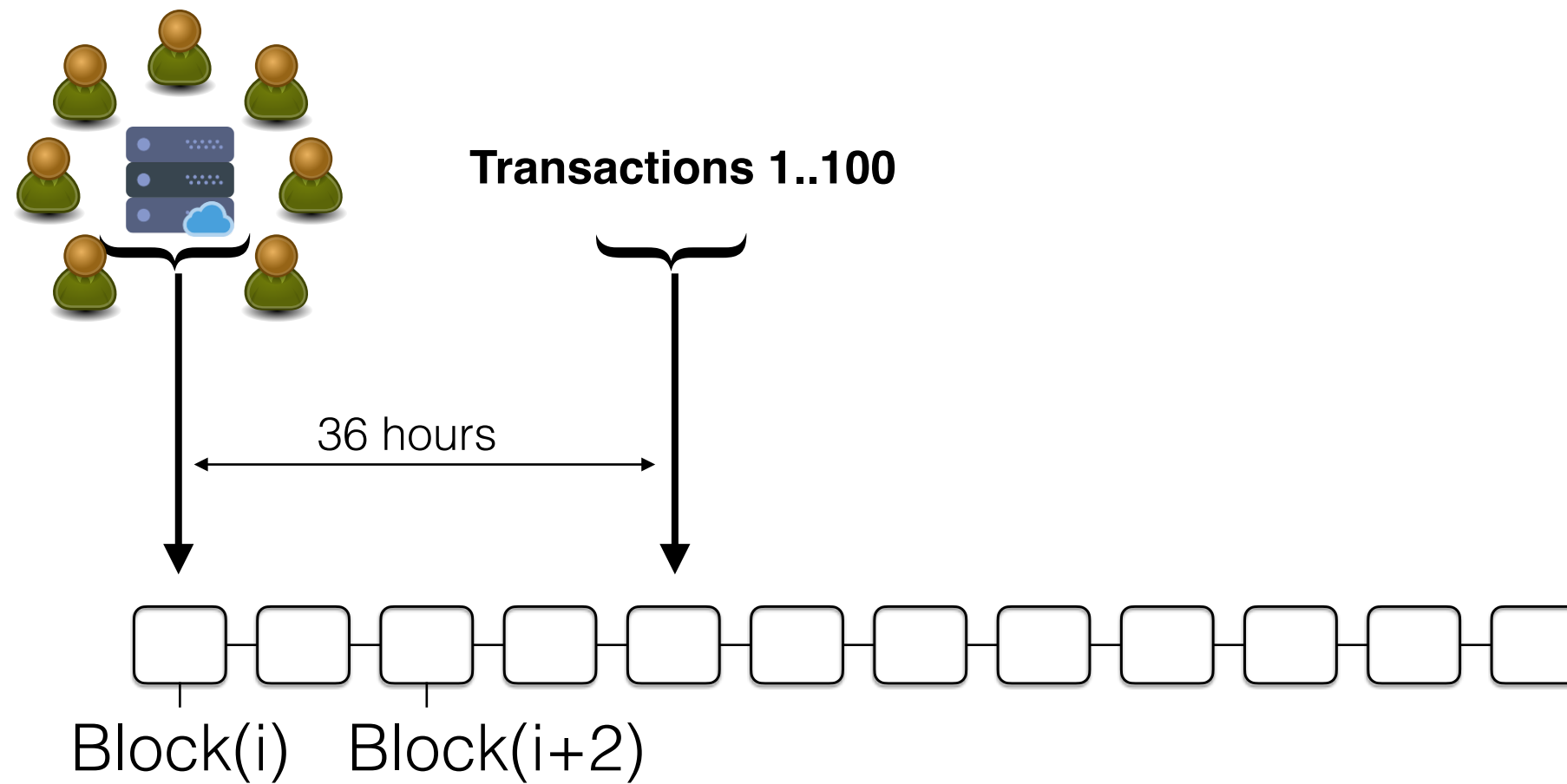
# NOCUST server disappears ... after a few transactions



