## **Bash Shell Scripting**

test command

#!/bin/bash

Learn how to automate common tasks using bash shell scripting

#### test command



- It is a command to judge conditions.
- Simple Syntax:
  - test condition or [ condition ] or [[ condition ]]
  - Note: [[]] works with bash/ksh/zsh shells.
  - It will return exit status as 0 or 1. (echo \$?)
  - 0 Condition is true or test is successful
  - 1 -- Condition is false or test is failed
- How to make condition to work with test command?
  - Comparison Operators
  - File Test Operators





#### Numbers:

- [[ int1 -eq int2 ]]
- [[ int1 -ne int2 ]]
- [[ int1 -lt int2 ]]
- $\begin{bmatrix} \begin{bmatrix} 1 \end{bmatrix} & \begin{bmatrix} 1 \end{bmatrix} &$
- [[ int1 -gt int2 ]]
- [[ int1 -ge int2 ]]
- [[!int1 -eq int2]]

- -- It return true if they are equal else false
- -- It return false if they are not equal else true
- -- It return true if int1 is less than int2 else false
- -- It return true if int1 is less than or equal to int2 else false
- -- It return true if int1 is greater than int2 else false
- -- It return true if int1 is greater than or equal to int2 else false
- -- It reverse the result

#### Strings:

- [[ -z str ]] -- It return true if the length of the str is zero else false
- [[ -n str ]] -- It return true if the length of the str is no-zero else false
- [[ str1 == str2 ]] -- It return true if both the strings are equal else false
- [ str1 != str2 ] -- It return true if both the strings are equal else false



### File test Operators with test command

```
[ -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
```

Please download a text file for more file test operators

# Thank you