PRO-CERTS, DEGREES, BOOTCAMPS, & LOW COST/FREE STUFF: BREAKING INTO CYBERSECURITY CAN BE ____ (INSERT ADJECTIVE)

BE Rhodes

Head of Cybersecurity, zvelo

LTC, Cyber Warfare, Colorado Army National Guard

OUTLINE

- WHOIS: Brad Rhodes
- Important questions (about yourself)
- Cybersecurity Fields
- Degrees
- Bootcamps
- Professional Certifications
- Free Training
- Low Cost Training
- How to get experience
- Networking, Networking

WHOIS: BRAD RHODES

• TLDR:

- ✓ Head of Cybersecurity at zvelo
- ✓ LTC, Cyber (17A) Colorado Army National Guard & Cyber Shield OIC
- Military Cyber Professionals Association, HammerCon Co-Lead
- Speaker, Author, Professor, Coach
- ✓ #toomany Pro-Certs, highlights: CISSP-ISSEP, CISM, PMP, CEH, GMON, GCIH, RHCSA, CCNA Cyber Ops, CySA+

Recent Podcast Appearance (Colorado = Security, Episode 159): https://www.colorado-security.com/podcast



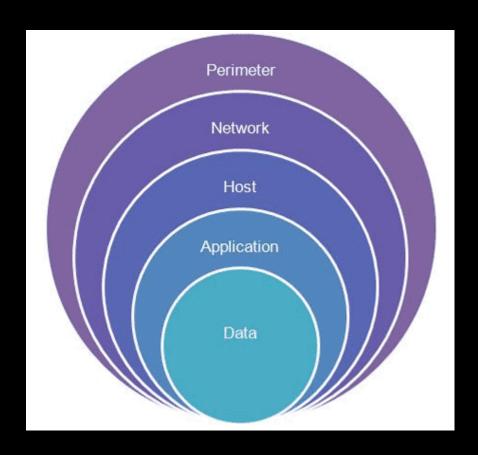




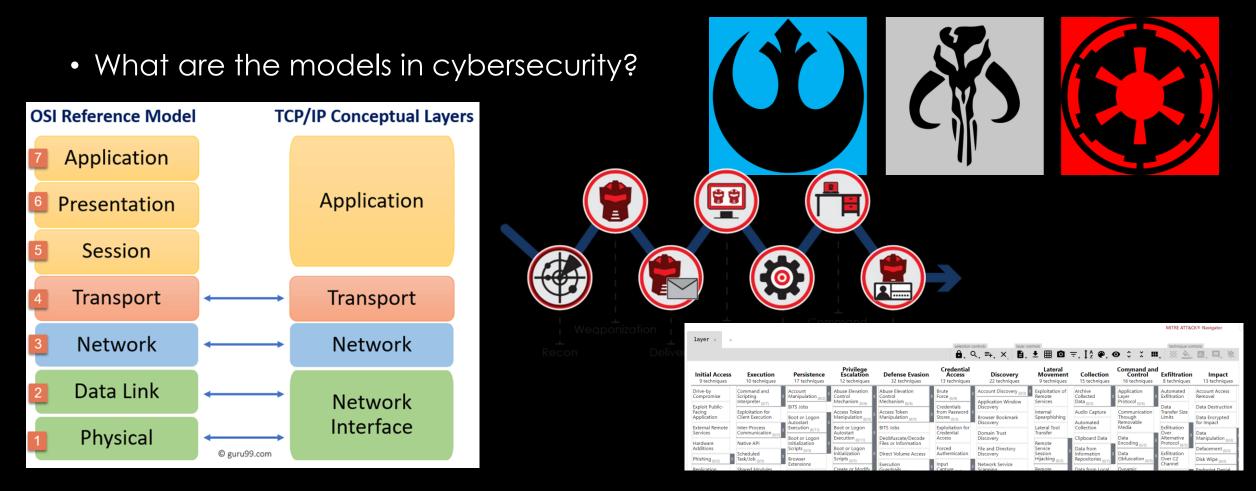


IMPORTANT QUESTIONS

- What SKILLS are needed in cybersecurity?
 - Planning, Networking, Scripting, Operating Systems, Databases, Cloud, RF (Radio Frequency), Big Data, and many more...
- What are the standards in cybersecurity?
 - NIST (https://www.nist.gov/topics/cybersecurity
 - ISO (https://www.iso.org/home.html)
 - CIS (https://www.cisecurity.org/)
 - IEEE (https://www.ieee.org/)
 - CMMC (https://www.acq.osd.mil/cmmc/)
 - Laws and regs... for example HIPPA, SOX, GLBA, GDPR, etc



