01:090:101 Section 51 Hill 120  Tuesday, 3:20-4:40


02: How to get infected. Phishing. Spearphishing. d0xed game.

03: Discuss the game elements. Erasing data forever. Lying.

04: The web of you. Who has it? What can they do with it? Good practices.

Class presentation description.

05: Class presentations picking. What can I do with a little bit of you? Why the web can lie forever – wikipedia.

06: Social media. What’s good and bad practices.

07: The other side of the curtain – what are the responsibilities of the holders of data?


09: Presentations, part 1 (randomly selected.)

10: Presentations, part 2 (randomly selected.)

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Social Media

• What is “social media”?

• What do people give out to strangers via SM?

• What could be done with collection of the various social media sources?
Responsibility of providers

• Am I responsible for misuse of pictures of me?

• Am I responsible for tweets I might have made years ago, or while drunk?

• Is there a time limit for media?
Responsibilities of providers

• Am I responsible for what happens if I put up embarrassing media of someone else?

• What liability do I have for it? Is it slander to post a picture I took?

• Can I undo putting up something about someone else?
Cybermercenaries for SM

• “X1 Social Discovery”

• “Social media mining”

• Using data graphs to discover relationships
  – Discovering groups, and leaders
  – Discovering data flow paths (who retweets?)
  – Discovering influencers
Figure 3.8: Transitive Linking.
The Search for “opinion leaders” 
(who are the “important bloggers”?)
How do we determine connections?

- How can we tell who influences whom?
I could think of...

- Friending
- Facebook Commenting
- Retweeting
- Blog-reference/Commentary
Tyler Clementi

- Roommate decided it would be fun to have a hidden camera in his dorm room to catch his (gay) roommate getting (slightly) romantic. Roommate and his friends watched.

- Roommate advertised a second ‘event’ on the internet, which did not occur (Tyler noticed the camera and turned it off.)

- Tyler jumped off the GW bridge the next day. Although he had ‘come out’ to his parents, his gayness was not generally known.
What punishment?

• Convicted (March 16, 2012) of 15 counts of privacy invasion... ‘bias intimidation’, evidence tampering, hindering police.

• What sentence do you think he got?
Sentencing

• 30 days in jail, 3 years probation, 300 hours of community service, $10,000 fine.

• He served 20 days and was released

• Although foreign-born and on a student visa, will not be deported.

• Has appealed conviction.
Is it fair?

• The roommate was stupid, but is he responsible for the death?

• Didn’t Tyler overreact to what was essentially a simple embarrassment?

• What would you have done if you were able to sentence the roommate?
Internet: Routing

• How to get from here to there?

• What ‘rules’ would you think would be followed for routing?
  • Fastest first
  • Shortest first

