

OWASP October 2019

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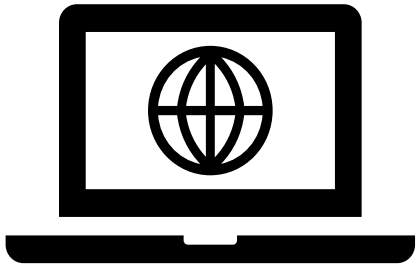
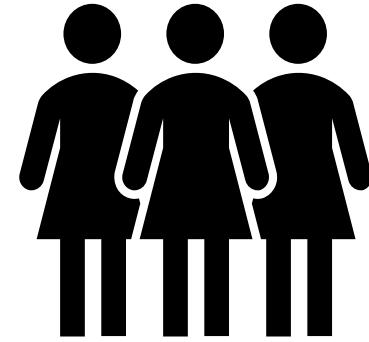
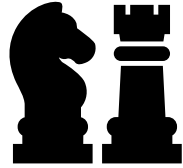
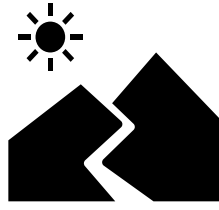
# The Softer Side of Security





# About Allison Professionally

- <http://Linkedin.com/in/Allison-Shubert-msia-cissp-csslp-b47a403>
- Over 19 years in IT
  - J2EE development
  - .net development
- Over 12 years in Information security
  - Focus on application security
  - Security architecture
  - Risk management
- CISSP and CSSLP certified
  - SME for ISC2 for Both the CISSP and CSSLP (I help write exam questions and determine the cut scores for passing the exams).
- Serve on the paper review selection committee for appsecEU and appsec Global (last 3 years)



# Agenda

- Hard/Soft Skills
- Big picture thinking
  - Strategy
  - Roadmaps
- Communication
  - Planning
- Collaboration

# Hard Skills



- Certifications
  - CEH
  - CISSP
  - CSSLP
  - GCIH
  - CISA.....
- OWASP top 10
- Threat Modelling
- Encryption/PKI
- SAML
- IDAM
- SIEM
- J2EE, .net, python,Git.....



# Big Picture Thinking

- Not a technical skill
- Partially Based on experience
- Partially dependent on your temperament (you need to be open minded)
  - Can't get bogged down in the weeds, but the weeds should influence the strategy
- Think about what the current strengths and weaknesses of the appsec program are today, including tools and people
  - Develop your vision
    - Ask yourself what works and what doesn't
    - Ask yourself what would you change and why
    - Map out how you would change it

SWOT

S

Strengths

W

Weaknesses

O

Opportunities

T

Threats



# Strengths

- What is it that the Software Security Group does well?
  - Do you automate well
  - Do you have good application coverage
  - Does your testing methodology produce good results
  - Are you able to provide security requirements repeatably
  - Do you have skilled and knowledgeable staff
  - Does the group hold any patents



# Weaknesses

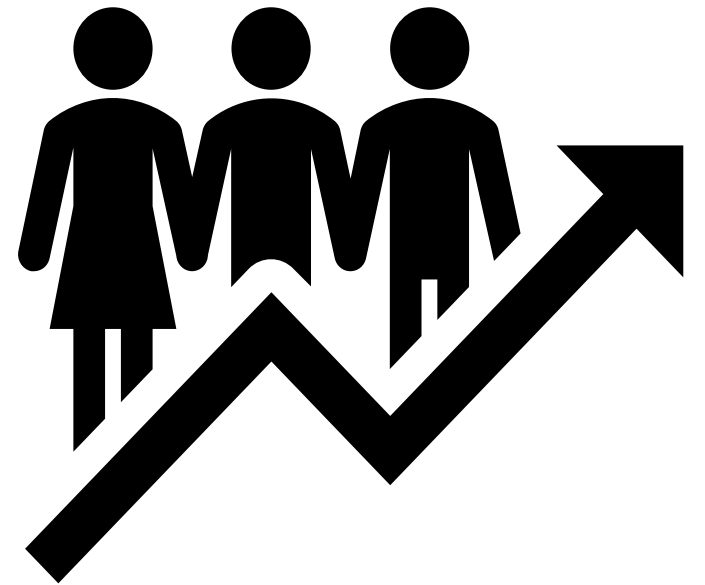
- What does the Software Security Group do poorly
  - Are processes documented or followed and repeatable
  - Do you have resource limitations
  - Are you reporting to many false positives
  - Are your metrics accurate
  - Do you have adequate budget





