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15.12 Security Best Practices

As you study this section, answer the following questions:

- What security best practices can be followed to secure data on a disk drive?
- What are the benefits of UEFI/BIOS passwords and bootloader passwords?
- Why is it a good practice to use a message-of-the-day login banner?
- What is multifactor authentication?
- How can a Linux system use public key infrastructure (PKI)?
- What can be done to make the cron and at utilities more secure?
- How can monitoring the common vulnerabilities and exposures (CVE) system assist in making a Linux system more secure?

Key terms for this section include the following:

Term	Definition
Disk encryption	A technique that requires a user to enter a password to access decrypted data from a disk drive.
Bootloader password	A password that prevents attackers from using the bootloader to boot Linux into the insecure single user mode.
Message-of-the-day (MOTD)	A message that's presented when a user first connects to a Linux machine.
Public key infrastructure (PKI)	The hardware, software, and people necessary to support the creation and distribution of digital certificates.
chroot jail	A technique used with the chroot command to remap the root directory to include only certain directories and files.
Common vulnerabilities and exposures (CVE)	A database of publicly known security vulnerabilities maintained by the US government.

This section helps you prepare for the following certification exam objectives:

Exam	Objective
CompTIA Linux+	3.3 Summarize security best practices in a Linux environment.
	 Boot security Boot loader password UEFI/BIOS password Additional authentication methods Multifactor authentication Tokens

- (i) Hardware
- (ii) Software
- OTP
- Biometrics
- RADIUS
- TACACS+
- o LDAP
- Kerberos
 - kinit
 - klist
- Importance of disabling root login via SSH
- Password-less login
 - Enforce use of PKI
- Chroot jail services
- No shared IDs
- Importance of denying hosts
- Separation of OS data from application data
 - Disk partition to maximize system availability
- Change default ports
- Importance of disabling or uninstalling unused and unsecure services
 - o FTP
 - o Telnet
 - Finger
 - o Sendmail
 - o Postfix
- Importance of enabling SSL/TLS
- Importance of enabling auditd
- CVE monitoring
- Discouraging use of USB devices
- Disk encryption
 - LUKS
- Restrict cron access
- Disable Ctrl+Alt+Del
- Add banner
- MOTD

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