

Oklahoma Science, Technology, Engineering, and Mathematics Mentorship Program

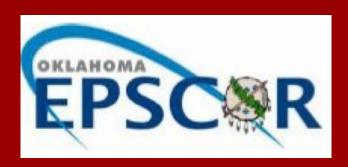












What is the OSTEMMP?



 The Oklahoma STEM Mentorship Program is an educational outreach connecting networking professionals from OU, OSU, OneNet, and other institutions with students in the technology field.

 It is part of an NSF grant to enhance Oklahoma's educational and research capability through network improvements.

Job Shadowing



o The goal:

IDENTIFY, DEVELOP and RECRUIT Talent

- Activities include:
 - Presentations to students throughout OK
 - Job shadowing opportunities (on-site & virtual)

Job Shadowing



- o On-Site
 - Schedule a time with us to see what we do!
- Virtual
 - e-mail us at network@ou.edu (OU IT Network Team)
 - Email us at pmo@ou.edu (OU Enterprise Project Mgmt Team)
 - Facebook: <u>oknetworkmentor@groups.facebook.com</u>



Other Opportunities/Resources •



- Jobs at OU
 - o http://jobs.ou.edu
- Jobs at OneNet
 - http://www.okhighered.org/job-opportunities/

About This Presentation



- O What do I do in the IT field?
- Lessons learned for getting this job.
- Recommendations for keeping the job.
- Being successful in this field.



What is...



- Project management is the discipline of planning, organizing, motivating, and controlling resources to achieve specific goals (Wikipedia)
- A Project is defined as a temporary endeavor designed to produce a unique product, service or result. (PMBOK)
 - At OU- 40 hours or work, OR requires a purchase,
 OR needs to be tracked for compliance or leadership.

Project Lifecycle



Initiation

Purpose Strategic Fit Objectives Scope (draft) Draft Schedule Budget Estimate Leadership Approval

Planning

Scope-Final
Select Team Members
Plan Deliverables
Quality Plan
Baseline Schedule
Baseline Budget
Risk & Issues Register
Business Case
Communications Plan

Execution

Production of Deliverables
Monitor/Control
Quality Management
Time Management
Cost Management
Risk Management
Issue Resolution
Change Control
Reporting
Communications

Close-Out

Celebrate!
Contract Closeout
Team Feedback
Recommendations for further action
Post Implementation Review

Traits of a Project Manager



Active Listener Self Starter

Strategic Thinker Motivator

Organization Skills Persistence

Communications Adaptable

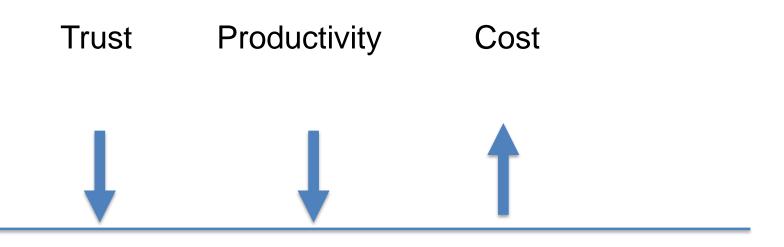
Leadership Facilitator

Referee- Conflict Resolution Baking Skills!

Multi-tasker

Leadership and Project Management







My Journey





Lisa Hendrix, PMP



- Began my career at OU IT in 1999 in Telecommunications
- Bachelors of Liberal Studies 2002
- Changed positions 5 times in 6 years.
- Project Management Office was formed in 2005
- First Project was implementation of online parking permits
- Credentials, PMP- 2009
- New Construction
- Service Level Agreement Rep- Expanded my horizon

Career Path....



- Shift to Portfolio Management
- Opportunity to grow.
 - Enterprise Portfolio Manager for the Education and Natural Resources Business Segment for the Office of Management and Enterprise Services for the State of Oklahoma.
 - 76 State Agencies
 - State CIO

Boomer...ang!





- Another Opportunity....
- Returned to University of Oklahoma in July 2013 after 1 year absence.
- Enterprise Portfolio Manager-
 - Project Management Tool Implementation
 - Project Governance Implementation
 - And- moving 500 servers into a new data center.

