

# The 1,000 Mile Overview of Cybersecurity



The word cloud is centered around the word "security" in large green letters. Other prominent words include "information" (red), "based" (black), "technologies" (black), "management" (red), "standards" (green), "services" (black), "architecture" (blue), "strong" (red), "client" (blue), "control" (blue), "design" (red), "different" (red), "ability" (red), "knowledge" (black), "application" (green), and "cyber" (blue). The words are in various colors (black, red, green, blue, orange) and sizes, representing their frequency or importance in the context of the word cloud.

Information based technologies management standards services architecture strong client control design different ability knowledge application cyber

relevant access managing best Identity required one Cloud Penetration using controls leadership Assurance PCI-DSS testing Patterns adapt following strategy Practices degree edge Responsibilities

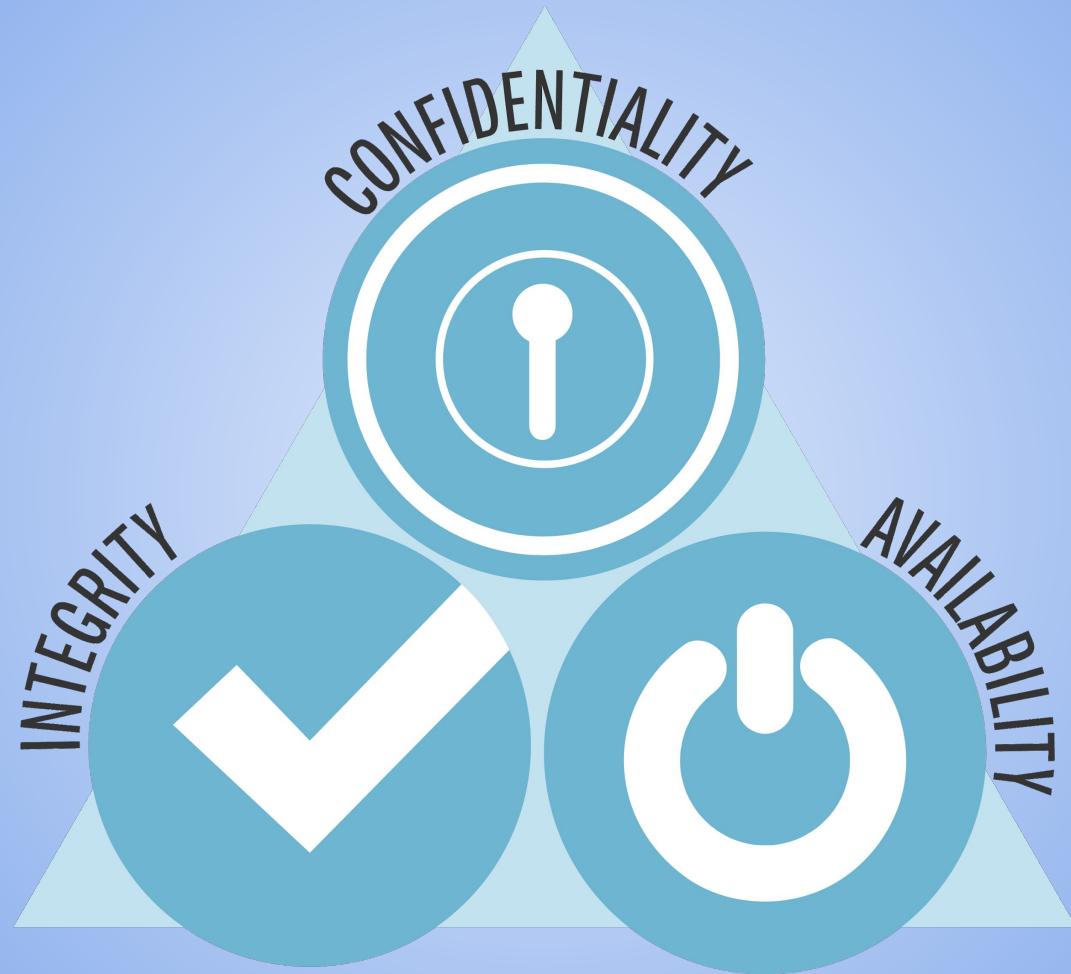
Cyber Team Knowledge advising accreditation delivery service senior audit external enterprise C/C++ particularly system Understanding various hardening Encryption secure strong capture hands large environment driving net firm work makers good domain ISO27001 Strategy work network e.g. understanding high platforms detection financial business server consultancy

RSA HMG PKI Risk and/or project must solution infrastructure Windows level delivering related environments

