

The 18th Annual Colloquium

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Facebook

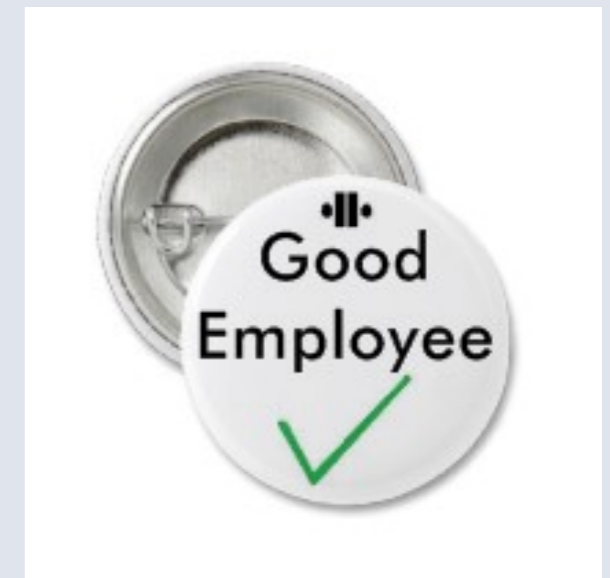
Topics to cover

- 1** Introduction
- 2** Current state of the industry
- 3** What do we look for
- 4** Changing the game
- 5** Wrap Up
- 6** Q&A

So who am I



Current state of internet security



Current state of internet security



Security of the internet is paramount to keeping the internet strong

What do we look for

- Enthusiasm and a desire to ensure security and privacy on the internet
- Knowledge of Linux, Windows, and Mac
- Expertise with an interpreted program language (PHP, Python, Java, etc.)
- Background in server, network and application security disciplines
- Passion about making the world more open and connected

And we aren't there. . . .yet

“Who” is a security engineer



Changing the game

em·pa·thy

/ˈempəTHē/ 

noun

the ability to understand and share the feelings of another.