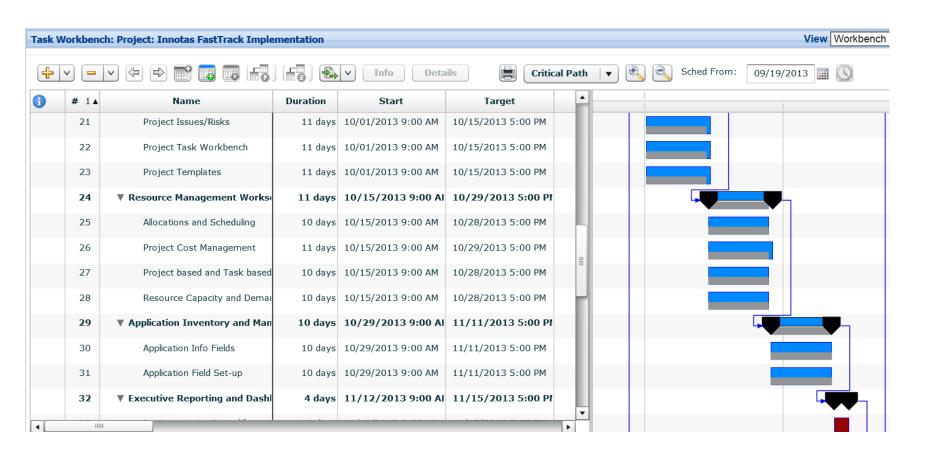
About the OU EPMO



- Provide Project Portfolio Management Support to the Organization
 - Conduct Portfolio Review with Each Group
 - Manage Large Scale Projects
 - Provide insights on:
 - Organizational Resources
 - Projects
 - Project Portfolio Governance

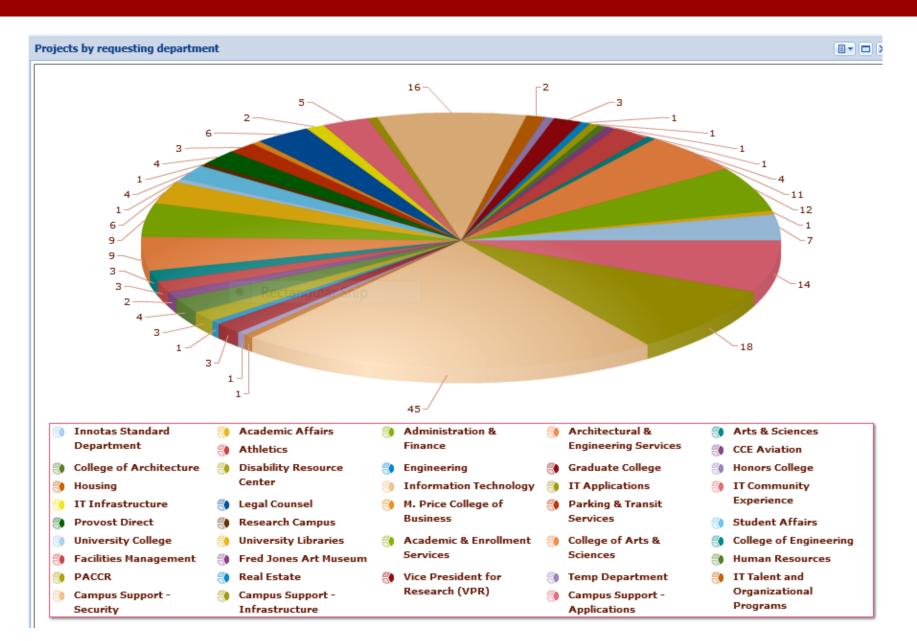
Tools





Reporting





Resource Management



Capacity & Demand-Resource													■ ▼×
Contour													
	Priority	11/01/2013			12/01/2013			01/01/2014			Totals		
		Actual Capacity	Events	Alloc									
Alcock, Bruce		0.90	-0.10	0.90	0.68	-0.32	0.94	0.91	-0.09	0.00	0.83	-0.17	0.60
<u>Maintenance</u>	2: Medium			0.18			0.14			0.00			0.10
Shared Services Time	0: Immediate			0.72			0.80			0.00			0.50
Bergeron, Chad		0.90	-0.10	1.08	0.68	-0.32	0.77	0.91	-0.09	0.56	0.83	-0.17	0.80
License Environment Refresh Design	2: Medium			0.09			0.09			0.09			0.09
Maintenance	2: Medium			0.18			0.14			0.00			0.10
Office 365	2: Medium			0.17			0.17			0.17			0.17
Software Defined Networking	2: Medium			0.30			0.30			0.30			0.30
System Center 2012 Implementation	1: High			0.18			0.00			0.00			0.06
VMWare View COA Pilot	1: High			0.16			0.07			0.00			0.07