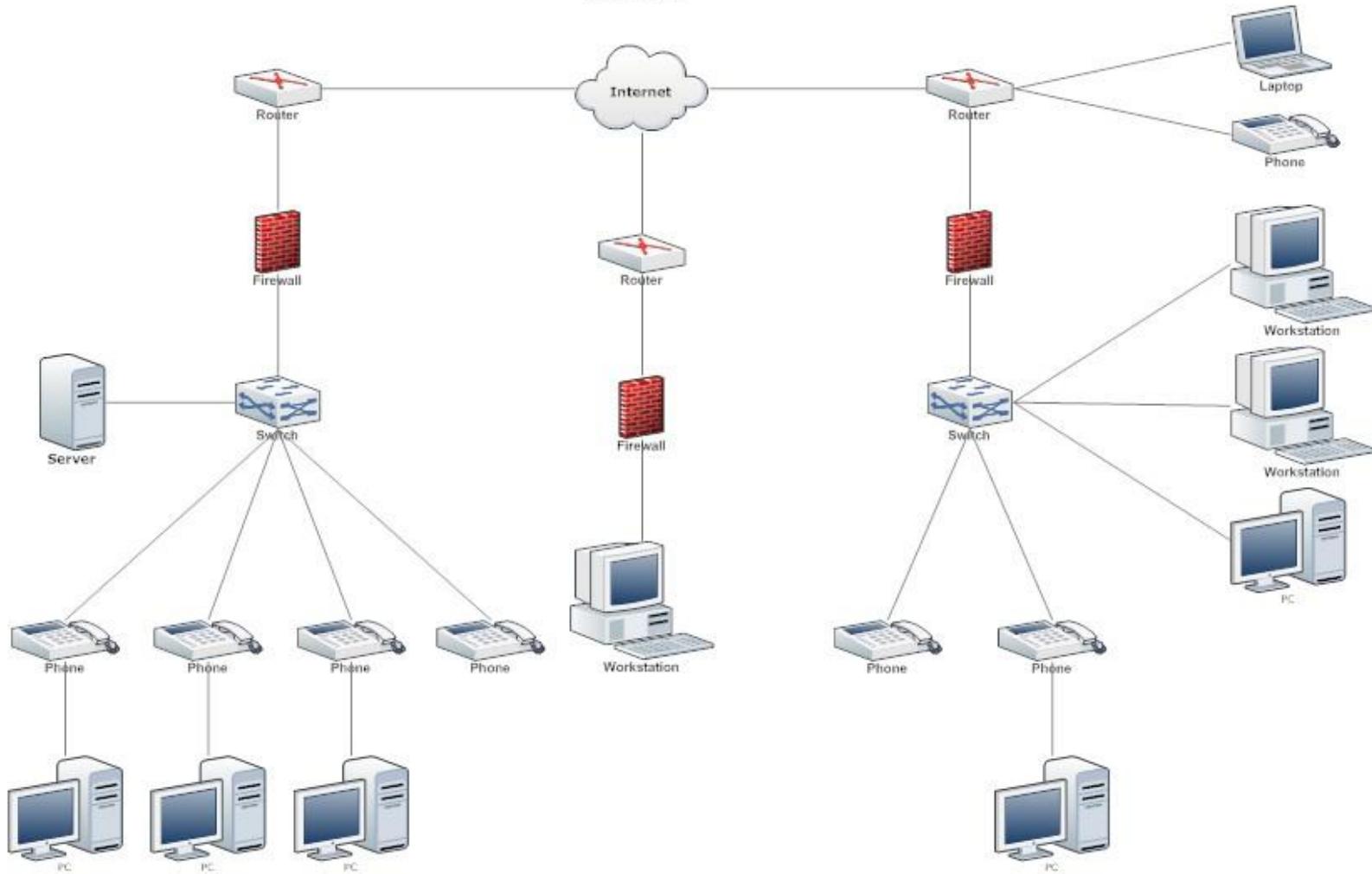
Skills Infrastructure Oracle Linux technology Manager Specialist clients processes Analytics essential techniques Linux firm work makers good domain ISO27001 operation analysis

