

CYBEREAGLES SPRING 2016

1/26/2016

What is CyberEagles?

- Club (of students, by students, for students)
 - ▣ Increase awareness about the importance of security & security careers
 - ▣ Provide informational sessions on cyber defense AND offense
 - ▣ Promote Research
 - ▣ Network
- Club is part of Cybersecurity Education Research and Outreach Center (CEROC)

Officers

- President – Dustin Gardner
- Vice President – Vitaly Ford
- Secretary of Training – Vance Trammell
- Secretary of Infrastructure – Konstantin Menako
- Secretary of Records – Darren Cunningham
- Event Manager – Shritesh Bhattarai
- Press Secretary – Samuel Wehunt

Activities

- ❑ Lunch and Learn
- ❑ Dinner, Dive-in, and Drives
- ❑ Game nights
- ❑ Social event (March)
- ❑ CCDC competition (More on this coming up!)
- ❑ Various capture the flag (CTF) competitions
- ❑ Mentor Internship Program

SECCDC

Southeastern Collegiate Cyber Defense Competition

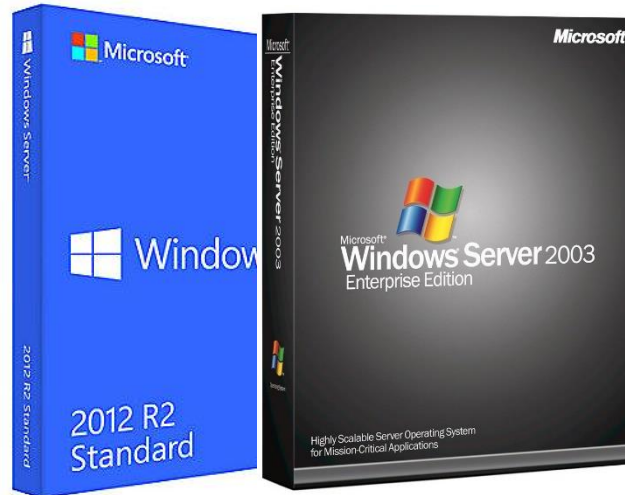


Point Distribution



- Service Uptime
- Business Injections
- Red Team Defense

Service Uptime (1000)



Service Uptime

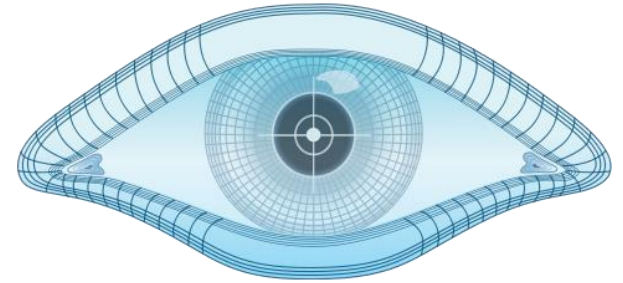
APACHE
HTTP SERVER

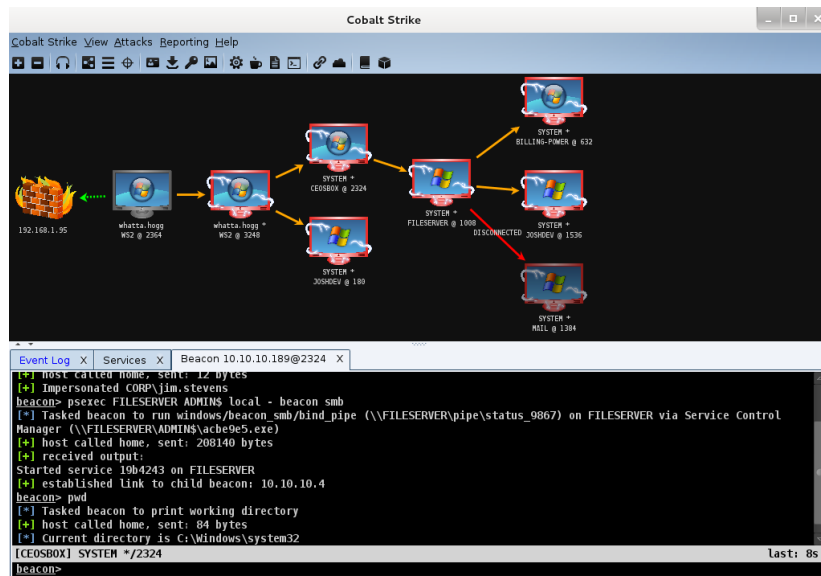


Business Injections (2000)



Red Team Defense (-1000)





Cobalt Strike - \$3500/year/user



Upcoming T-shirts



Dinner, Dive-in, and Drives Preview

- Focus this semester will be CTFs
- May have online once-per-week free class on cyber security (Reverse Engineering)

Mentorship Program Preview

- Rip Trammell

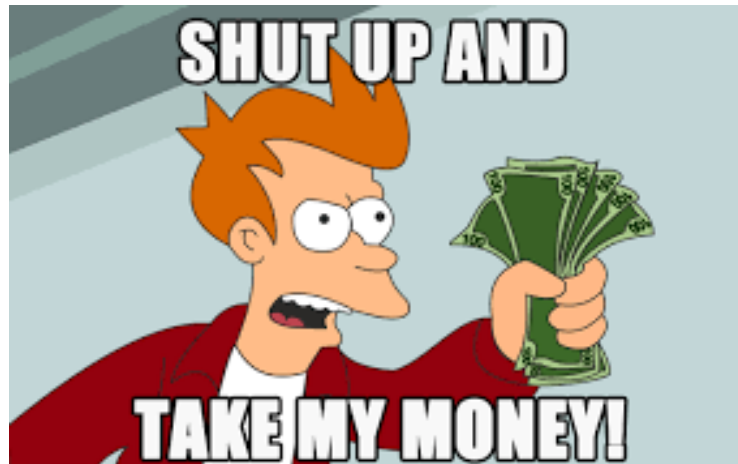
- Senior Cybersecurity concentration
- Software Development Experience
- Interests: education, firewalls, and networks

- Vitaly Ford

- Senior Ph. D. Student
- Research: Smart Grid Security
- Interests: web, cryptography, scripting

How do you join?

