



Panther Prowl

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PROBLEM

- Participant need to understand the scope of the comptia A+ exam and have basic knowledge of linux.
- Need to have a basic understand of window command line interface to access the remote aws machine.

SYSTEM DESIGN

- **Platform:** A Virtual Machine pre-configured with challenges.
- **Environment:** Scenarios replicating real-world cybersecurity problems.
- **User Interaction:** Students interact with challenges using tools like command-line interfaces, and scripts.

CONTRIBUTION

- Find the topic and command that will be use in the CTF.
- Create the scenario for the capture the flag.
- Created the challenge for the capture the flag bash script or beginner CTF.
- Document the challenge template and solution

CURRENT SYSTEM

The existing product focuses on theoretical knowledge via exposure to practical applications, such as command-line interface proficiency, programming, and network security. There will always be room for expansion and further development into a more robust product that can be implemented at a university-wide scale.

OBJECT DESIGN

- **Linux Command-Line Challenges:** Tasks requiring students to navigate and execute commands.
- **Programming Modules:** Script-writing examples and demonstration in Python and Bash.

REQUIREMENTS

- Hardware:
- Windows or linux
 - Enable virtualization in BIOS settings
- Software:
- VirtualBox
 - VMWare
 - Any other Hypervisor for virtualization

IMPLEMENTATION

Participant need to use the cat command or the ./ command to read the simple Bash script that includes a text file with the challenge content and checks for the appropriate commands to access it.

SUMMARY

The Beginner Capture the Flag, was designed specifically to help students preparing for the CompTIA A+ exam, improving their problem-solving skills and enhancing their understanding of the material. After testing for accuracy and usability, the system was deployed to users, providing valuable practical experience to enhance both their technical skills and certification readiness.

CHALLENGE TEMPLATE PAGE



ACKNOWLEDGEMENT