# Opportunities

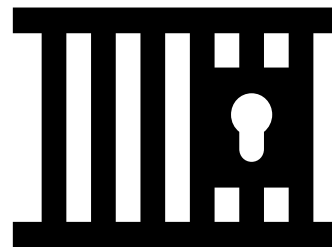
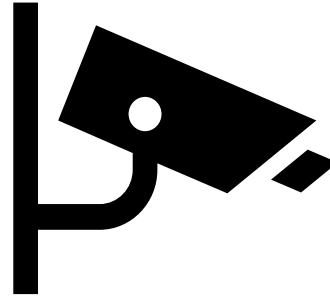
- What are the intangible opportunities that will impact the Software Security Group
  - Is there a new CISO/CIO/CTO who has a new found support for the security organization
  - Will there be a increase in budget
  - Increase in headcount
  - New training budget



# Threats

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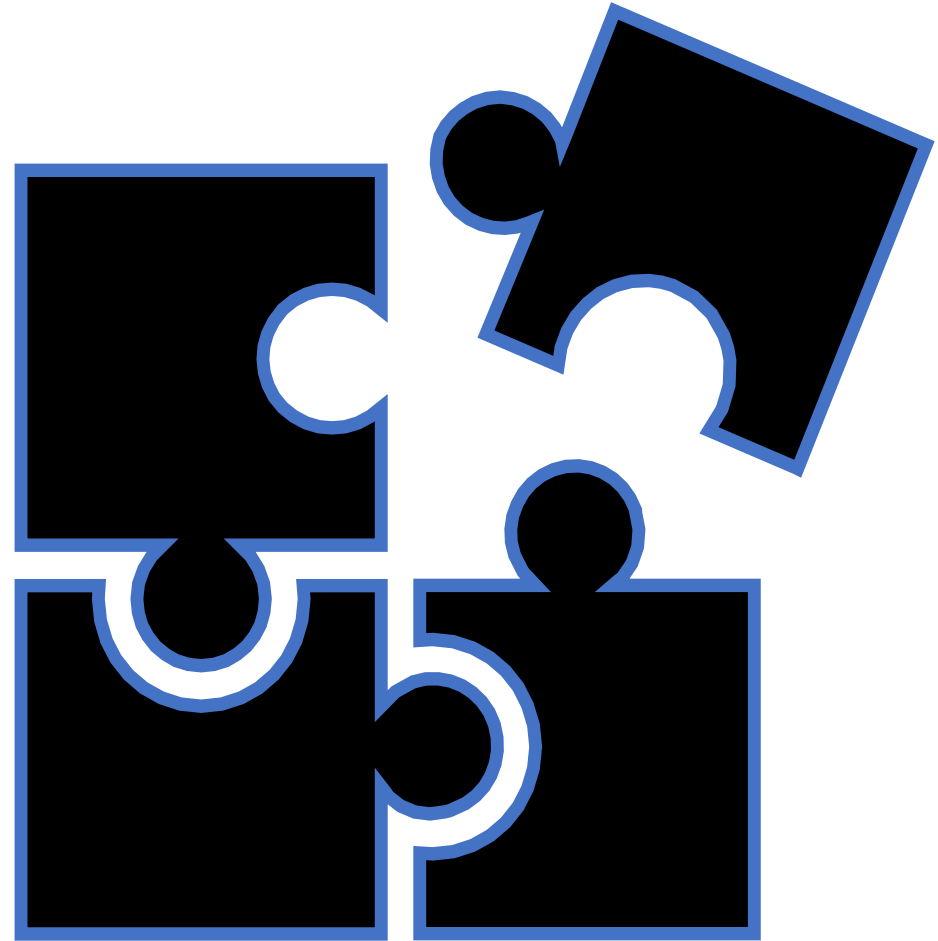
- What Challenges will the Software Security Group encounter in the next several years?
  - Is there impending legislation/regulations that will hamper/impede/change the direction of the software security group
  - Has there been a recent SIRT that impacts the software security group



Putting It  
Altogether.....

