CALIFORNIA STATE UNIVERSITY
FULLERTON
INFORMATION TECHNOLOGY

CAMPUS TECH MEETING

Tuesday August 21, 2018

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Agenda

- Organizational Updates
- Windows 2008/2008r2
- File Server to Dropbox
- System Center Configuration Manager (SCCM)
- Classroom Technology Upgrade
- Network Infrastructure Updates
- Information Security Updates
- Employee Training Center (ETC)
- TitanNet
- Calendar / 25Live
- Academic Technology Updates
- Survey

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Organizational Updates

Berhanu Tadesse

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Organizational Updates

- Welson Badal – *Assistant Vice President of IT*
- Rachel Lasser – *Interim Director of Administrative Systems*
- Raymond Venegas – *Director of IT for Extension and International Programs*

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Be prepared for Windows 2008/2008r2

Projected End of Life:

Jan 14, 2020

Bill Elbettar

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File Server to Dropbox

Sepehr Sobhani / Hector Ramirez

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File Server to Dropbox

- Decommissioning file servers to reduce storage cost and increase availability
- Plan is to migrate identified contents of file servers to Dropbox
- Working with college techs and server owners
  - Identify the file servers
  - Identify types of data stored in file servers
    - Level 1 data will NOT be moved to Dropbox
    - Level 2 and Level 3 data will be moved to Dropbox
    - Information on data classifications can be found on ISO website
- Identify data owners
- Set up with administrative accounts and/or Team Folder
- Provide training to staff if necessary

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System Center Configuration Manager (SCCM)

Hector Ramirez / JP Marquez

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SCCM

- SCCM was implemented to reduce cost and provide a centrally managed solution

Current state:

- 2,690 endpoints in AD are supervised, receiving critical patches and daily virus definition updates
- 16 servers in pilot patching group
- 157 endpoints in ACAD (general use classrooms)
- Collaborating with AFIT, College of Education and DSS
  - Access to SCCM Console
- Software Center available to IT
  - Advertising software for installation with no admin rights needed (i.e. Office Pro Plus, Visio, Project, and more)

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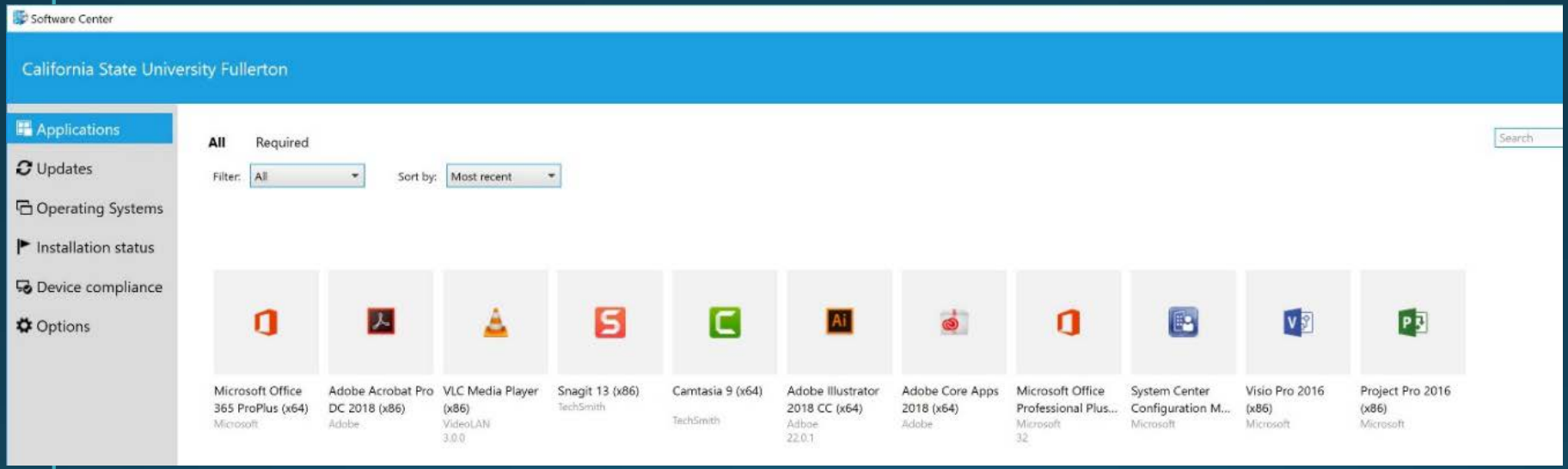
Software Center



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SCCM

Moving forward:

- ACAD distribution point will host campus lab images
- Make Software Center available to rest of campus
- Use SCCM monitoring and Dashboards to proactively address issues
- Retiring BigFix
- Install SCCM agent on all campus computers
  - \\adselect\shares1\Client Software\SCCM\Client
- Find out who is using Deep Freeze