real-time design devices skills applications

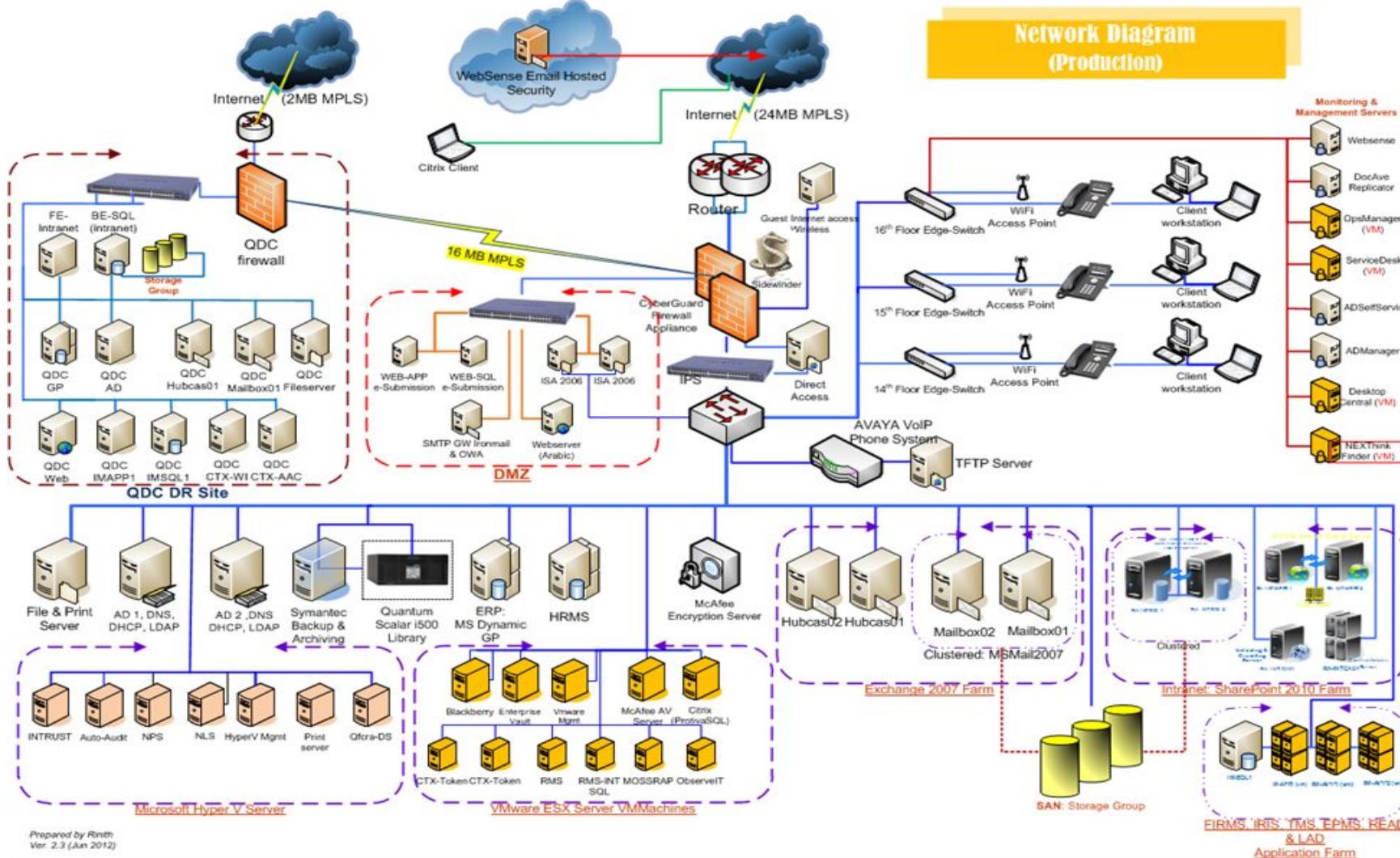
IPs/IDS IPS/IDS



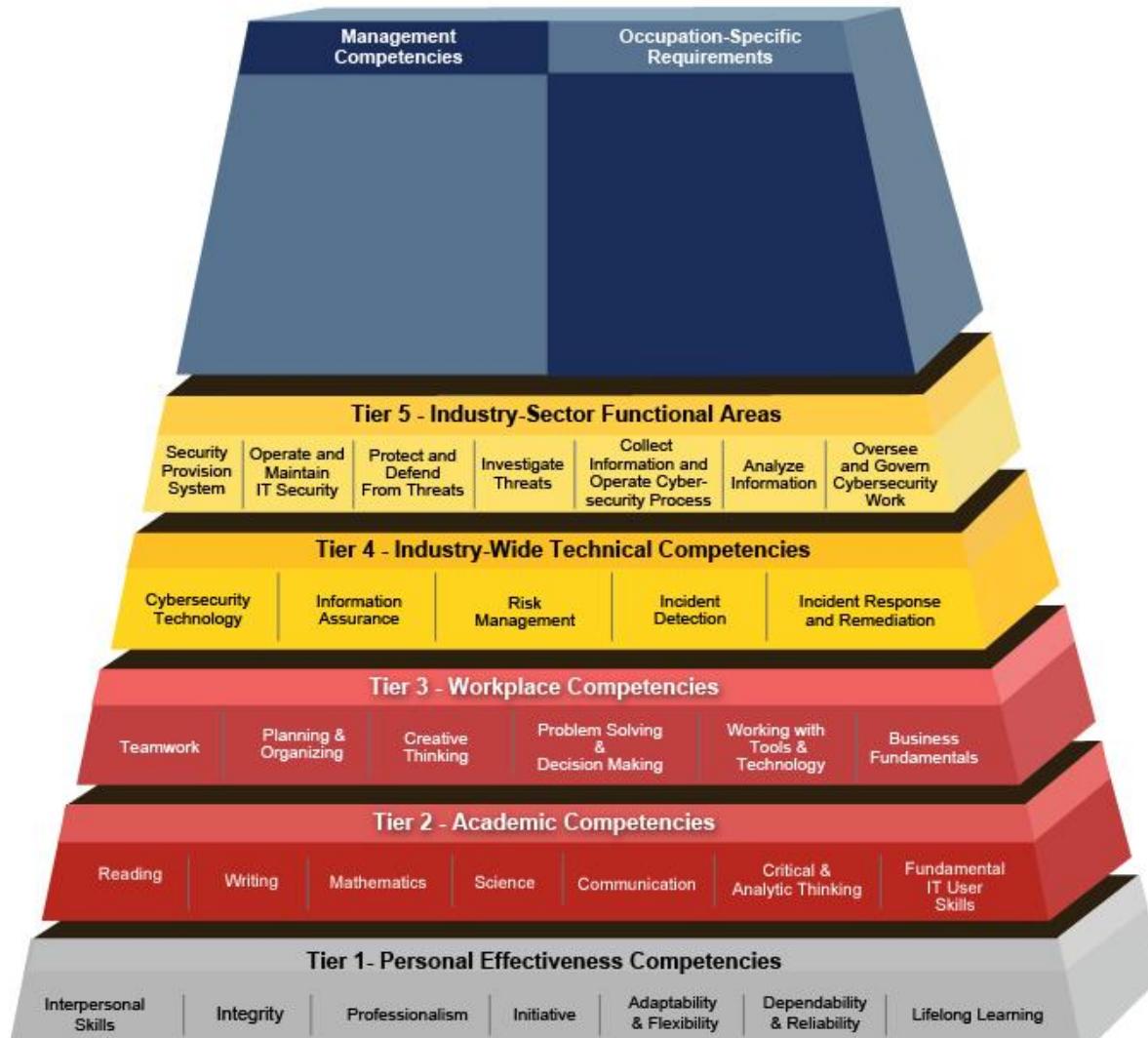
# Firewall



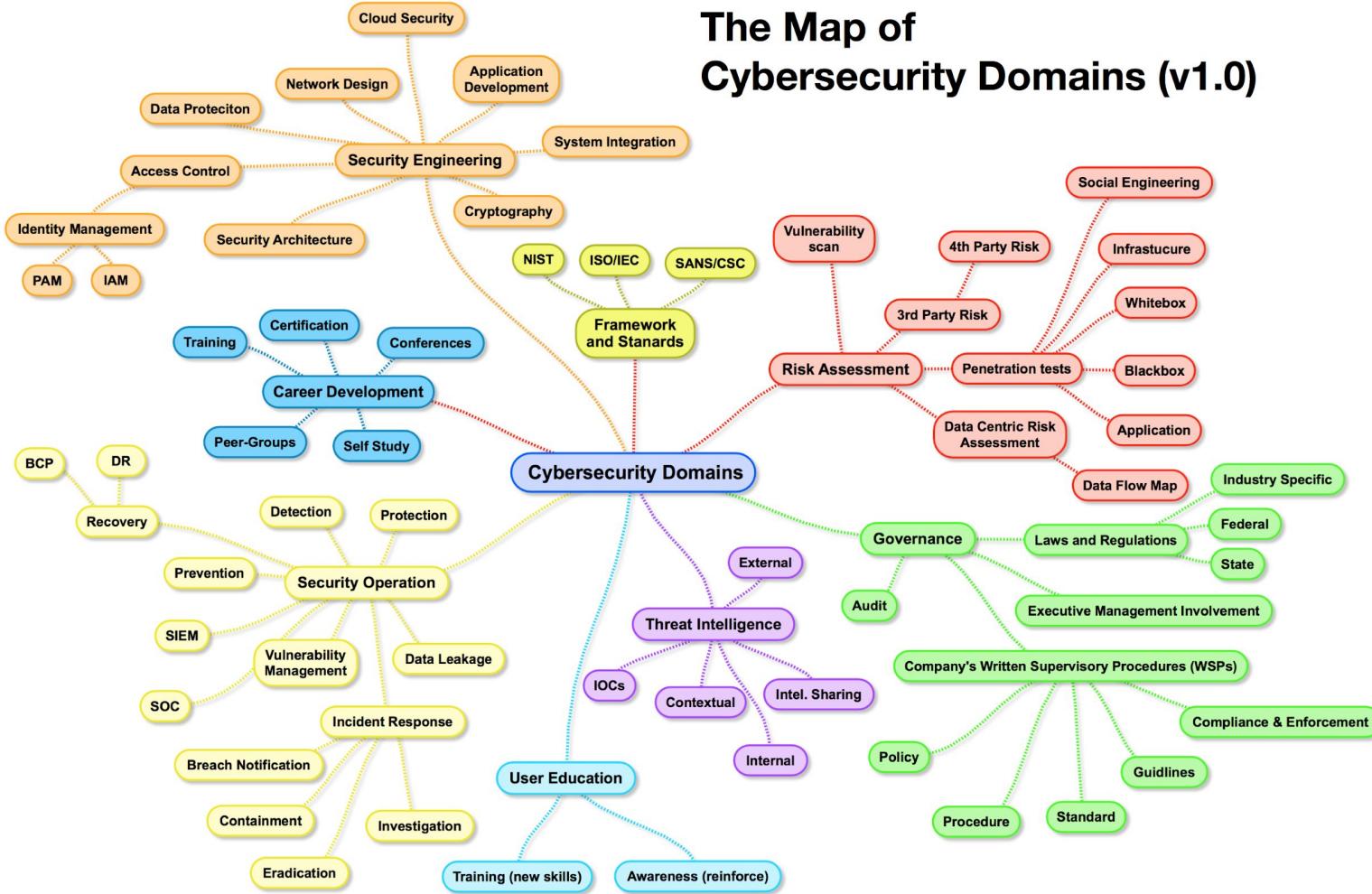
## Network Diagram (Production)







