LIGHTNING NETWORK
BACKUPS AND DEPLOYMENT
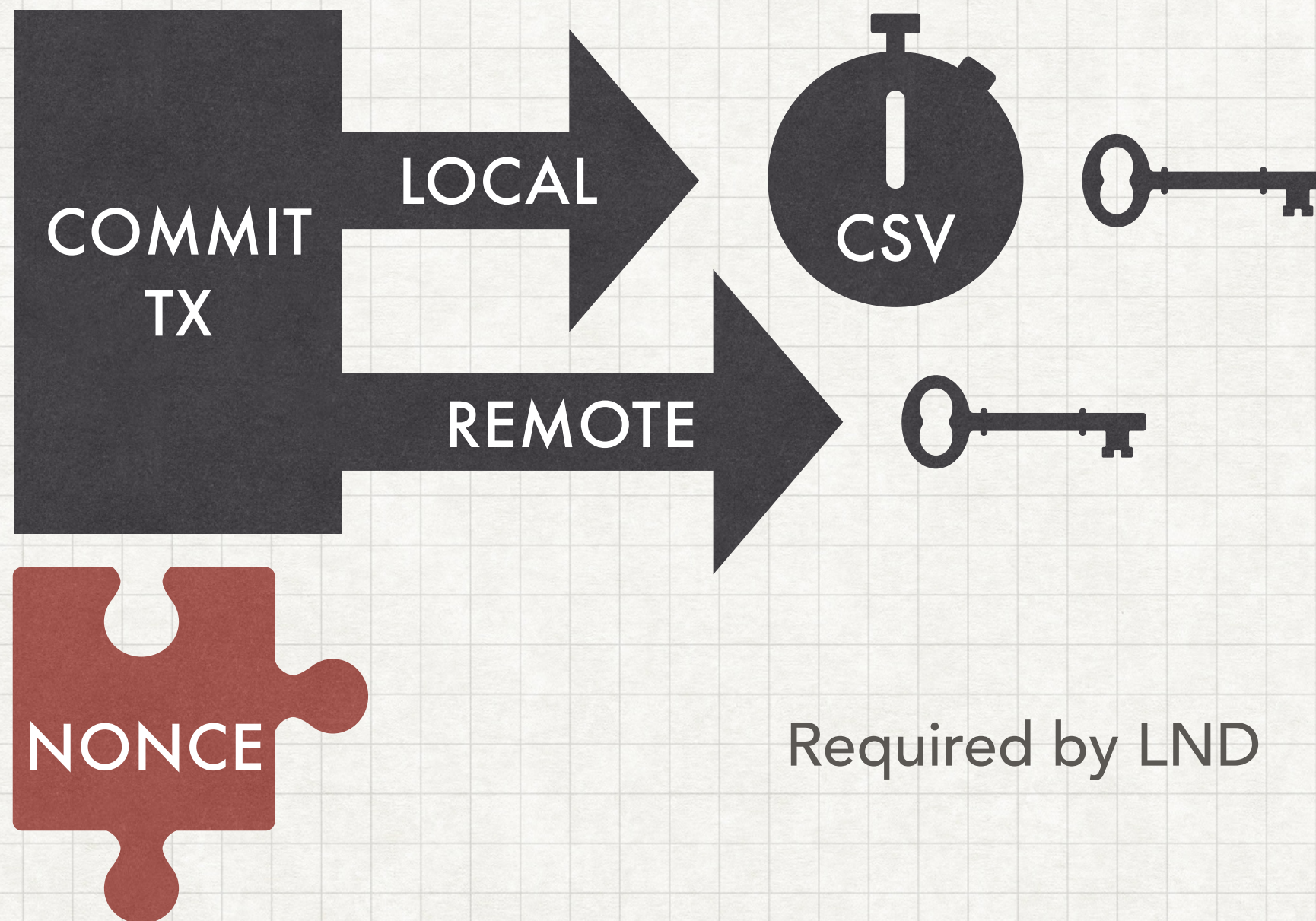
FAILURE SURFACES

ANYTHING THAT CAN GO WRONG, WILL GO WRONG

DISK

DOS

NETWORK

HACKS

SECRET DATA

BUGS

OLD STATE
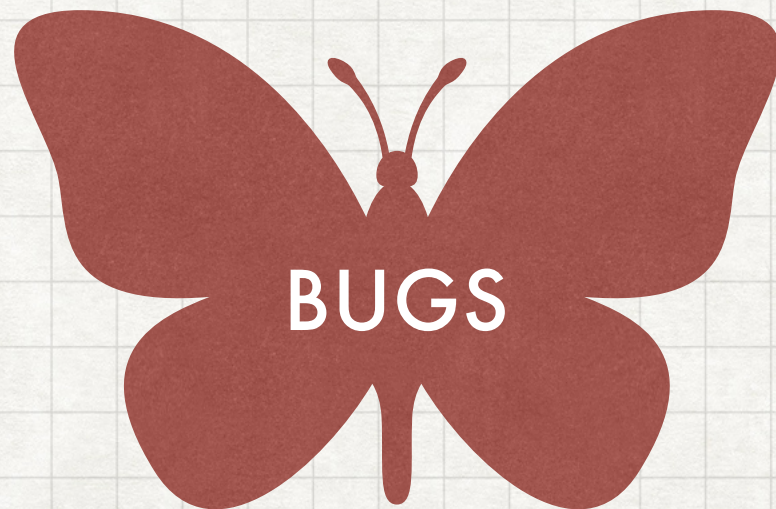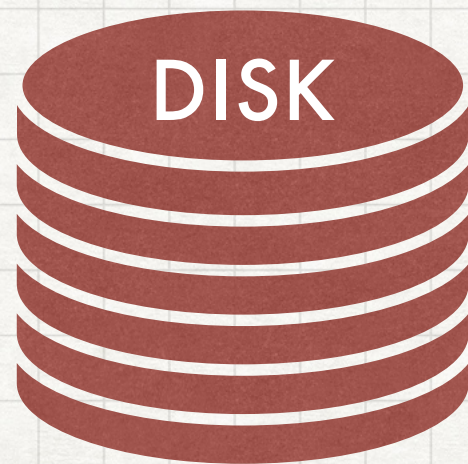
DLP
DATA LOSS PROTECTION PROTOCOL

