CSU Subnet Managers Meeting

Wednesday, September 17, 2014

80 degrees. Must be time for fall!
Agenda

• Lamar Decommission – Scott Baily

• Licensing Update - Diane

• DNS Server Update – Joe Volesky
Agenda (cont.)

• RamCT to Canvas Update – Kevin Nolan

• Security Update – Steve Lovaas

• Network Operations Center and VOIP – Greg Redder
Decommissioning Lamar
What is Lamar??

- First of the central Unix servers
- IBM RS/6000 running AIX
- Circa 1990
- Email, web, misc. applications
Why sunset lamar?

- Unsupported Hardware
- Unsupported OS
- Security holes we cannot patch
- Preventing InCommon Level of Assurance (LoA) 2 designation
- Better alternatives exist
- Other demands for central support and development efforts
What will replace it?

- **Email** -> Office 365
  - 50 GB quotas (!!)
  - `ename@lamar.colostate.edu` will be redirected to O365, at least for some reasonable time
  - “From” address will change once migrated to O365

- **File storage** -> MS OneDrive offers 1 TB per user

- **Websites** -> Central LAMP services and/or Dept. servers

- **Software applications** -> Desktops, Dept. systems, Cray
When is this happening?

• Goal is to complete the transition by end of December, 2014
Process

• Working on communications campaign
  – Direct email to lamar users
  – Today @ Colorado State

• ACNS will migrate mailboxes to Office 365
  – If user is already on Central Exchange, will just have one O365 account

• Developing online information & training help desk staff

• We can really use your help with users from your college/division
  – High maintenance users
  – Migrating web pages, whether on your servers or central LAMP
Any Questions?
Licensing

Diane Noren, ACNS

• Adobe
  – NO more CS 6 as of Sept. 1, 2014
  – Creative Cloud via Value Incentive Program (VIP)
  – RAMtech purchased the minimum of 100 licenses to have CSU participate in the program
  – Cost $175.00 per license per year
  – Acrobat Pro Licensing staying the SAME

• Mathematica
  – Renews
DNS Server Update

Joe Voilesky, ACNS

4 physical servers, 2 in each Datacenter

RUSH 129.82.103.78 - E7 Datacenter

HASTY 129.82.103.79 - USC/DR3 Datacenter

CRAWFORD 129.82.103.93 - E7 Datacenter

BOWMAR 129.82.103.91 - USC/DR3 Datacenter

9/17/2014
RamCT to Canvas Update

2015
• Spring/Summer - Encourage faculty to move.
• Fall – expected to have course in Canvas.
  – Need exception to teach in RamCT

2016
• Spring
  – Clean up, Incompletes, Make RamCT backups.
• June 30 – contract with Bb ends.
RamCT to Canvas

• Training
  – Hands on Workshops begin in October.
  – Canvas Guides and Videos
  – Set up 1:1 time with College Coordinator or central Canvas support.

• Support
  Canvas Information Center in Morgan open mid Oct.

Stop to learn about project and for answers to quick questions.
Security Items

- Web Site Authentication
- Junos Pulse and iOS 8
- Secure Meeting EOL
- SHA-2 SSL Certs
- Risk Assessment
- AV Committee Update
Web Site Authentication

• CSUID is not intended to be used for authentication

• Use eID instead:
  – Shibboleth (preferred)
  – eID WebAuth (OK)
  – Integrated Windows Authentication (internal only)
  – LDAPS (not for custom apps; no clear text)
Junos Pulse and iOS 8

• Some support at launch (with some known issues)

• Full support with next release, end of October

• Recommend waiting to upgrade if you use the Pulse VPN client
Secure Meeting End-of-Life

• Secure Meeting feature of the Junos SSL VPN (secure.colostate.edu)
• Has been used for desktop support, meetings, some grad classes
• Juniper ending this service (on very short notice)
• Exploring Lync for support (no desktop sharing from Macs) and Canvas/Big Blue Button for classes
SHA-2 SSL Certificates

• SHA-1 hashing algorithm is being phased out

• SHA-2 is stronger, browser companies changing very soon

• InCommon SHA-2 SSL certs available starting 9/22

• All current certs that expire after 12/31/2015 should be replaced before November 2014

