

# Topic 107: (12) Administrative Tasks

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## Topic 107: (12) Administrative Tasks

- 107.1 (5) Manage user and group accounts and related system files
- 107.2 (4) Automate system administration tasks by scheduling jobs
- 107.3 (3) Localisation and internationalisation

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## 107.1 (5) Manage user and group accounts and related system files

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### Question: 6

By default, the contents of which directory will be copied to a new user's home directory when the account is created by passing the -m option to the useradd command? (Specify the full path to the directory.)

**Answer: /etc/skel**

### Question: 22

Which directory in /etc is used to keep a sample copy of files and directories for when a new user has a home directory created? (Please provide the full path)

**Answer: /etc/skel, /etc/skel/**

### Question: 23

Which of the following configuration files should be modified to set default shell variables for all users?

- A. /etc/bashrc
- B. /etc/profile
- C. ~/.bash\_profile
- D. /etc/.bashrc

**Answer: B**

### Question: 47

Which of the following steps prevents a user from obtaining an interactive login session?

- A. Run the command `chsh -s /bin/false` with the user name.
- B. Set the UID for the user to 0.
- C. Remove the user from the group staff.
- D. Add the user to /etc/noaccess.
- E. Create a .nologin file in the user's home directory.

**Answer: A**

**Question: 49**

Which character in the password field of `/etc/passwd` is used to indicate that the encrypted password is stored in `/etc/shadow`?

- A. \*
- B. -
- C. s
- D. x

**Answer: D**

**Question: 52**

Which command can be used to delete a group from a Linux system?

- A. `groupdel`
- B. `groupmod`
- C. `groups`
- D. `groupedit`

**Answer: A**

**Question: 55**

Which of the following commands can remove a user from a group?

- A. `grouprm`
- B. `groupmod`
- C. `passwd`
- D. `usergroups`
- E. `usermod`

**Answer: E**

**Question: 57**

Which file contains the date of the last change of a user's password?

- A. /etc/gshadow
- B. /etc/passwd
- C. /etc/pwdlog
- D. /etc/shadow
- E. /var/log/shadow

**Answer: D**

**Question: 62**

Which of the following files assigns a user to its primary group?

- A. /etc/pgroup
- B. /etc/shadow
- C. /etc/group
- D. /etc/passwd
- E. /etc/gshadow

**Answer: D**

**Question: 65**

Which commands can be used to change a user's account aging information? (Choose THREE correct answers.)

- A . usermod
- B . passwd
- C. chattr
- D. chage
- E. chsh

**Answer: A, B, D**

### Question: 66

Which command is used to add an empty group to the system? (Specify ONLY the command without any path or parameters.)

**Answer: groupadd, /usr/sbin/groupadd**

### Question: 69

What is true regarding the command `userdel --force --remove bob`? (Choose TWO correct answers.)

- A. The user bob is removed from the system's user database.
- B. The user bob's home directory is removed.
- C. The locate database is updated to drop files owned by bob.
- D. All files owned by bob are remove from all mounted filesystems.
- E. In case bob was the last member of a group, that group is deleted.

**Answer: A, B**

### Question: 70

Which of the following fields can be found in the `/etc/group` file? (Choose THREE correct answers.)

- A. The list of users that belong to the group.
- B. The home directory of the group.
- C. The name of the group.
- D. The description of the group.
- E. The password of the group.

**Answer: A, C, E**

### Question: 71

On a system using shadowed passwords, the most correct permissions for `/etc/passwd` are \_\_\_\_ and the most correct permissions for `/etc/shadow` are \_\_\_\_\_.

- A . -r w -r -----, -r -----

B . -r w -r --r --, -r --r --r --

C . -r w -r --r --, -r -----

D. -rw-r--rw-, -r-----r--

E . -r w -----, -r -----

**Answer: C**

### **Question: 73**

Which of the following can the chage command NOT change?

- A. The number of days since January 1, 1970 after which the user's account will no longer be accessible.
- B. The number of days since January 1, 1970 after which the password can change.
- C. The number of days since January 1, 1970 since the password was last changed.
- D. The maximum number of days during which a password is valid.
- E. The number of days of inactivity after a password has expired before the account is locked.

**Answer: B**

### **Question: 74**

What command will display the group names and GIDs to which a user belongs? (Provide only the command name with or without path information)

**Answer: id, /usr/bin/id**

### **Question: 75**

Of the ways listed, which is the best method to temporarily suspend a user's ability to interactively login ?

- A. Use passwd -d username to give the user an empty password.
- B. Use chage to expire the user account.
- C. Change the user's password.
- D. Add the command exit to the user's .login file.

**Answer: B**

**Question: 76**

What is the conventional purpose of Linux UIDs that are lower than 100?

- A. They are reserved for super user accounts.
- B. They are reserved for the system admin accounts.
- C. They are reserved for system accounts.
- D. They are unused, aside from 0, because they are targets of exploits.
- E. They are used to match with GIDs in grouping users.

**Answer: C**

**Question: 80**

The \_\_\_\_\_ command is used to add a group to the system.

**Answer: groupadd, /usr/sbin/groupadd**

**Question: 84**

Which commands can you use to change a user's account aging information? (Choose THREE correct answers.)