About Me



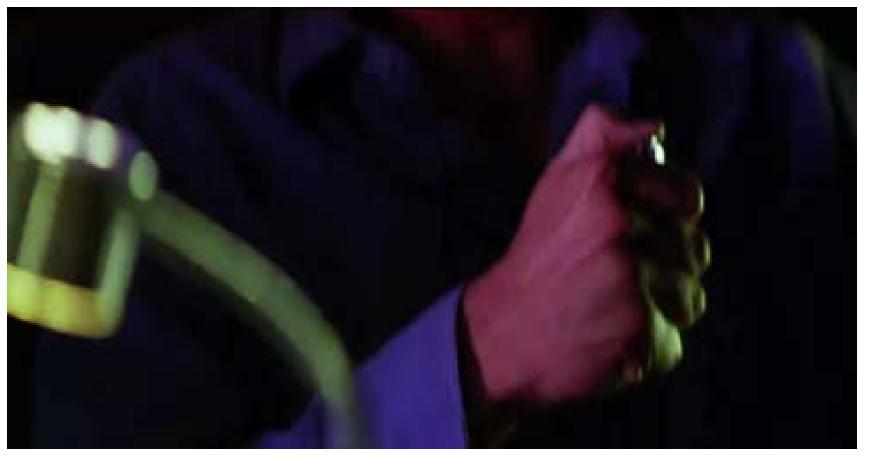
o Zane Gray:

- o B.S. Chemical Engineering (OU 1996)
- USAF network deployments (1996-2001)
- OU computer networking (2001-present)
- o Married since 1993 to an OSSM alumn!
- o Nine (yes, "9") kids
- One ball python (I hate snakes!)
- Two cats (adopted strays)

So, what's it like?



Warning... PG-13 material ahead!



http://www.oscer.ou.edu/ostemmp.php

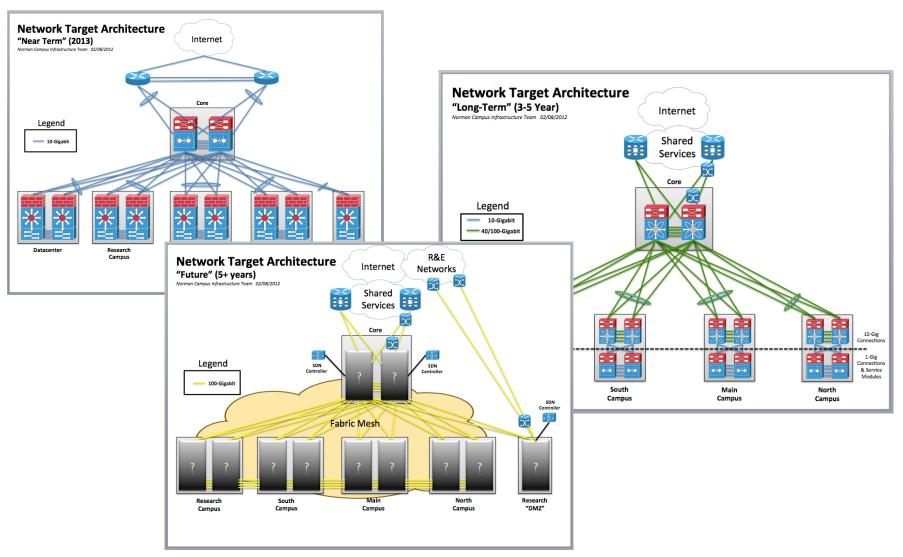
About My Job (Manager)



- OU IT Network Services:
 - Connect 200,000+ "unique" devices this year!
 - Support 30,000+ "wireless" users every day.
 - Support 15,000+ "wired" devices every day.
 - Support ~2000 wireless access points
 - Support ~1200 security cameras
 - Support ~1250 network switches and routers
 - Support ~8000 telephony devices (VoIP and analog)
 - Over 200 physical and virtual servers
 - Migrating to a single datacenter that spans three cities