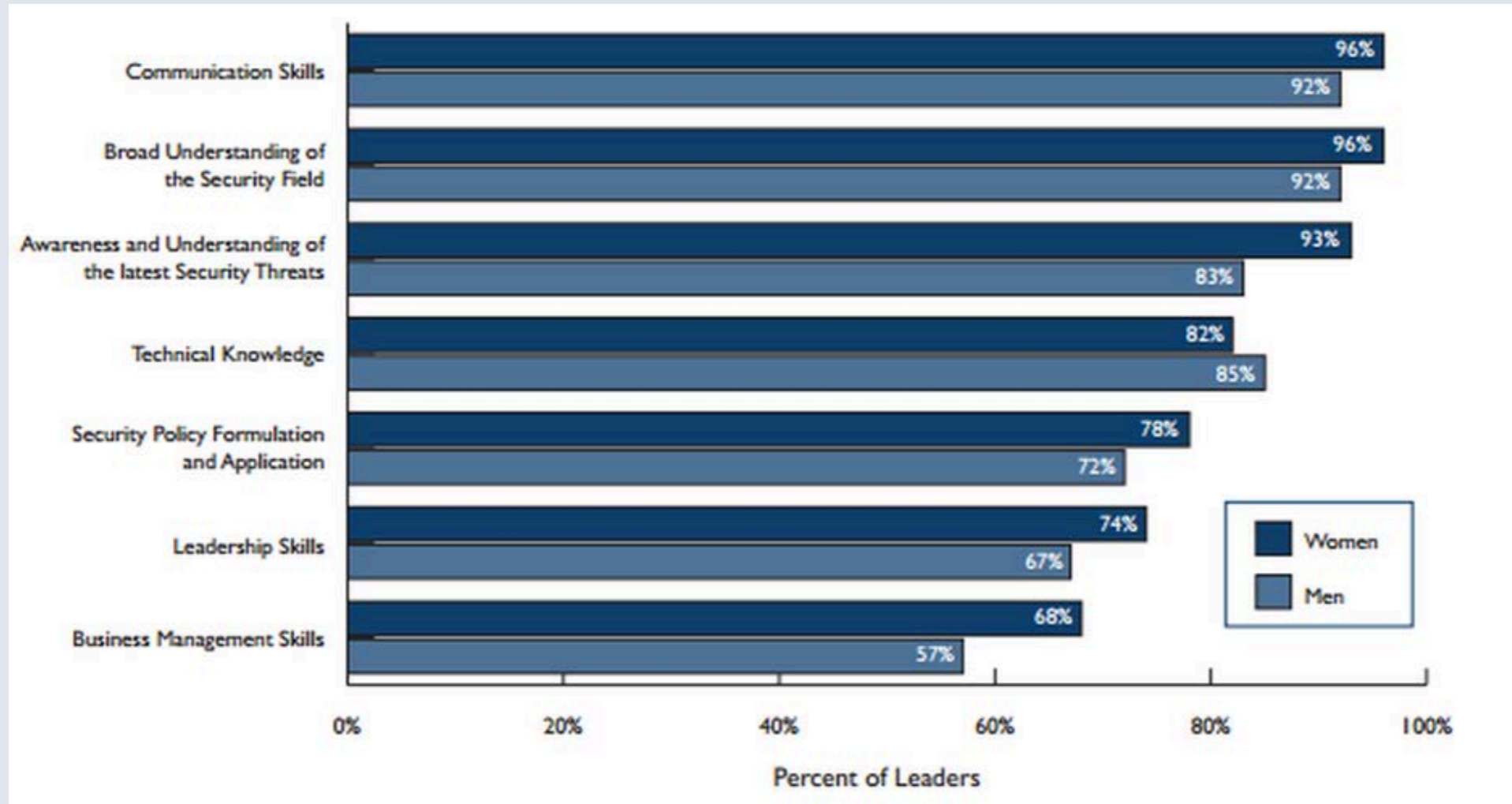


Let's talk about diversity

- Currently, 17% of tech jobs are filled by women...in the information security field it is only 10-11%
 - Only 13% of female teens say a STEM related career would be their first choice
- African Americans make up 7% of the information security labor force
- Latinos make up 5% of the information security labor force

Why we need more women (and diversity)

How Women and Men view the importance of the following attributes:



“The report findings demonstrate that the surveyed women believe a successful information security professional should maintain a variety of skills vs. surveyed men, who believe technical skills should be the priority.”

Debunking the myths

1. There is no one else like me in the field
2. Stereotypes, culture and lack of encouragement
3. Women especially tend to think they won't be good at it
4. Security is not a glamorous job and it's not interesting
5. Unattractive field that is more based on isolated work rather than collaborative work
6. It's a risk based discipline so it's not as creative

Changing the game

em·pa·thy

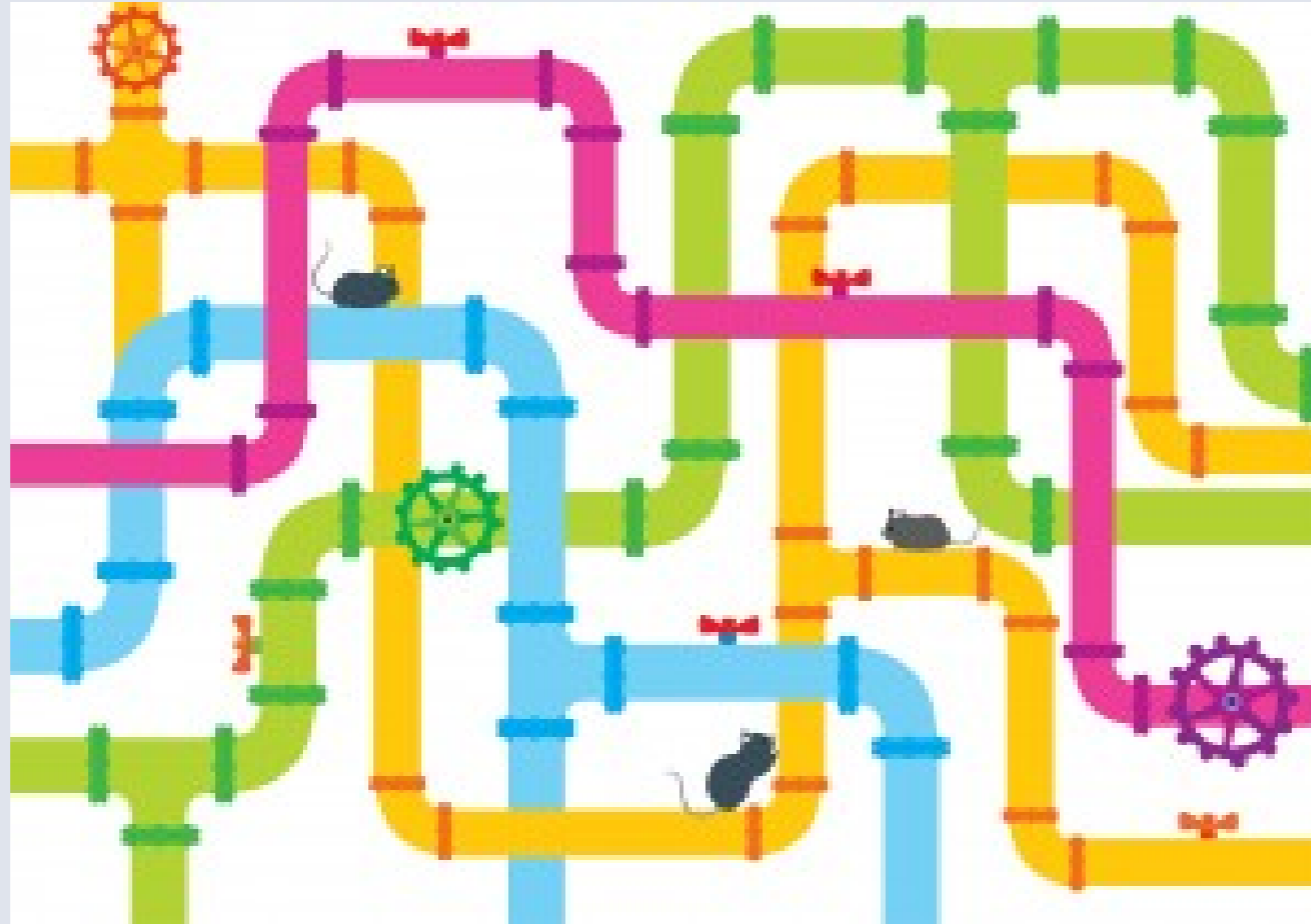
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How do we change the game



