



File Permissions

in Linux

OWNERSHIP

USER



GROUP



OTHER



PERMISSION



Owners assigned Permission On Every File and Directory



User



Read
Write
Execute



Group



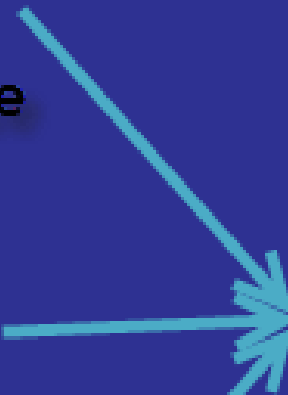
Read
Write
Execute



All



Read
Write
Execute





r = read permission

w = write permission

x = execute permission

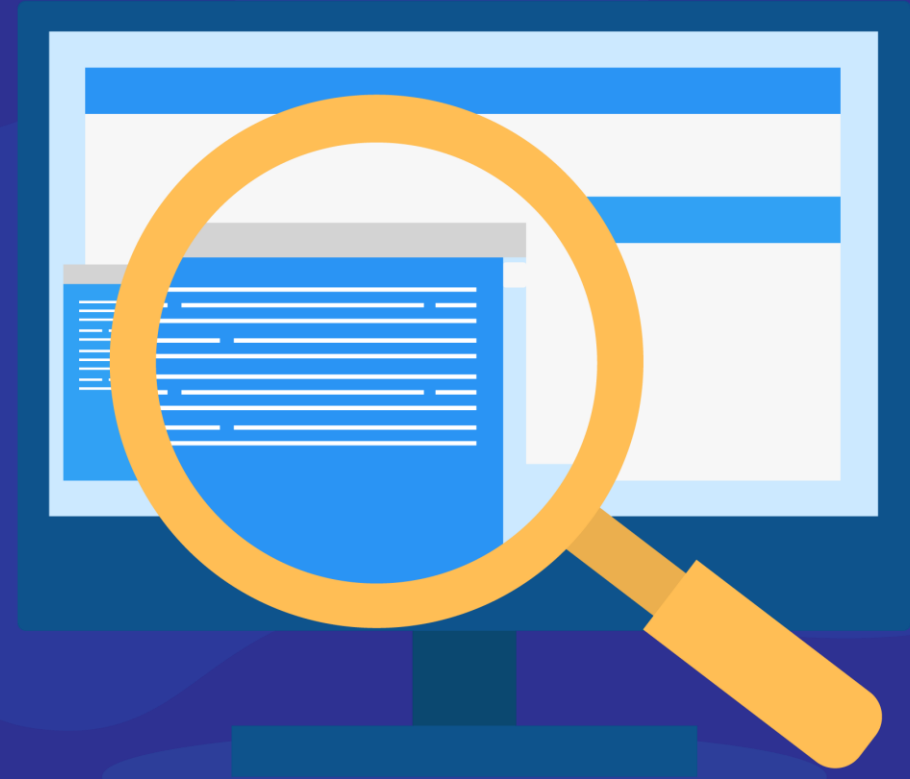
- = no permission

Changing file/directory permissions

with 'chmod' command

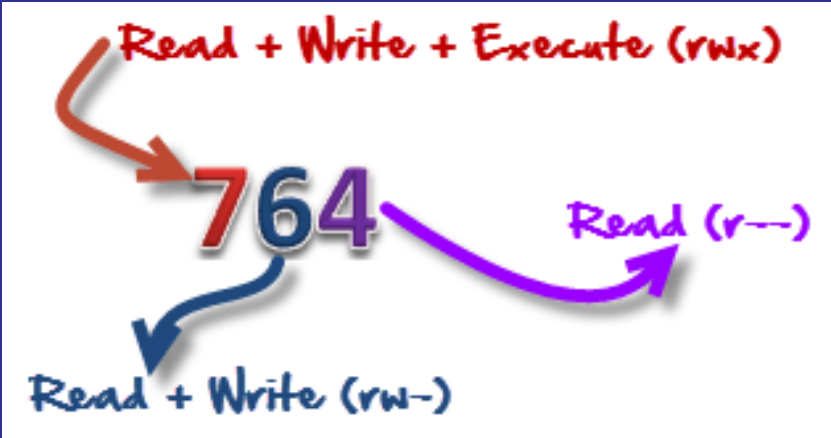
There are 2 ways to use the command -

- **Absolute mode**
- **Symbolic mode**



Absolute

Number	Permission Type	Symbol
0	No Permission	---
1	Execute	--x
2	Write	-w-
3	Execute + Write	-wx
4	Read	r--
5	Read + Execute	r-x
6	Read + Write	rw-
7	Read + Write + Execute	rwX



Symbolic

Operator	Description
+	Adds a permission to a file or directory
-	Removes the permission
=	Sets the permission and overrides the permissions set earlier.

USER DENOTATION

u

User/Owner

g

Group

o

Other

a

All