COMMIT TX

LOCAL

REMOTE

CSV

NONCE

Required by LND
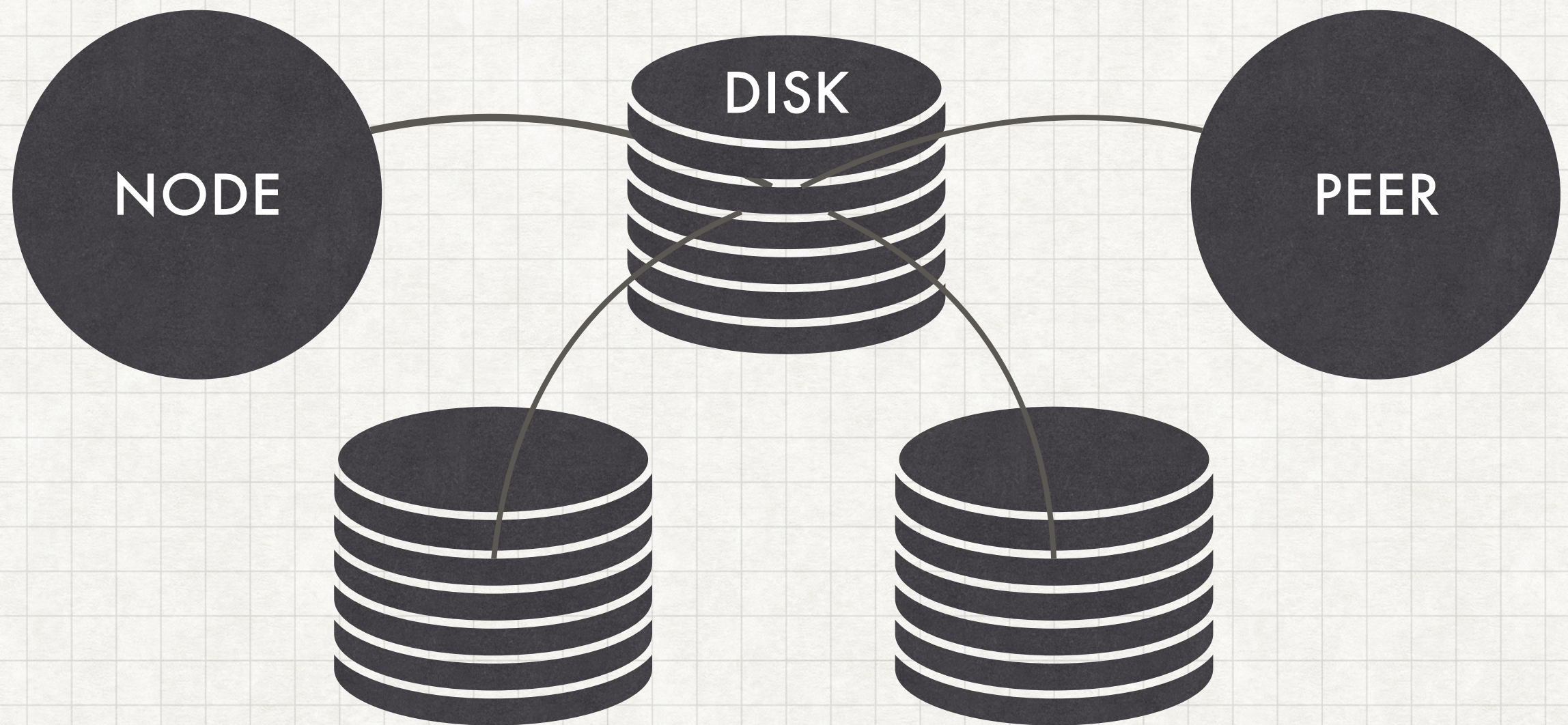