Strategic Planning and Vision

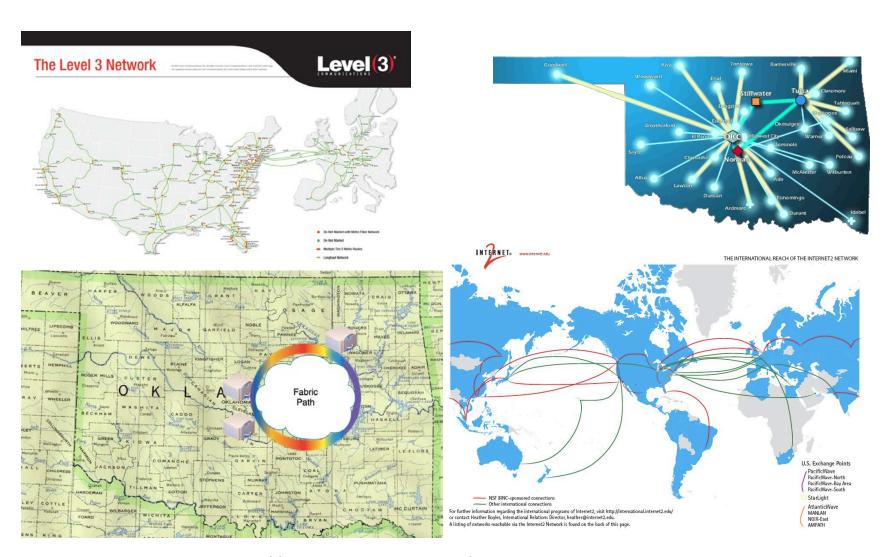




http://www.oscer.ou.edu/ostemmp.php

National Research & Education Networks (World-Wide)

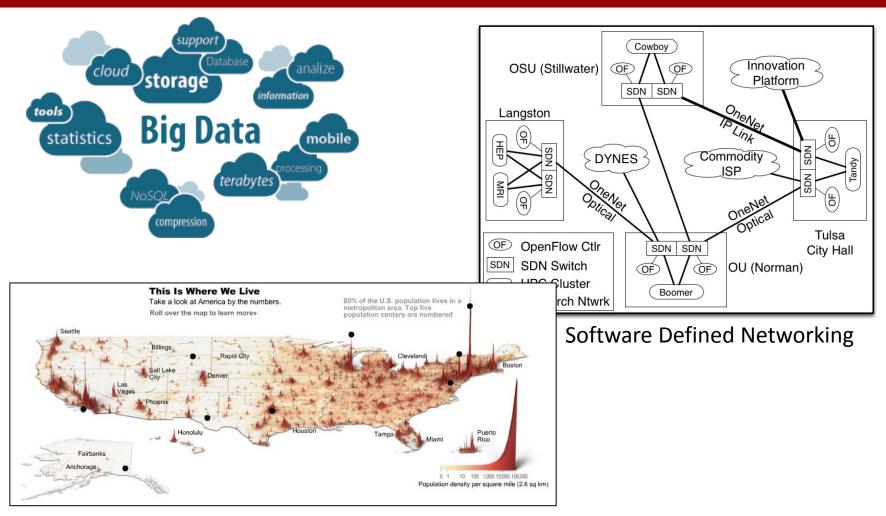




http://www.oscer.ou.edu/ostemmp.php

Trends in Technology Landscapes





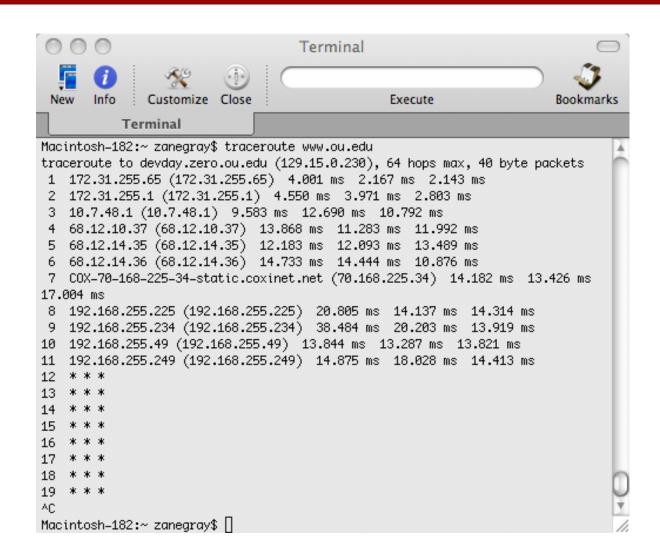
Data Visualization

How Do We Manage It All?

