



**WESTERN ACADEMY**  
SUPPORT & TRAINING CENTER

# Faculty Development Week Cabrillo College 2019

Cyber Competitions

<https://github.com/infosecirvin/wastc>

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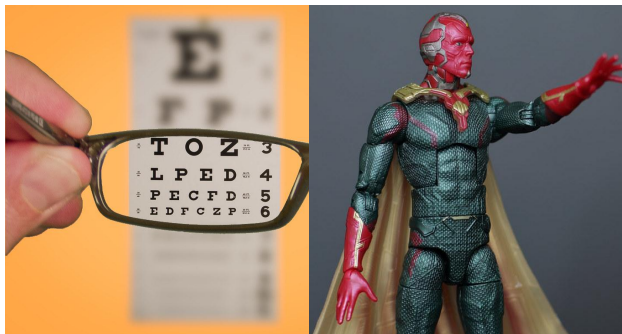


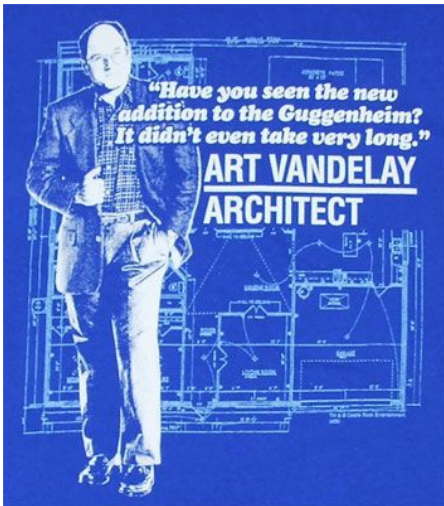
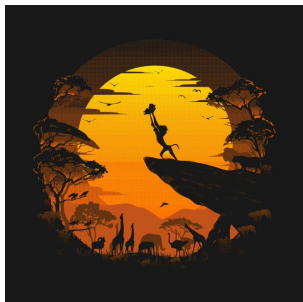


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# The Circle of Life: Vision

- What do you want to test students on?
  - Cryptography, Password Cracking, Bash Commands
- What should students learn by the end of the contest?
  - Subnetting, Interview skills, Web App Vulnerabilities, Metasploit
- Is there something/list of skills you want to showcase?
  - Industry wants: Soft Skills, GCP/AWS, Autopsy, Wireshark
  - You have: Security+ ready candidates

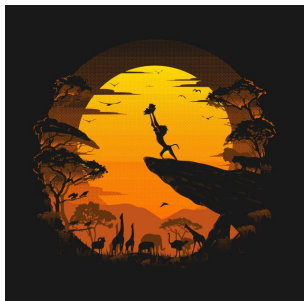




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# The Circle of Life: Architecture

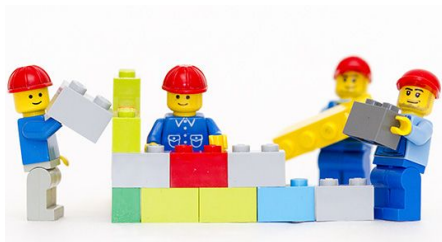
- With the Vision in mind, what will the contest look from a technical standpoint?
  - # of VMs
  - Network Configuration
  - VM configuration (apps, services, configuration)
  - Challenge Files
  - Types of Questions (Multiple Choice, T/F, Fill in, finding flags)
  - Estimated Time for Contest

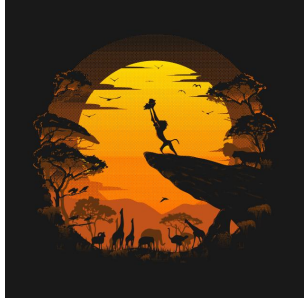


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# The Circle of Life: Build

- Create what was designed
  - Use ESXi as a staging ground
    - Snapshots, collaboration, testing

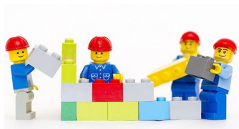
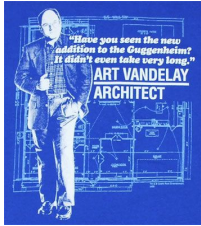
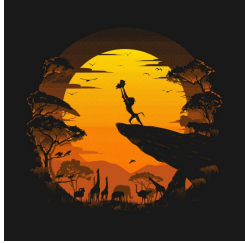




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# The Circle of Life: Launch

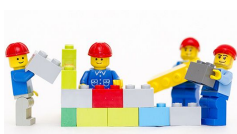
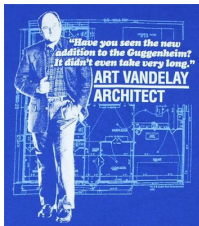
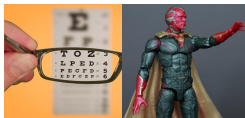
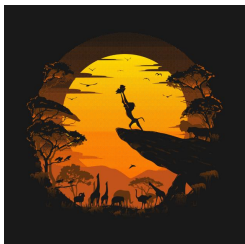
- Staffing:
    - Administration Team, Support Staff, Volunteers, Local industry
  - Simplified Agenda
    - Welcome, Instructions
    - Competition Start & End time
      - If it's longer than three hours, food?
    - Awards/Dismissal
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## Two Examples



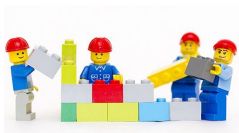
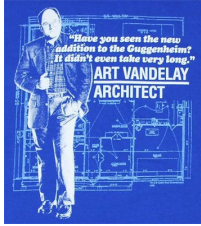
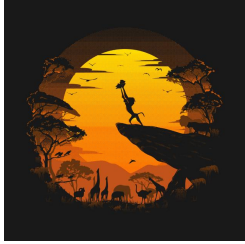


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# Creating the Platform: CTFd







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# Today's Work: Building a contest to take home

- A. What goal/content/objective do we want the contest to meet?
- B. What architecture will help us meet the goal?
- C. What will the agenda look like?



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