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Classroom Technology Upgrade

Hector Ramirez / Kris Mosser

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Classroom Technology Upgrade

- Upgrading AV and technology in 24 college owned classrooms to meet general use classroom standards
- Upgrades include:
  - PC or Mac with base classroom image
  - Projector – Epson Pro G 7500U
  - Projector screen – DaLite Model C w/ CSR
  - Apple TV – 4th Gen 32GB
  - Speakers – Wall or ceiling speakers based on room type
  - Podium – Middle Atlantic classroom podium
  - Document Camera – Elmo TT-12iD
  - Laptop Connectivity – HDMI and VGA
  - Paint

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Classroom Technology Upgrade

- Work will be completed by beginning of Fall semester
- Room list:
  - CPAC-160, CPAC-254
  - CS-101, CS-200, CS-202, CS-408
  - E-303, E-302
  - EC-031, EC-009, EC-025
  - H-422, H-326A
  - LH-320A
  - MH-263, MH-452, MH-553, MH-501
  - VA-175, VA-176, VA-180, VA-184, VA-275, VA-281

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Network Infrastructure Updates

Jay Lin

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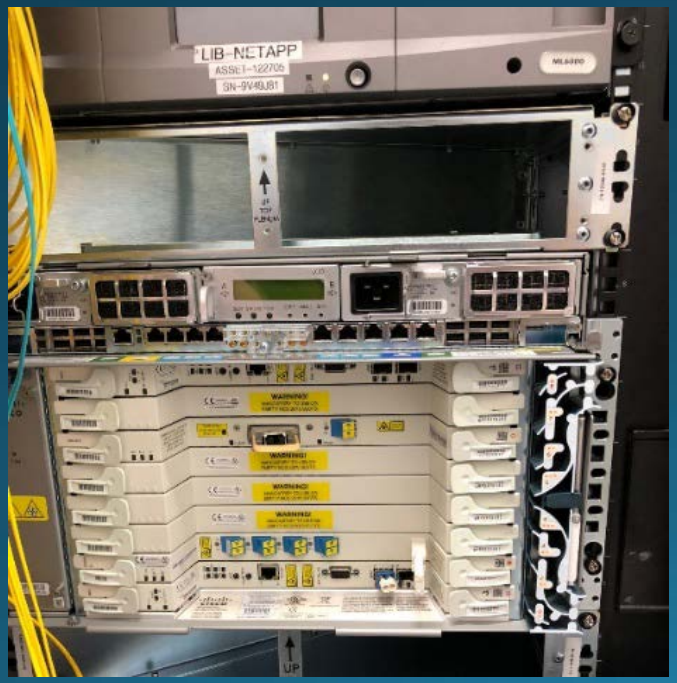
Network Updates

- To upgrade the Internet connectivity speed on campus
- Cenic 100G equipment installed in campus modular Data Center
- Campus Internet speed upgraded from 10G to 20G
- Currently, equipment is capable of performing at 20Gbs, has the capacity to upgrade to 100Gbs