IMPORTANT QUESTIONS



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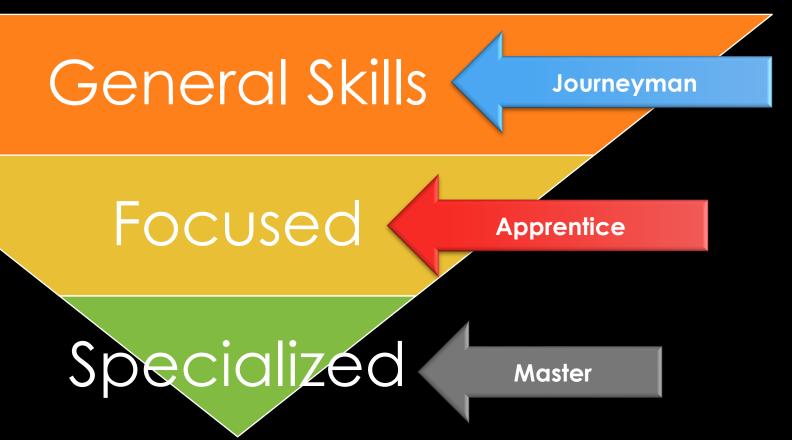
What do YOU want to DO?



Diversity of thought is CRITICAL to cybersecurity!

https://public.milcyber.org/activities/magazine/articles/2020/houston-the-next-cyber-whiz-kid-might-be-an-english-major

CYBERSECURITY FIELDS



CYBERSECURITY FIELDS

| Fields | On "Keyboard"? | Level(s) |
|---------------------------|----------------|-----------------------|
| Leadership & Policy | Sometimes | Master |
| Forensics | Yes | Apprentice-Master |
| Incident Response | Yes | Apprentice-Journeyman |
| Pentesting | Yes | Journeyman-Master |
| Malware Reverse Engineer | Yes | Journeyman-Master |
| Big Data & Analysis | Sometimes | Apprentice-Journeyman |
| Cyber Threat Intelligence | Sometimes | Apprentice-Master |
| Auditing | Sometimes | Journeyman-Master |
| Analysts | Sometimes | Apprentice-Master |
| Architects | Sometimes | Journeyman-Master |
| Trainers/Educators | Sometimes | Journeyman-Master |

DEGREES

- Do you have a Bachelor's Degree?
 - Get a Professional Certification or Two
- Do you have a Master's Degree?
 - Get a Professional Certification or Two
- Do you not have any Degree?
 - Get a Professional Certification or Two

If you choose to get a Degree, be sure it is from a Regionally Accredited Institution and preferably an NSA Center of Academic Excellence in Cyber Operations (https://www.nsa.gov/resources/students-educators/centers-academic-excellence/cae-co-educators/



BOOTCAMPS

- Two Types:
 - Short (1-2 weeks)
 - Long (4-6 months)
- Things you might hear:
 - "Become a cybersecurity professional in just 24 weeks!"
 - "Guaranteed job placement!"
 - "Money Back Guarantee"



Brad's Opinion: Beware Romulans Bearing Gifts!

PROFESSIONAL CERTIFICATIONS





















Legend:

(A)= Advanced

(B) = Beginner

(I) = Intermediate

PROFESSIONAL CERTIFICATIONS

- Management-focused:
 - CISSP (A)
 - CISM (I)
 - CASP (I)
 - PMP (I)
 - ITIL (I)
 - CCISO (I)
- Hands On:
 - RHCSA (I)
 - OCSP (A)
 - CCNA (I)
 - CEH (Master) (I)

- Knowledge-based:
 - Security+ (I)CySA+ (I)
 - A+ (B)
- Google IT Cert (B)
 - Network+ (B)
 - Linux+ (I)
 - Cloud+ (I)
 - CEH (I)
- Hybrids:
 - Anything GIAC (B, I, A)
 - PenTest+ (I)

Brad's TIP: BOLO for Beta exams!