# The Map of Cybersecurity Domains (v1.0)

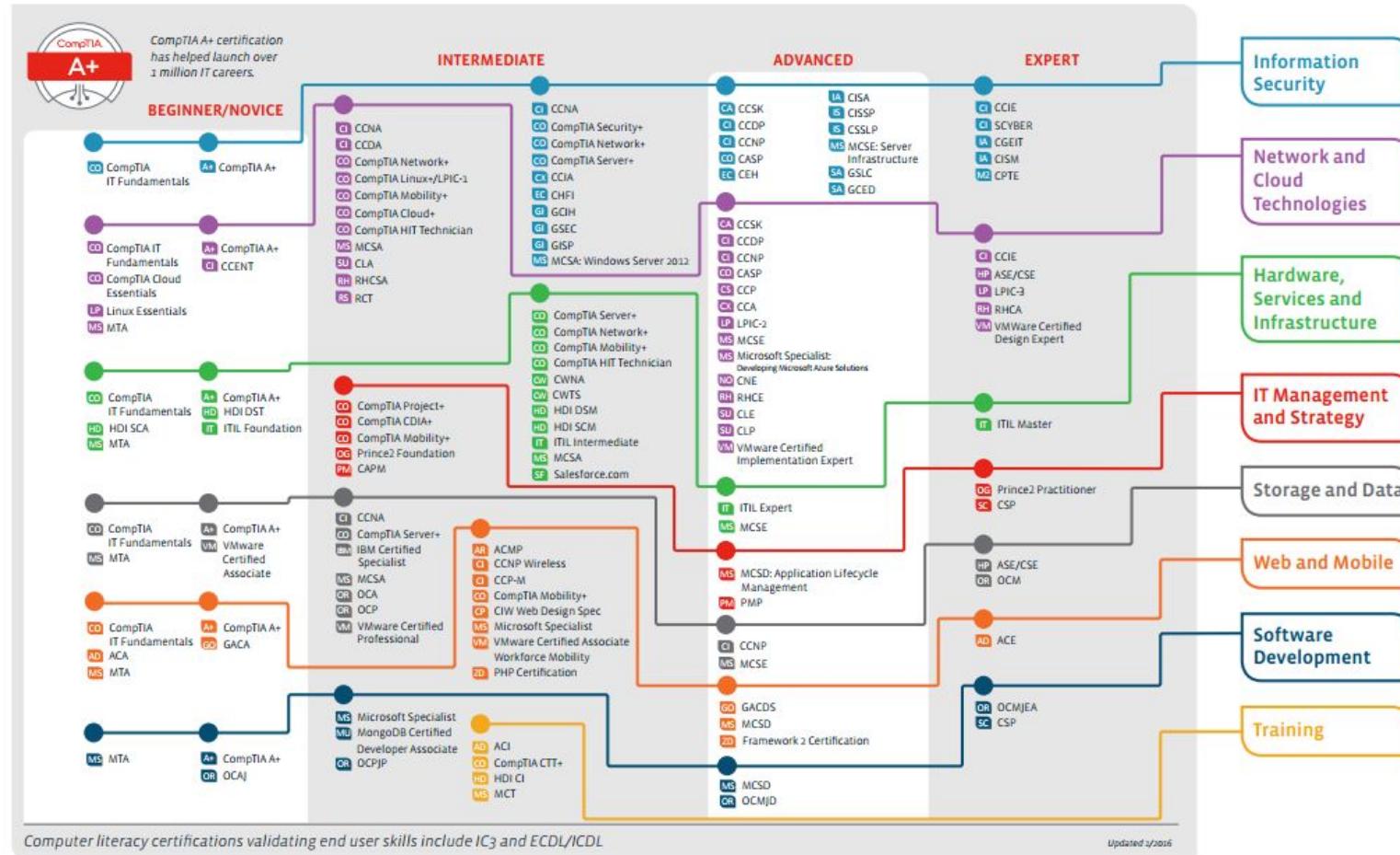


# IT Certification Roadmap

Explore the possibilities with the CompTIA Interactive IT Roadmap at:  
CompTIA.org/CertsRoadmap

CompTIA.

Certifications validate expertise in your chosen career.