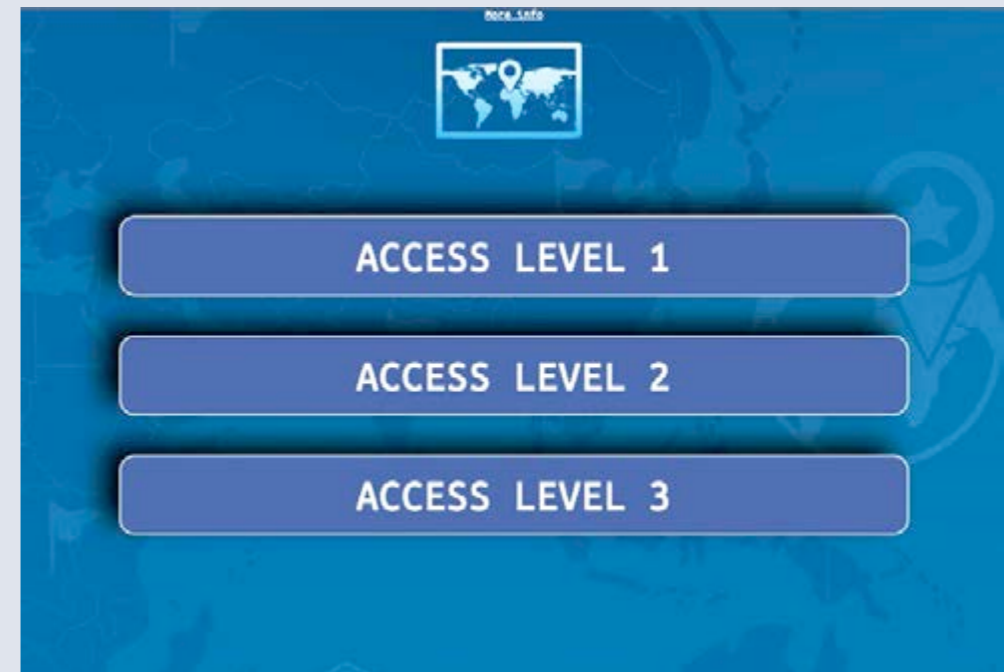
Building the pipeline

Curriculum

- Foundational knowledge in server, network and application security disciplines (more than just pen testing)
- Programming and coding
- Allow for focus areas in mobile security, perimeter security, forensics, malware, etc.
- Encourage cross study in security law, communications, and ethics
- And encourage time spent outside of the classroom (real world experience)

Building the pipeline

Real World Experiences



Building the pipeline

Partnership and Giving back



Wrapping up



Q&A

