

# Linux Interview Questions

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## **User and Group Administration**

### **1. What is a user?**

Ans. In Linux user is one who uses the system.

### **2. How many types of users available in Linux?**

Ans. There are 5 types of users available in Linux.

- System user (Admin user who control the whole system nothing but root user).
- Normal user (Created by the Super user. In RHEL - 7 the user id's from 1000 - 60000).
- System user (Created when application or software installed)
- In RHEL - 7 the System users are Static system user id's from 1 - 200 and (ii) Dynamic system user user id's from 201 - 999).
- Network user (Nothing but remote user, ie., who are login to the system through network created)
- Windows Active Directory or in Linux LDAP or NIS).
- Sudo user (The normal users who are having admin or Super user privileges)

### **3. What is user management?**

Ans. User management means managing user. ie., Creating the users, deleting the users and modifying the users.

#### 4. What are the important points related to users?

- Ans. Users and groups are used to control access to files and resources.
- Users can login to the system by supplying username and passwords to the system.
- Every file on the system is owned by a user and associated with a group.
- Every process has an owner and group affiliation.
- Every user in the system is assigned a unique user id (uid) and group id (gid).
- User names and user id are stored in /etc/passwd file.
- User's passwords are stored in /etc/shadow file in an encrypted form.
- Users are assigned a home directory and a shell to work with the O/S.
- Users cannot read, write and execute each other's files without permission.
- Whenever a user is created a mail box is created automatically in /var/spool/mail location.
- And some user environmental files like .bash\_logout, .bash\_profile, .bashrc , ...etc., are also copied from /etc/skel to his/her home directory (/home/<username>).

#### 5. What are fields available in /etc/passwd file?

Ans. <user name> : x : <uid> : <gid> : <comment> :  
<user's home directory> : <login shell (where 'x' means link to password file ie., /etc/shadow file)>

6. **What are fields available in /etc/shadow file?**

Ans. user name : password : last changed : min. days  
: max. days : warn days : inactive days : expiry days :  
reserved for future.

7. **What are the files that are related to user management?**

- **Ans./etc/passwd:** Stores user's information like user name, uid, home directory and shell ...etc.,
- **/etc/shadow:** Stores user's password in encrypted form and other information.
- **/etc/group:** Stores group's information like group name, gid and other information.
- **/etc/gshadow:** Stores group's password in encrypted form.
- **/etc/passwd:** Stores the /etc/passwd file backup copy.
- **/etc/shadow:** Stores the /etc/shadow file backup copy.
- **/etc/default/useradd:** Whenever the user created user's default settings taken from this file.
- **/etc/login.defs:** user's login defaults settings information taken from this file.
- **/etc/skel** —> Stores user's all environmental variables files and these are copied from this directory to user's home directory

8. **In how many ways can we create the users?**

- Ans. **useradd - <options><user name>**

- (ii) **adduser** - <options><user name>
- (iii) **newusers** <file name> (In this file we have to enter the user details same as /etc/passwd file)

9. **What is the syntax of useradd command with full options?**

Ans. useradd -u <uid> -g <gid> -G <secondary group> -c <comment> -d <home directory> -s <shell><user name>

**Example:** useradd -u 600 -g 600 -G java -c "oracle user" -d /home/raju -s /bin/bash raju

10. **What is the syntax of adduser command with full options?**

Ans.adduser -u <uid> -g <gid> -G <secondary group> -c <comment> -d <home directory> -s <shell><user name>

**Example#** adduser -u 700 -g 700 -G linux -c "oracle user" -d /home/ram -s /bin/bash ram.