Network attacks and updates

Selfish mining ~>
Network power allows attack; even
with small fraction.

Bit coin Networking

. > 10.000 Nochs

· each nodes chooses 8 mods to connect to 0 Nodes take at most 128 connections

Broadcasting:

Block is big 1MB

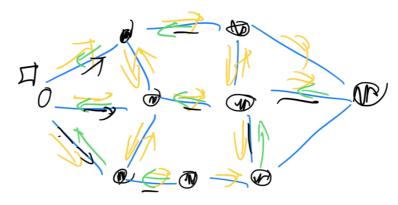
get Black
3 times.

broadcast block ~3 too much trafic

Disseminale Hack

o Broadcasts an intenterry:
Block into without data

· Regnest blocks from one neighbor



-> lamberjes

- Regnest

-> Block

Problem 3

what it you get hi unterny, but no block

set times on sending reguest

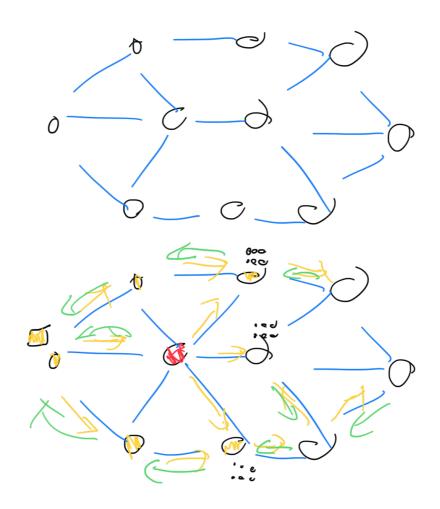
1. I like

o on timeow), send region ? to different holle

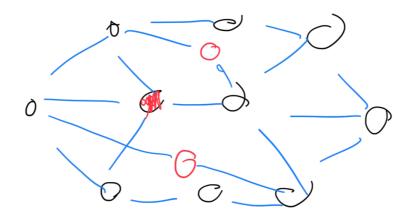
Delinry derial affack

sured out in venteries

a do not send block



Sybil attack o Attacke compaiste multiple nods · Can affect connectivity.

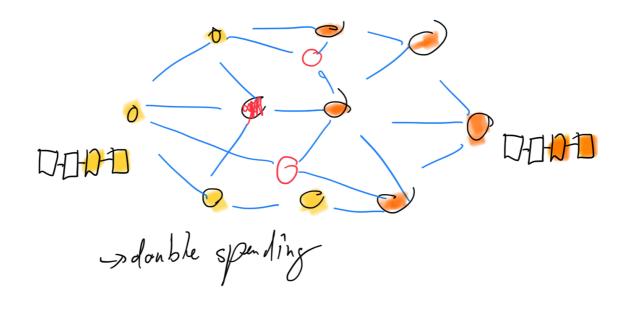


Ballonce offack

otherform sybil and forwarding attack

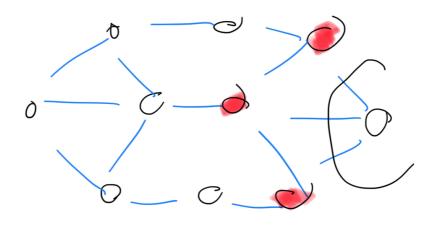
Try to enforce that parts of the notwork

mine on different tooks



· Sybil attack targeted at one nede

· Cont of one node · Double spiril



Updating a block chain

software versions, -> need to update

· fix bys

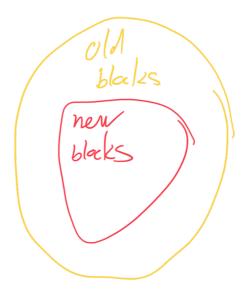
· rew feating

every nodes updates to new version when he wonts (a not at all)

Her to introduce changes;

· Soft fork

Semi blocks / transactions from the old vesion are no longer valid under the new version



alt majority of miners apolate, old version disapproors.

Expi security apolate: disalow sonothing newfenture asing previously ignored perameter.

Herd fer 2

Some new blocks were not valid unds ald fund;

Eg. " Introduce New teature appear appear.

Her ald

Hard and soft feel2