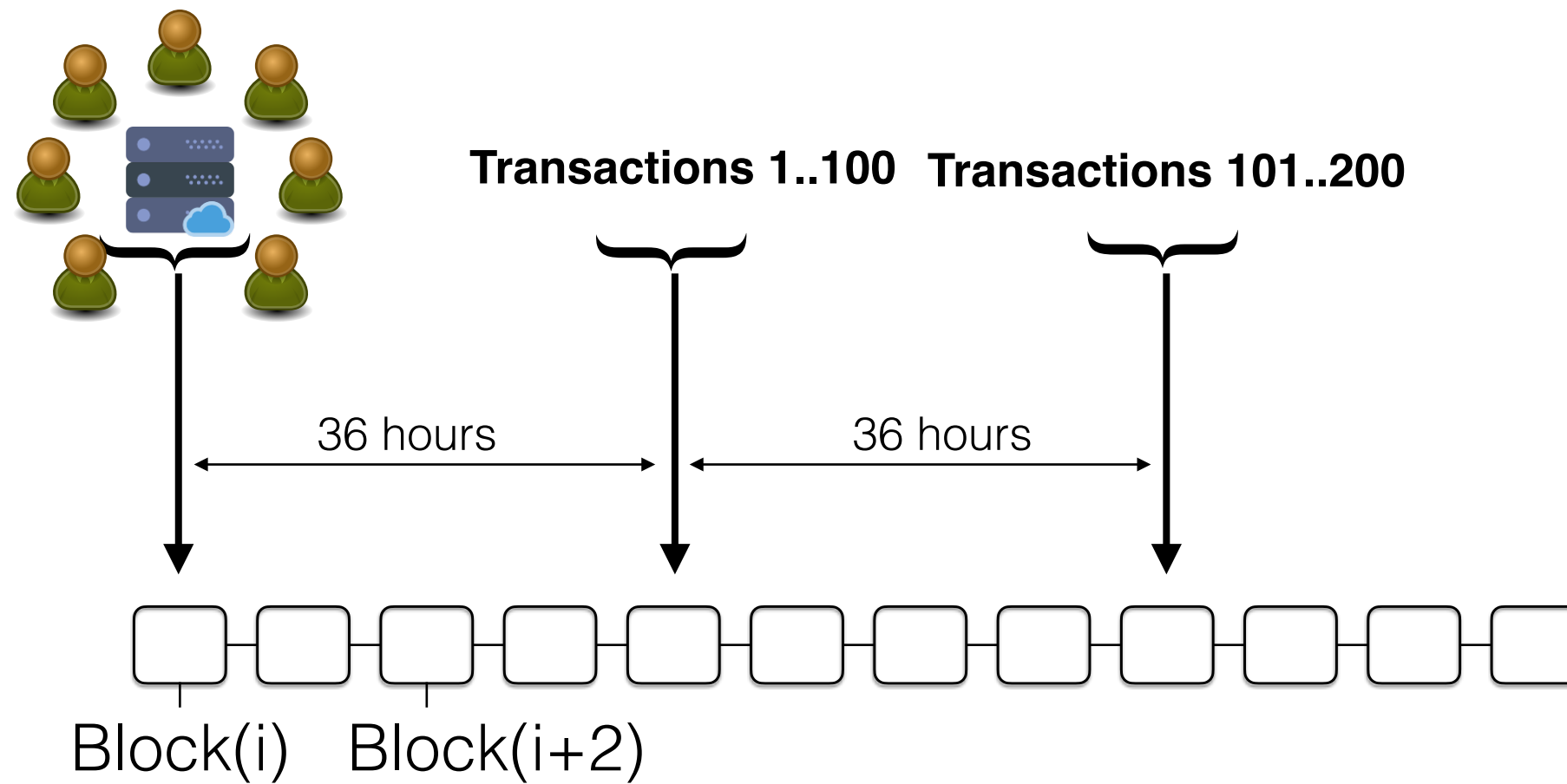
# NOCUST server disappears ... after a few transactions