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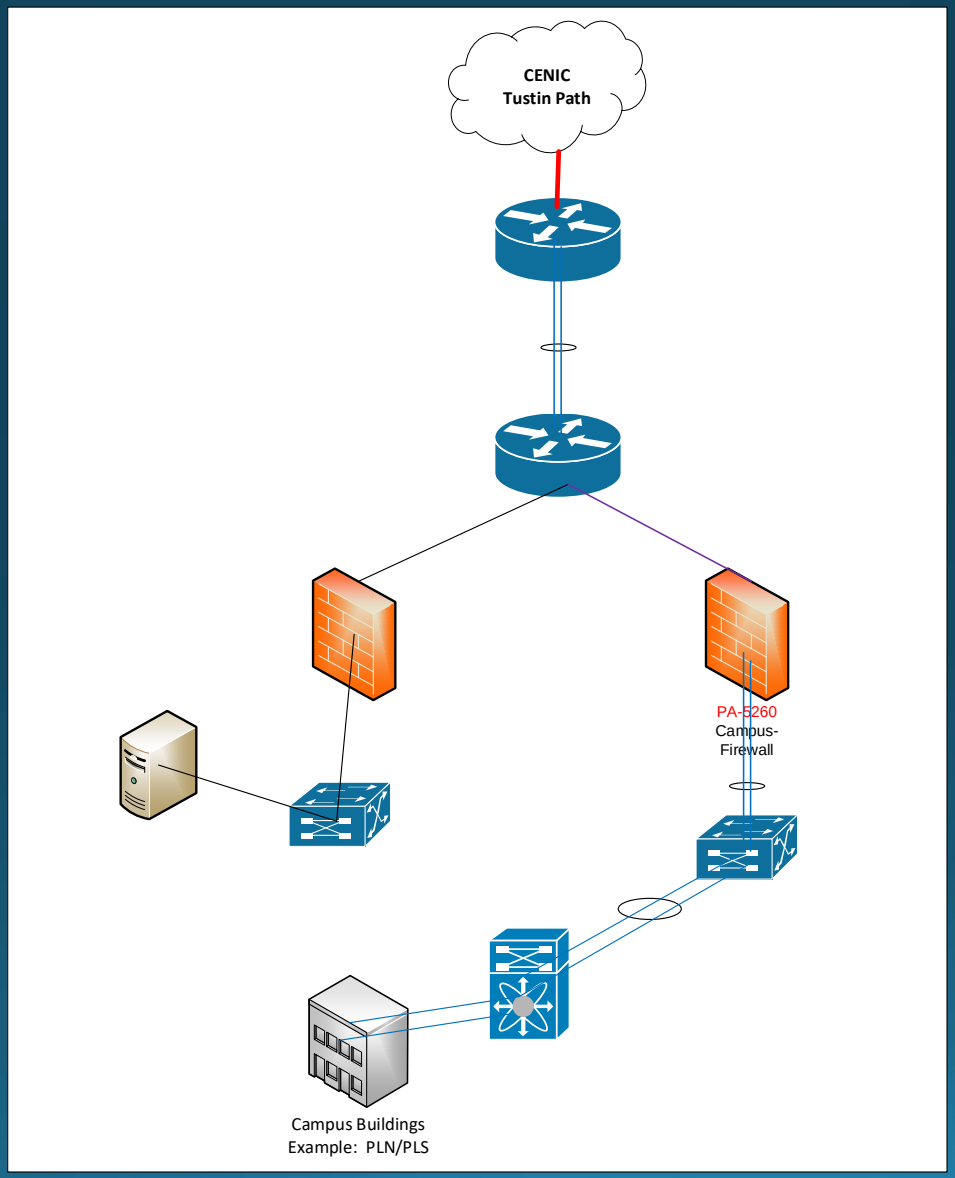
Network Diagram



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Palo Alto Network (PAN) Firewall Migration Project

Migration of Firewall to PAN Timeline	
Dates	**Activity**
6/28 (completed)	Admin-Firewall (CheckPoint)
8/14 (completed)	Campus-Firewall
9/27	ACAD-Firewall - Impact College Lab network, wireless
TBD	CSU Sac DR Site, CSUDH VoIP
TBD	Remaining firewall – Housing, UPD, Trigen Will coordinate with departments to schedule

- Provided 20G Internet bandwidth from Cenic -> Border Router -> Firewall -> Campus Core
- New Authentication Page to replace CheckPoint Authentication Page
- Submit authentication issue through ServiceNow

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Example Firewall Rule Change Request

Email submission format

- Send firewall request to: netops@Fullerton.edu
- Subject: New FW Rule Change Request
- Body:
  - FW Rule Change Type – dbfileshare, auth rules, TCP 1433
  - Justification
    - For developers to test the portal apps and other various CWID applications to connect to dbfileshare with management studio
  - Description
    - Allow members of SG-IT-SQL-Admin to access the server after authenticating to firewall
  - Affected FW: Admin firewall
  - Source (IP/Net): SG-IT-SQL-Admin@CSUF-Pub-Net
  - Dest (IP/Net): dbfileshare (137.151.117.89)
  - Dest Port(s): TCP 1433

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Eduroam Wireless Update (EAP-TLS)

- EAP-TLS device certificate based authentication
  - Benefits:
    - Certificate based not username/password based. Eduroam will remain connected even with subsequent password changes.
    - Less overhead on authentication server.
- Instructions:
  - http://wireless.fullerton.edu/ under "HELP TUTORIALS" tab

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Information Security Updates

Tony Modiri

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Duo Multi-Factor Authentication

- Identified employees with the following access are required to use Duo MFA by September 28, 2018
  - Student Health Center
  - Employees handling credit card data
  - Employees with PeopleSoft L1 data remote access
  - System Administrators

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Inventory Sensitive Data (Level 1)

Identify and Protect Sensitive Data

- Data Asset Inventory Survey
- Discover and assess sensitive data
- Annual review of user access to sensitive data
- Monitor access to sensitive data
- Protect data from undesired access or exfiltration

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SSL TLS 1.0 EOL (6/30/2018)

Say Goodbye to SSL/early TLS

June 30, 2018 was the PCI Industry deadline for disabling SSL/early TLS

A few well-known TLS/SSL Vulnerabilities:

