

CSU Subnet Managers Meeting

Wednesday, March 25, 2015

Spring time in the Rockies...

Agenda

- Mobile Device Management
- Code 42 CrashPlan and/or SharePlan Microsoft
- Azure Research Services
- Dell Server/Storage Roadmap
 - Scott Baily

- IS Update – Josh Clark
- Licensing – Diane Noren
- Lamar Migration / Ofc 365 Update
 - Dave Hoffman, Lance Baatz

Agenda (cont.)

- VOIP – Kyle Haefner
- Canvas Update – Kevin Nolan
- Security Update – Steve Lovaas
- Network Operations Center – Richard Duffy

Special Topic:

Safeguarding data when traveling internationally.

-Scot Allen, CSU Export Control

-Dan Herrick, Engineering

Scott Baily

- Mobile Device Management
 - Product called AirWatch
 - Manage people and devices
- Code 42 CrashPlan and/or SharePlan
 - Endpoint backup and restore service
 - Scott will arrange demo for campus

Scott Baily

- **Microsoft Azure Research Services**
 - Electric car – data stored in Azure
 - CSU has 2 of these cars
 - Will do a presentation for the campus.
- **MS Office campus agreement**
 - Dell is our MS reseller
 - Pricing should be about the same for next year.
- **Server/Storage Roadmap**
 - Will ask Dell and HP to come to campus.

Information Systems Update

Josh Clark, IS

- Banner
 - will upgrade to XE over next 18 mos.
- HR
 - Looking at Oracle leave management system.
 - Tie in with current Oracle HR
- Kualu
 - Upgrade to 532

Licensing

- **Symantec reminder**
 - Renewed for 1 year last July
 - Cost \$13.85 per FTE
 - Need account #s for payment
- **Adobe**
 - *Acrobat Pro License*
 - \$11.25 per FTE (Same as last year)
 - New version expected late April
 - *Adobe Creative Cloud Named User License*
 - \$250 per year/ pro-rated every 2 months
 - Includes all online features + 2 installs
 - *Adobe Creative Cloud Device License*
 - \$175 per year/ pro-rated every 2 months
 - NO online features-1 install

RAMtech

- Apple
 - Taking orders for new MacBook
 - Will not ship until after April 24
 - New MacBook Pros arriving next week

Ofc 365 Update / Lamar Decommission

Dave Hoffman, – ACNS

- Schedule
- Large Attachments
- DNS and SMTP
- Websites

Lamar Decommissioning

Dave Hoffman, Lance Baatz, ACNS

Objectives:

- Move all email off of Lamar
- Move all websites off of Lamar – approx. 660
- Move all file storage off of Lamar
- Unplug Lamar – approx. Aug 1, 2015

Timeline

- Stop Creating New Lamar Accounts – Dec 2014
- Consolidate users that have Mailboxes on both Lamar and Exchange onto Exchange – Complete in early March 2015
- **Move Lamar Only Users to Office 365 – In Progress**
- **Move all Websites from Lamar – In Process**
- Move users that to Office365 that forward mail
- Migrate Exchange Users to Office365
- Start creating all new accounts in Office 365

Lamar to Office365

- 16K users
- First group moved last night/second tonight
- Finalize schedule and post next week
- Complete by early to mid June

- Migrated Lamar users will have ability to:
 - Use Calendaring
 - Use One-Drive for Business

Migration

- New Office365 Mailbox created
- Create folder called `_FromLamar`
- If the deliverable e-mail address is set to an address other than `ename@lamar.colostate.edu`:

One-time forwarding will be setup

- If deliverable e-mail address is set to ename@lamar.colostate.edu but there is a `.forward` file on the account:
a one-time forwarding option will be set to redirect to the address in the `.forward` file.

Impact to users

- Email addressed to `ename@lamar...` or `ename@colostate...` will be delivered to Office365.
- From address will change to first.last@colostate.edu
- Email clients will have to be reconfigured (thunderbird, outlook, mobile...) to connect to the the Office365 mailbox
- Users will login to Office365 with their ename@colostate.edu and their password
- Any address books on Lamar will not migrate and will need to be exported and imported

Impact to users (cont.)

