

# **CSU Subnet Managers Meeting**

Wednesday, September 17, 2014

80 degrees. Must be time for fall!

# Agenda

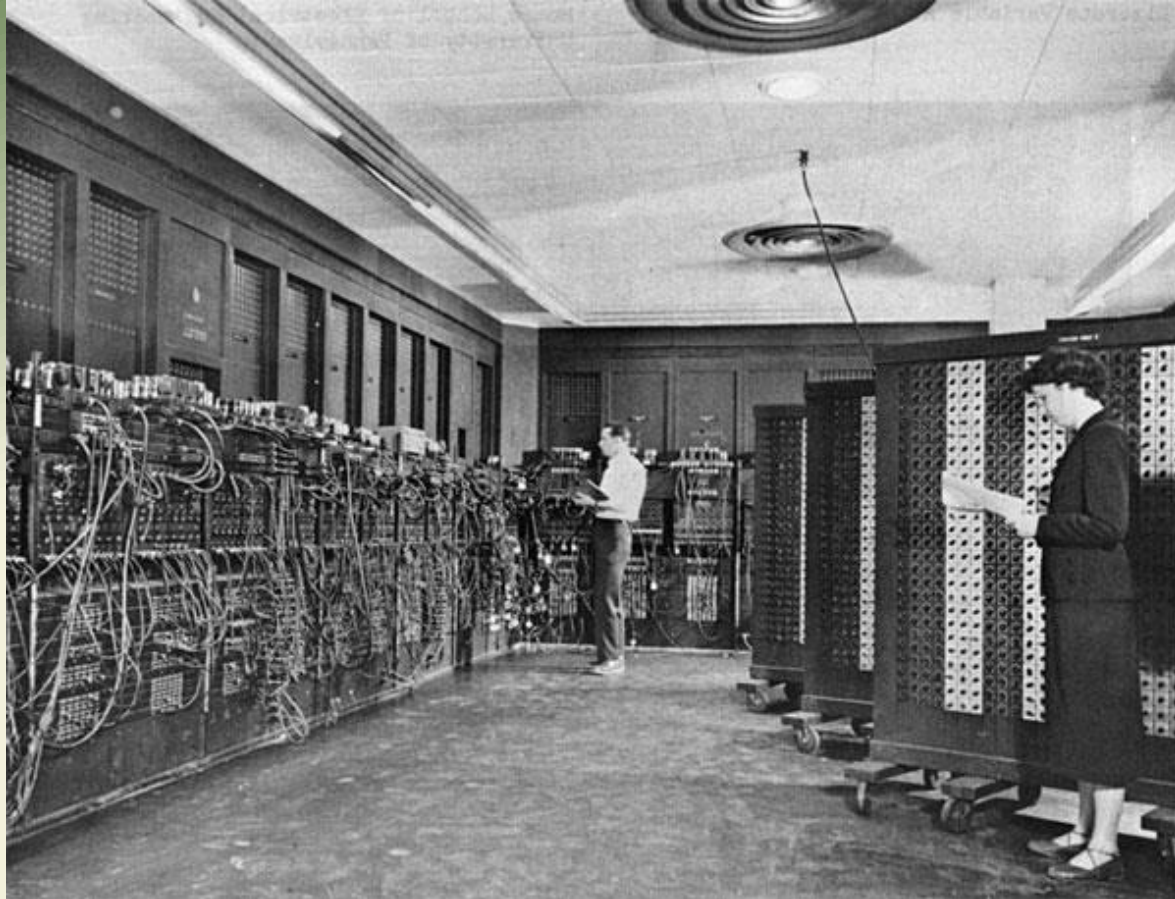
- Lamar Decommission – Scott Baily
- Licensing Update - Diane
- DNS Server Update – Joe Volesky

## **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](mailto: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 Volesky, 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

# 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](https://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

# NOC

## (Network Operations Center)

### Greg Redder

NEVER HAVE I FELT SO  
CLOSE TO ANOTHER SOUL  
AND YET SO HELPLESSLY ALONE  
AS WHEN I GOOGLE AN ERROR  
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:

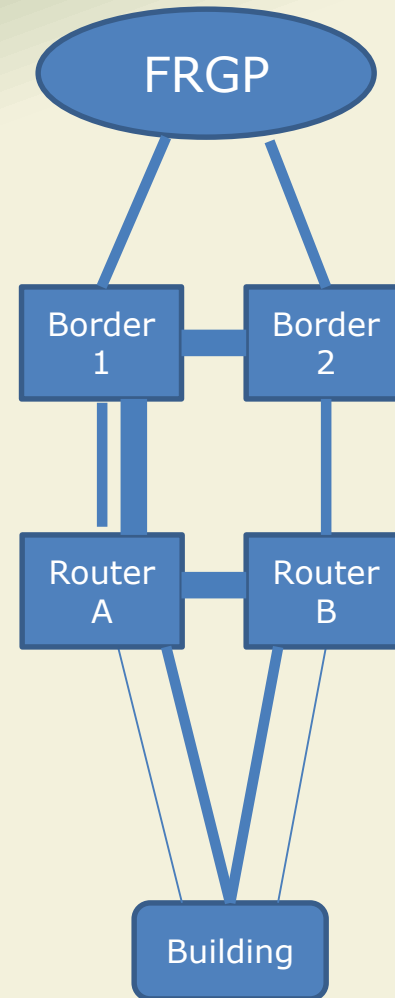
- CS
- Morgan
- Animal Sciences

## 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

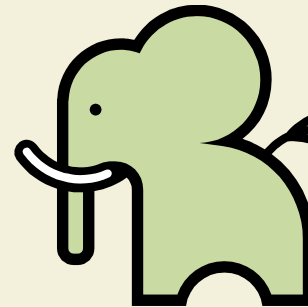
Wireless: 10.82, 10.84, 10.85...