- POODLE (CVE-2014-3566)
- BEAST (CVE-2011-3389)
- CRIME (CVE-2012-4929)
- BREACH (CVE-2013-3587)
- Heartbleed (CVE-2014-0160)
- Drown (CVE-2016-0800)
- FREAK (CVE-2015-0204)
- Logjam (CVE-2015-4000)
- Bar Mitzvah (CVE-2015-2808)
- SWEET32 (CVE-2016-2183)

SSL/TLS revisions:

- SSL 1.0 in 1990
- SSL 3.0 in 1996
- TLS 1.0 in 1990
- TLS 1.1 in 2006
- TLS 1.2 in 2008

Campus Tech Action Item by September 30, 2018

- Disable all version of SSL, and TLS 1.0, 1.1
- TLS 1.2 is the only recommended version

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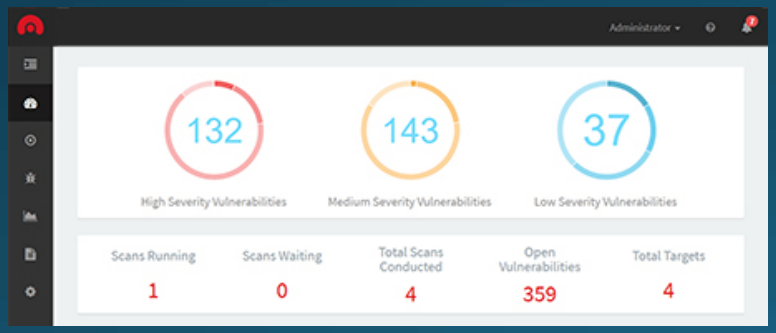
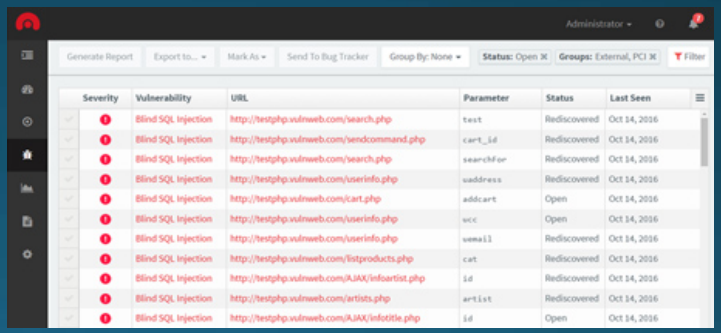
Web Application Scanning

Audit Your Web Security with Acunetix Vulnerability Scanner.

- Scan and audit your internet facing servers
- Identify vulnerable versions of applications
- Continuous web security against OWASP Top 10 and more
- Protection against known exploits
- Give developers a confidence boost in their own code





Email DG-IT-InfoSec@fullerton.edu to get an account for scanning and remediating your web applications

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Employee Training Center (ETC)

Melissa Dominguez

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Employee Training Center (ETC)

- What?
  - As part of the CSU wide effort, we are converting vendors from SkillPort to SumTotal
  - Switching compliance course vendor from Lawroom to United Educators
- How will this affect me?
  - The Employee Training Center will have a new look & feel
  - Functions will be different
  - Administrator Access will be provided upon completion of training

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Employee Training Center (ETC)

- What can I do to prepare?
  - Take a training:
    - Campus
    - Administrator (as duties require)
  - Attend an open lab
  - Contact Employee Training Center if you have questions

- Timeline
  - August: Announcements
  - September: Training
  - October: Go-Live

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TitanNet

Randy Montes

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TitanNet

- A tool for advisors, faculty, and student support services that will:
  - Facilitate communication between students and advisors via the advising notes system (replaces TAN Advising Notes)
  - Facilitate intentional, direct outreach via campaigns
  - Allow for efficient scheduling of advising appointments

- Powered by EAB and accessed via staff/faculty portal

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TitanNet

- Additional Functions
  - Advising notes for groups of students
  - User calendars sync with outlook availability
  - Analytics & student service visit reports
  - Kiosk/front desk check-in mode

- Campus-wide implementation by user groups
  - Phase 1 – Implemented in Summer 2018
  - Phase 2 & 3 – End of Fall semester

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Calendar / 25Live

Mishu Vu / Elaine Estrada

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Calendar / 25Live

- http://www.fullerton.edu/calendar/
- As of June 30, 2018, the current calendar product, Active Data Calendar, has been decommissioned.
- Begin utilizing 25Live suite to create events calendar.
- Based on event searches built by the Publisher
- Has capability to pull selected event categories (e.g. a college) to targeted calendars on separate departmental or other campus web pages. Example: fullerton.edu