- Calendaring: Can schedule meetings, but can only assign delegates and share with others on Office365
- Large Attachments (>25Mb) will not be migrated.
 - Users will be notified.
- Office365 will not allow, or forward, attachments larger than 25Mb.
 - Exchange migration will allow up to 150Mb attachments. But O365 send/receive limit remains at 25Mb

Help

- Documentation is available at help.mail.colostate.edu
- Call the helpdesk for support 491-7276
- Many users may not even know they have a Lamar mailbox.
- After mailbox has migrated users can request it be removed by calling the helpdesk.

Websites

- 660 Websites on Lamar
- ACNS is looking at each to determine if there is any content (assuming no content means the site can be removed)
- Sending list to each college/dept contact to review for others that can be removed or moved to the the college/dept website
- Sending an email to all that remain to determine how they want to handle the move of their site(s).

Other Items to Note

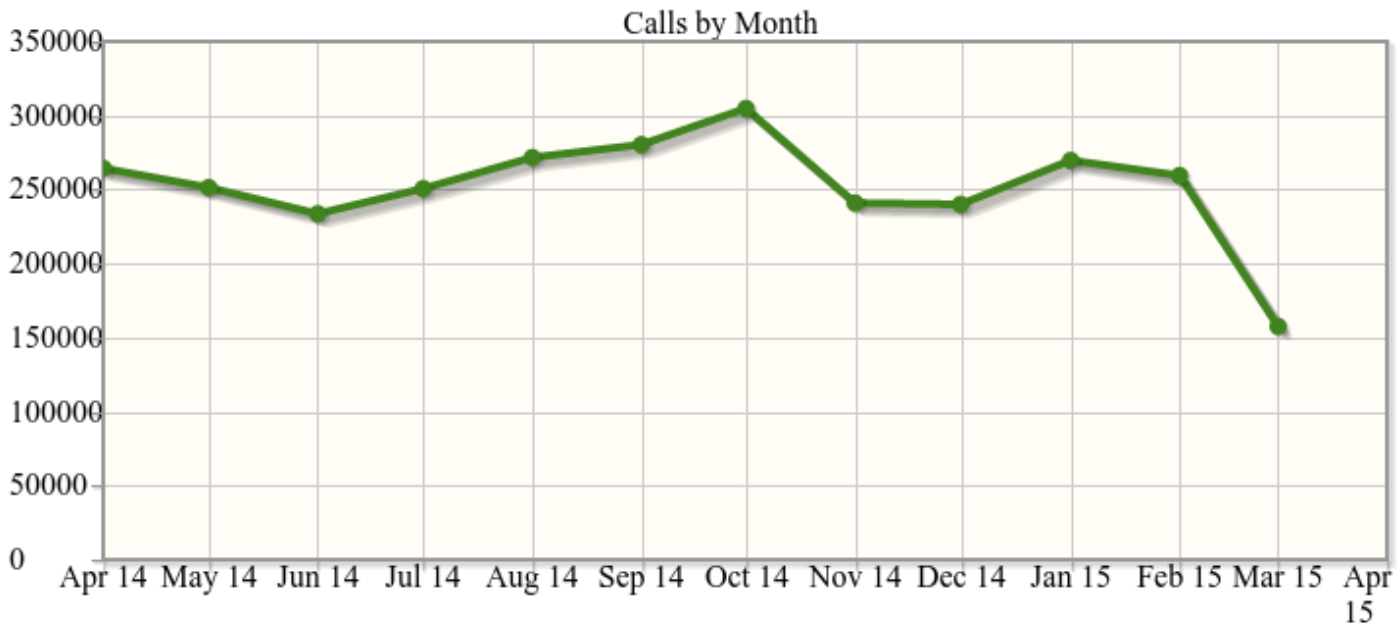
- Using Lamar as a DNS Server
- Using Lamar as a SMTP Server

Questions?

