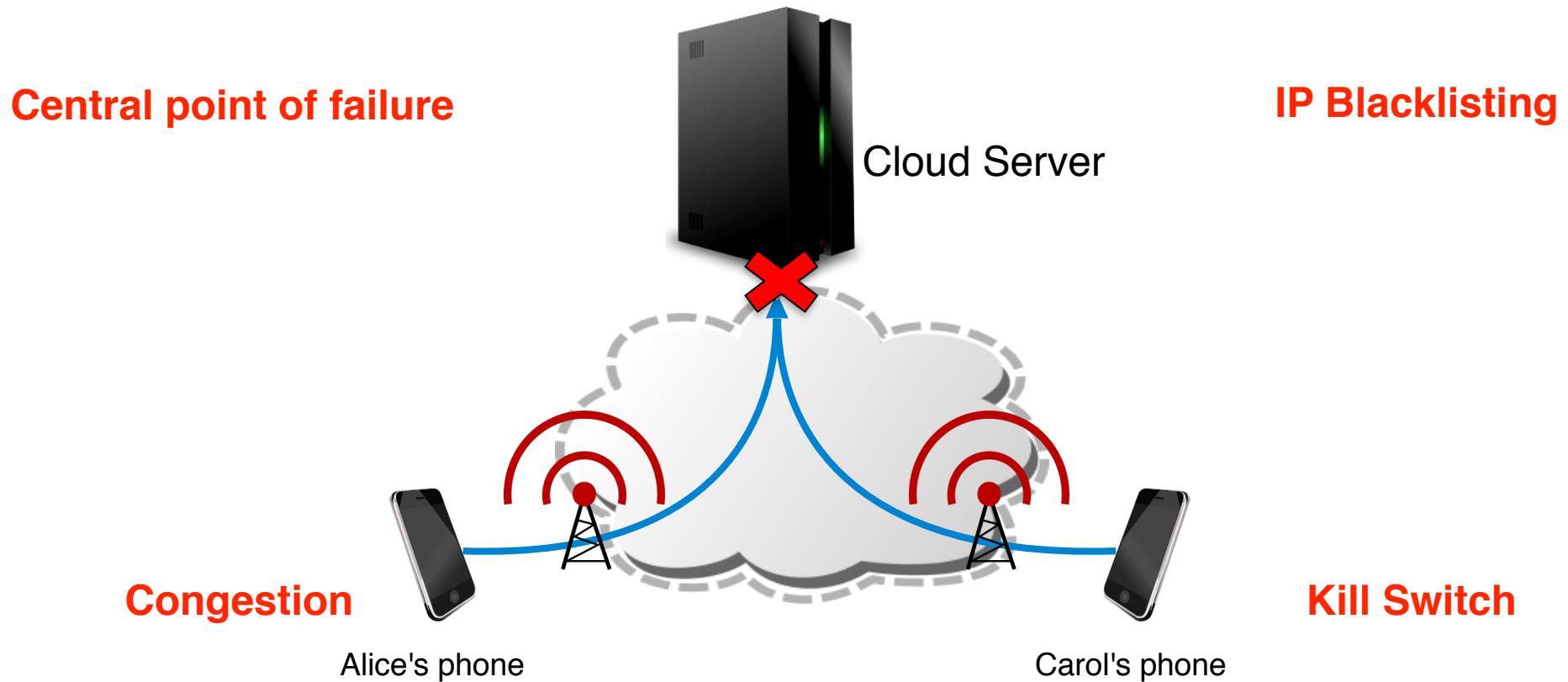


Background & Motivation: Issues with Traditional Communication cont.

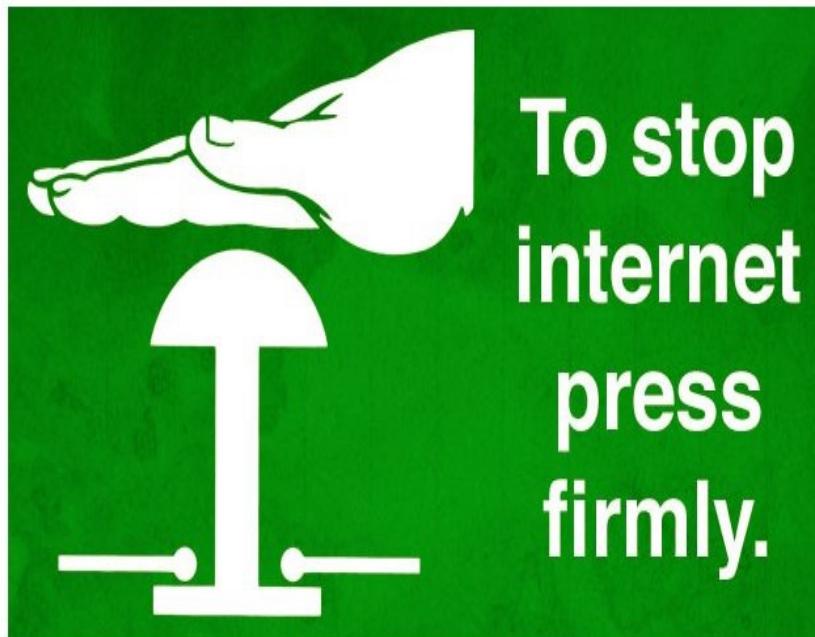


60% of the world has mobile devices
50% of the world is without Internet access

Background & Motivation: Issues with Traditional Communication cont.

How Egypt did (and your government could) shut down the Intern

By IJitsch van Beijnum | Published about a year ago



How hard is it, exactly, to kill the Internet? Egypt seems to have been able to do it. But Egypt's situation is exactly the same as that in the Western world. And even though Egypt only has four big ISPs, the fact that everything went down after midnight local time suggests that it took considerable effort to accomplish the 'N shut-off. After all, it seems unlikely that President Hosni Mubarak ordered the Internet to be shut down as he went to bed; such a decision must have been made earlier in the day, and then taken hours to execute.

<http://arstechnica.com/tech-policy/2011/01/how-egypt-or-how-your-government-could-shut-down-the-internet/>

FireChat Prepares Encryption Feature As It Drives Hong Kong Protests

+ Comment Now + Follow Comments



FireChat powered protests at the Burning Man festival, allowing users to communicate off-the-grid when Internet connections were sluggish and/or nonexistent. FireChat was downloaded over 100,000 within a 24 hour period

<http://www.forbes.com/sites/parmyolson/2014/09/29/firechat-prepares-encryption-feature-as-it-drives-hong-kong-protests/>

Related Work

Related

- Haggle Project¹
- OS: Linux, Android (rooted), iOS (partially)
- Runs system wide
- Conceptually discusses security (no claim framework is secure)
- Captures node interaction times

AlleyOop Social / SOS Middleware

- OS: iOS
- Runs as a framework in any application
- Easy incorporation of many routing schemes (<100 lines of code)
- Captures node interaction along with ability to leverage OS

[1] Su et. al, “Haggle: Seamless networking for mobile applications”, Springer 2017, <https://code.google.com/archive/p/haggle/>