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Calendar / 25Live

- Default access Login: http://25live.collegenet.com/fullerton/#home_my25live[0]
- Getting Advanced access
  - Email 25Live@fullerton.edu with calendar(s) you need to access
- Advanced access
  - Permissions to add events to specific calendars
  - Room/location owner who approves event requests

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Academic Technology

Willie Peng

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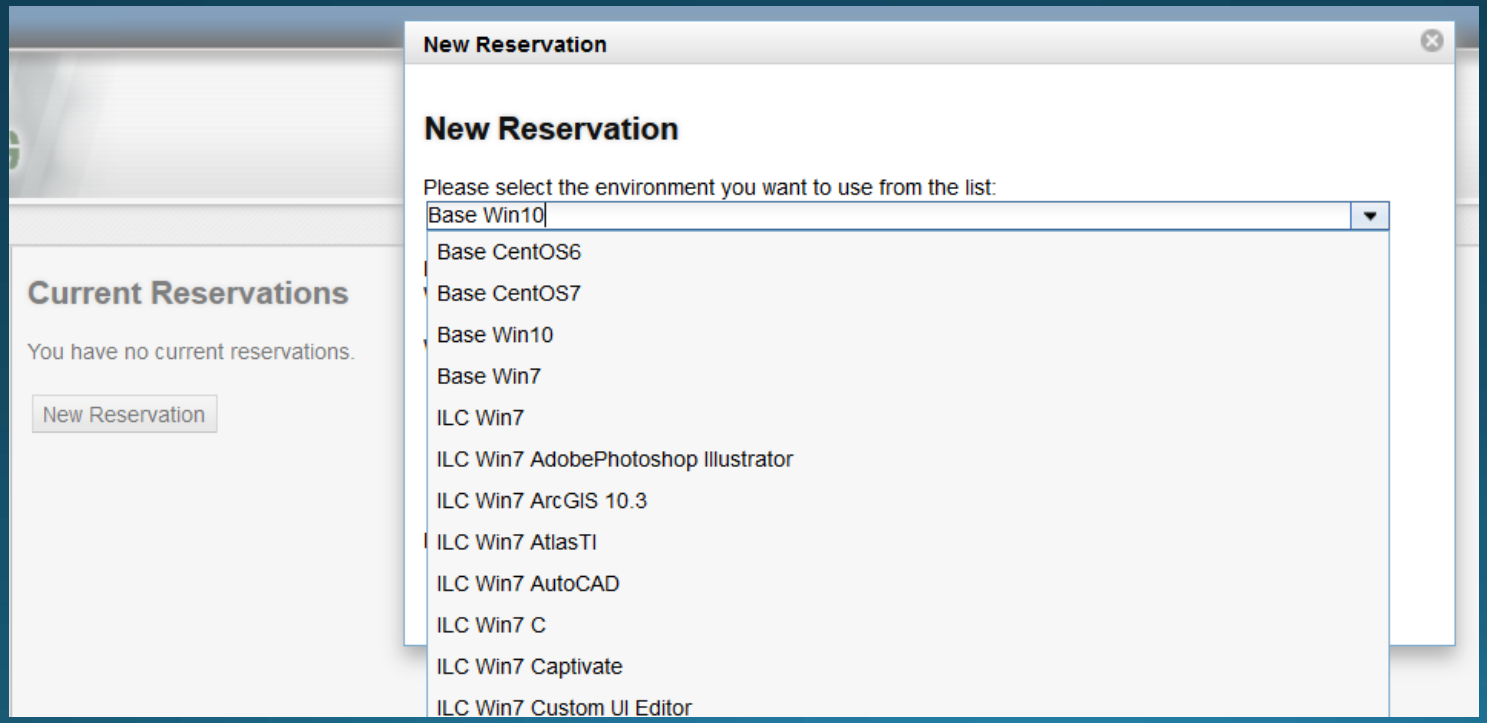
Virtual Computing Lab (VCL)

https://vcl-i2.fullerton.edu/vcl

- Built new VCL environment
- Faster provision time
- Instance : 2vCPU, 5GB
- Windows 10 Base Image
- Need your help to build custom image
- Converted Windows 7 Image
- Windows 7 EOL (2020/01/14)