# NOCUST server disappears ... after a few transactions

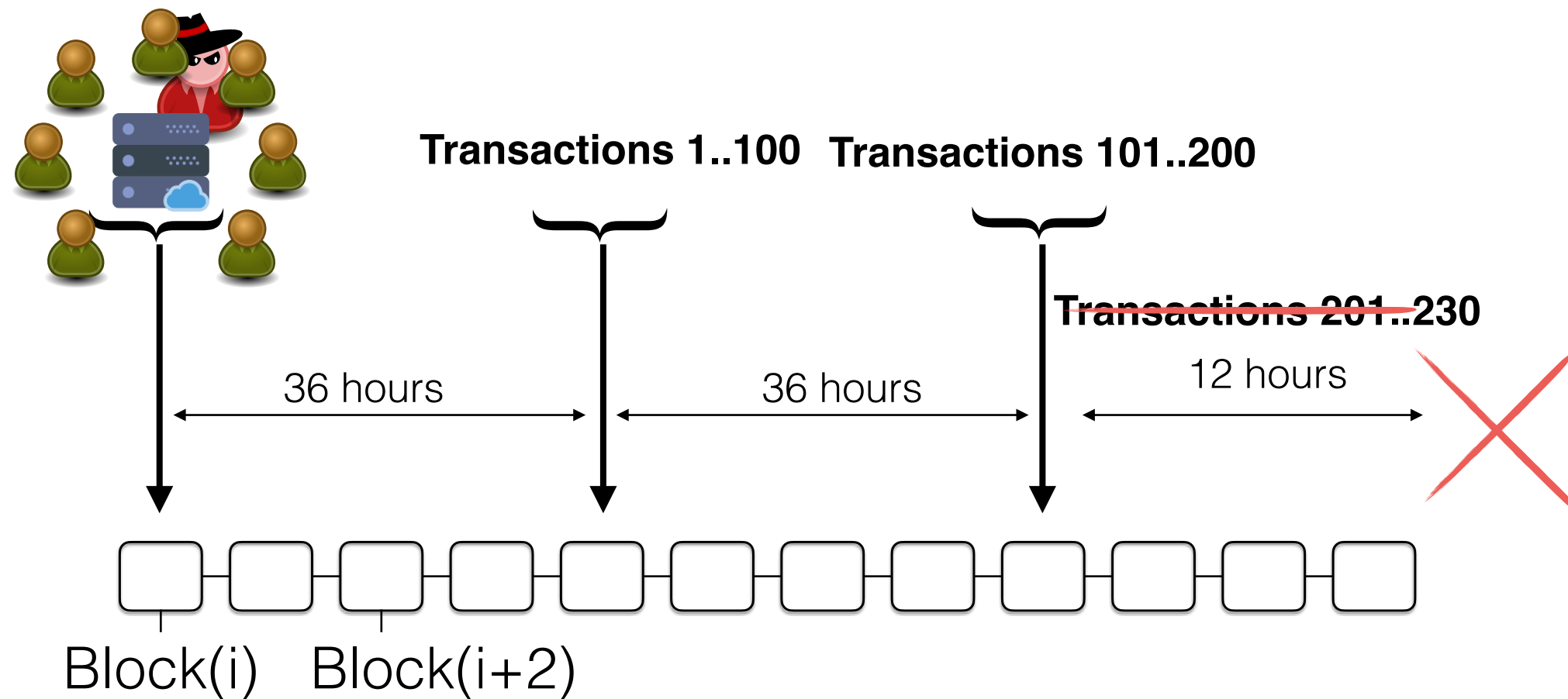


# NOCUST server disappears ... after a few transactions





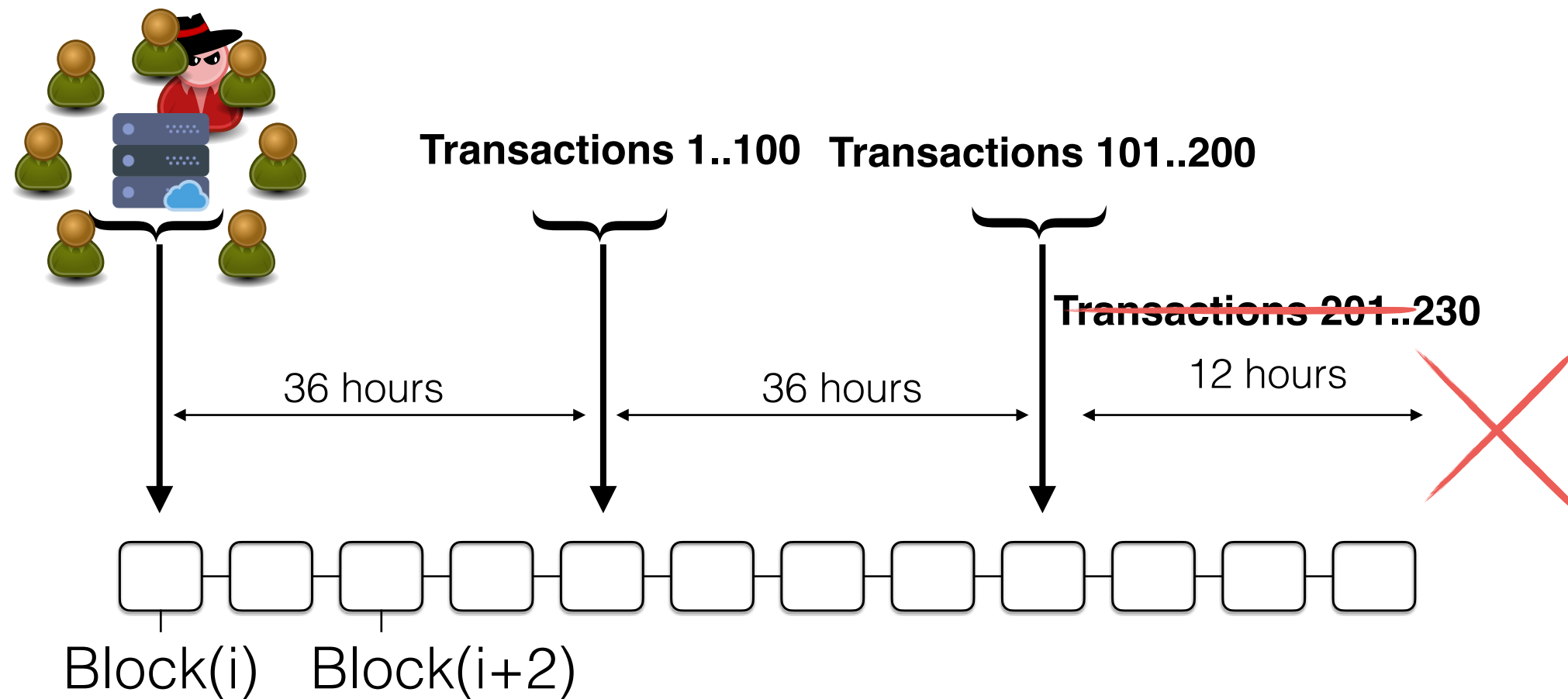
# NOCUST server disappears ... after a few transactions



