

Kahoot





Linux Plus for AWS and DevOps

Session - 6





Table of Contents



- If Statements
- If Else Statements
- If Elif Else Statements
- Nested If Statements





If Statements



A simple **if statement** essentially states, if a particular test is true, then perform a specified set of actions. If it's not true, don't take those acts.

```
if [[ <some test> ]]
then
    <commands>
fi
```

```
#!/bin/bash
read -p "Input a number" number

if [[ $number -gt 50 ]]
then
  echo "The number is big."
fi
```

```
$./if-statement.sh
Input a number: 55
The number is big.
```



Relational Operators



Operator	Description
-eq	equal
-ne	not equal
-gt	greater than
-lt	less than
-ge	greater than or equal
-le	less than or equal

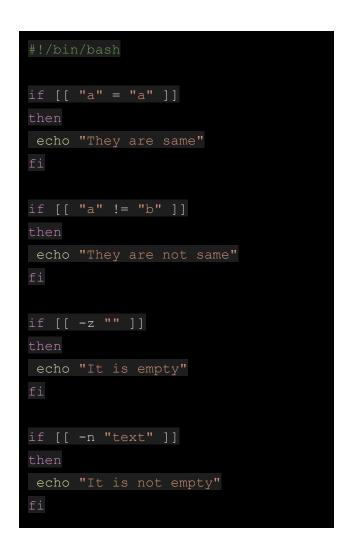
```
#!/bin/bash
read -p "Input a number" number

if [[ $number -gt 50 ]]
then
  echo "The number is big."
fi
```



String Operators

Operator	Description
=	equal
!=	not equal
-z	Empty string
-n	Not empty string

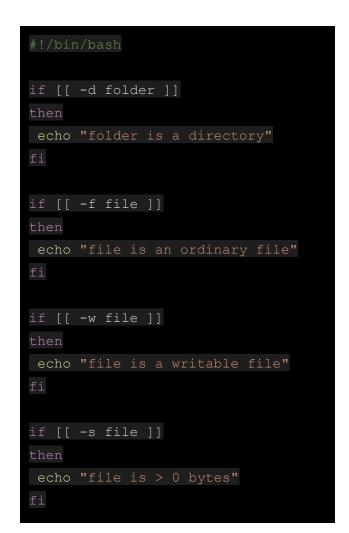






File Test Operators

Operator	Description
-d file	directory
-e file	exists
-f file	ordinary file
-r file	readable
-s file	size is > 0 bytes
-w file	writable
-x file	executable







If Else Statements



If Else Statements execute a block of code if a statement is true, or another block of code if it is false.

```
#!/bin/bash
read -p "Input a number: " number
if [[ $number -ge 10 ]]
then
 echo "The number is bigger than or
equal to 10."
else
 echo "The number is smaller than
```

```
$./ifelse-statement.sh
Input a number: 27
The number is bigger than or equal to 10.
$
$./ifelse-statement.sh
Input a number: 5
The number is smaller than 10
```



If Elif Else Statements



```
if [[ <some test> ]]
then
  <commands>
elif [[ <some test> ]]
then
  <different commands>
else
  <other commands>
fi
```

```
read -p "Input a number: " number
if [[ $number -eq 10 ]]
       $number -qt 10 ]]
then
else
     "The number is smaller than
```

```
$./elif-statement.sh
Input a number: 15
The number is bigger than 10
$
$./elif-statement.sh
Input a number: 5
The number is smaller than
10
$./elif-statement.sh
Input a number: 10
The number is equal to 10
```



Nested If Statements



```
read -p "Input a number: " number
if [[ $number -gt 10 ]]
if (( $number % 2 == 1 ))
   echo "And is an odd number."
   echo "And is an even number"
echo "It is not bigger than 10"
```

```
$./nested-if-statement.sh
Input a number: 40
Number is bigger than 10
And is an even number
$./nested-if-statement.sh
Input a number: 27
Number is bigger than 10
And is an odd number.
$./nested-if-statement.sh
Input a number: 5
It is not bigger than 10
```



Exercise 1



- Ask user to enter his/her name.
- Ask user to enter his/her age.
- Ask user average life expectancy (ale).
- Print user name with one of these messages regarding his/her age: 4.

```
age<18:
a.
           "Student"
           "At least X years to become a worker."
                                                         \# (X = 18 - age)
     18<=age<65:
b.
           "Worker"
           "X years to retire."
```

$$\# (X = 65 - age)$$

age>=65: C. if age less than **ale**: "Retired" "X years to die."

$$\# (X = ale - age)$$

else:

beep sound "!!! Already died !!!" # wait 1 sec. "!!! Already died !!!" # wait 2 secs. "!!! Already died !!!"

echo -ne '\007'



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THANKS!

Any questions?