# Creating INFINITE Career Opportunities

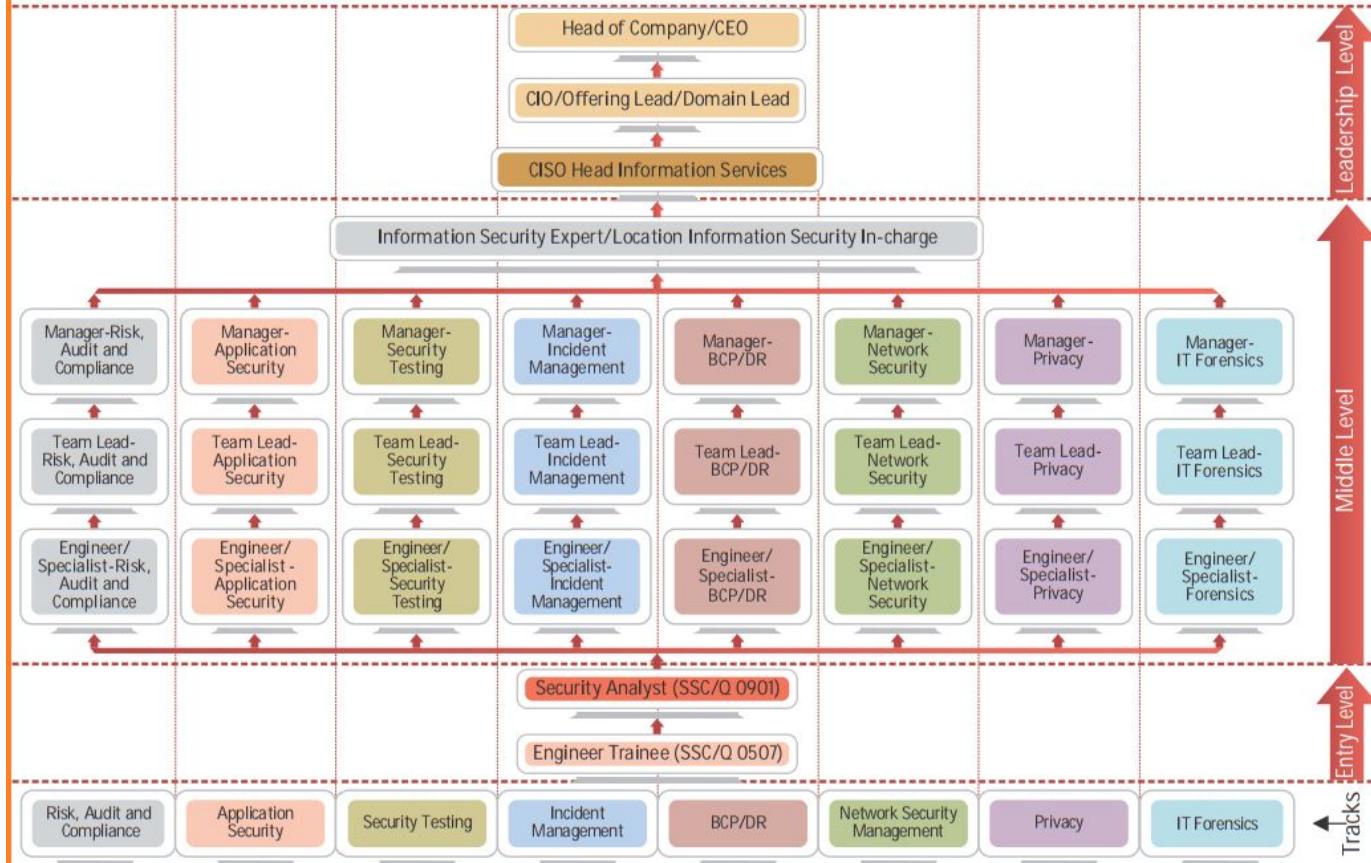
Career Guide – IT Services

Source:-



IT - ITeS SSC  
NASSCOM

## Career Map for Information Security



# Competitions!!!



ISTS 15



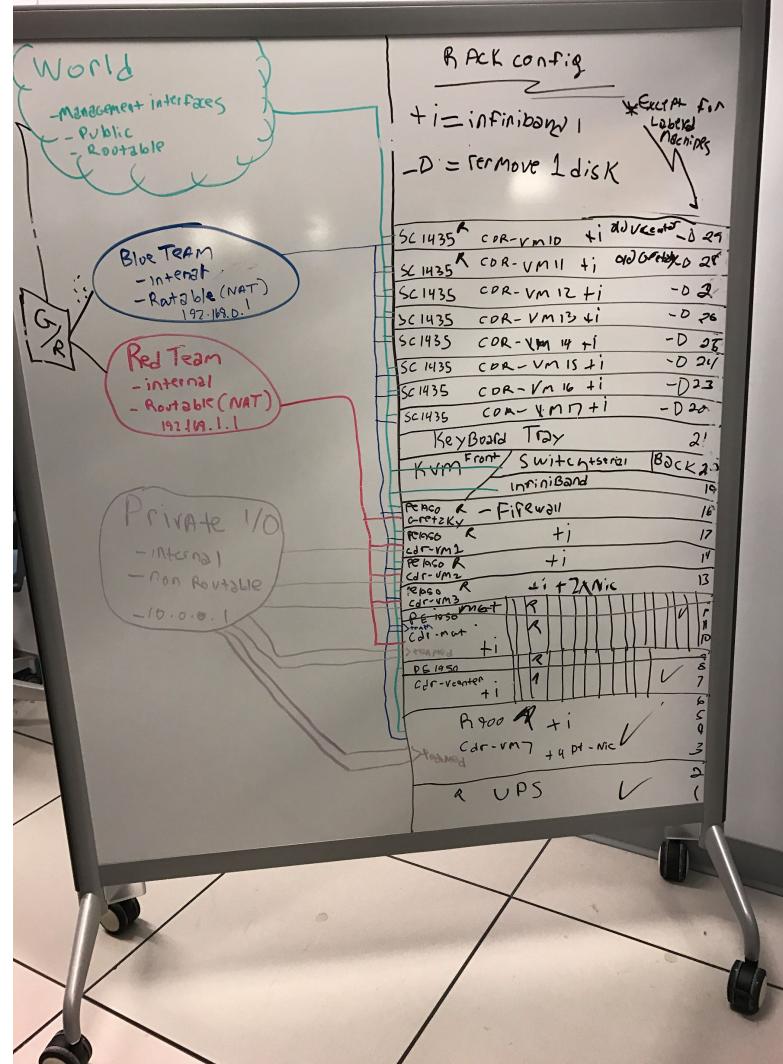
Deloitte.