# NOCUST server disappears ... after a few transactions



Transaction 1..200  
are safe



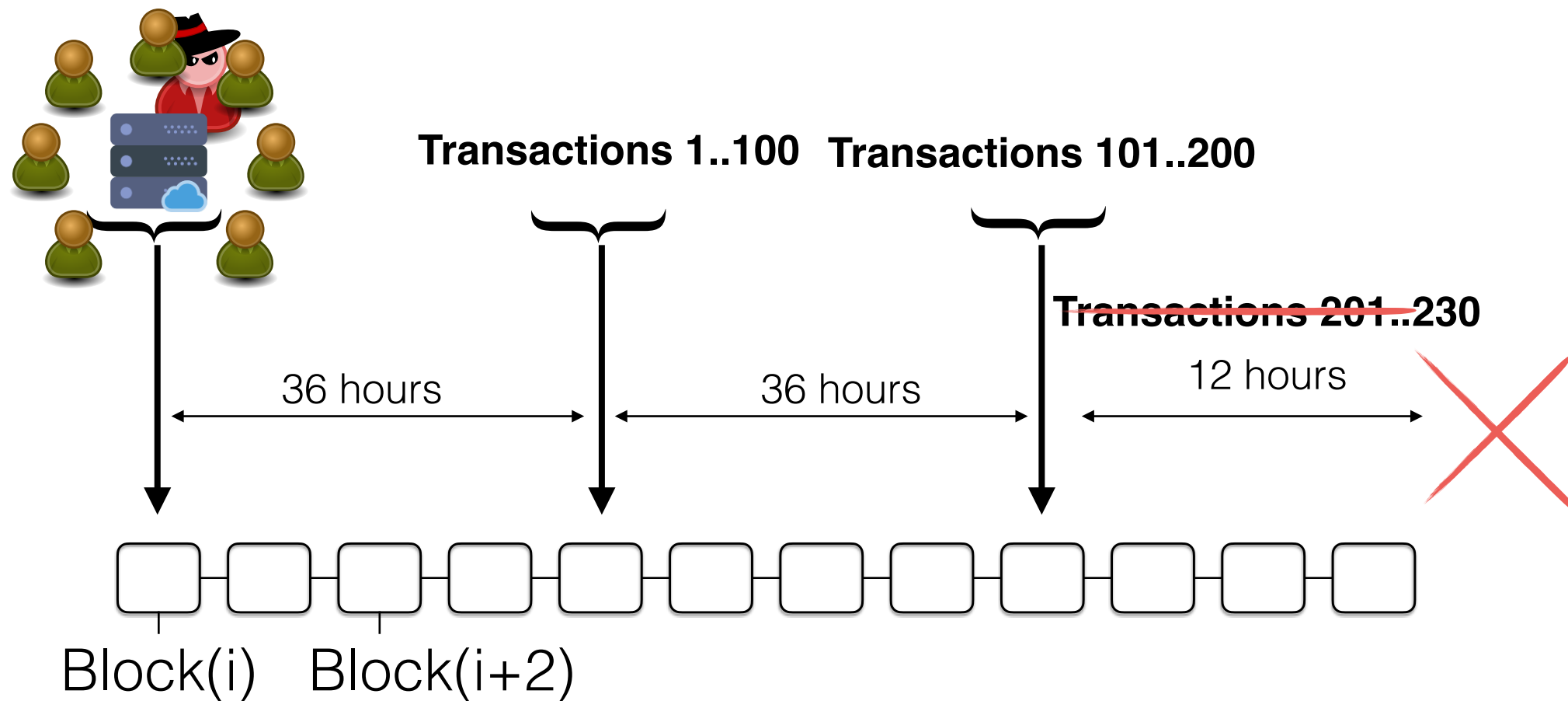
# NOCUST server disappears ... after a few transactions



Transaction 1..200  
are safe



Transaction 201..230 are  
not committed on chain!



