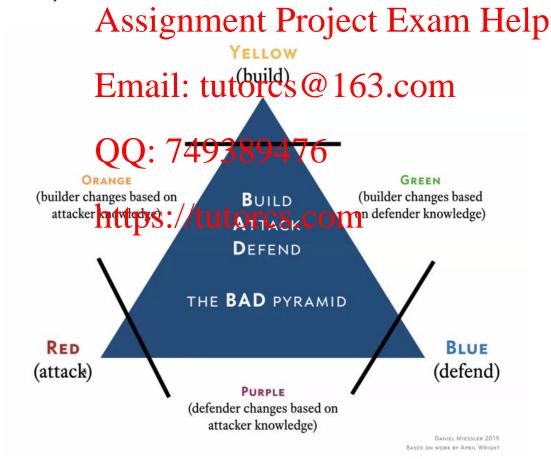
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Security Engineering Masterclass

Blue/Red Team

- A red team do
- Red team: inte to testing the effectiveness of a security program, emu possible.
 - Testing properly.
- Blue team: Responsible for defending an organization's use of IS by continuously maintaining its security posture against the red team.
- Purple team: Notice that the part but where the part blue team interact as a team to integrate defensive tactics and controls from the blue team, with the threats and vulns found by the red team.



Yellow is almost the entire business. Anything that creates software/products etc. blue team is the SOC. Red team can be any team. Orange is reactive and green is proactive

Red Team vs Pen Testing:

- Red team has a granular focus. Specific attacks for an end goal.
- Pen testing is a much broader approach, trying to find any vulnerabilities.

Methodology:

- Scope:
 - Where of your coeks 1/2 What process and procedures do we want
 - Rules of engagement: what attacks can be carried out.
 - solutely not touch. E.g. payroll, AD
- Reconnaissan
- Planning and ri
 - ant to accomplish?
- Launching the
 - If it fails, what's the workaround? (This is why we plan)
- Documentation and reporting
 - Document the types and kinds of cyberattroked hat were launched and their impacts. Financial liability? Data loss?
 - Discovery of vulns
 - If you deviated from a real attack a Pulate this ct Exam Help

Attack Emulations:

- Red teams should work based on their selected motive:
 Organized Dina: 11: tutores @ 163.com
 - More traditional threat vectors
 - Get tangible assets (usually to sell). Typically financial accounts.
 - Username/password leak sa ke/method.
 - Cyber espionage:
 - Don't want financial assets but rather information and learning more about
 - the trocesses tutores.co Attacks are slower, and very patient.
 - Cyber terrorism:
 - As much physical destruction as possible.
 - Includes, oil/gas, electricity, nuclear, plants, and water.
 - Red team would attack Industrial services.
 - Cyber activism:
 - Typically want to cause reputation damage

Outcome Benefits:

- Responses to attacks can be validated
- Create a security risk classification scheme
- Security weaknesses will be exposed and revealed.
- Maximising Security technology ROI.

Red team Plan

- Game master: Team lead that coordinates between attackers and defenders.
- Managing Panic: Panic can be useful and devastating.
- **Gamification:** Similar to CTFs, gamification prevents attacks from lasting months.
- Red Team Cheating (Fourth Wall Sabotage):
 - Allowed for time constraints
 - Come in the form of hints for us.

- Tips:
 - Position and alignment by
 - Keep a realistic effort for the given prep window.
 - eadership should be the only ones in the know.
 - crisis go to waste. What could have prevented the pected to do.
- What not to
 - ner organization
- Define the stakeholders: Who has the most to lose?

 - Set up we cation at: CSTUTOTCS
 Is the organization a willing participant? If not, how am I going to sell it to get them in.
- Are the Andings so predictable that Project Exam Help
- Planning (Weeks/Menths): Planning the overall execution filling in the gaps of this document.
- Attack (Minutes/Weeks): Datacrding of taddern an earlier cleation of the intident.
- Response (Hours/Weeks): If the incident is discovered, the length of the immediate response.
- Tabletop (Days / Weeks): If the incident is not discovered, the length of the forced response or tabletop.
- Incident Response (Short Term) (Days / Weeks The three move red team access, plug any discovered vulnerability, elimination of the adversary.
- Red Team Reveal (Hours): Displaying the Red Team's actions to calibrate on IR realities.
- Incident Response (Post Mortem) (Hours / Days): Organization of the lessons learned and wide
- Long Term Mitigation (Weeks Months): Completion of harder lessons learned, refactoring, and growth before you consider the next red team.
 - Strategy:
 - Should the red team be expected?
 - Will there be an attack window?
 - Will there be cheating?
 - When do we call off the red team.
 - Read team reveal:
 - Did the blue team understand what the red team was doing?
 - How good was IR?
 - How thorough was blue team investigation and containment.