- A . usermod
- B . passwd
- C. chattr
- D. chage
- E. chsh

**Answer: A, B, D**

**Question: 85**

Why is /etc/shadow not world readable if the passwords are stored in an encrypted fashion?

- A. The encrypted passwords are still subject to brute force attacks.
- B. This is just for historical reasons.
- C. There is other information in the file that needs to be kept secret.
- D. The passwords can be decrypted by anyone with root access.

**Answer: A**

### **Question: 86**

Of the ways listed, which is the best way to temporarily suspend a single user's ability to interactively login ?

- A. Add the user name to /etc/nologin.
- B. Change the user's password.
- C. Change the user name in /etc/passwd.
- D. Use change to expire the user account.
- E. Place the command logout in the user's profile.

**Answer: D**

### **Question: 170**

Which of the following statements is true if the UID of a regular user is identical to the GID of a group?

- A. UID have precedence over GIDs, therefore the user is available while the group doesn't.
- B. The user as well as the group are not available to avoid ambiguity due to the ID conflict.
- C. UIDs and GIDs are independent of each other, therefore the user as well as the group are still available.
- D. The user is the only member of the group, even if the group configuration contains other members.
- E. GIDs have precedence over UIDs, therefore the group is available while the user isn't.

**Answer: C**

### **Question: 171**

Which of the following information is stored in /etc/shadow for each user?

- A. The timestamp of the user's last login



- B. The user's private SSH keys
- C. The hashed password of the user
- D. The numerical user ID (UID)
- E. The path to the user's home directory

**Answer: C**

### **Question: 175**

What can be specified with useradd? (Choose two.)

- A. Commands the user can run using sudo.
- B. The absolute path to the user's home directory.
- C. Which printers are available for the new user.
- D. The SSH keys used to login to the new account.
- E. The numeric user ID (UID) of the user.

**Answer: B,E**

### **Question: 186**

Which of the following commands displays all environment and shell variables?

- A. getargs
- B. lsenv
- C . ls
- D. env
- E . lsshe l l

**Answer: D**



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## 107.2 (4) Automate system administration tasks by scheduling jobs

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### Question: 48

Which file specifies the user accounts that can NOT submit jobs via at or batch? (Provide the full path and filename)

**Answer: /etc/at.deny**

### Question: 51

Which of the following fields are available in both the global /etc/crontab file as well as in user-specific crontab files? (Select TWO correct answers)

- A. Year
- B. Minute
- C. Username
- D. Command

**Answer: B, D**

### Question: 54

In case neither cron.allow nor cron.deny exist in /etc/, which of the following is true?

- A. Without additional configuration, no users may have user specific crontabs.
- B. Without additional configuration, all users may have user specific crontabs.
- C. The cron daemon will refuse to start and report missing files in the system's logfile.
- D. When a user creates a user specific crontab the system administrator must approve it explicitly.

**Answer: A**

**Question: 56**

Where are user specific crontabs stored?

- A. In the database file /etc/crontab.db which is shared by all users.
- B. As individual per-user files within /var/spool/cron.
- C. As individual per-user files in /etc/cron.user.d.
- D. In the .crontab file in the user's home directory.
- E. In the file /var/cron/user-crontab which is shared by all users.

**Answer: B**

**Question: 59**

Each entry in a crontab must end with what character?

- A. Tab
- B. Space
- C. Backslash
- D. Newline

**Answer: D**

**Question: 60**

To prevent a specific user from scheduling tasks with at, what should the administrator do?

- A. Add the specific user to /etc/at.allow file.
- B. Add the specific user to [deny] section in the /etc/atd.conf file.
- C. Add the specific user to /etc/at.deny file.
- D. Add the specific user to nojobs group.
- E. Run the following: atd --deny [user].

**Answer: C**

**Question: 61**

Which of the following crontab entries will execute myscript at 30 minutes past every hour on Sundays?

- A. 0 \* \* \* 30 myscript
- B. 30 \* \* \* 6 myscript
- C. 30 0 \* \* 0 myscript
- D. 30 0-23 \* \* 0 myscript
- E. 0 0-23 \* \* 30 myscript

**Answer: D**

### **Question: 64**

In which file, if present, must all users be listed that are allowed to use the cron scheduling system?

(Specify the full name of the file, including path.)

**Answer: /etc/cron.allow**

### **Question: 77**

How is the file format of /etc/crontab different from a normal crontab file? (Select TWO correct answers)

- A. The /etc/crontab file can specify a year field.
- B. A normal crontab file must be installed with the crontab command.
- C. A normal crontab file allows for environment variable substitution.
- D. The /etc/crontab file has a user field for commands.

**Answer: B, D**

### **Question: 78**

What is the main difference between the batch and at commands?

- A. The batch command will run multiple times. The at command will only run once.
- B. The batch command will run when system load is low. The at command runs at a specific time.
- C. The at command reads commands from standard input. The batch command requires a command line argument.
- D. The at command e-mails results to the user. The batch command logs results to syslog.