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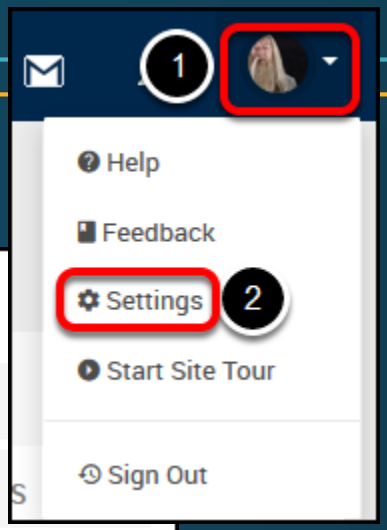
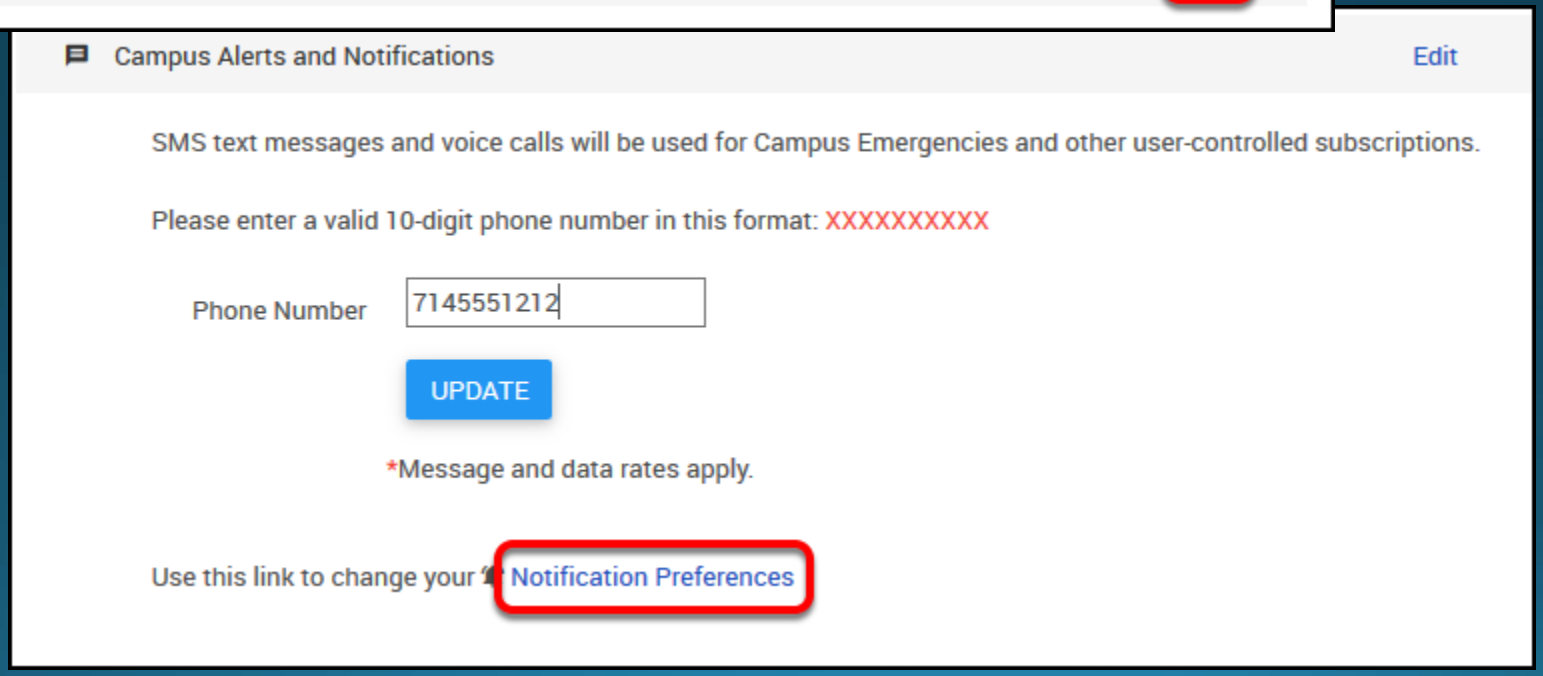
IT Major Service Notification