SCB
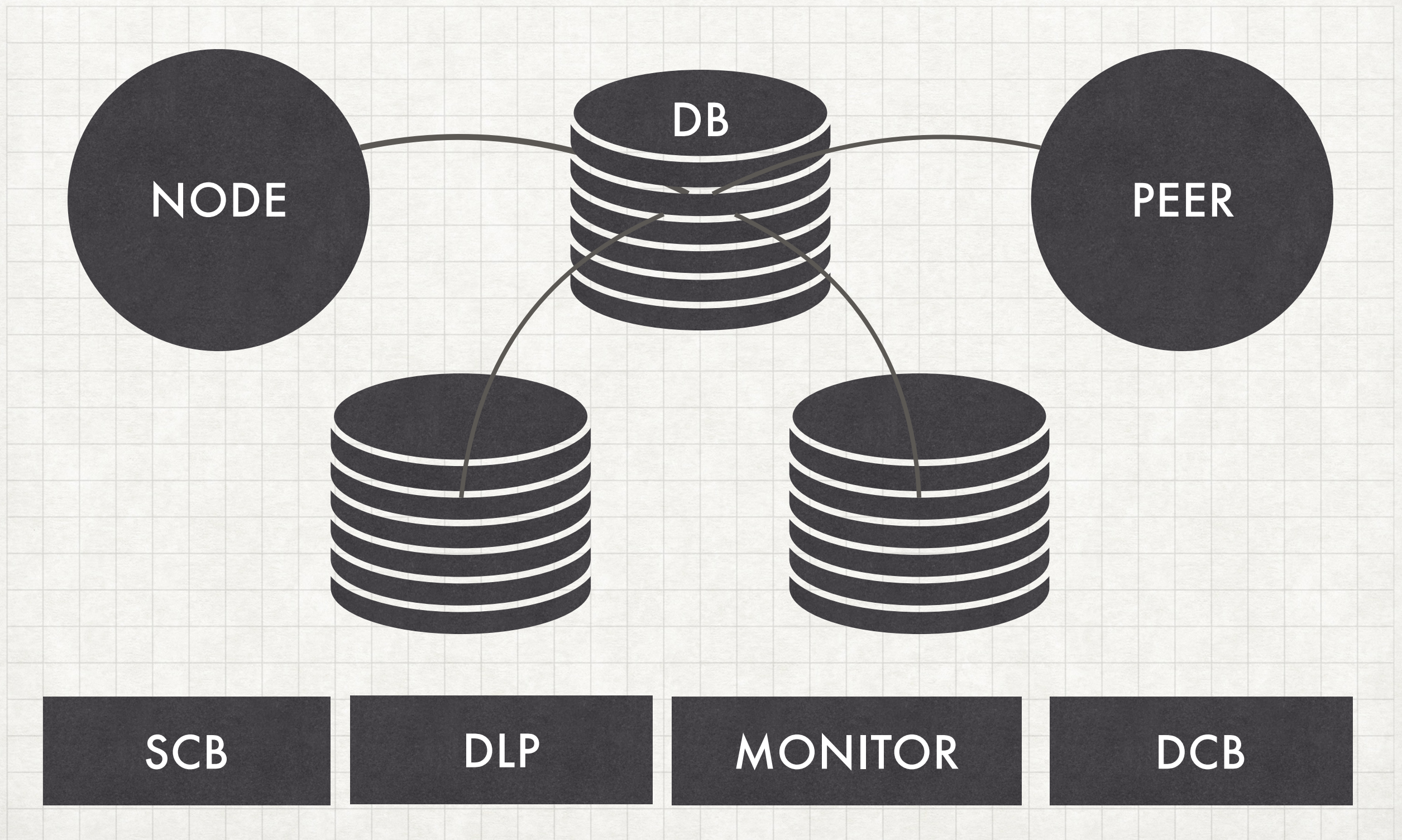## STATIC CHANNEL BACKUPS