**Answer: B**

**Question: 79**

The correct crontab entry to execute the script chklog three times per month between 3 p.m. and 5 p. m . :

- A. \* 3,4,5 1 \* \* chklog
- B. 3 3,4,5 1 \* \* chklog
- C. 3 15,16,17 \* \* \* chklog
- D. 0 15,16,17 1 \* \* chklog
- E. \* 15,16,17 1 \* \* chklog

**Answer: D**

**Question: 83**

A user was not given permission to use the CRON scheduling system. What file needs to be modified to provide that access? (Please specify the full path to the file)

**Answer: /etc/cron.allow**

**Question: 87**

Which TWO statements about crontab are true?

- A. Every user may have their own crontab.
- B. Changing a crontab requires a reload/restart of the cron daemon.
- C. The cron daemon reloads crontab files automatically when necessary.
- D. hourly is the same as "0 \* \* \* \*".
- E. A cron daemon must run for each existing crontab.

**Answer: A, C**

**Question: 88**

Which crontab entry could be used to set the system time at regular intervals?

- A. 1 0 \* \* \* date \$d \$t \$24
- B. 1 0 \* \* \* ntpdate ntp1.digex.net
- C. 1 0 \* \* \* date ntp1.digex.net
- D. 1 0 \* \* \* runcron date ntp1.digex.net
- E. 1 0 \* \* \* settime \$d \$t \$24

**Answer: B**

### **Question: 171**

Which file, if present, must contain all users that are allowed to use the cron scheduling system? (Specify the full name of the file, including path.)

**Answer: crontab**

### **Question: 177**

Which of the following fields are available in the standard format of both the global /etc/crontab file as well as in user-specific crontab files? (Choose two.)

- A. Year
- B. Minute
- C . Username
- D. Effective group ID
- E . Command

**Answer: B,D**

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## 107.3 (3) Localisation and internationalisation

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### Question: 50

The system's timezone may be set by linking `/etc/localtime` to an appropriate file in which directory?

(Provide the full path to the directory, without any country information)

**Answer: `/usr/share/zoneinfo/`**

### Question: 53

What is the purpose of the `iconv` command?

- A. It converts bitmap images from one format to another such as PNG to JPEG.
- B. It verifies that the root directory tree complies to all conventions from the Filesystem Hierarchy Standard (FHS).
- C. It displays additional meta information from icon files ending in `.ico`.
- D. It changes the mode of an inode in the ext4 file system.
- E. It converts files from one character encoding to another.

**Answer: E**

### Question: 58

Which environment variable should be set in order to change the time zone for the commands run

from within the environment variable's scope? (Specify the variable name only.)

**Answer: TZ**

### Question: 63

Which of the following commands should be added to `/etc/bash_profile` in order to change the language of messages for an internationalized program to Portuguese (pt)?



- A. export LANGUAGE="pt"
- B. export MESSAGE="pt"
- C. export UI\_MESSAGES="pt"
- D. export LC\_MESSAGES="pt"
- E. export ALL\_MESSAGES="pt"

**Answer: D**

### **Question: 67**

What is NOT contained in the locale setting of the operating system?

- A. currency symbol
- B. language
- C. timezone
- D. thousands separator

**Answer: C**

### **Question: 68**

What is true about the file /etc/localtime?

- A. It is a plain text file containing a string such as Europe/Berlin
- B. It is created and maintained by the NTP service based on the location of the system's IP address.
- C. It is a symlink to /sys/device/clock/ltime and always contains the current local time.
- D. After changing this file, newtzconfig has to be run to make the changes effective.
- E. It is either a symlink to or a copy of a timezone information file such as /usr/share/zoneinfo/Europe/Berlin.

**Answer: E**

### **Question: 72**

A French user has installed the French language pack, but currencies are still being displayed with a leading '\$' sign in his spreadsheets. What must be done to fix this?

- A. Alter the locale.
- B. Set the timezone correctly.
- C. Edit /etc/currency.
- D. Reinstall the French language pack.

**Answer: A**

### **Question: 81**

Which command will set the local machine's timezone to UTC?

- A. cat UTC > /etc/timezone
- B. ln -s /usr/share/zoneinfo/UTC /etc/localtime
- C. date --timezone=UTC
- D. mv /usr/timezone/UTC /etc

**Answer: B**

### **Question: 82**

Which command should be added to /etc/bash\_profile to change the language of messages from an internationalised program to Portuguese (pt)? (Select TWO correct answers)

- A. export LANGUAGE="pt"
- B. export MESSAGE="pt"
- C. export LANG="pt"
- D. export LC\_MESSAGES="pt"
- E. export ALL\_MESSAGES="pt"

**Answer: C, D**

### **Question: 89**

Which of the following commands can be used to convert text files in one character encoding to another character encoding?

- A. cat
- B. convert

C. dd

D. iconv

E. utf2utf

**Answer: D**

**Question: 178**

Which of the following commands should be executed when starting a login shell in order to change the language of messages for an internationalized program to Portuguese (pt)?

A. export LANGUAGE="pt"

B. export LC\_MESSAGES="pt"

C. export UI\_MESSAGES="pt"

D. export MESSAGE="pt"

E. export ALL\_MESSAGES="pt"

**Answer: B**