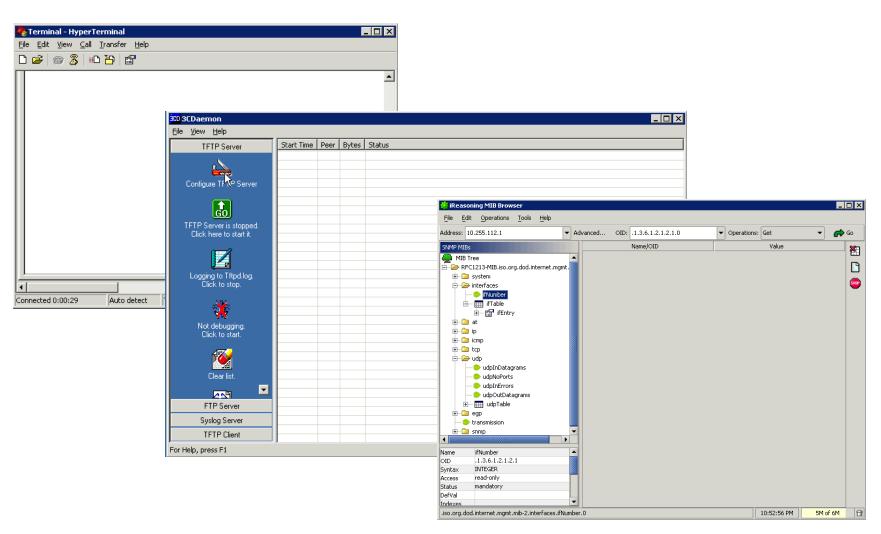






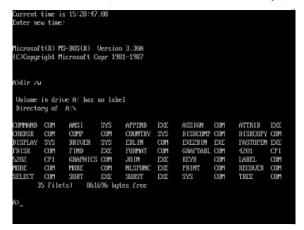








Client OS' (1980's and Today)





Network OS' (1980's and Today)

```
Cisco Internetwork Operating System Software
IOS (tm) GS Software (GS3), Version 10.2(2), RELEASE SOFTMARE (fc1)
Copyright (c) 1986-1994 by ciaco Systems, Inc.
Compiled Thu 15-Dec-94 15:39 by kmac
Image text-base: 0x00001000, data-base: 0x003BCF00
ROM: System Bootstrap, Version 4.6(5), SOFTMARE
depechemode uptime is 2 minutes
System restarted by reload
System image file is "qs3-k.102-2", booted via tftp from 171.69.1.129
CSC4 (68040) processor with 16384K bytes of memory.
M.25 software, Version 2.0, NET2, BFB and GOSIP compliant.
Bridging software.
2 MCI controllers (4 Ethernet, 4 Serial).
4 Bthernet/IBBE 802.3 interfaces.
4 Serial network interfaces.
32K bytes of non-volatile configuration memory.
Configuration register is 0x0
```



o But that's changing!

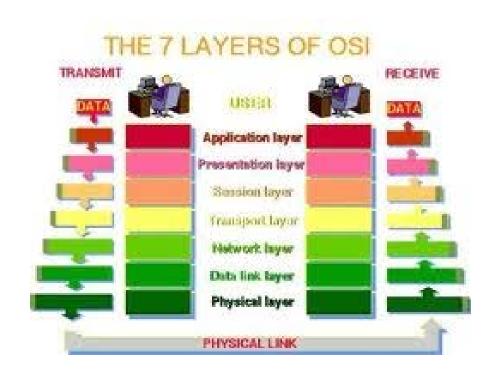
- o TRILL
- o OpenFlow
- o CAPWAP
- o ~50% Parity



Troubleshooting



- Technical Stuff for Network Engineers...
 - Know the OSI model. It will save you days of troubleshooting time!