- ❑ Talk to any of the officers
- ❑ If you paid in fall, no need to pay
- ❑ If you are new, dues are only \$5 for this semester



Tennessee Tech



CyberCorps®
Defending America's Cyberspace

CyberCorps® Scholarship for Service

Peace Corps vs CyberCorps

- Peace Corps
 - ▣ Promote world peace
- CyberCorps
 - ▣ Keep cyber peace

What is CyberCorps?

- Federal Government's response to deal with national threat by strengthening the cadre of information assurance professionals
- Program sponsored by National Science Foundation partnered with Department of Homeland Security
- Provides students with a **dedicated environment** to acquire **skills, experience** and **connections** to excel as a shovel ready professional

What is Tennessee CyberCorps?

□ Hybrid program

▣ Accelerated path to Master's in 1 additional year

- Open only to TTU CS Cybersecurity concentration fast track students after 60 credit hours completion
 - Receive scholarship as undergraduate SFS scholar during junior and senior year in fast track
 - Receive scholarship as graduate SFS scholar during remaining 1 year in Master's
- 3 new scholarships each year

▣ Traditional path to Master's in 2 years

- Open to any student across nation
- 4 new scholarships each year

Top Ten Reasons to Consider SFS

1. A privilege to serve our nation at the frontline.
2. A honor to be recognized as a CyberCorps scholar.
3. An opportunity for advanced education in cybersecurity.
4. An opportunity for getting involved in trending research
5. An opportunity for service learning.
6. Direct bridge to federal/state employment.
7. Provides opportunity for summer internship.
8. Pays all tuition.
9. Pays for travel, professional development and health.
10. Pays hefty stipend (for a student).

Benefits

For each year in the SFS program, students will receive:

- ❑ full coverage of all tuition;
- ❑ \$3,000 health insurance reimbursement
- ❑ \$4,000 for professional development/travel reimbursement
- ❑ \$2,000 as Book Allowance.
- ❑ \$22,500 stipend (for undergraduates) and \$34,000 stipend (for graduate students)

Obligation

- ❑ Must serve at a Federal, State, Local, or Tribal Government organization or National labs in an information assurance position for a period equivalent to the length of the scholarship or one year, whichever is longer.
- ❑ The (paid) jobs will be located throughout the United States. Majority will be in the Washington, DC, metropolitan area.

General Eligibility of All SFS Programs

- Be a full-time student within two years of graduation with a bachelor's or master's degree;
- Be a United States citizen or permanent resident;
- Be enrolled in selection service (male applicants only);
- Commit to provide service per year of scholarship received;
- Meet criteria for Federal employment; and
- Be able to obtain a security clearance, if required.

Eligibility for Tennessee CyberCorps

Accelerated Path Eligibility:

- ❑ Be a full-time TTU CS student within two years of graduation with a bachelor's degree;
- ❑ Be eligible to enroll in the Computer Science Fast Track program (overall GPA of 3.25 and a GPA for CS courses of at least 3.5);
- ❑ Enrolled in the Cybersecurity concentration;
- ❑ Demonstrated commitment towards cybersecurity career;
- ❑ Commitment to complete Master's degree with additional one more year;
- ❑ Commitment to contribute in TTU CEROC's educational, research and outreach activities.

Eligibility for Tennessee CyberCorps

Traditional Path Eligibility:

- Any undergraduate student across nation with GPA of at least 3.0/4.0 in computer science or related fields;
- GRE scores with Quantitative $\geq 50\%$; Verbal $\geq 33\%$; Analytical Writing $\geq 33\%$. (TTU students will not be required to take the GRE);
- 3 letters of recommendation that demonstrate strong evidence for success in the program;
- Availability of appropriate faculty to serve as research advisor;
- Demonstrated participation in undergraduate research and/or competitions in the field;
- Demonstrated involvement with independent/group projects and/or professional experience in the field;
- Demonstrated commitment towards cybersecurity career;
- Commitment to contribute in TTU CEROC's educational, research and outreach activities.

Responsibilities of Tennessee CyberCorps Students

- ❑ Participate in SFS Boot camp
- ❑ Complete courses in their curriculum with B or better grade
- ❑ Conduct research under the guidance of a faculty mentor over regular semester
- ❑ Actively participate in CyberEagles club training activities
- ❑ Undergo professional certification training
- ❑ Participate in at least one security competitions such as SECCDC and National Cyber League
- ❑ Provide technical training in TTU events: TN Aspiration award, CyberEagles, WiCyS, SEWIC
- ❑ Join Middle TN ISSA or Middle TN ISACA and attend at least 2 meetings
- ❑ Serve as mentor in at least one of these: SFS Student Ambassador Program, CyberEagles Mentor Internship program, Class+
- ❑ Serve in leadership position (officers) in one of these: CyberEagles, NSBE, Society of Women Engineers (SWE), Association of Computing Machinery (ACM)
- ❑ Participate in summer internship/research
- ❑ Attend at least 2 conferences
- ❑ Attend SFS Job fair, WiCyS career fair, virtual SANS Talent Fair

Contact Information

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