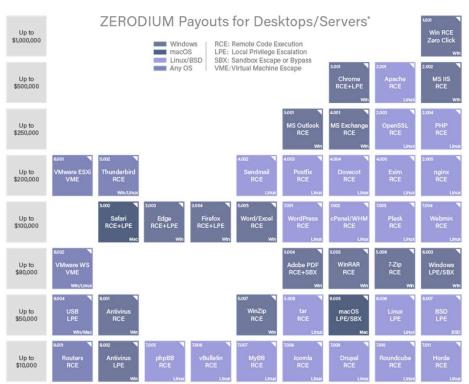
Hacking in the 21st Century

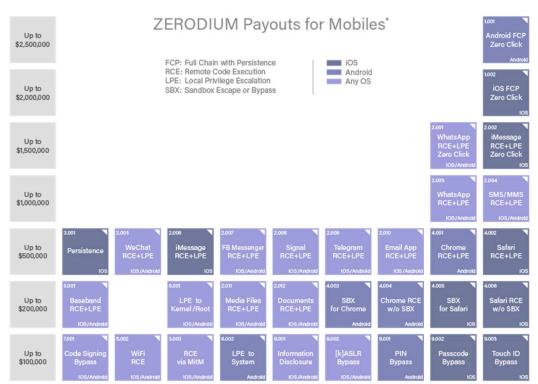
Sidhardh Burre





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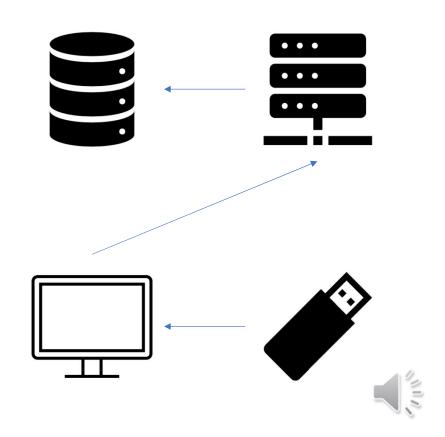






Stuxnet

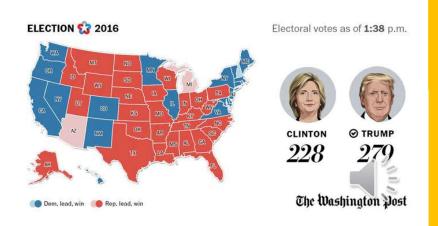
- Used four exploits
 - 1. .LNK exploit
 - 2. 2. Remote code exploit for network printers
 - 3. Escalation of privilege zero day 1
 - 4. Escalation of privilege zero day 2
 - Zero-day flaw in Siemens PLC
 - Conficker attack hole
- What was it designed to do?



What does this mean for war?

- War has completely changed
 - Hyper-efficient
 - Anonymous
 - Little to no oversight
- Cyberwarfare capabilities
 - espionage
 - sabotage
 - propaganda
 - economic disruption
 - etc.





"...Napoleon won his victories because the Grand Army could outmarch the enemy. It is the same to-day. War never changes. Only weapons are new. Yet it is not always the weapons, but the men who handle them, who win victories."

-"The Days Work of a Soldier" from The World's work; Second War Manual; The Conduct of War (1914)



What does this mean for us?

- Our capabilities for destruction have outstripped our abilities to understand them
 - Specify and follow rules of engagement
 - Apply intense scrutiny to companies/organizations/people that develop/research/disseminate enabling technologies
 - Contain civilian fallout

