Show



Understanding File Permissions

There are three user categories: **User** (the owner of the file), **Group** (the security group you are in), and **Other** (for the world to see). Each category has three permissions that can be set: **r**, **w**, and **x** to read, write, and execute a file, respectively. Permissions consist of three numbers: 4 for Read, 2 for Write, and 1 for Execute access. By adding these numbers together, you form the permissions that make up one digit. This table can be used as a quick reference:

	User	Group	Other
Read = 4	х	х	х
Write = 2	х		
Execute = 1	х	х	х
Totals	(4+2+1) = 7	(4 + 1) = 5	(4 + 1) = 5

For example, 4 + 2 + 1 = 7, which grants read, write, and execute permissions; 4 + 1 = 5, which grants only read and execute permissions. Thus, 755 grants 7 (read, write, execute) to the owner of the file, and 5 (read and execute) to the group the file is in and 5 (read and execute) to the world. Each digit corresponds to a set of permissions (read, write, or execute) and the position of the digit corresponds to the user category (left = owner, middle = group, right = other). The single-digit numbers are defined for all three user categories as the following:

0		no access	
1	X	execute only	
2	- W -	write access only	
3	- W X	write and execute	
4	r	read only	
5	r - x	read and execute	
6	r w -	read and write	
7	rwx	read, write and execute (full access)	

Some file permission examples:

- 777 all can read/write/execute (full access).
- 755 owner can read/write/execute, group/others can read/execute.
- 644 owner can read/write, group/others can read only.

Some directory permission examples:

- 777 all can read/write/search.
- 755 owner can read/write/search, others and group can only search.

Common permissions settings:

- 777 directories with proper permissions on files in directory, use this one very carefully
- 755 web store folder, CGI scripts
- 751 log folder
- 701 webalizer and modlogan folders
- 666 data files
- 644 configuration files (files not updated by scripts, html, gif,etc...)

You can change file permissions with the Web Shell File Manager

You can change file permissions with some FTP transfer programs such as WS_FTP.

Warning: You may be tempted to simply use chmod 777 on all the files and directories since that assures the Web server can do anything with the files. However, it is strongly advised that you do not leave the files in this state. It is considered a major security risk to leave your scripts open to changes by the Web server instead of being read-only. We recommend you consult with your programmers to set your file permissions properly.

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