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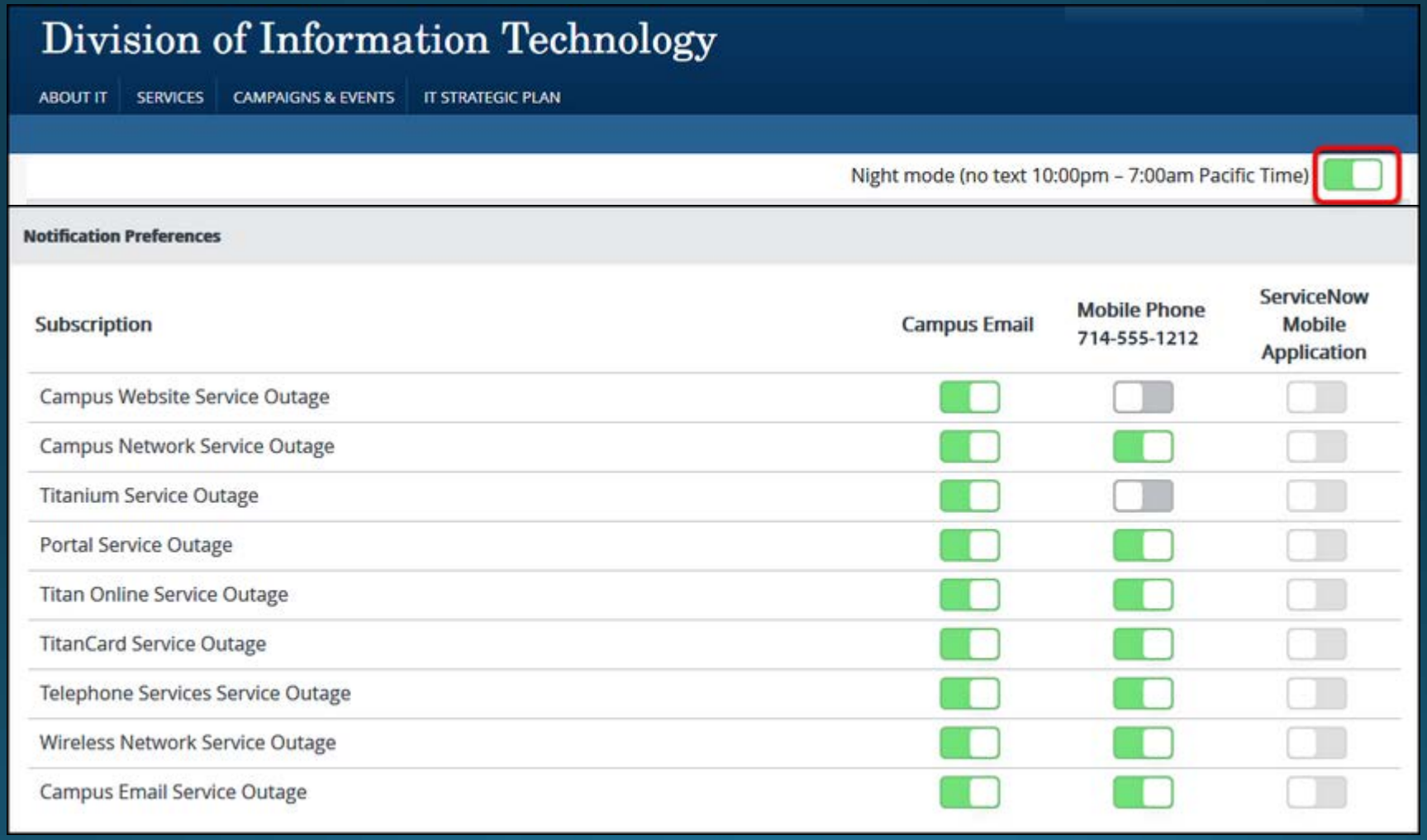
IT Major Service Notification



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PitchVantage

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Data Visualization Center

- 4 x 4 front video wall (46" display each)
- Four Epson Pro G 7500, 6500 Lumens Projectors
- HDMI Connection (up to 5 devices)
- Document Camera
- Capacity: 37 (including instructor)
- In Room Technical Support
- Data Scientist Consultation
- In Room PC with Three Outputs
- Lavaliere Wireless Microphone
- Pan/Tilt/Zoom Camera

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Innovation / Makerspace Center

http://www.fullerton.edu/it/students/innovation_makerspace_center/

Faculty reservation via portal

- 3D Printer
- Raspberry Pi
- Microsoft Surface Hub
- High-End PC & Mac
- HTC Vive
- Microsoft Holo Lenses
- Cintiq/Dell Canvas

