Threats to Server Security

Server security is as important as network security because servers often hold a great deal of an organization's vital information. If a server is compromised, all of its contents may become available for the cracker to steal or manipulate at will.

- Unused Services and Open Ports
- Unpatched Services
- Inattentive Administration
- Inherently Insecure Services

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Technical Controls

Technical controls use technology as a basis for controlling the access and usage of sensitive data throughout a physical structure and over a network. Technical controls are far-reaching in scope and and encompass such technologies as:

- Encryption
- · Smart cards
- Network authentication
- Access control lists (ACLs)
- · File integrity auditing software

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Administrative Controls

Administrative controls define the human factors of security. They involve all levels of personnel within an organization and determine which users have access to what resources and information by such means as:

- · Training and awareness
- Disaster preparedness and recovery plans
- · Personnel recruitment and separation strategies
- · Personnel registration and accounting

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Background and Motivation

- the Internet Protocol (IP) was not designed to be secure in itself
- OS loopholes COMPUTER/MOBILE
- Database
- Cloud SECURITY-IAAS, PAAS, SAAS

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Threats to Network Security

Insecure Architectures

A misconfigured network is a primary entry point for unauthorized users. Leaving a trust-based, open local network vulnerable to the highlyinsecure Internet is much like leaving a door ajar in a crime-ridden neighborhood.

- Broadcast Networks
- Centralized Servers

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Linux vulnerabilities and attacks

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1) Vulnerability check module

There are various configuration files such as system configuration file and server configuration files which contains attributes that are critical. This module will check such configuration files and scan for attribute which are important from security perspective. This module check current attribute value with best security value required for that attribute. If current configured value is not a best security value then it will consider it as vulnerability and generates the vulnerability report. Generated report is given to the security module.

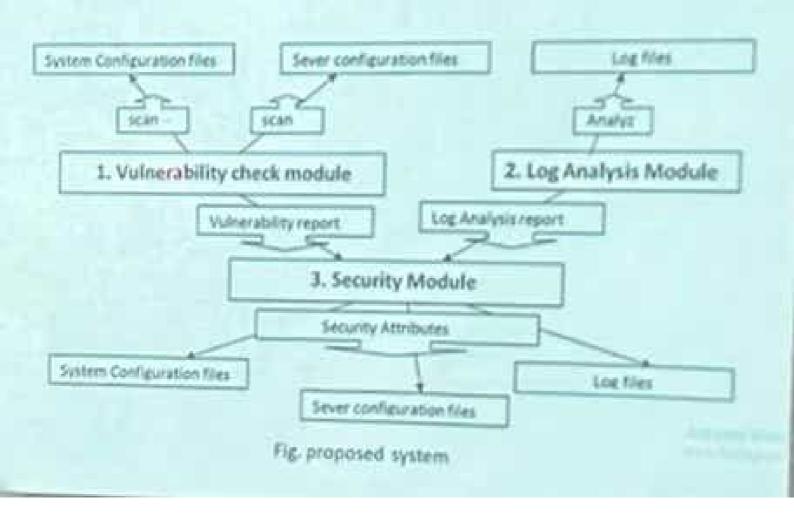
2) Log Analysis Module

Linux system consists of very strong logging mechanism maintains the log for kernel, servers, users, system processes etc. These entire logs by default placed at different location. This module collects the log from these various places and generates report. This generated report is useful for finding the vulnerability. Generated report is given to the security module.

3) Security Module

This module collects the vulnerability report and log analysis report and applies security. By looking vulnerability report this module get the vulnerable configuration files and modify them with best security practice. Similarly by looking log analysis report this module apply the security attributes accordingly. This model is actually responsible for modifying the configuration files and making the Linux more secure.

Proposed System

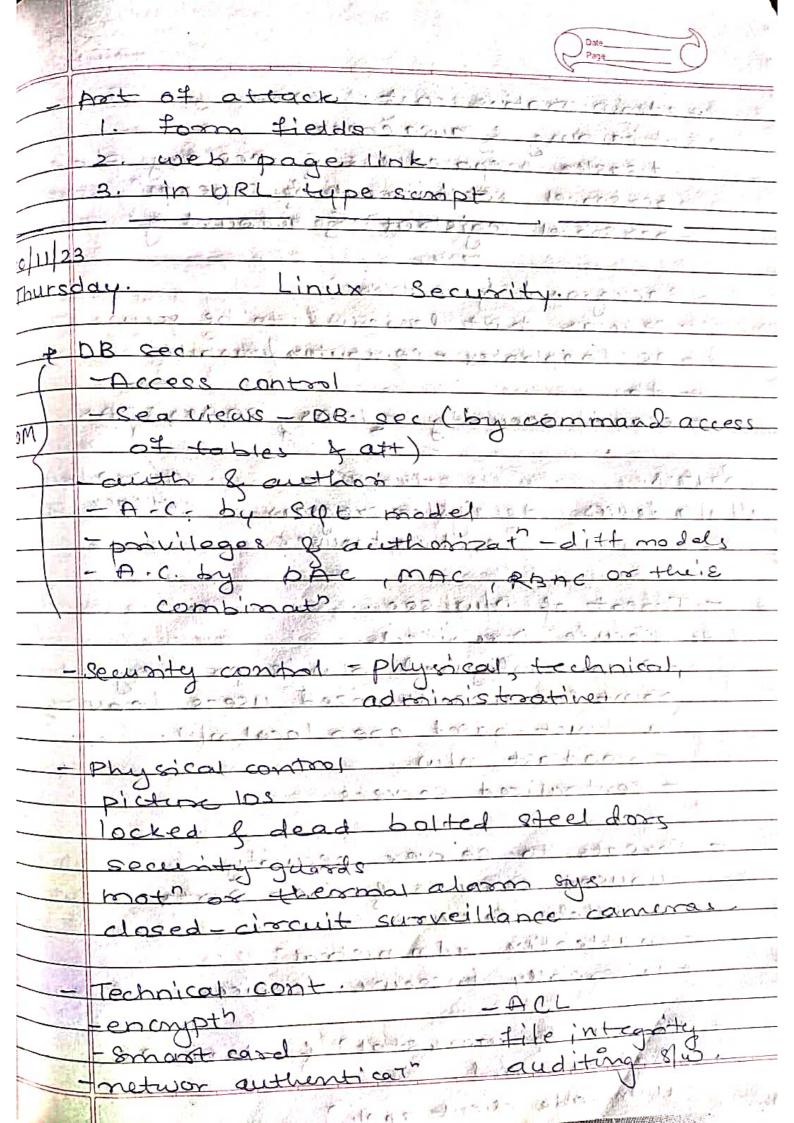


Hardening Linux operating system

Threats to Workstation and Home PC

Workstations and home PCs may not be as prone to attack as networks or servers, but since they often contain sensitive data, such as credit card information, they are targeted by system crackers. Workstations can also be coopted without the user's knowledge and used by attackers as "slave" machines in coordinated attacks.

- Bad Passwords
- Vulnerable Client Applications



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