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Understanding /etc/shadow file

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Q. Can you explain /etc/shadow file used under Linux or UNIX?

A. /etc/shadow file stores actual password in encrypted format for user's account with additional properties related to user password i.e. it stores secure user account information. All fields are separated by a colon (:) symbol. It contains one entry per line for each user listed in /etc/passwd file [2] Generally, shadow file entry looks as follows (click to enlarge image):



[1]

/etc/shadow file fields



(Fig.01: /etc/shadow file fields)

- 1. User name: It is your login name
- 2. Password: It your encrypted password. The password should be minimum 6-8 characters long including special characters/digits
- 3. Last password change (lastchanged): Days since Jan 1, 1970 that password was last changed
- 4. Minimum: The minimum number of days required between password changes i.e. the number of days left before the user is allowed to change his/her password
- 5. Maximum: The maximum number of days the password is valid (after that user is forced to change his/her password)
- 6. Warn: The number of days before password is to expire that user is warned that his/her password must be changed
- 7. Inactive: The number of days after password expires that account is disabled
- 8. Expire: days since Jan 1, 1970 that account is disabled i.e. an absolute date specifying when the login may no longer be used

The last 6 fields provides password aging and account lockout features (you need to use chage command to setup password aging). According to man page of shadow - the password field must be filled. The encrypted password consists of 13 to 24 characters from the 64 character alphabet a through z, A through Z, 0 through 9, \. and /. Optionally it can start with a "\$" character. This means the encrypted password was generated using another (not DES) algorithm. For example if it starts with "1" it means the MD5-based algorithm was used.

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- [2] /etc/passwd file: http://www.cyberciti.biz/fag/fags/2006/02/understanding-etcpasswd-file-format.php
- [3] Image: http://www.cyberciti.biz/faqs/uploaded_images/shadow-file-718705.png

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/etc/shadow file fields
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