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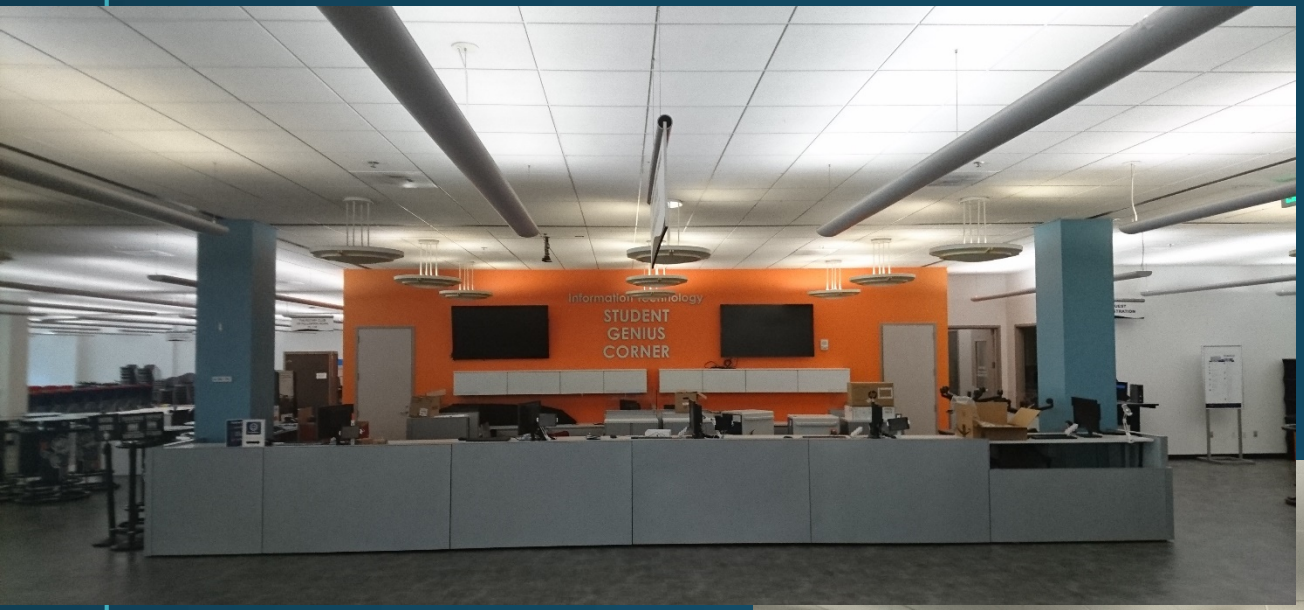
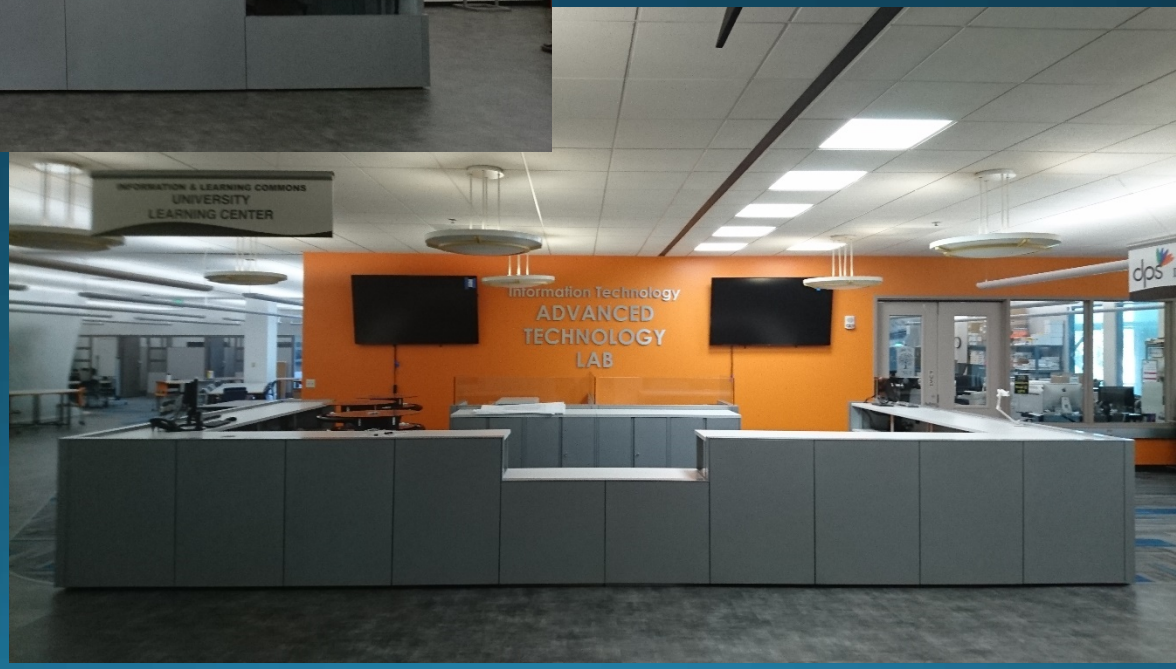
Library Space Updates



1st Floor PLN
Student Genius
Corner



2nd Floor PLN
Advanced
Technology Lab

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Survey Instructions

- On your mobile device or laptop's browser, type **http://srs.campuslabs.com** or just scan the QR Code here:
- Enter your First Name, Last Name. You can use "Tuffy Titan" as your first and last name
- Enter the Connect ID (12244)
- Tap/Click on "Connect" button to join the session
- Once a question appears, answer the question and tap/click "Submit." You may have to scroll down to access "Submit" button

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QUESTIONS?

THANK YOU!