

CS 161- Homework#4

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Problem 1

- (a) The attacker can use admin/password to login into the CheepO'Router webserver and change the original DNS server into a fake DNS server to redirect any of a host's lookups to a machine of the attacker's choice that host HackrzSrch.com search engine.
- (b) The attacker drives by the victim's house and use his own laptop to connect to the victim's internal home network. Then he can log in the CheepO'Router webserver and change the original DNS into a fake DNS server to redirect any search engine traffic to a machine of the attacker's choice that host HackrzSrch.com search engine as described in part (a).
- (c) The malware can automatically log in the CheepO'Router webserver and change the original DNS into a fake DNS server to do the same things as in the previous parts (a) and (b).
- (d)

Problem 2

- (a) In a certain one minute window, check the IP packet header of the packets received from a host P. If the counter is not continuous, then host P sends packet to more than one host A. This method cannot be used to test if P received a packet from anyone.
- (b)

Problem 3