# NOCUST server disappears ... after a few transactions



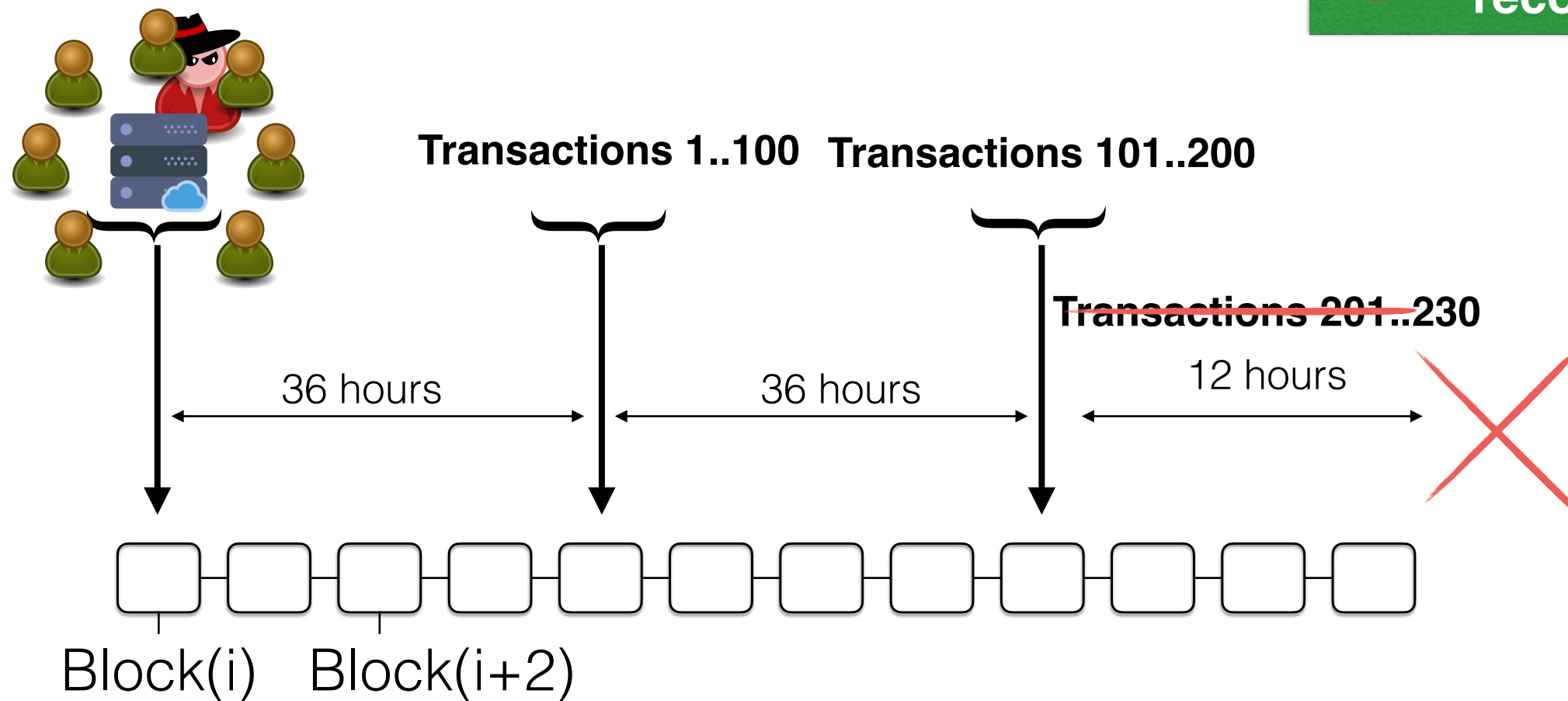
Transaction 1..200  
are safe



Transaction 201..230 are  
not committed on chain!



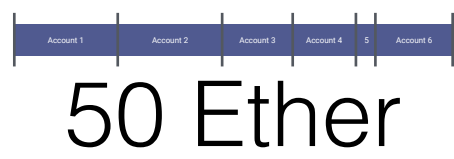
Insurance Pool  
recovers tx



# Users to attempt double-spending



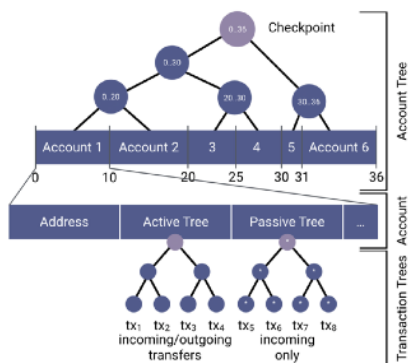
Bob = 50 ETH



Alice

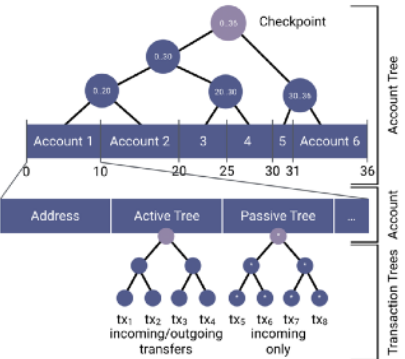
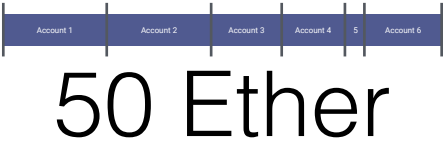
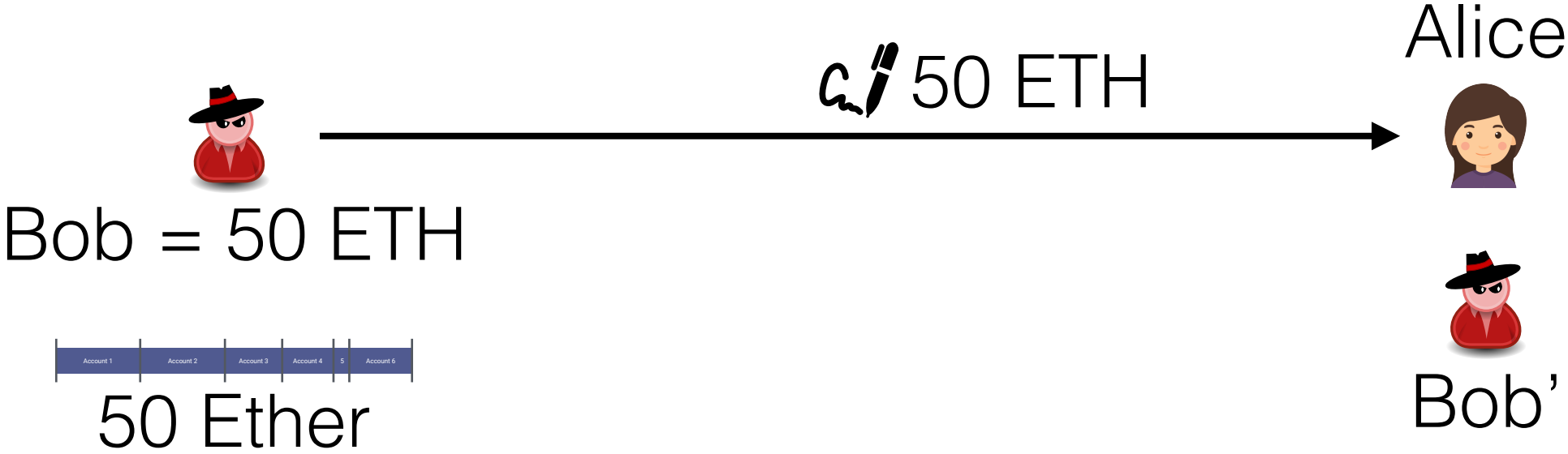


