

CSU Subnet Managers

November 29, 2017

Cyber Wednesday!

“Alexa, patch my servers!”



Agenda

- IS Update – Shawn Baker
- Middleware Update – Randy Miotke
- RAMtech/Licensing – Diane Noren



Agenda (cont.)

- Security – Steve Lovaas
- Network/Telecommunications/VOIP
– Greg Redder



IS Update

Shawn Baker

- Banner 9
- KFS load balancing
- HR RUP10 patch
- Campus reporting tool
(WebFocus negotiation)



Middleware – Randy Miotke, ACNS

- Shibboleth IdP software updated to 3.3.2
- eID
- WebAuth EOL – December 31
- Self-service update December 6
- Early January
 - eduPerson and Grouper LDAP directory updates
 - External Identities project production phase one live



Licensing – Diane Noren

- Adobe
 - Acrobat Pro Campus wide
 - FTE based
 - Renews February, in Process
 - Cost same as last year
- Creative Cloud
 - Cost the same as last year
 - \$250.00 per Named User
 - \$175.00 per Device-must have computer name
 - Must notify RAMtech if computer name changes



Licensing

- Mathematica
 - Renews at end of the month
 - Network license- cost same as last year
 - Cost is \$475.00 per licenses
 - Cost directly from Wolfram \$650.00
 - Desktop License cost is \$399.00 (less than last year)
 - Cost Directly from Wolfram \$595.00
- Microsoft
 - Just started sending Invoices



RAMtech

- SPSS-Amos
 - January 1 renewal in Process
 - Departmental cost \$72.75 this year
 - Same license directly from IBM cost \$595.00
 - Network/Remote License cost same as last year
- Faculty & Staff Night with the Bookstore
Dec.6,2017,
 - iPad Pro giveaway and other prizes
- Questions



Security Chat

Steve Lovaas, Information Security
Officer



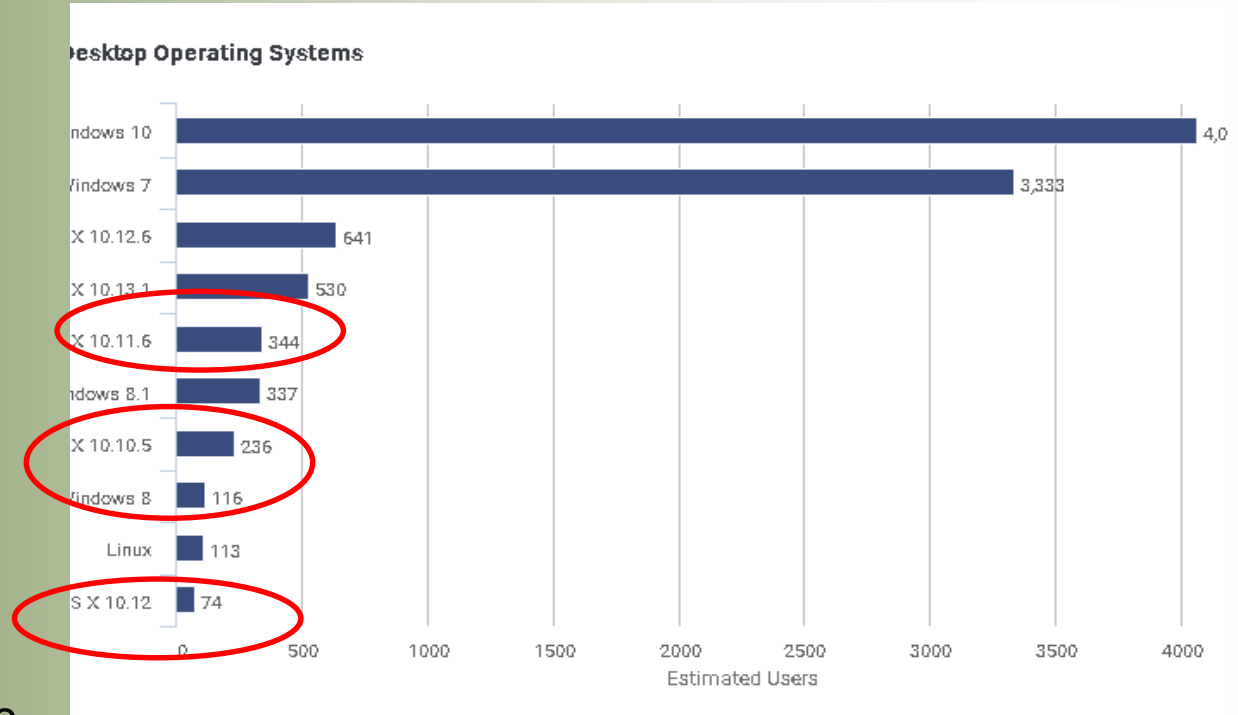
No updates

- Today, rather than a list of items I could easily share via email, I want to talk about our user-device attack surface.
- We use BitSight to give visibility into what's available from the internet, as well as the devices that are reaching out to interact with public servers.