PEER
PUBLIC KEY

CHANNEL ID

HTLCS

DISK REPLICATION
HIGH LEVEL DYNAMIC BACKUPS

DCB

DYNAMIC CHANNEL BACKUPS

BREACH MONITORING
REDUNDANT JUSTICE TRANSACTIONS

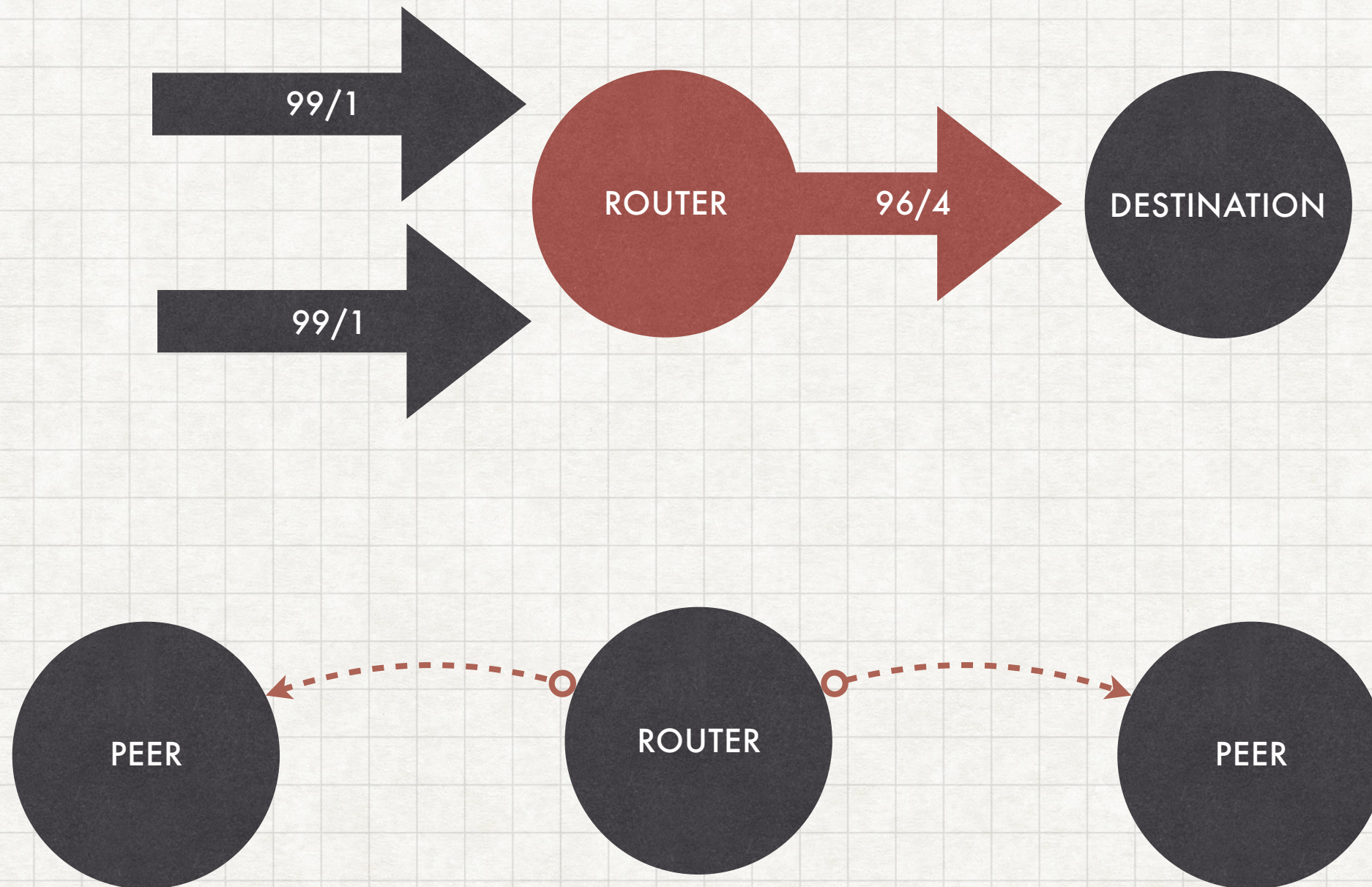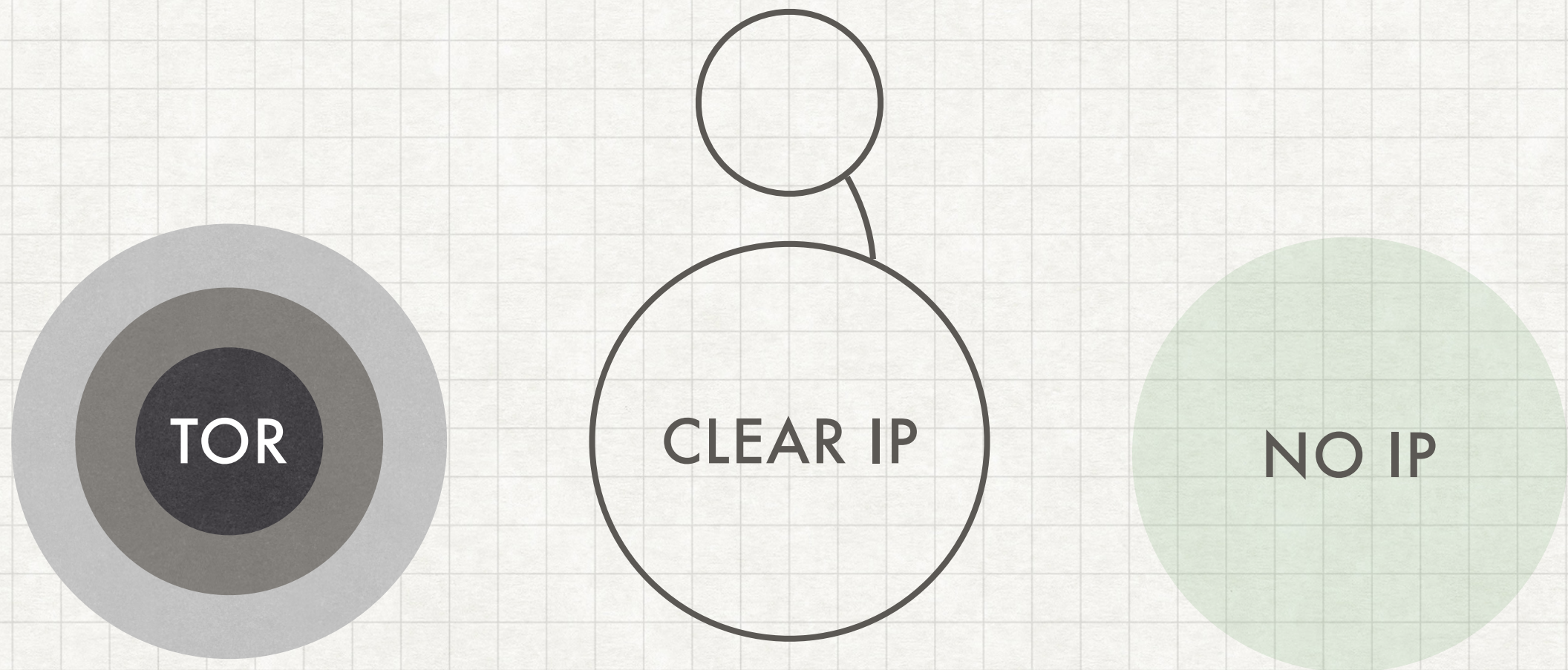|	
PRECALCULATED TX ID	HALF USED AS ENCRYPTION KEY
PRECOMPUTED TX	ENCRYPTED FOR PRIVACY, SECURITY
FEES ARE TRICKY	HTLCS CREATE MORE POSSIBILITIES
NOT A HUGE ISSUE IN PRACTICE	PEERS != GOOD TOWERS

CAP

CHANNEL ACCEPTANCE POLICY
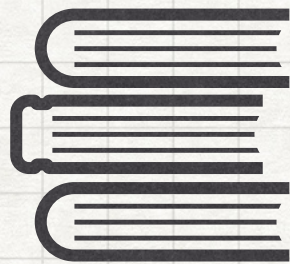
NETWORKING

TOR AND IP ADVERTISEMENT

TOR

CLEAR IP

NO IP

BASIC NETWORKING
OPERATIONS

File descriptors

Least privilege/access

Network flooding

Avoid eclipse attacks

GATEWAY DEPLOYMENT
APPLICATION FIREWALL

SERVICE

GATE WAY

POLICY

GATE WAY1   GATE WAY2   GATE WAY3   GATE WAY4

MACAROONS
LIMITED AUTHENTICATION

Limited Privileges

INVOICES

PAYMENTS

Remote Access

PROCESS

Remote Initiation

Married Wallets

Close Out Address