• What happens if a path fails?
traceroute to (14.0.44.88), 64 hops max, 52 byte packets
1  *  192.168.1.1 (192.168.1.1) 3.240 ms 4.020 ms
2  bdle1.eas-ubr2.atw-eas.pa.cable.rcn.net (10.48.192.1) 11.887 ms 13.020 ms \ 14.691 ms
3  bvi4.aggr1.phdl.pa.rcn.net (208.59.252.2) 13.136 ms 15.319 ms 16.543 ms
4  bdle6.core2.phdl.pa.rcn.net (207.172.15.35) 19.019 ms
    bdle1.core1.phdl.pa.rcn.net (207.172.15.34) 19.073 ms
    bdle8.core2.phdl.pa.rcn.net (207.172.15.51) 20.151 ms
5  tge0-1-0-1.core2.nyw.ny.rcn.net (207.172.19.229) 21.695 ms
    tge0-0-0-3.core2.nyw.ny.rcn.net (207.172.19.21) 17.170 ms
    tge0-0-0-5.core1.nyw.ny.rcn.net (207.172.19.70) 19.514 ms
6  bdle2.border2.nyw.ny.rcn.net (207.172.15.67) 18.918 ms 17.758 ms
    bdle3.border2.nyw.ny.rcn.net (207.172.15.85) 41.699 ms
7  peering.kddi.com (198.32.160.25) 18.231 ms 22.097 ms 16.767 ms
8  nytjb001.int-gw.kddi. (59.128.3.69) 24.442 ms
    nytjb002.int-gw.kddi. (59.128.3.73) 16.721 ms
    nytjb001.int-gw.kddi. (59.128.3.69) 26.996 ms
9  lajbb002.int-gw.kddi. (59.128.3.13) 85.226 ms 83.861 ms
    lajbb001.int-gw.kddi. (59.128.3.5 ) 86.568 ms
10 otejjbb206.int-gw.kddi (106.187.8.17) 198.131 ms
    otejjbb205.int-gw.kddi (106.187.8.13) 197.340 ms
11 otejjbb206.int-gw.kddi (106.187.8.17) 200.877 ms
12 sjkkbac07.bb.kddi. (106.162.175.154) 191.648 ms
    sjkkbac08.bb.kddi. (27.90.191.14) 197.531 ms
    sjkkbac07.bb.kddi. (106.162.175.10) 188.530 ms
13 odbpbbac03.bb.kddi (111.87.242.54) 203.238 ms
    odbpbbac04.bb.kddi (111.87.242.66) 207.542 ms
14 111.86.159.54 (111.86.159.54) 185.323 ms
    111.86.159.66 (111.86.159.66) 193.906 ms
    111.86.159.54 (111.86.159.54) 204.758 ms
15 14.0.40.118 (14.0.40.118) 193.951 ms
    14.0.40.214 (14.0.40.214) 185.043 ms 204.043 ms
16 14.0.44.88 (14.0.44.88) 179.803 ms 199.297 ms 246.369 ms
traceroute to www.amazon.com (176.32.98.166), 64 hops max, 52 byte packets
1 192.168.1.1 (192.168.1.1) 3.092 ms 1.361 ms 20.240 ms
2 bdl1.eas-ubr2.atw-eas.pa.cable.rcn.net (10.48.192.1) 10.685 ms 31.209 ms 67.390 ms
3 bvi4.aggr1.phdl.pa.rcn.net (208.59.252.2) 16.691 ms 13.764 ms 13.712 ms
4 bdle6.core2.phdl.pa.rcn.net (207.172.15.35) 19.305 ms 20.138 ms
    bdle8.core2.phdl.pa.rcn.net (207.172.15.51) 27.233 ms
5 tge0-0-0-2.core1.lnh.md.rcn.net (207.172.19.227) 18.201 ms
    tge0-0-0-3.core2.lnh.md.rcn.net (207.172.19.50) 25.894 ms
    tge0-0-1-1.core1.lnh.md.rcn.net (207.172.19.77) 26.157 ms
6 tge0-2-0-2.border1.eqnx.va.rcn.net (207.172.19.83) 19.830 ms
    tge0-0-1-3.border1.eqnx.va.rcn.net (207.172.19.179) 18.580 ms
    tge0-0-1-1.border1.eqnx.va.rcn.net (207.172.19.38) 18.061 ms
7 equinix02-iad2.amazon.com (206.126.236.35) 20.954 ms
    equinix01-iad2.amazon.com (206.126.236.68) 21.633 ms 30.840 ms
8 54.239.111.236 (54.239.111.236) 43.366 ms
    54.239.111.240 (54.239.111.240) 24.801 ms
    54.239.111.226 (54.239.111.226) 40.711 ms
9 54.239.108.231 (54.239.108.231) 38.011 ms
    54.239.108.61 (54.239.108.61) 22.058 ms
    54.239.109.9 (54.239.109.9) 19.610 ms
10 205.251.245.230 (205.251.245.230) 62.535 ms
    72.21.222.149 (72.21.222.149) 22.988 ms 37.024 ms
Projects

• Questions?

• Changes?

• Started yet?

• What Sources are you using?