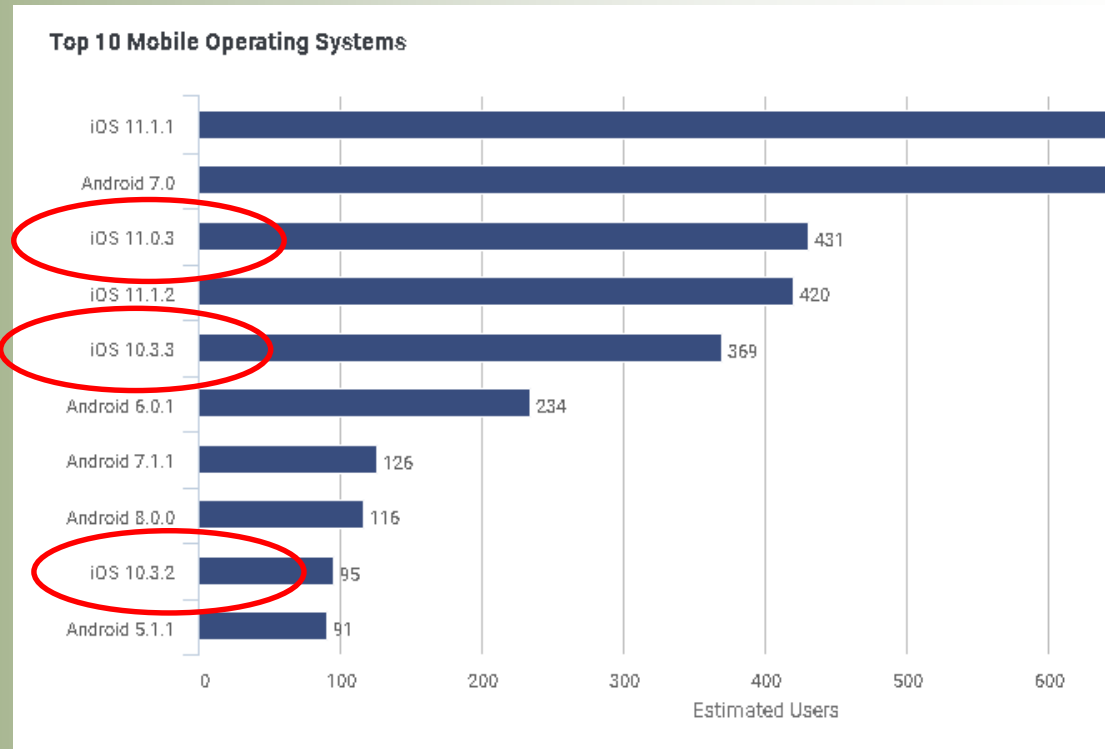
Desktop OS versions

- Minimum supported/protected versions (top 10 in BitSight):
- Windows 10
- Windows 7/8.1 with latest patches (barely)
- Mac OS X 10.13
- Mac OS X 10.12.6
- Too many linux variants to deal with here



