A Career in Cybersecurity
Cybersecurity Webinar Series

Speaker: Lonnie Harris
Hostess: Kara Sullivan
Cisco Networking Academy
18 October 2018
Welcome to the 3rd session of the Cybersecurity webinar series

• Use the Q and A panel to ask questions.
• Use the Chat panel to communicate with attendees and panelists.
• A link to a recording of the session will be sent to all registered attendees.
• Please take the feedback survey at the end of the webinar.
Cybersecurity Webinar Series

- Session 1: Cybersecurity Basics, Recording available
- Session 2: Security Threats & Breaches, Recording available
- Session 3: A Career in Cybersecurity, Today!

Access Series @
A Career in Cybersecurity

Lonnie Harris – Cybersecurity Architect
2018
THE EVOLUTION OF COMMUNICATION - VOICE
THE EVOLUTION OF COMMUNICATION - INTERNET

- Age of digital communication via computers
- Mosaic was the first browser for sound, video, forms, and history files
- Birth of world wide web (WWW)
- Email services – GMAIL, Hotmail, Yahoo
- The Internet of Things
THE EVOLUTION OF COMMUNICATION - (INTERNET OF THINGS IOT)

• Statistics shows the number of connected devices (IoT) worldwide from 2015 to 2025

• For 2020, the installed base of Internet of Things devices is forecasted to grow to almost 31 BILLION worldwide
Every IT position is also a cybersecurity position now; having to be involved with protecting and defending apps, data, devices, infrastructure, and people. The cybersecurity workforce shortage is even worse than what the jobs numbers suggest.
Russians Attack 2018 U.S. Elections Via Facebook, Social Media

DAVID PIERSON, LOS ANGELES TIMES - MCCLATCHY ON AUG 1, 2018
Major life-threatening cyber attack on UK 'in little doubt' in near future, warns security chief

The National Cyber Security Centre warns that a life-threatening incident will almost inevitably strike the UK.
What will the warrior-guardian of the future look like?

Yo! Dude... Back here!
EXERCISE

• Open a web browser and navigate to the Shodan website at https://www.shodan.io/.

• After successfully logging in, you will see your account page, as shown below. Click the Shodan link to return to the homepage.

• Top web cameras used for home security

• Nest Cam Indoor Network Camera - 3 MP - 1080p - Day/Night - 3 Pack rated 4.5 out of 5 stars, 922 reviews

• Type NEST as the keyword and press Enter. How many results did you get for your search

• Attackers looks for unsupported operating system, known vulnerabilities or published attacks

• Use an Internet search to discover the well-known 2017 cyberattack that targeted older Windows operating systems
CHOOSING THE RIGHT SIDE

cy·ber·at·tack

noun
noun: cyber-attack

an attempt by hackers to damage or destroy a computer network or system.

eth·i·cal hack·er

noun
noun: ethical hacker; plural noun: ethical hackers

a person who hacks into a computer network in order to test or evaluate its security, rather than with malicious or criminal intent.

"ethical hackers are becoming a mainstay of the effort to make corporate networks more secure"
## CYBERSECURITY ROLES AND SKILLS

<table>
<thead>
<tr>
<th>Job Title</th>
<th>Skills</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Engineer</td>
<td>• Network Admin., Troubleshooting, TCP/IP, Software Installation, Active Directory</td>
</tr>
<tr>
<td>Systems Engineer</td>
<td>• Servers, Storage, Data Center, Cloud Computing, Networking</td>
</tr>
<tr>
<td>Software Developer</td>
<td>• Programming, JavaScript, Python, Databases, Data Analytics</td>
</tr>
<tr>
<td>Business Analyst</td>
<td>• Business Analysis, Microsoft Office, Project Management, Process Management, Requirements Analysis</td>
</tr>
<tr>
<td>Data Analyst</td>
<td>• Data Analysis, Customer Support, Organization skills, Microsoft Office, Problem Solving</td>
</tr>
<tr>
<td>Software/System QA</td>
<td>• Software Development, Test Suites, Troubleshooting, Requirements Analysts, Web Design</td>
</tr>
<tr>
<td>Systems/Network Administrator</td>
<td>• Network Operations, DevOps, Troubleshooting, Integration, Customer Services</td>
</tr>
<tr>
<td>Technical Support</td>
<td>• Troubleshooting, Customer Service, Microsoft Office, Windows, hardware/Software</td>
</tr>
<tr>
<td>Security Engineer</td>
<td>• Network Security, Linux, Vulnerability Assessment, Firewalls, Intrusion Detection</td>
</tr>
</tbody>
</table>
RESOURCES TO GET STARTED

• Cyber Seek is helping to close the cybersecurity skills gap by creating interactive career pathway
  https://www.cyberseek.org

• Cisco Networking Academy
  https://www.netacad.com

• 1000+ cybersecurity analysts jobs in North Carolina 10/16/2018
ARE YOU READY✔

• Is there strong demand for cybersecurity jobs in my region? ✔

• Do I know of cybersecurity educational and training resources? ✔

• I do not need to have a IT background. ✔

• Is there a future in the cybersecurity beyond tomorrow? ✔

• Do I have a desire to protect the services and societal growth provided by the Internet? ✔
WANTED AND URGENTLY NEEDED: CYBERSECURITY PROS TO SERVE THEIR COUNTRY

RESUME PLACE
Q&A
Qualifications for Certificate of Participation

- Must Participate in all 3 sessions of the Cybersecurity webinar series – whether through recordings or live sessions
- Opportunity to earn a certificate will stay open for one month – until 18 November
- Request certificate @ http://netacad.cvent.com/CertificateRequestForm
Intro to Cybersecurity Self-Enroll Course

Introduction to Cybersecurity
Learn how to protect yourself online and in social media while discovering careers in cybersecurity.

Enroll Now

You can enroll today to learn more @ http://bit.ly/introsecurity