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Ethical Hacking and Countermeasures Ethical Hacking Essential Concepts - I	Exam 312-50 Certified Ethical Hacker
Linux File Systems: Filesystem Hi	erarchy Standard (FHS)
The Filesystem Hierarchy Standard (FHS) defines the directory structure and its contents in Linux-and Unix-like operating systems In the FHS, all files and directories are present under the root directory (represented by /)	Table displaying directories and their description specific to the FHS Directory /bin Essential command binaries. Ex cat, is, cp. /box South files of the box basder. Ex Komels, Instel /dev Essential device files. Ex /dev/mail /etc Hook operific system configuration files /boxe Dumn' home directories, helding saved files, personal settings, etc. /bb Essential libraries for the binaries in /bin/and /sony /media /most Temporarily mounted filesystems /post Home directory for the mouser /prox Vehical file systems preventing process and kennel information as files Information about surving processes and kennel information as files Information about surving processes. Ex nursing deemore, currently logged- In users. /Able Contains the binary files required for working /ww Solic openific data for services provided by the systems Temporary files /war Secondary biaractly for mad-only user data /war Variable data. Ex logs, upool files, etc.
	Copyright © by IS-Cosscil. All Rights Reserved. Reproduction: Is Strictly Prohibited.
Linux File Systems: Extended	File System (EXT)
EXT was the first file system for the Linux operating sominix file system It has a maximum partition size of 2 GB and a maxim It removes the two major Minix file system limitation The major limitation of this file system is that it does not data modification time stamps It is replaced by the second extended file system	um file name size of 255 characters as of a 64 MB partition size and short file names
Notes:	
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Linux File Systems: Second Extended File System (EXT2)



- EXT2 is a standard file system that uses improved algorithms, which significantly enhances its speed. It also maintains additional time stamps
- It maintains a special field in the superblock that keeps track of the file system status and identifies it as either clean or dirty
- Its major shortcomings are the risk of file system corruption when writing to EXT2, and that it is not a journaling file system

Physical layout of the EXT2 File system



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Linux File Systems: Third Extended File System (EXT3)



- Ext3 is a journaling version of the EXT2 file system and is commonly used with the Linux operating system
- It is an enhanced version of the EXT2 file system
- It uses file system maintenance utilities (like fsck) for maintenance and repair, like the EXT2 file system
- The following is the command to convert EXT2 to EXT3 file system:
 - # /sbin/tune2fs -j <partition-name>

Ext3 Features

 It provides stronger data integrity for events that occur owing to computer system shutdowns

Data Integrity



Speed

 As the EXT3 file system is journaling the file system, it has higher throughput, in most cases, than EXT2



Easy Transition

The user can easily change the file system from EXT2 to EXT3 and increase the performance of the system



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Notes:			

Appendix A Page 3580

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