# IP space restructuring

## Benefits:

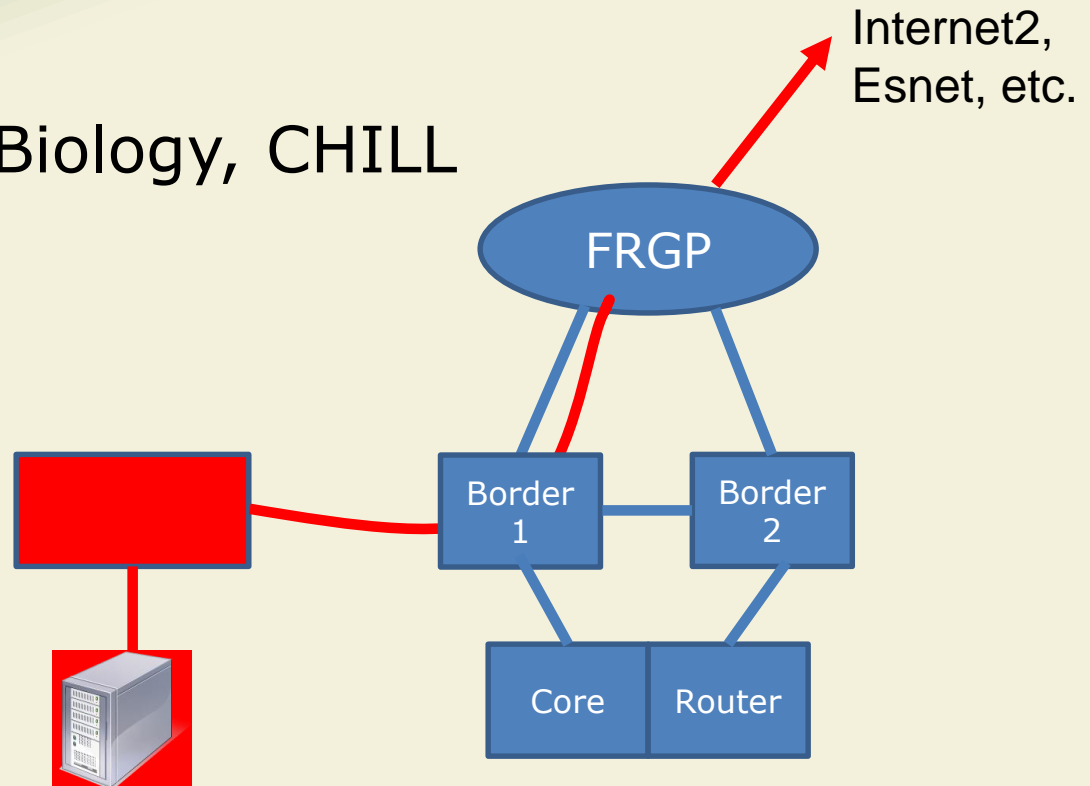
- 10G connectivity
- Jumbo frames
- Better performance



# 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

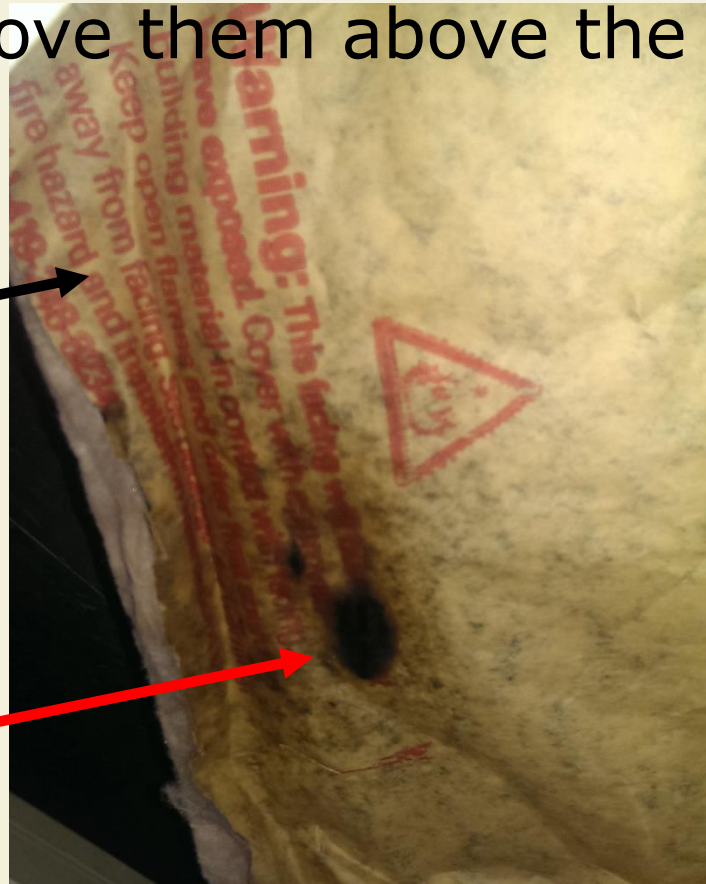
APs need to be below ceiling...

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

Insulation



Burn  
mark!



# Wireless

Relay issues though:

- [help@colostate.edu](mailto: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](mailto: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