Bob'

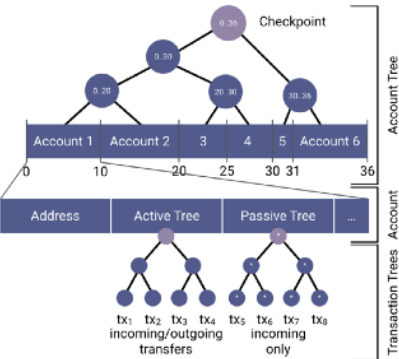
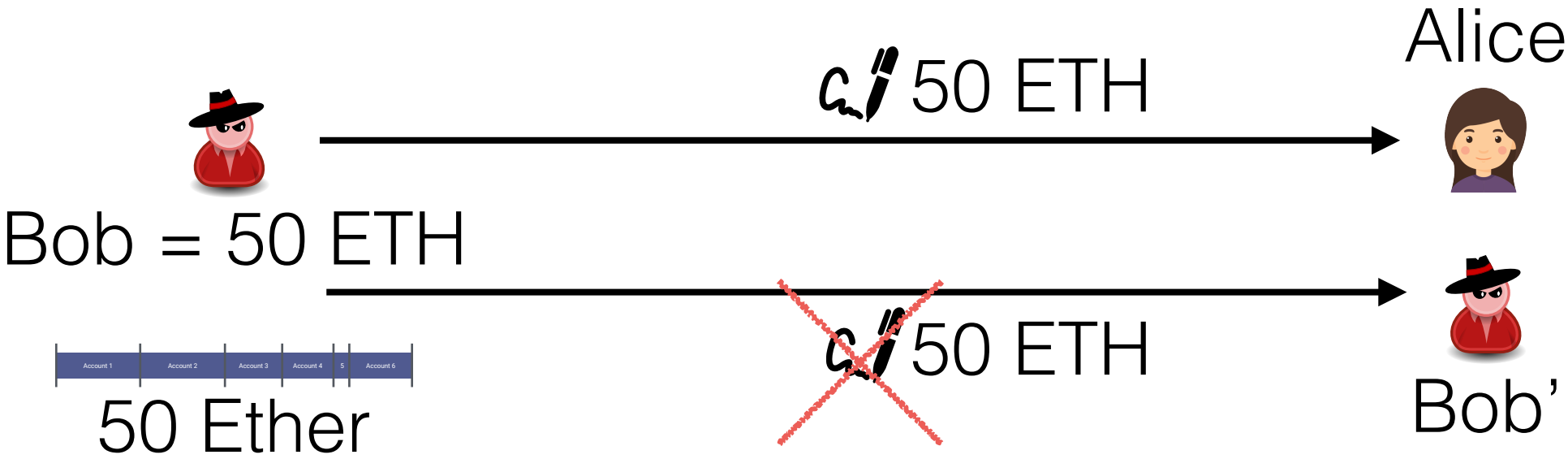