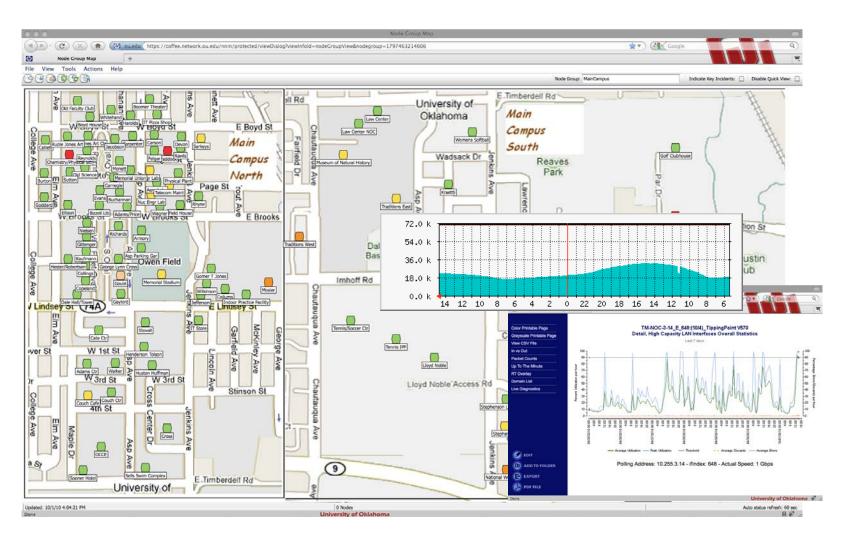
Troubleshooting



Iter: Expression Clear Apply								
▼ Time	Source	Destination	Protocol	Info				
16 5.849089	78:ca:39:bb:b2:b6	Broadcast	ARP	Who has 10.195.32.1? Tell 10.195.59.232				
17 6.058014	AppleCom 17:b6:6d	Broadcast	ARP	Who has 10.195.32.1? Tell 10.195.63.42				
18 6.266865	HonHaiPr_a1:85:57	Broadcast	ARP	Who has 10.195.32.1? Tell 10.195.60.60				
19 6.475765	Apple_75:6f:13	Broadcast	ARP	Who has 10.195.32.1? Tell 10.195.63.217				
20 6.684634	HonHaiPr_92:ec:6a	Broadcast	ARP	Who has 10.195.32.1? Tell 10.195.57.66				
21 7.311348	IntelCor_8b:82:78	Broadcast	ARP	Who has 10.195.32.1? Tell 10.195.36.42				
22 7.520271	AppleCom_02:c1:8a	Broadcast	ARP	Who has 10.195.32.1? Tell 10.195.63.58				
23 7.729139	70:f1:a1:10:9d:98	Broadcast	ARP	Who has 10.195.32.1? Tell 10.195.59.14				
24 8.146923	LiteonTe_6d:a2:b4	Broadcast	ARP	Who has 10.195.32.1? Tell 10.195.45.99				
25 8.773698	Apple_ba:46:2a	Broadcast	ARP	Who has 10.195.32.1? Tell 10.195.63.105				
26 8.982565	IntelCor_aa:52:e4	Broadcast	ARP	Who has 10.195.32.1? Tell 10.195.51.253				
27 9.609243	70:f1:a1:10:9d:98	Broadcast	ARP	Who has 10.195.				
28 9.818120	70:f1:a1:10:9d:98	Broadcast	ARP	Who has 10.195.				
29 10.235938	IntelCor_1f:18:08	Broadcast	ARP	Who has 10.195.				
30 11.280417	f8: le: df: f3: 4a: d7	Broadcast	ARP	Who has 10.195.				
31 11.489310	Apple_77:17:76	Broadcast	ARP	Who has 10.195.				
32 11.907093	HonHaiPr_77:64:ae	Broadcast	ARP	Who has 10.195.				
33 12.115968	Apple_29:02:d6	Broadcast	ARP	Who has 10.195.				
rame 1 (60 bytes on wire	e, 60 bytes captured) 5e:92:14:3e (d8:a2:5e:92:	14.3e) Dst. Broads	ast (ff:ff:ff:ff	 ff:ff)				