Creating a Vision,  
Strategy, and  
Roadmap

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# Example SWOT

## Strengths

- Documented repeatable process
- Skilled talented employees in the software security group

## Weaknesses

- Resource limitations
- Slow response
- False positives
- Late involvement

## Opportunities

- Increased budget
- Regulatory requirements for software security

## Threats

- Employee turnover is high



# Vision

- Organically create a culture of security by building security into our products by default

# Strategy



Tools, Technology, and Automation



People



Governance, Metrics, and Standards



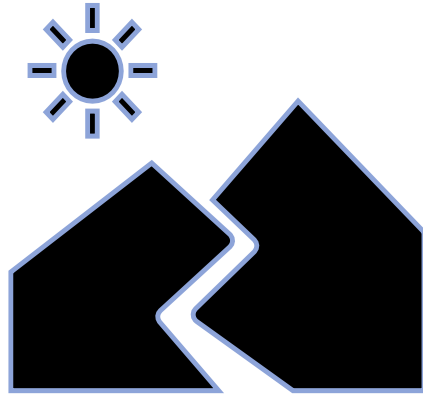
Training and Awareness



Process

# Roadmaps...

- Outlines several years activities
- Align to your vision and strategy
- Complement the SWOT analysis



# Roadmap

	Year 1	Year 2	Year 3
Governance	<ul style="list-style-type: none"><li>Establish mandatory training requirements and dates by which training must complete</li></ul>	<ul style="list-style-type: none"><li>Measure completion rate against required date</li><li>Mature Metrics</li></ul>	<ul style="list-style-type: none"><li>Measure completion rate against required date</li><li>Mature Metrics</li></ul>
Training and Awareness	<ul style="list-style-type: none"><li>Establish a training curriculum (all roles in the SSDLC)</li><li>Roll out training</li></ul>	<ul style="list-style-type: none"><li>Review and update curriculum</li><li>Update required classes</li></ul>	<ul style="list-style-type: none"><li>Review and update curriculum</li><li>Update required classes</li></ul>
Process	<ul style="list-style-type: none"><li>Create security User Stories</li><li>Introduce security into the code reviews</li></ul>	<ul style="list-style-type: none"><li>Introduce Threat Modelling</li></ul>	<ul style="list-style-type: none"><li>Conduct a BSIMM (Building Security In Maturity Model) to measure progress and inform the strategy and roadmap for the next three years.</li></ul>
Tools,	<ul style="list-style-type: none"><li>Deploy and engineer SAST solution</li></ul>	<ul style="list-style-type: none"><li>Engineer an integrate SCA into CI/CD pipeline</li></ul>	<ul style="list-style-type: none"><li>RASP (Runtime Application Self Protection)</li></ul>
People	<ul style="list-style-type: none"><li>Hire engineers to implement tools and engineer Integrations</li></ul>	<ul style="list-style-type: none"><li>Cross train staff</li></ul>	<ul style="list-style-type: none"><li>Cross Train Staff</li></ul>



