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

3/25/2015
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

• Kuali
  – Upgrade to 532

3/25/2015
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

3/25/2015
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

3/25/2015
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 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 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
<table>
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<tr>
<th>Building Name</th>
<th>Date</th>
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<td>December 2015</td>
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<td>ARBL</td>
<td>December 2015</td>
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</tbody>
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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

www.xkcd.com
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

Mbps

Jan-13  Mar-13  Jun-13  Sep-13  Nov-13  Feb-14  May-14  Jul-14  Oct-14  Dec-14

Inbound  Outbound  Total  Trendline for Total
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