VoIP Stats – Kyle Haefner

- 4,910 Phones approx. ½ f campus
- 689,191 calls in 2015
- 70 of 120 Campus buildings
- 100% uptime since 06/12/2014

Monthly ▾



Upcoming Buildings

Building Name	
Plant Sciences	April 2015
A-Z	May 2015
Palmer Center	June 2015
Weber	July 2015
GSB	July 2015
Rockwell	September 2015
CEMML	October 2015
Yates	November 2015
Regulated Materials	December 2015
ARBL	December 2015

Upgrades

- Upgrade to Servers 03/15/15
- Upcoming Features/Wish List
 - Multicast Paging/Push to Talk
 - Push alerts to phones
 - Call Center
 - SIP Trunking
 - User editable Phone Tree audio
 - Group call out

Reminders

- Moving Phones – Don't!
 - Telecom will move them for FREE
 - We now send a friendly email 😊
- No Building Power = No network = No Phone

RamCT to Canvas Update

Kevin Nolan – ACNS

- All 2014 RamCT courses migrated to Canvas.
- Spring 15 courses will be migrated in late June.
- Fall 15 credit bearing courses automatically created in Canvas.

Supported Browser versions:

– Most two recent (Mar. 9, 2015)

IE 10, 11, Chrome 40, 41, Firefox 35, 36

Safari 7, 8

Flash 15, 16

Security Issues

Steve Lovaas, ACNS

- Windows Server versions
- Risk assessment reminder
- SSL gateway
- PCI changes
- Web security!



Windows Server versions

- Server 2003 should be retired by July
 - Exceptions like XP: firewall, approved plan
 - Group felt this would be no problem.
- Server 2008 R2 should be our line in the sand
- This is where TLS 1.1 and 1.2 become possible
 - Should have a plan for moving to 2012 R2

Risk Assessment reminder

- Has your unit completed the Risk Assessment Tool? Should be done every 3 yrs.
 - Ever?
- If you handle sensitive central data, do this every year
- Cyber liability policy.
- Steve glad to work with you.



SSL Gateway (now Pulse Secure)

- Code upgrade coming for OpenSSL issues.
- Pulse as default instead of Network Connect.
- New IPs – filers may need adjusting.
- Postponed from spring break, now early summer

PCI changes

- New retail terminals
 - Support ApplePay, and Chip-and-PIN when it's ready
- Very near a formal recommendation/requirement for e-commerce
- No e-commerce on wsnet, ACNS lamp, or departmental web server



Web Security: *annus horribilus*

- Since last April 1
 - HeartBleed
 - POODLE
 - ShellShock
 - GHOST
 - FREAK
- OpenSSL and Windows Schannel (pretty much everyone)
- Servers AND clients
 - Get those OS/browser combinations updated (Vista, Mac OS X 10.6)

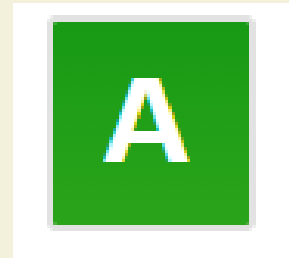


Web Security: moving forward

- Clean up border firewall exceptions: from 446 down to 246
- Scan what's left with GlobalSign/Qualys
 - First round: 8 A 1 A- 40 B 23 C 56 F
 - Getting better already
- How to get from F to A
 - SSLv2, SSLv3
 - InCommon cert, match hostnames (SAN/UC)
 - RC4, Weak ciphers, short keys
 - TLS versions
 - Modern features
- Remember: authentication requires encryption

Web Security: shout-out!