Operations & Maintenance



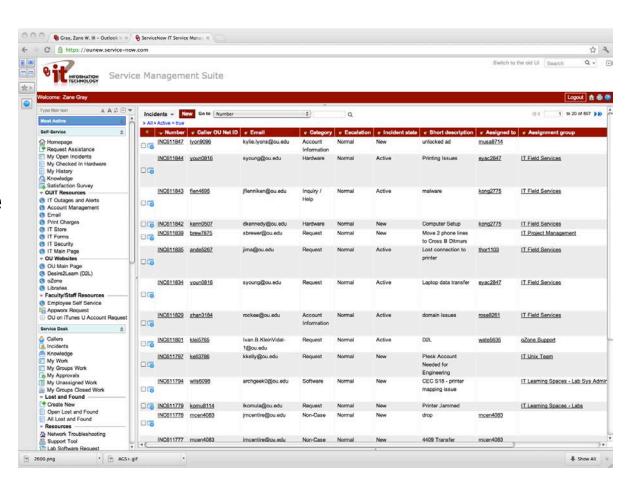


Change Management



Change Management and Control is a Necessary Evil

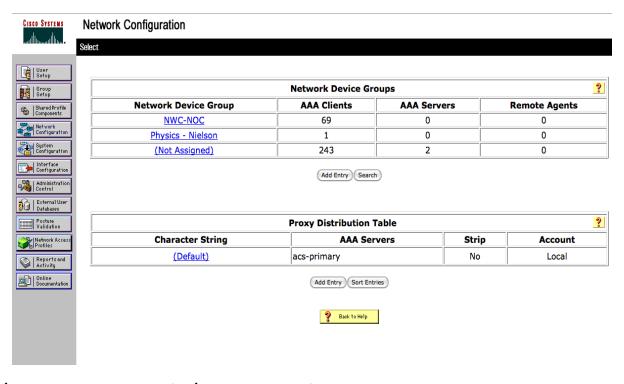
- o Process
- Compliance
- o Knowledge
- Audit Trail



Change Control



- o AAA
 - Authentication
 - Authorization
 - Accounting



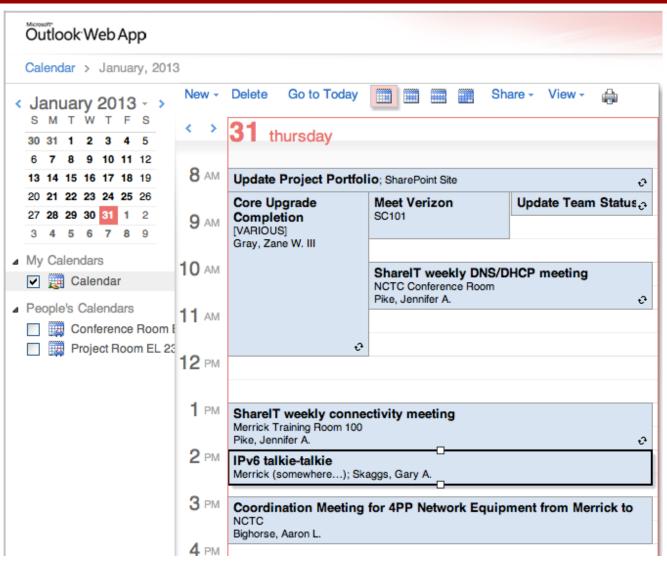
So, What is it Like to be Me?





A Day in My Life...







- Prioritize!
 - Know what is important
 - Don't let the "immediate" overshadow the "important"
- Delegate!
 - Know when to ask for help
 - Build a circle of trust
 - Give credit where it is due



- Get to know your customer
 - Get out from behind the desk
 - Don't be afraid to drop in on someone
 - Follow up on issues
- Overcome fears
 - Step out of the "comfort zone"
 - Take charge when things are going wrong
 - Be accountable (<u>it's OK to be wrong</u>)



- Be the trusted advisor
 - Subject matter expert in your field
 - Know both the "trees" as well as the "forest"



http://www.oscer.ou.edu/ostemmp.php





Have fun!

- Breaks can get you out of a rut (not too frequent...)
- Make your office the place you enjoy being at.
- Be that person everyone wants to be around
- Lead by example!

How Do I Get This Job?!





http://www.oscer.ou.edu/ostemmp.php

The Resume...



- What I look for in a resume... (the basics)
 - College diploma in a relevant field
 - Experience
 - Certifications
 - I never look at salary (that's up to HR)
- What I look for in a resume... (under the hood)
 - Someone who doesn't change jobs every 1 to 2 years (probably won't last long)
 - Someone who understands the "lingo"
 - Someone who knows how to keep it "brief" but "relevant"

The Resume...



- A Brief Note About Resumes...
 - Keep it brief!
 - No more than 2 pages (3 at most).
 - You don't need to write a novel, because we won't read it.
 - Keep it relevant!
 - Tailor your resume to match the job you are targeting.
 - Leave out extraneous details. These will come out in the interview process.
 - Sell yourself.... Yourself!
 - Don't let a recruiter/headhunter sell you.

The Interview...





George Bradt, Contributor

I highlight things leaders do well as examples for others to follow
+ Follow on Forbes

LEADERSHIP | 4/27/2011 @ 11:45AM | 559,093 views

- o Can you do it?
- o Will you love it?
- o Will we like you?

