

# File test operators:

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[ -d file ] -- It return true if the  
file/path is directory else false

[ -f file ] -- It return true if the  
file/path is a file else false

[ -e file ] -- It return true if the  
file/path is exists else false

[ -r file ] -- It return true if the  
file/path is readable else false

[ -w file ] -- It return true if the  
file/path is writable else false

[ -x file ] -- It return true if the  
file/path is executable else false



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Advanced file test operators are  
listed below:

a : True if the file exists.

**b : True if the file exists and is a  
block special file.**

c : True if the file exists and is a character special file.

d : True if the file exists and is a  
directory.

e : True if the file exists.

f : True if the file exists and is a  
regular file.



g : True if the file exists and its  
SGID bit is set.

h : True if the file exists and is a symbolic link.

k : True if the file exists and its  
sticky bit is set.

p : True if the file exists and is a  
named pipe (FIFO).

r : True if the file exists and is  
readable.

s : True if the file exists and has a size greater than zero.

t : True if file descriptor is open  
and refers to a terminal.

u : True if the file exists and its  
SUID (set user ID) bit is set.



w : True if the file exists and is  
writable.

x : True if the file exists and is  
executable.

O : True if the file exists and is owned by the effective user ID.

G : True if the file exists and is owned by the effective group ID.

L : True if the file exists and is a symbolic link.

N : True if the file exists and has been modified since it was last read.

S : True if the file exists and is a  
socket.

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