- webmail.engr.colostate.edu
- busrdgateway.busdom.colostate.edu
- havoc.math.colostate.edu
- art.colostate.edu
- vprweb.research.colostate.edu
- rsweb.research.colostate.edu
- arapahoebasin.research.colostate.edu
- meet.otc.colostate.edu



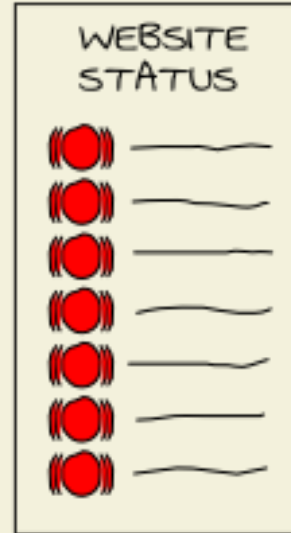
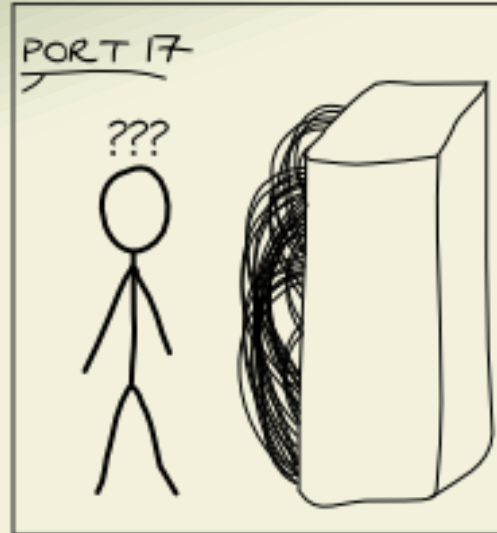
Security questions



NOC

(Network Operations Center)

Richard Duffy pinch hitting for Greg Redder



Agenda

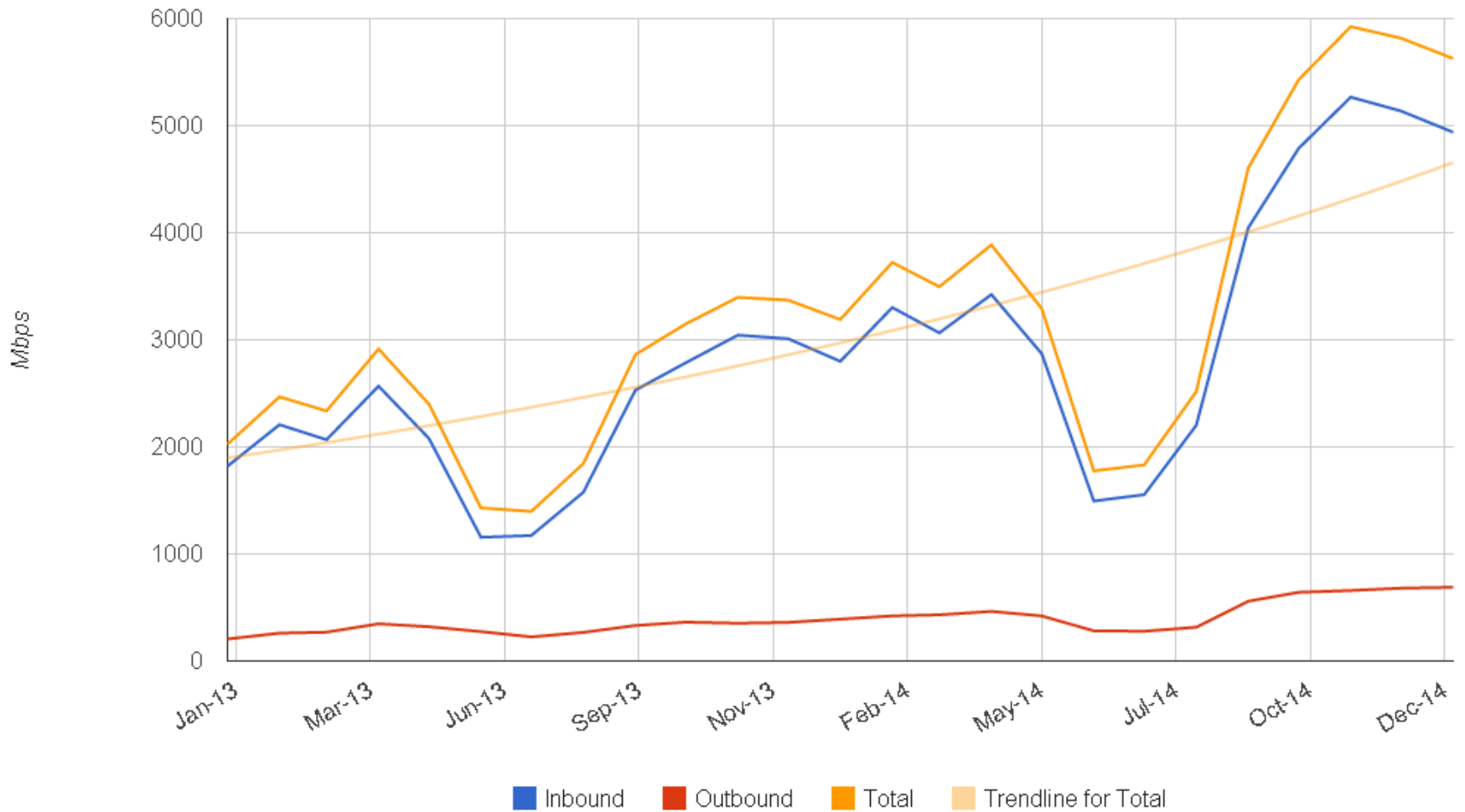
- Traffic stats
- Core infrastructure and 10G upgrades
- IP restructuring project
- Wireless (still, yet, again!)