Mobile OS versions

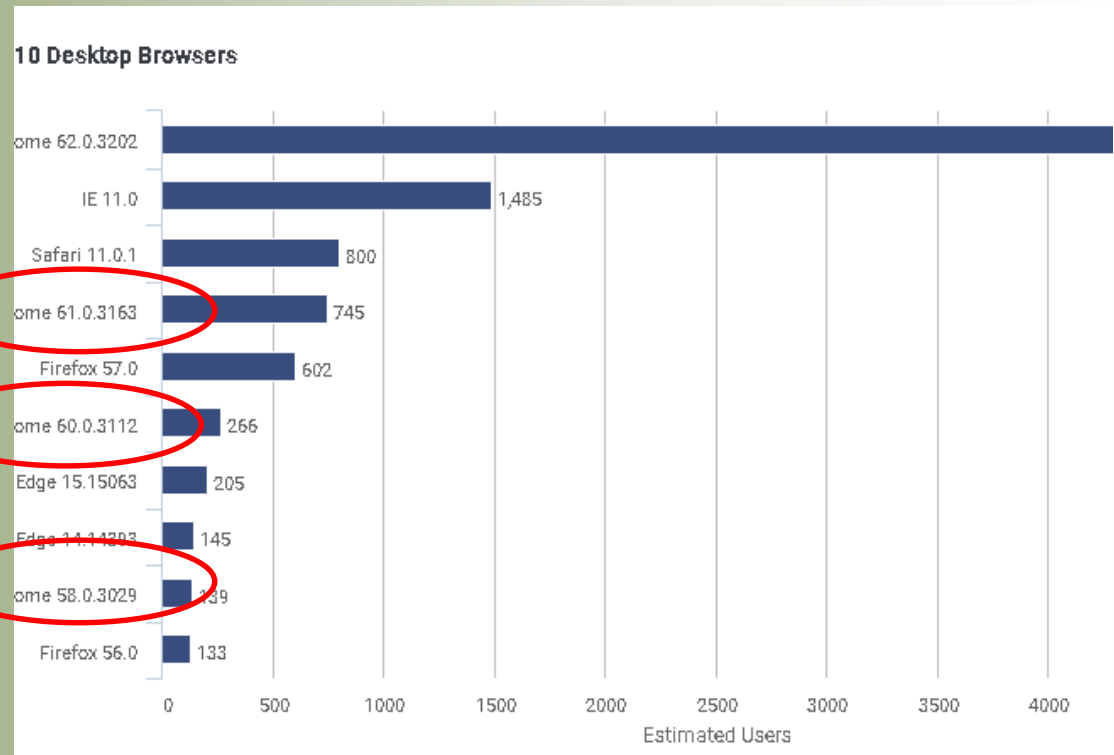
- Minimum supported/protected versions (top 10 in BitSight):
- iOS 11.1.1
- Android 6, 7
- Android 4.4.4, 5.0.1



Browser versions

- Minimum supported/protected versions (top 10 in BitSight):

- Chrome 62+
- IE 11
- Edge 14, 15
- Safari 11
- Firefox 56+

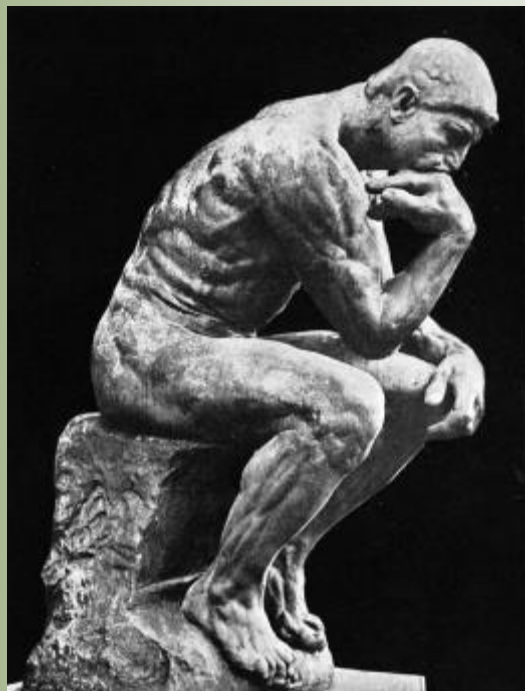


How to proceed?

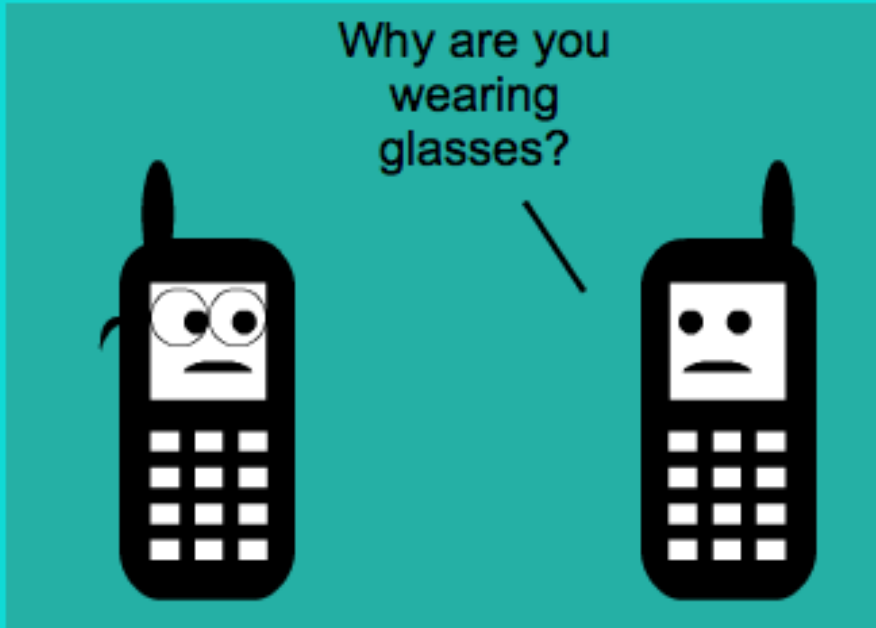
- Biggest culprits:
 - Chrome (which should be auto-updating)
 - iOS
 - Older Mac OS X (update to High Sierra)
 - And be moving away from Windows 7/8.1
- Look at your Nessus scan results (you're looking at them, right?)
- Contact soc@colostate.edu to get a login to BitSight, and look at your devices



