

PorcFest XII - 24 June 2015

Mesh Networking 101

Decentralising Internet Access
Away from ISP Strangleholds

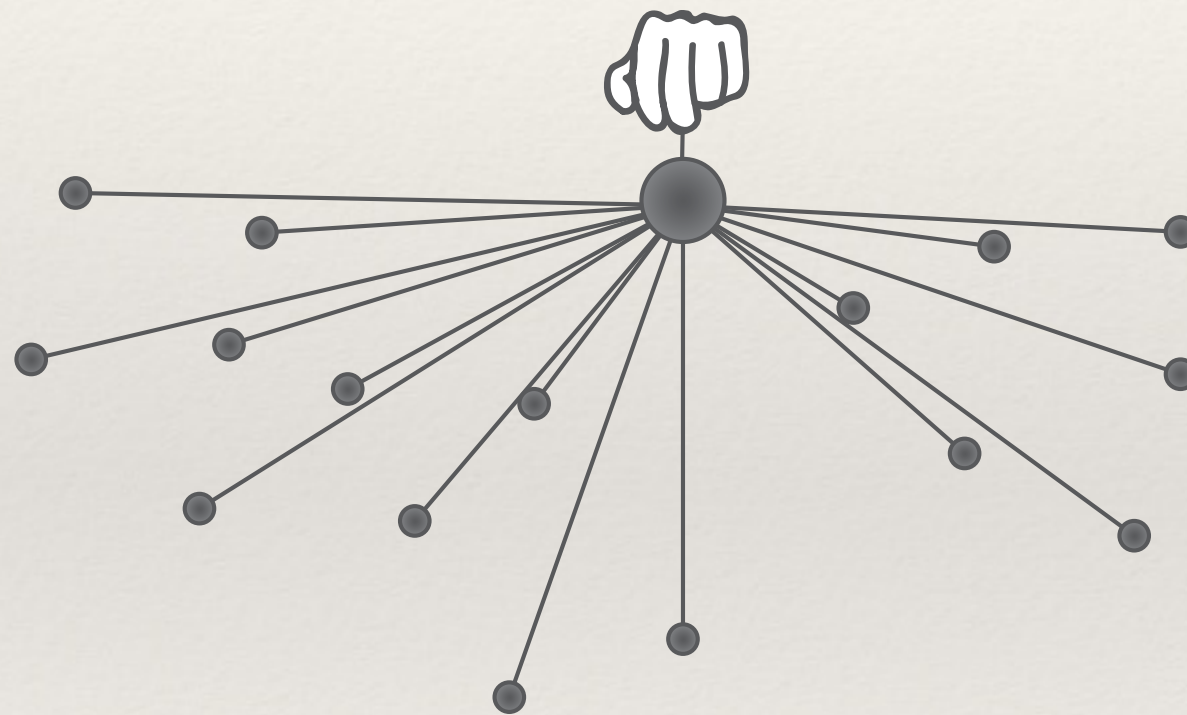
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Centralisation of Communications

Major corporations controlling access to the Internet



Honesty doesn't scale



Centralized

Evolve faster than parasites

Decentralisation is just as necessary to security.... but does not ensure security!!

To defeat strong parasites, we must think smarter

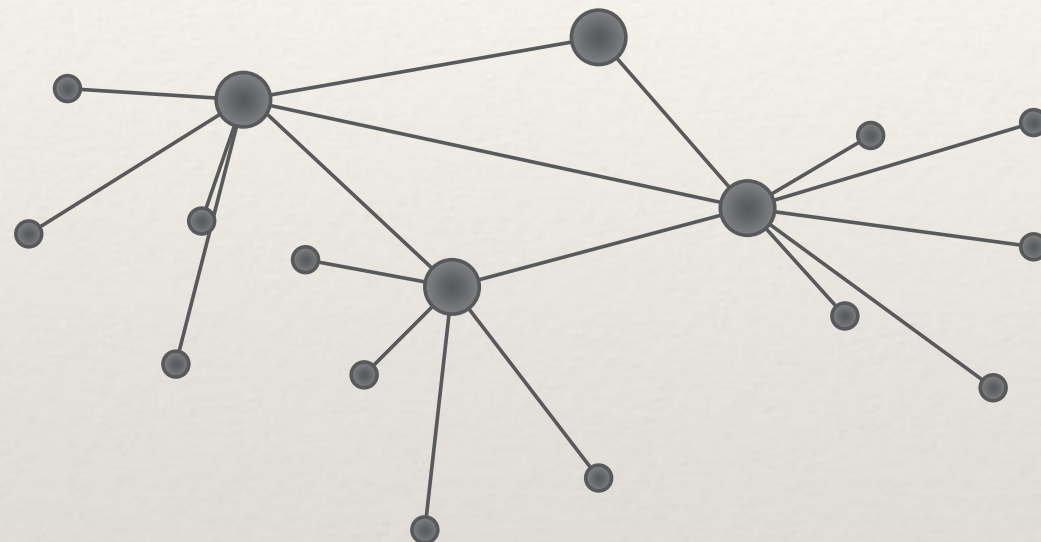
Difficult task to do but enables access to communication for more people
and removes dependence on access to info, knowledge

ISP costs in America are the highest in the world
due to lack of state intervention... yes, I said it

.....but really, decentralisation doesn't guarantee security.

Mesh nets - a grassroots approach

If the entire world is connected p2p, why would we need ISPs?



Decentralized



Mobile ad hoc networks

Install software on all types of devices to act as nodes
(routers most efficient, though)

Small scale implementations within businesses, factories, hotels, etc...

Meraki (Cisco), OpenMesh, etc...
are closed!

Start with open standards

[illegible]

Actual mobile devices...

Not as efficient in routing but strength in numbers



Communities charging the way

Communities and companies both pursuing opportunities,
but many more grassroots efforts...



guifi•**net**



Competition for the benefit of everyone

**WIRELESS
BATTLEMESH**
v8 MARIBOR SLOVENIA



3RD - 9TH AUGUST 2015 - DOM OBRAMBE PEKRE
WWW.BATTLEMESH.ORG

Logos of participating organizations and sponsors:

- ALTER POINT
- CONFINE
- WIRELESS
- OpenWrt
- OLSR
- libremesh
- Hyperboria
- guifi-net
- bmix6
- AWMN
- Surfpony
- Wireless Freedom
- 3rdRank.net

Knowledge IS freedom

Internet access for those who can't afford today's services,
independence from monopolies....

....dependence on each other

Public service owned by no one

Local services and emergency scenarios