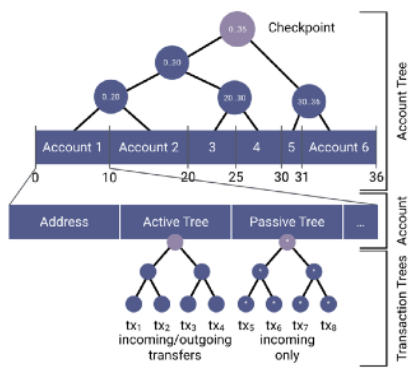
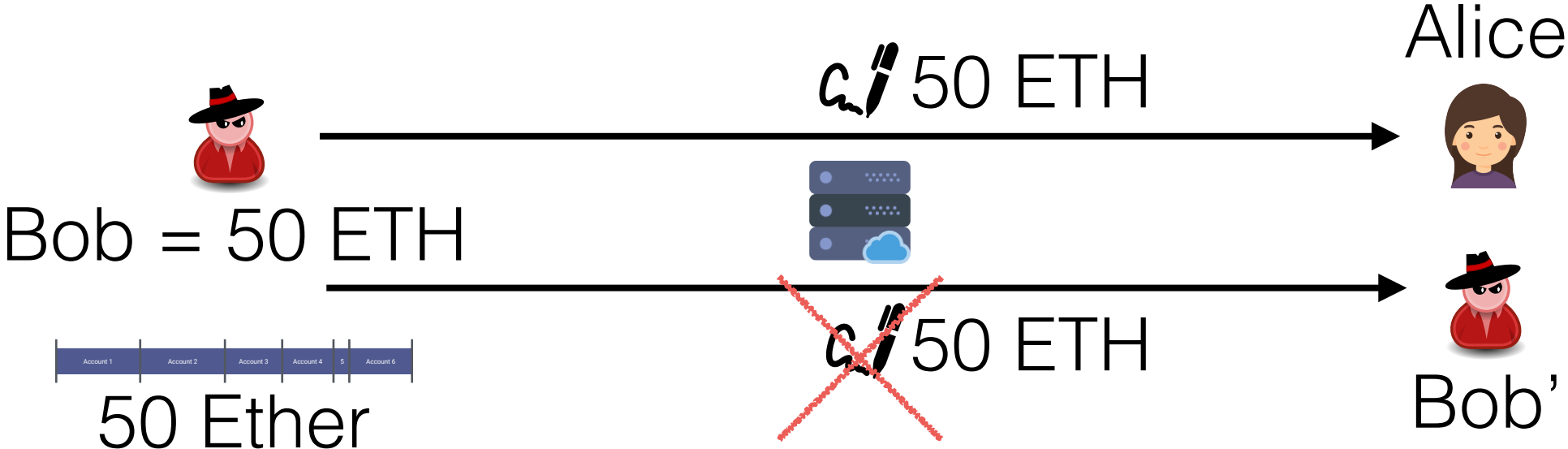
# Users to attempt double-spending




