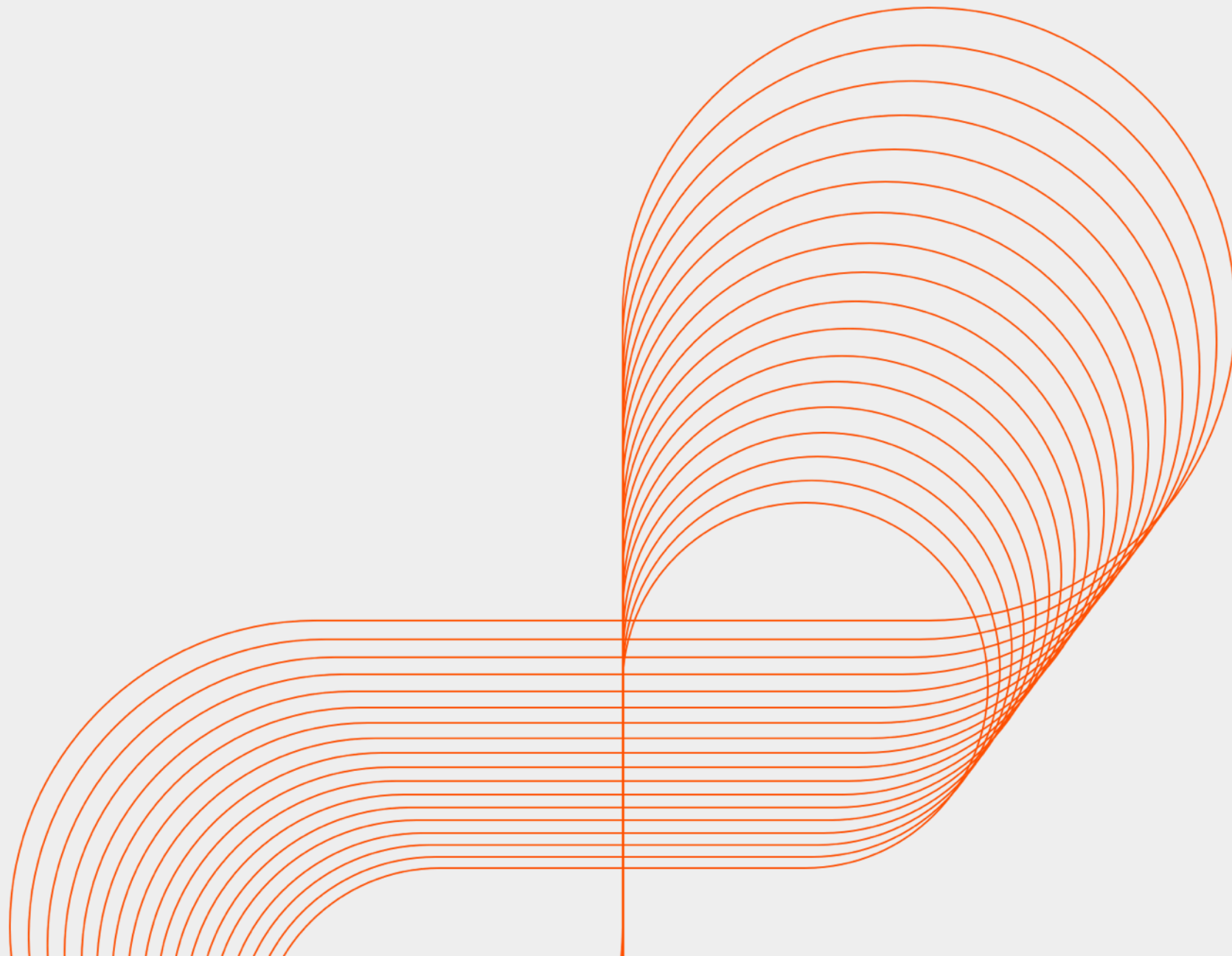




Persistent

UNIX



Accounts & Groups

A decorative orange line graphic that starts as a horizontal line from the left edge, crosses the text, and then turns 90 degrees clockwise into a vertical line. A large orange circle is positioned in the upper right quadrant, with its bottom edge touching the horizontal part of the line and its left edge touching the vertical part of the line.

Account Basics

- A user account provides you with access to the Unix system, either by a shell, an ftp account or other means
- To use the resources that the Unix system provides, you need a valid user account and resource permissions
- There are three primary types of accounts on a Unix system
 - root account
 - system account
 - user account

Account Types

- Root Account
 - The root account's user has complete access to the system
 - The root user(root) can do absolutely anything on the system, without any restriction
- System Accounts
 - These accounts are required for the operation of system-specific components e.g. mail account, sshd account, etc
 - These are generally provided by the OS during installation and assist in the running of services that the users require
- User Accounts
 - These accounts provide interactive access to the system for users and groups of users
 - General users are assigned to these accounts and usually have limited access to critical system files and directories

Users

- Every user of the system is assigned a unique User ID number (the **uid**).
- Users' names and uids are stored in **/etc/passwd**.
- Users are assigned a home directory and a shell.
- Users cannot read, write or execute each other's files without permissions.
- Find out currently logged in users:
 - Users, who, w

Groups

- Group accounts add the capability to assemble other accounts into logical arrangements for simplification of privilege (permission) management.
- Users are assigned to groups with unique group id numbers (the **gid**).
- gids are stored in **/etc/group**.
- To find out what groups you belong to:
 - Groups, id

User Administration Config Files

- There are three main user administration files
 - /etc/passwd – identifies the authorized accounts for the system
 - /etc/shadow – holds the encrypted password of the corresponding account. Was not present on earlier Unix systems
 - /etc/group – Contains information on group accounts
- Not all user accounts have access to all files. Only root user has read/write access to all the files. Other user accounts can view the /etc/passwd and /etc/group file, but not the /etc/shadow file

su & sudo Commands

- Sometimes, you will need to log into another account without logging out of the system
- There are two commands for this purpose – *su*, which is present on all versions of Unix, and *sudo*, that may be not available with all versions
- While using the commands, you might be asked for the password of that account, unless you are the root user
- Running *su* by itself takes you to the root account
- When using *su*, you continue to use your environment variables and profile. If you want to use the account's user environment, put a – between the *su* and the account name: *su – amber*
- *sudo* is used to execute commands as another user

Links for objective multiple choice questions.

- <http://www.sanfoundry.com/linux-command-mcq-1/>
- <http://www.sanfoundry.com/linux-command-mcq-2/>
- <http://www.sanfoundry.com/linux-command-mcq-3/>
- <http://www.indiabix.com/computer-science/unix/>
- <http://www.avatto.com/computer-science/test/mcqs/questions-answers/unix/153/1.html>
- <http://www.gkseries.com/computer-engineering/unix/multiple-choice-questions-and-answers-on-unix-and-shell-programming>
- http://www.withoutbook.com/online_test.php?quiz=38&quesNo=10&subject=Top%2010%20UNIX%20Online%20Practice%20Test%20%7C%20Multiple%20Choice