Permissions

Octal File Permissions

	Read (4)	Write (2)	Execute (1)	Result
User	r	w	x	7
Group	r	-	x	5
Others	r	-	-	4

Octal Values

Octal Value	Mode	Octal Value	Mode
0	- - -	4	r - -
1	- - x	5	r - x
2	- w -	6	r w -
3	- w x	7	r w x

Symbolic File Permissions

	Read (r)	Write (w)	Execute (x)	Result
User (u)	+	+	+	u+rwx
Group (g)	=	-	-	g=r
Others (o)	-	-	-	o-rwx

All (a)

- Change file mode (permissions):

  chmod [permission] [file]

- Recursively change file mode (for directories):

  chmod -R [permission] [file]

- Change file user and group owner:

  chown [user:group] [file]

- Recursively change user and group owner:

  chown -R [user:group] [file]

- Change group only:

  chgrp [group] [file]

- Change group only:

    ```
    chown [:group] file
    ```

- Change user only:

    ```
    chown [user] [file]
    ```