# Users to attempt double-spending

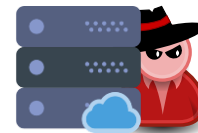


# Users to attempt double-spending



# NOCUST server colludes with client to attempt double-spending

  
Bob = 50 ETH

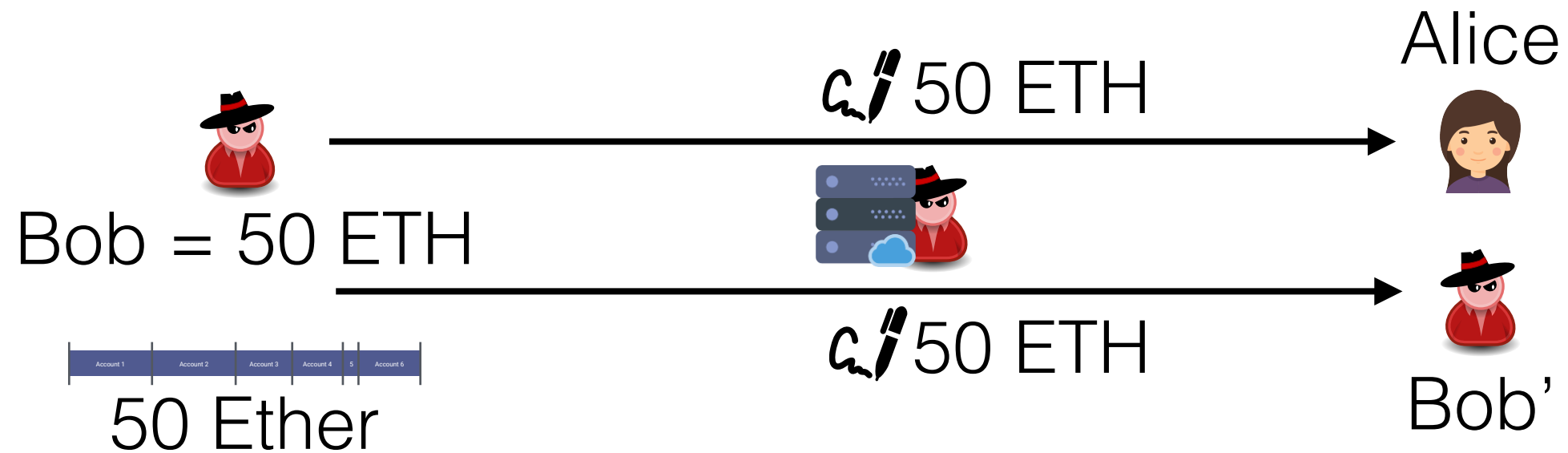


Alice



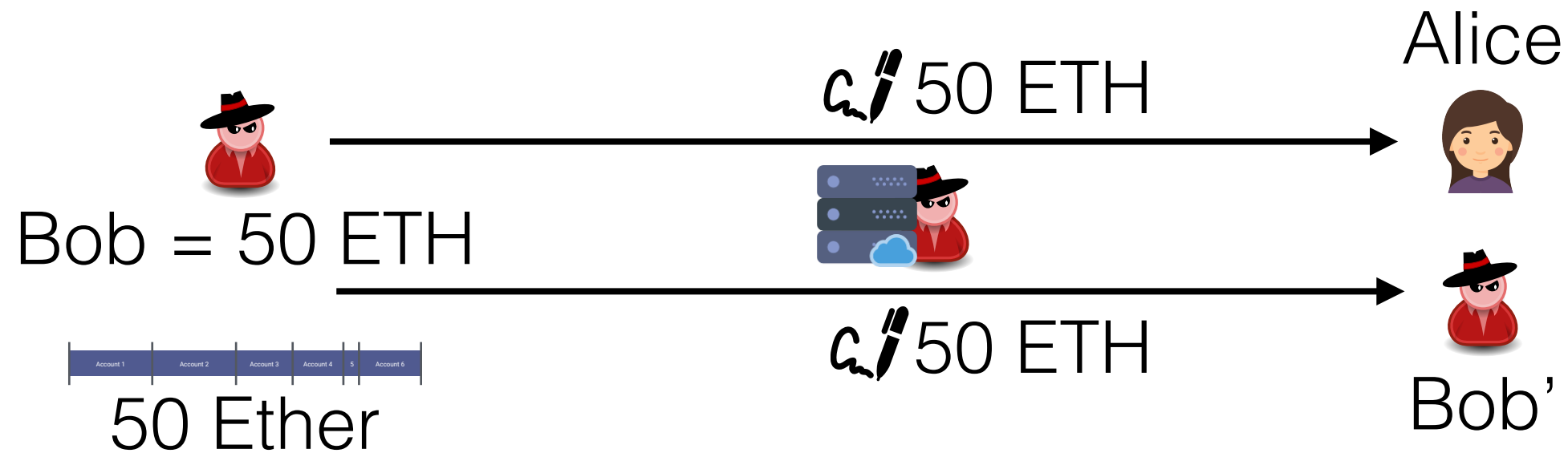
Bob'

# NOCUST server colludes with client to attempt double-spending





## NOCUST server colludes with client to attempt double-spending



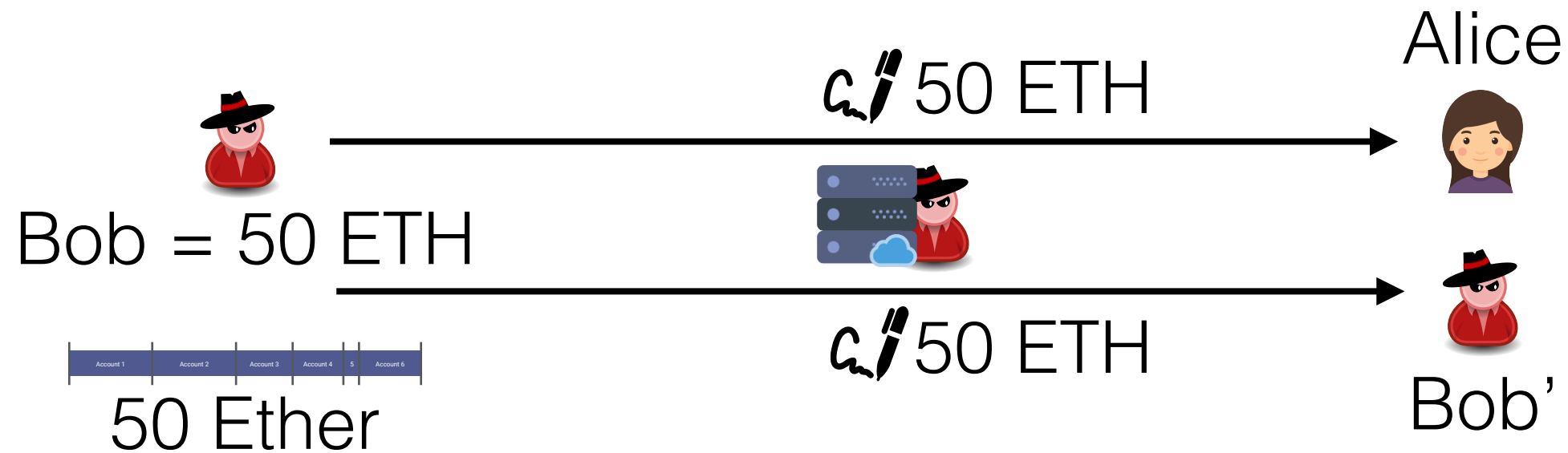
 Attempt to create coins



50 Ether != 100 Ether

**Operator is challenged !**

## NOCUST server colludes with client to attempt double-spending



Attempt to create coins



50 Ether  $\neq$  100 Ether

**Operator is challenged !**



Attempt to steal coins



50 Ether of Alice are lost  
**Operator is challenged !**