Top Executive Recruiters Agree There Are Only Three True Job Interview Questions



1. Can you do the job?

questions are:

- 2. Will you love the job?
- 3. Can we tolerate working with you?

That's it. Those three. Think back, every question you've ever posed to others or had asked of you in a job interview is a subset of a deeper in-depth follow-up to one of these



+ Comment now

Image by World Economic Forum via Flickr

three key questions. Each question potentially may be asked using different words, but every question, however it is phrased, is just a variation on one of these topics: Strengths, Motivation, and Fit.

The Interview...





Preparing yourself...



- What you should do before then...
 - College diploma in a relevant field... this is worth up to 5 years of relevant experience!
 - Experience... internships during college can be applied toward this (kill two birds at the same time).
 - Certifications... start small, and work your way up. Do this during college, or even during high school.
 - Build relationships... sometimes, it isn't <u>WHAT</u> you know, it's <u>WHO</u> you know.

Preparing yourself...



- What you should do... (cont.)
 - Prayer never hurts!
 - Be positive.
 - Have a back-up plan.
 - Have someone else critique your resume.
 - Pass the interview.
 - Be honest during the interview.
 - Practice the interview
 - Thank the interviewer both in person, and later in writing.



Now, about that job...



- What to look for...
 - Money isn't everything. There are sometimes trade-offs for higher salaries:
 - More hours
 - More travel
 - Fewer benefits
 - Reputation. Find a place that everyone is talking about. Ask the people that work there if it is worth it!
 - Family friendly environment. Flexible work hours can be important.



Now, about that job...



- What to look for... (cont.)
 - Look at the "whole package"
 - Dress code?
 - Distance to work?
 - Free parking?
 - Starbucks (or pub) nearby?
 - Shared office space?
 - Time-off policy?
 - Condition of office?
 - Training and learning opportunities!

Now, about that job...



- What to look for... (cont.)
 - Interview the interviewer.
 - Don't be scared. This is a two-way partnership.
 - Ask for a guided tour.
 - Ask to meet your "team".
 - Ask the interviewer how they like the job.
 - This is a long-term commitment!
 - Trust your instincts! If your gut says "no", then turn down the job.
 - Keep that back out plan in place until the probationary period is over.

Congratulations! But now...





Suggestions for success...

- Never compromise your morals.
- Be honest... it's hard to remember all of the lies you've told, and who you told them to.
- Be there for other people... and they will be there for you.
- Be positive! It's contagious.

Congratulations! But now...



- Suggestions for success... (cont.)
 - Don't take things personally... in the grand scheme of things, it's just a job!
 - Rule your destiny.
 - Step outside of your comfort zone. (ref. Office Space, the movie)
 - Nothing in your job is worth getting angry over.
 - Your customer is why you are where you are. Be there for them.



- Technical Stuff... (cont.)
 - Document everything! Trust me, it will save you time in the long run.





- Technical Stuff... (cont.)
 - Ask for the cool toys!



http://www.oscer.ou.edu/ostemmp.php

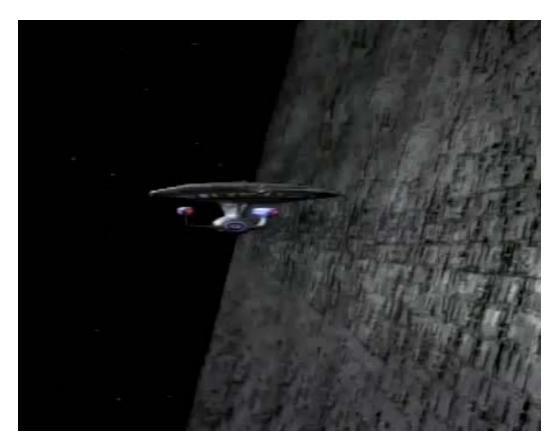


- Technical Stuff... (cont.)
 - You will never have enough time or money...
 always have a backup plan.





- Technical Stuff... (cont.)
 - Technology changes fast! Try to keep pace, and don't wait for "futures"...



If you got 'em, ask 'em!





Evaluation Time!



Please take a moment to fill out the evaluations... or NOT! The evaluations are completely optional!

No personal or personally identifiable data is collected.

Data is used by the grant providers to gauge success.

The End (about time too...)



