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- Show Name: CEHv12 (312-50)
- Topic Name: Web Application Hacking - Hacking Web Servers
- Episode Name: Web Server Basic Concepts

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## Web Server Basic Concepts

### Objectives:

- Define what a web server is and its function
- List the components of a web server
- List and define common security vulnerabilities found in web servers
- List and explain common security controls, tools, and strategies used to combat attacks against web servers

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- Web Server basics
    - HTTP Server software
      - Apache
        - <https://apache.org>
      - NGINX
        - <https://www.nginx.com>
      - IIS
        - <https://www.iis.net>
    - HTTP Server Components
      - Document Root
        - Where is your `index.html`?
      - Server Root
        - Where is your server configs, logs, cgi-bin,
      - Virtual Document Tree
        - Remote/Other Disk storage of web content
      - Virtual Host
        - Using multiple names for the same site
      - Web Proxy
        - Proxy that should be used
  - What makes web servers vulnerable?
    - Lacking OS updates/patches
    - Using defaults
    - Poor/No Authentication
    - OS/HTTP\_Server/Website/Permissions misconfiguration
    - Software vulns
      - They are running web apps
        - Those apps could also have security issues
  - Countermeasures?
    - DMZs / Network segmentation and firewalling
    - WAFs
    - Patches and updates
    - Change defaults
    - File permissions
    - Secure coding

- Filtering of user input and acceptable file types
- Disable directory listing
- Use encryption
- Honeypot the site
- Disable errors
- Be vague with responses