PROFESSIONAL CERTIFICATIONS

Demonstrate your ability to learn and retain information!

Do NOT guarantee you a job, but can get you in the door!

Are NOT equivalent to experience!

Brad's TIP: Once you get a pro-cert, you have to maintain it (CPEs & \$\$\$)!

- Splunk: https://workplus.splunk.com/veterans
- Palo Alto: https://live.paloaltonetworks.com/t5/second- watch/ct-p/Veterans_Network
- Cisco (via Institute for Veterans and Military Families at Syracuse University): https://blogs.cisco.com/csr/cisco- offers-military-veterans-free-cybersecurity-training
- IVMF (different tracks): https://ivmf.syracuse.edu/programs/career-training/
- PMP Pro Learn: https://www.pm- prolearn.com/visitor class catalog
- YouTube (example Python Zero to Hero: https://www.youtube.com/watch?v=eHxoh9Rrtdk
- FedVTE: https://fedvte.usalearning.gov/

FREE TRAINING















LOW COST TRAINING

- Cybrary
- Coursera
 - https://grow.google/programs/it-support/
- Udemy
- ITProTV
 - Discount for Veterans!
- Buy a book & self-study!
- Build some Virtual Machines (VM)!
- Buy a RaspberryPi!











HOW TO GET EXPERIENCE

- Volunteer!
 - Cyberpatriot (https://www.uscyberpatriot.org/)
 - National Collegiate Cyber Defense Competition (CCDC)
 & Regional (https://www.nationalccdc.org/)
 - National/Regional/Local Tabletop Exercises
 - Professional Organization Local Chapters
- Capture the Flags
 - SANS Holiday Hack (https://www.holidayhackchallenge.com/past-challenges/)
 - Over-the-Wire (https://overthewire.org/wargames/bandit/)
 - Hack-the-Box (https://www.hackthebox.eu/)











NETWORKING, NETWORKING, NETWORKING

- LinkedIn! Please be OPSEC savvy!
 - I'm happy to connect with you: https://www.linkedin.com/in/brad-rhodes-1951ba7/
- Professional Organizations
 - National & Local Chapters
- Meetup(s) (https://www.meetup.com/)
- Job Fairs have your resume handy/ready (virtual or in-person)
- Have business card to hand out (when we go back to meeting in person)!
- Find and follow Blogs like Jax Scott's: https://beansandbytesblog.com/5-steps-to-a-cybersecurity-career/





THE REAL SECRETS!

- You as a Veteran already have valuable skills
- You need to be a life-long learner
- You need to know how to research
- You need to have some writing chops
- You are NEEDED in cybersecurity!!

SUMMARY

- Pro Certs, Degrees, Bootcamps, & Low Cost/Free Stuff: Breaking into Cybersecurity can be ____ (insert adjective)
 - Exciting
 - Amazing
 - Fun
 - Productive
 - Scary
 - Rewarding
 - The best career choice you'll make!!

THANK YOU VETSECCON!!

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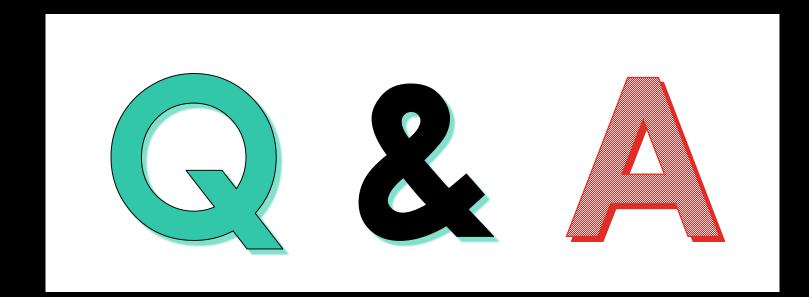






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Presentation on Github: https://github.com/cyberguy514/presentations



QUESTIONS\$\$\$