Questions?



Network & Telecom Operations



Network & Telecom Operations

Network Operations:

- Traffic loads
- Construction
- MDF Upgrades
- Wireless update

Telecom Operations:

- Comm Room Keys
- Data patching
- Removal of analog phone switches
- VOIP



Traffic loads

Border:

- FY18: New border routers
 - 1 installed last Sunday
 - Other pending mid Jan before classes start
- FY19: 1x100G to FRGP
- FY20: 2x 100G to FRGP



MDF Upgrades

CIC Funding (new HP 5412R in MDFs)

- Centennial Hall
- SBB (condense to one 5412R)
- BSB
- EHS
- Yates
- RBL
- A/Z

“Hand me down to IDFs”



Construction

Done!:

- HPCRL

Started:

- TMI
- Richardson Design Center
- WCNR Addition
- A/Z Addition
- Animal Science Addition



Wireless

- 24K at mid-day
- 100K over month



Wireless

“Wave2” building upgrades (FY18)

- Morgan
- Eddy
- Plant Science
- Chemistry
- Rockwell
- A/Z
- Natural Resources
- Aylesworth (C-Wing)
- Visual Arts

UTFAB Funded



Wireless

Non UTFAB upgrades

- Going through non General Assignment related buildings and replacing 1st generation access points with 802.11ac Wave1 APs.





Central Receiving

Eddy

Plant Science

TiLT

Surplus

Alder Hall

Trio House

Confucius Institute



Wireless

- Xpressconnect configuration tool no longer available
- AdHoc WiFi networks, printers, etc. are causing interference.



~~“Comm Closets”~~....err, I mean: Communication Room Keys

Some MDFs/IDFs are keyed to building masters

- ACNS doesn't issue building masters. We will work with network managers to share cost of re-keying communication rooms.

New buildings: cardkey for network managers

- For new buildings without cardkey – we'll work closer with Facilities on keying properly.

Facilities is working on modernizing an aged key record system.



Data patching

Currently:

- “do it yourself” model: Network manager purchase and install red data patch cables
- “service order” model: Telecom will do work for free in 3-5 business days

Proposed:

- “Helpdesk” model: 4 business hours, free (upper limit: as yet to be determined)
- Targeted to start 1st Quarter, 2018



Removal of analog phone switches

Mid Dec:

- ERC remote switch
- ARBL remote switch

End of Dec:

- University Village remote switch

Main “SL-100” in Glover:

Main campus:

- Central: 75% completed
- East: 50% completed
- West: 25% completed
- The End!



VoIP Update

- Telecoms are losing an average of 700,000 landline customers per month.
- There will be 1 billion VoIP users by the end of 2017.
- Experts project that by the end of the year 2018 only 6 percent of the U.S. population will still be using the traditional landline phone network.



VoIP Update/Upcoming

- Working on call transfer issue.
- Continued work on presence. We think it better, but not 100%
- Last install!
 - President's Office Mid Dec.
- Backend work
 - Long Distance
 - Voicemail
 - Phone Connections to world
- 8318 Phones on VoIP



Reminders

- Moving Phones – Don't!
 - Telecom will move them for FREE
- Move Policy:
 - Phones can only be moved by ACNS/Telecom. To instigate a phone move by ACNS/Telecom, a service order must be placed: Service Order Form.
 - A \$56 fee will be assessed for each phone that was moved without a preceding service order.
 - Turning off POE (Power over Ethernet) to non-phone ports.
- No Building Power = No network = No Phone



Thank you!

Network Operations
&
Telecom Operations



Next Subnet Managers Meeting

Wednesday, March 21, 2018

10 am – noon

LSC 376 - 378