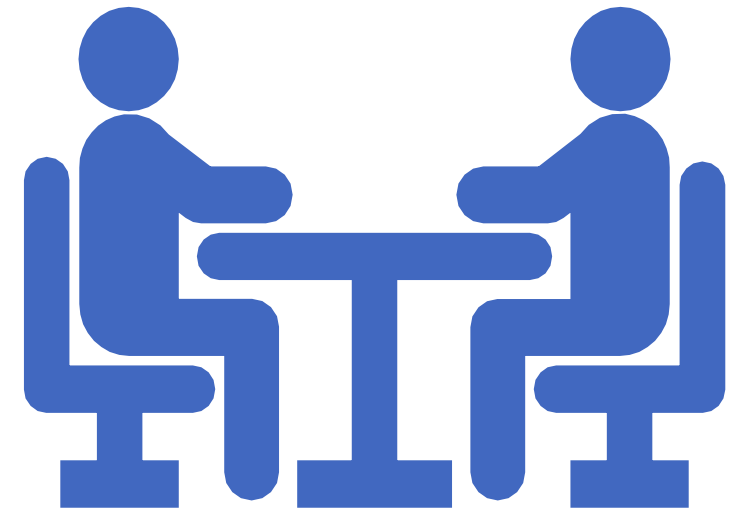
# Collaboration

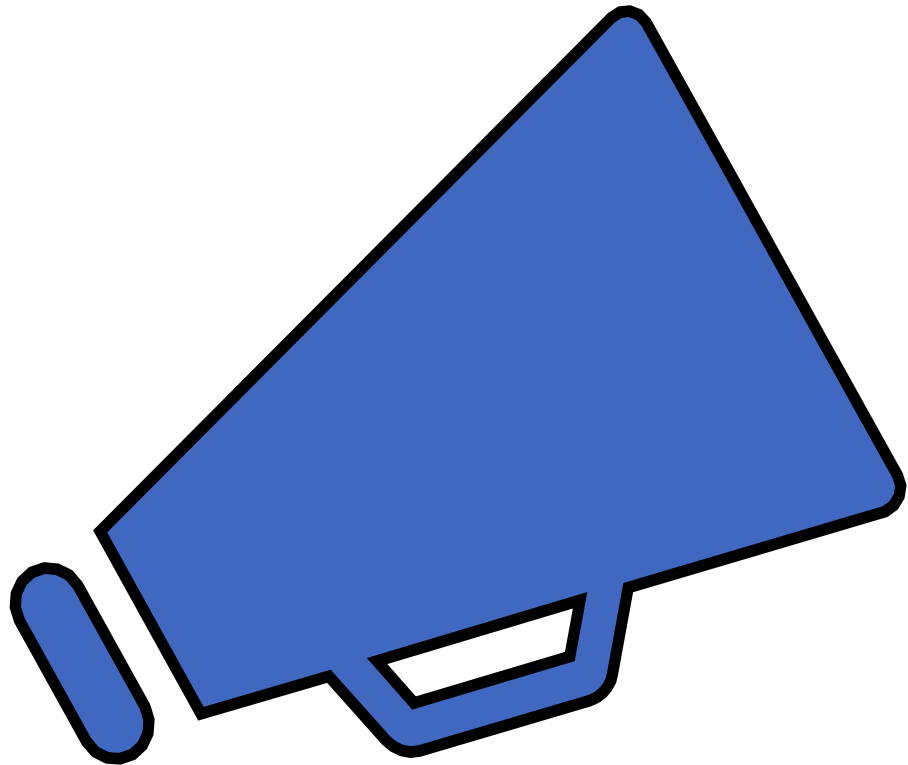
- Arguably the most important
- We are dependent on others to get our jobs done
  - Requires buy in from others
  - Folks who won't collaborate or compromise or always say No
    - Negative Nancy
- Lead by Example



# Collaboration

- A little Psychology goes a long way
  - Buy in
    - work with your business partners to understand their goals and objectives.
    - Help them understand yours
    - Point out where you both can help each other
    - Ultimately people will be more willing to help if they feel they have been consulted and their feedback included
  - The person who always says no
    - If you still keep getting “no, go away”, then try to empathize with the person. We all have a boss and priorities
      - “Please help, my boss will string me up by my toenails if I don’t get this done” They know what you mean and how you feel.
      - Don’t shoot the messenger
      - Explain how this can be a win win situation. Explain how they can include this as a feather in their cap
      - If all else fails bake them some cookies 😊





# Communication

- Not the same as collaboration
- Great so you have buy in, but now what?
- Communicate, communicate, communicate
  - There is nothing worse than just dropping a new standard, policy, process on the internal website
  - Announce new major initiatives on company communication channels
  - Establish a communications plan

# Communications Plan

- Define your process
  - Who has to approve any communications
  - Define what communication mediums you will use (email, collaboration channels, meetings/trainings, video, etc.)
    - Define your target audience
    - Define what you want to tell them (i.e. what is the problem)
    - Define why you are doing this
    - Define what actions, if any they will need to take
    - Define when it will happen



Questions?