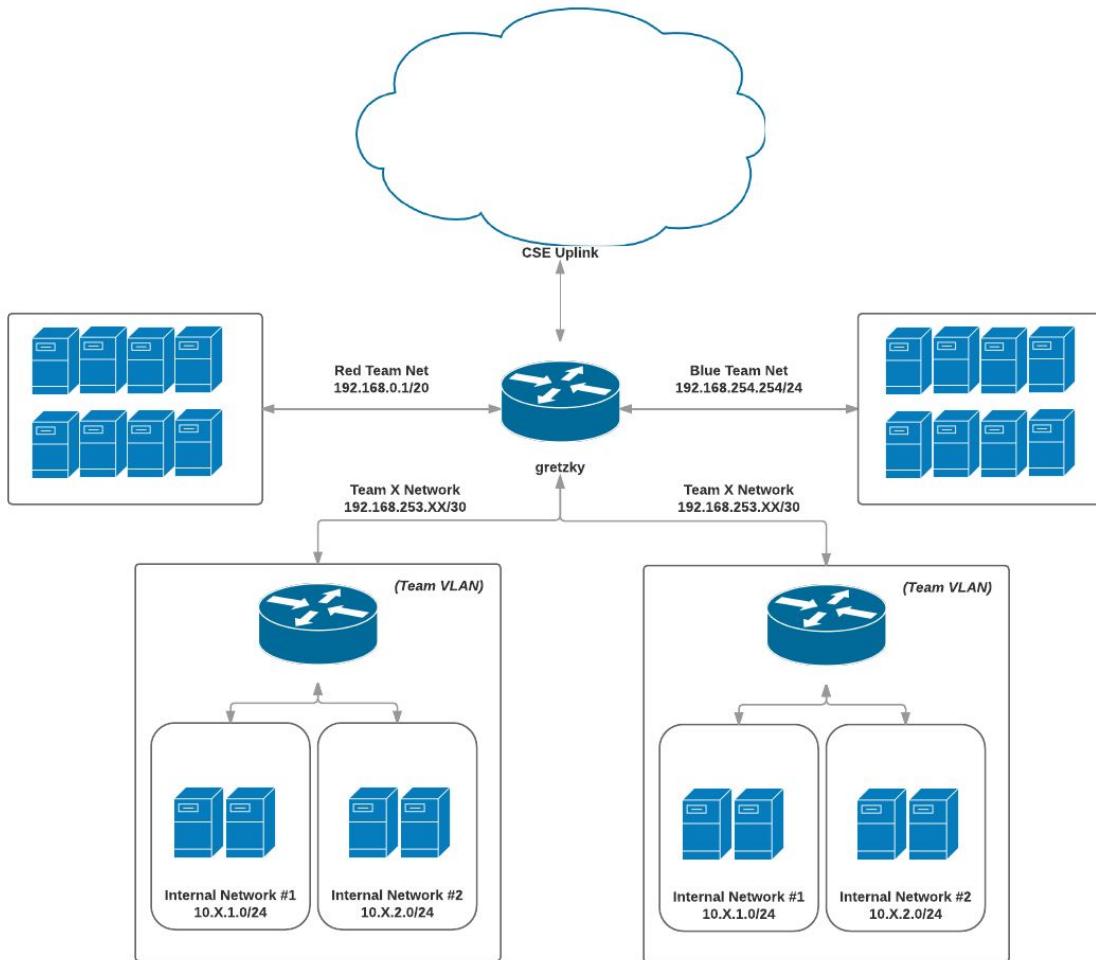


NATIONAL  
COLLEGIALE  
CYBER  
DEFENSE  
COMPETITION



# How Did We Get Here?





# UBNetDef Infrastructure Overview

Overview of all of UBNetDef

[Update in background](#)[Fullscreen](#)[Unlock / Edit](#)Drag widgets to any position you like in [unlock / edit mode](#).

## Failed vCenter Logins

a few seconds ago

3



## vCenter Logins

a few seconds ago

Value	%	Count
Top values		
stefanja	27.78%	5
jamesdro	22.22%	4
sjames5	16.67%	3
peterfow	11.11%	2
acsiracu	11.11%	2
Others		
abitar	5.56%	1
CDR-VCENTER1\$	5.56%	1

## Top Blocked IPs

a few seconds ago

Value	%	Count
Top values		
128.205.44.129	33.94%	167
fe80::250:56ff:fea3:3899	15.24%	75
128.205.44.155	13.82%	68
fe80::250:56ff:fea3:3421	10.37%	51
::	9.76%	48
Others		
fe80::250:56ff:fea3:43d8	3.05%	15
fe80::250:56ff:fea3:4f4b	3.05%	15
fe80::f49f:b09f:2489:4348	2.44%	12
fe80::41f7:15f:4e33:8c85	2.44%	12
180.97.161.227	0.61%	3
218.60.112.227	0.61%	3
218.60.112.224	0.41%	2
128.205.159.69	0.41%	2
218.60.112.225	0.41%	2
180.97.161.226	0.20%	1
218.60.112.226	0.20%	1
37.143.9.64	0.20%	1

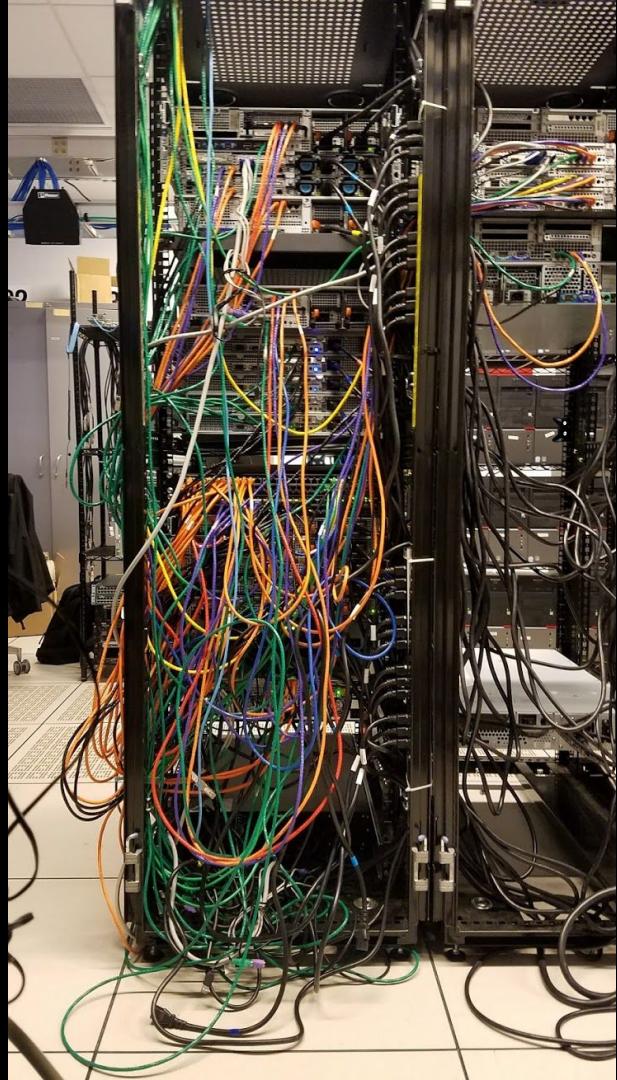
## Top Blocked Interfaces

a few seconds ago

Value	%	Count
Top values		
bce1	53.66%	264
igb0	27.64%	136
bridge0	13.82%	68
igb3_vlan115	4.88%	24

# Vsphere and our Environment

An MBA and two  
CSE students walk  
into a server room...