Traffic Stats

- New peak: ~6.5 Gbits/sec out of 10Gbits/sec
- FY16: add another 10G link to FRGP

Traffic Stats

FRGP Google peering traffic 2013-2014



New dual 10G links

- Completed at last meeting:
Morgan, Animal Sciences, CS
- Completed since last meeting:
Clark C, BSB

Pending IP Restructuring:

- Weber
- NR
- NESB
- Plant Sciences (close!)
- LSC & Rockwell (already conforms to new IP restructuring)

IP Restructuring

Special “thanks” to:

- CLA: Bryan and Greg and crew
- AgSci: Ed and Larry and crew
- HHS: Dave and Eric and crew
- CVMBS: Marty and crew
- CNS: Ross, Zube and crew
- Engineering: CJ and crew
- CNR: Ty!, Robin, Chris, Jonathan and Randy
- Facilities: Dallace, Skip and crew



Wireless

GA-related upgrades...

- Classrooms: upgraded to 802.11ac (Clark pending by end of year)
- Filling in remainder of building with 802.11ac
 - VisArts, Chemistry (floors 1 &2), Plant Sci, NR, A/Z
- New Construction:
 - Animal Sciences, Eddy



Wireless

Non-GA related upgrades

- Old Ciscos replaced: Pretty much everywhere!
- Enhanced coverage pending:
 - Routt, EHS, Engines Lab (old Part), South College Gym (done), UCA, USC, Gibbons, Stats
- New (or really soon now!)
 - Eddy, HES addition at Moby, 2537 Research

Wireless

Transition off csu-net and csu-net5

No more "csu-net", "csu-net5", "csu".



Wireless

Eduroam

Being pushed out everywhere rapidly now!

<http://www.acns.colostate.edu/wireless>

Wireless

Current top issue:

- Macs continually reconnecting! What to do?

Relay issues though:

- help@colostate.edu
- 491-7276
- Central IT Help Desk at Morgan Library.

Thank you.

noc@colostate.edu

Steve Banghart (wireless)

Zack Davis (wireless)

Scottie Dawson (security)

Richard Duffy (switching/routing)

Jim Farnell (wireless)

Nic Garrison (switching/routing)

Kyle Haefner (VOIP)

Steve Lovaas (security)

Greg Redder (manager)

Robert Remsik (switching/routing)

Trent Shane (switching/routing)

Special Topic

Safeguarding data when traveling internationally

- Scot Allen, CSU Export Control
- Dan Herrick, Engineering

Next Subnet Managers meeting

Wednesday, May 20, 2015
LSC 328 - 330