We Ba	elcome to Day 52 of 100 Days of DevOps, Focus for today is Conditional Testing in the sh. day I am going to discuss test command test - check file types and compare values In your script you generally see, it starts with left bracket([) when need to
• •	test — check file types and compare values
• •	
•	perform some testing.
	xit Status In bash after running any command, the exit status is returned and stored in variable \$?
	0> good 1 or some other code> issue
	est Integers # test 1 -eq 1;echo \$?
	Here we are trying to check if 1 is equal to 1 and then perform command
	chaining to merge two command As mentioned above exit status 0 mean good
	# test 1 -eq 2;echo \$? 1
	Exit status other than zero, in the above case, means some issue The same way we can test less than or greater than or not equal to
	# less then # test 1 -lt 2;echo \$? 0 OR
	# greater then # test 1 -gt 2;echo \$?
4	1 # not equal to OR
	# test 1 -ne 2;echo \$?
	est Strings To compare string, use a single equal sign(this is different as compare to other programming languages where single equal sign is assignment operator(=))
	# test hello = hello; echo \$?
	Same way you can test not equal to by using! # test hello != hello; echo \$?
	est Files
	Here I have two files(file1 and file2), where you can see file2(created at 05.15) is newer then file1(created at 05:14)
	# ls -l file? -rw-rr 1 root root 0 Apr 3 05:14 file1
	-rw-rr 1 root root 0 Apr 3 05:15 file2 To test if file2 is newer is than file1
	# test file2 -nt file1;echo \$?
	To check for block and character device # To check block device
	# To check block device # test -b /dev/xvda;echo \$? 0 # To check character device # test -c /dev/tty1;echo \$?
	To check if the file exists # test -e file1; echo \$?
	To check if the file exists and its a regular file(use -f)
	# mkdir file3 # test —e file3; echo \$? 0
	0 # test -f file3; echo \$? 1
	To check if the file exists and it's non-zero # test -s file2: echo \$?
	<pre># test -s file2; echo \$? 1 # echo "hello"> file2</pre>
	# test -s file2; echo \$?
1	
2 3 4 5 6 7	<pre>FILE="/etc/passwd" if [-f \$FILE]; then echo "The file '\$FILE' exists." else echo "The file '\$FILE' in not found."</pre>
	We can further improve this script by asking input from a user rather than hardcode the filename using positional parameter
1 2 3 4	<pre>FILE="\$1" if [-f \$FILE]; then</pre>
5 6 7	echo "The file '\$FILE' in not found."
	When we execute this script # ./fileexist.sh testfile
	The file 'testfile' in not found. # ./fileexist.sh /etc/shadow The file '/etc/shadow' exists.
•	Some other functionality you can test
	-b FILE FILE exists and is block special -c FILE
,	FILE exists and is character special -d FILE FILE exists and is a directory
	-e FILE FILE exists
	-f FILE FILE exists and is a regular file -g FILE
,	FILE exists and is set-group-ID -G FILE FILE exists and is owned by the effective group ID
	-h FILE FILE exists and is a symbolic link (same as -L) -k FILE
	FILE exists and has its sticky bit set -L FILE
,	FILE exists and is a symbolic link (same as -h) -O FILE FILE exists and is owned by the effective user ID
	-p FILE FILE exists and is a named pipe -r FILE
,	FILE exists and read permission is granted -s FILE FILE exists and has a size greater than zero
	-S FILE FILE exists and has a Size greater than zero -S FILE FILE exists and is a socket -t FD file descriptor FD is opened on a terminal
	-u FILE FILE exists and its set-user-ID bit is set
	-w FILE FILE exists and write permission is granted -x FILE
Lo	FILE exists and execute (or search) permission is granted oking forward from you guys to join this journey and spend a minimum an hour
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