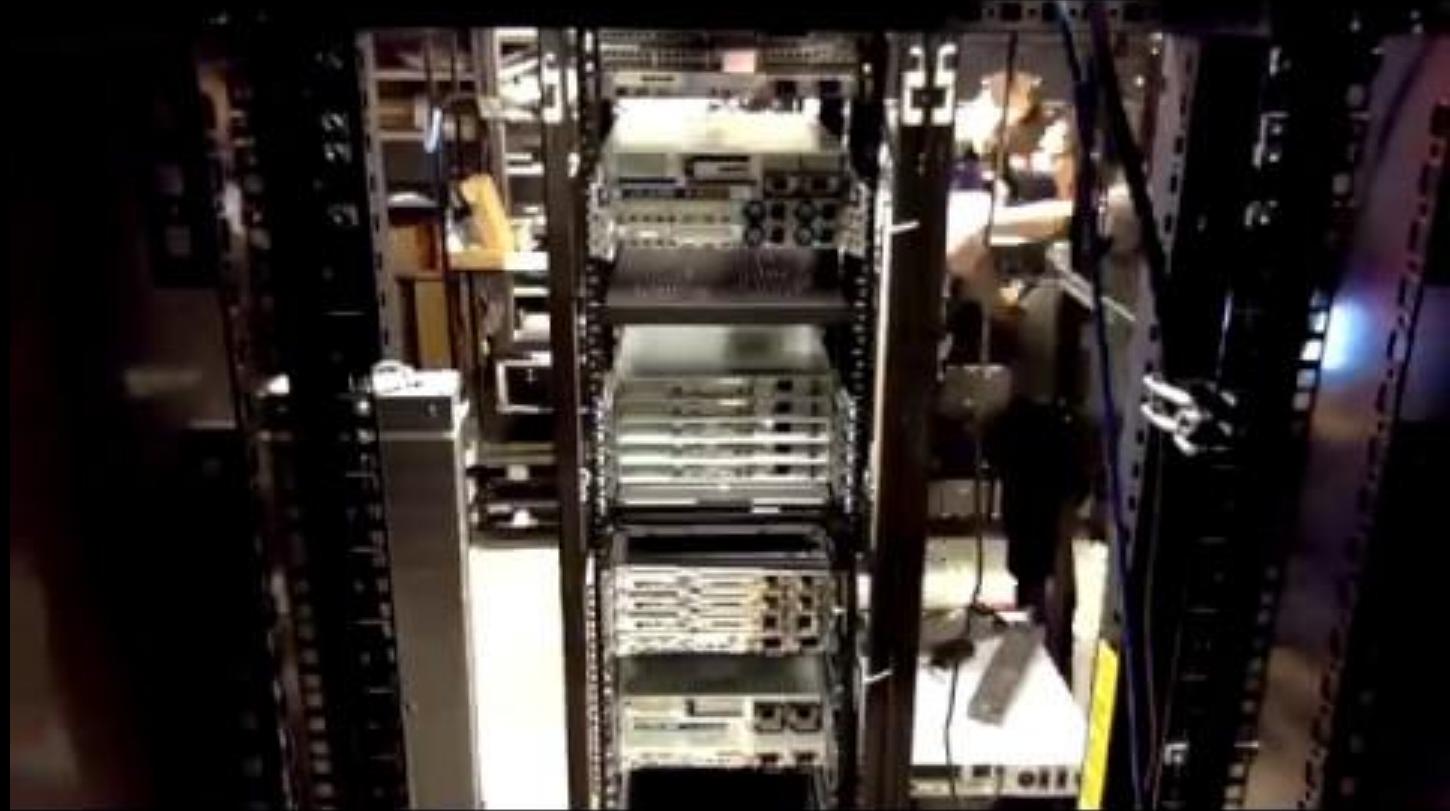


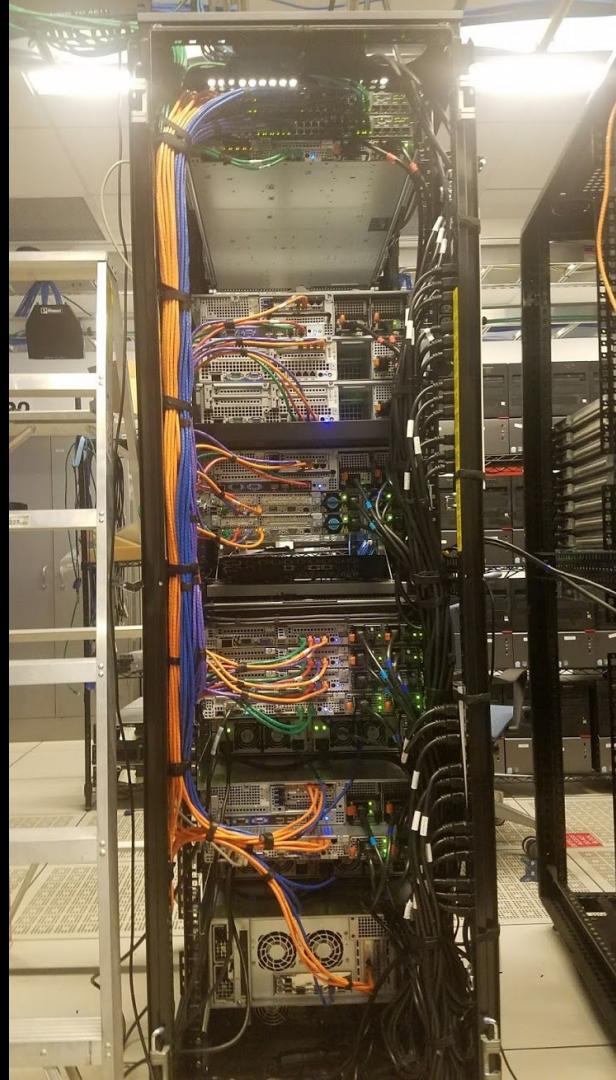
...only one leaves

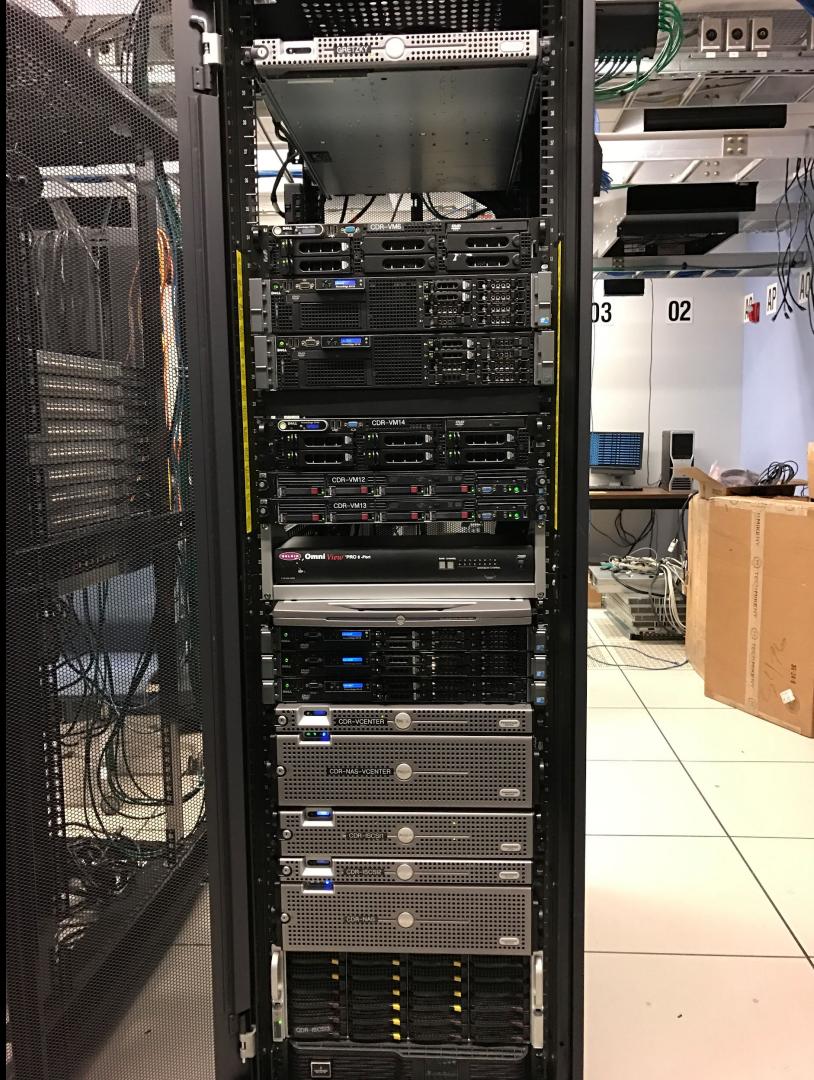
#WorkingTogether



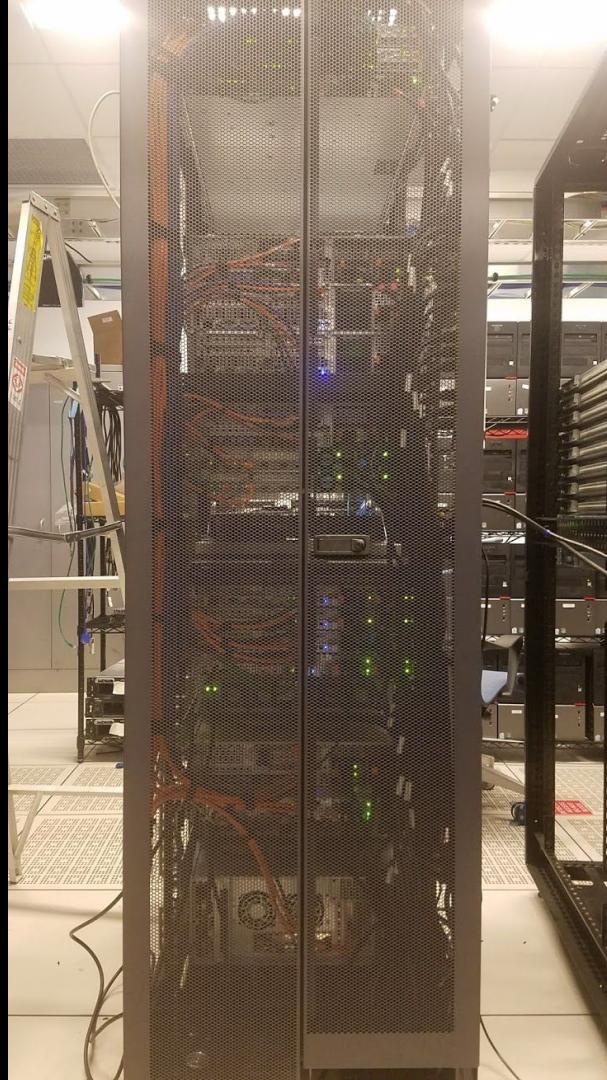








THE DOORS CAN CLOSE!!!



BOTH OF THEM!!!!

# How to Access our Stuff

1. Fill out the Attendance Survey
  - a. [www.ubnetdef.org/attendance](http://www.ubnetdef.org/attendance)
2. Download Mattermost and Sign In
  - a. <https://chat.ubnetdef.org>
3. For Windows Users:
  - a. Download vSphere from [ubnetdef.org/vsphere](http://ubnetdef.org/vsphere)
4. For Mac Users:
  - a. Download VirtualBox from <http://download.virtualbox.org/>
  - b. More Instructions to Come
5. For Off-Campus Access:
  - a. Download Cisco VPN from UBIT  
<https://www.buffalo.edu/ubit/service-guides/software/downloading/windows-software/managing-your-software/anyconnect.html>