Check with Steve Lovaas if you have questions.
Risk Assessment

• If your college/unit takes credit cards, please use the IT Risk Assessment Tool once a year
• This is a new requirement of PCI
• Risk Management Week (December) has two IT sessions
  – Thursday 12/11, 12:00-1:00 General discussion of security & risk
  – Friday 12/12, 9:00-10:30 It Risk Assessment Tool overview and review
    • (For anyone who wants assistance in how to use this tool)
    • I'll be releasing a slightly revised version for that week
Antivirus Committee Update

• Symantec partner planning a Malicious Activity Assessment
  – Evaluate a Microsoft Endpoint Protection environment
  – Doubles as a demo of the Symantec Web Gateway

• Working toward an IAC recommendation by January
NEVER HAVE I FELT SO
CLOSE TO ANOTHER SOUL
AND YET SO HELPLESSLY ALONE
AS WHEN I GOOGLE AN ERRORT
AND THERE’S ONE RESULT
A THREAD BY SOMEONE
WITH THE SAME PROBLEM
AND NO ANSWER
LAST POSTED TO IN 2003

WHO WERE YOU,
DENVERCODER?

WHAT DID YOU SEE?!
Agenda

• New core routers enabling dual 10G links soon!
• IP space restructuring
• Research LAN status
• Wireless (surprise, surprise)
• IPAM Committee update
• VOIP
New core routers enabling dual 10G links soon!

Ready to go:
  • CS
  • Morgan
  • Animal Sciences

Pending IP Restructuring:
  • Weber
  • NR
  • NESB Clark
  • BSB
  • Plant Sciences

Other:
  • SBB?
Please...

Save first “10” IPs: 0-9 for new router and network gear, please.

Routers are .2 and .3 and act as .1
IP space restructuring

Summary: **10.0.0.0/8** are valid campus addresses to add to firewalls.

Public space:
129.82.x.0/23

Private space:
10.1.x.0/23 or maybe 10.2.x.0/23

Other:
Utility LAN for Facilities: 10.11 or 10.12
VoIP: 10.x.y.z
Wireless: 10.82, 10.84, 10.85...
IP space restructuring

Benefits:
- 10G connectivity
- Jumbo frames
- Better performance
Research LAN status

Sending 10G to Internet2:
• Christos and team in CS along with CJ’s team in Atmos/CMMAP

• Next up: Globus, Biology, CHILL
Wireless

Recent and Pending
- GA Classroom refresh to 802.11ac
- Non GA areas to start in 2015
- New construction: Avenir and LSC

Transition to csu-guest from csu
- Umm...what about old “csu” guest accounts?

Transition to csu-eid and away from csu-net and csu-net5
- Splash page in Morgan and USC
Wireless

APs need to be below ceiling...

If you see someone move them above the ceiling, please let us know!

Insulation

Burn mark!
Wireless

Relay issues though:
  – help@colostate.edu
  – 491-7276
  – Central IT Help Desk at Morgan Library.
Wireless

Conference room screen mirroring:

– NOC has a student to help with AirPlay and Crestron AirMedia solutions.

– Investigating other solutions
IPAM Committee Update

**Members:** Aaron Darnell (HHS), Eric Hamrick (Purchasing), Bryan Gillispie (CLA), Steve Lovaas (ACNS), Greg Redder (ACNS), Chad Whisenant (HDS), Mike Willard (ACNS), Marty Yates (CVMBS)

**Investigating:** InfoBlox, BlueCat, BTDiamond, SolarWinds, NetDot.
VoIP Stats

- 4854 Phones
- 1,899,087 calls in 2014
Recently Completed Buildings

- Laurel Village
- Animal Science
- Conference Services Center
Upcoming Buildings

- Plant Science
- Gifford
New Models!

**VVX 410**
- Color
- 12 Lines
- GigE

**VVX 310**
- Grey Scale
- 6 Lines
- GigE
Reminders

• Moving Phones – Don’t!
  – Telecom will move them for FREE
  – Emergency Services Won’t be able to find you!
Thank you.
noc@colostate.edu
Next Subnet Managers Meeting

Wednesday, November 19, 2014
10 AM – Noon
Durrell Center Meeting Room C

Will include demo of BlueJeans and LifeSize Cloud (cloud based video conference software)

-Chris Chagnon, ACNS