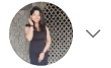


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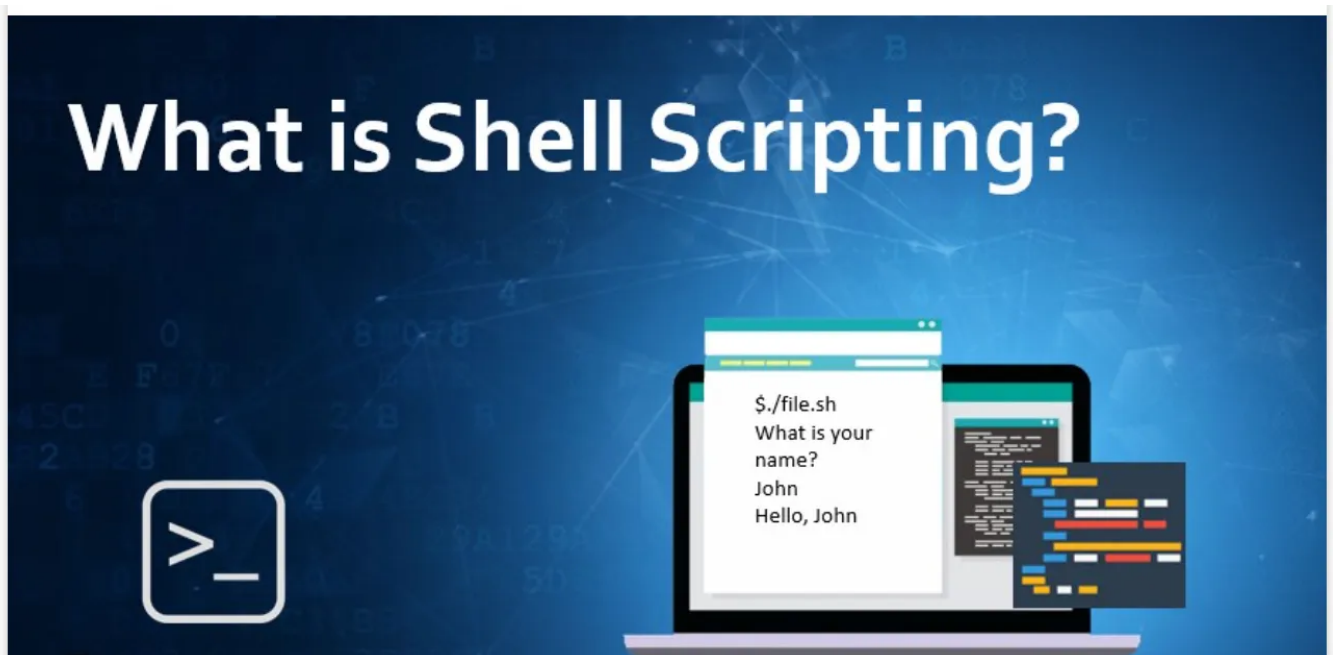
Sanjana thamke

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# Day 4 Task: Basic Linux Shell Scripting for DevOps Engineers.



## Tasks

- Explain in your own words and examples, what is Shell Scripting for DevOps.
- What is `#!/bin/bash`? can we write `#!/bin/sh` as well?
- Write a Shell Script which prints `I will complete #90DaysOfDevOps challenge`
- Write a Shell Script to take user input, input from arguments and print the variables.
- Write an Example of If else in Shell Scripting by comparing 2 numbers

## 1. What is Shell Scripting for DevOps?

Shell scripts can be used to automate tasks such as performing daily backups of your system or installing packages on multiple servers, or monitoring

the system periodically such as to check the memory, disk usage and raise alarms if required etc. Instead of typing in the commands one after the other n number of times ,write a script to automate a set of instructions to be executed one after the other

## 2.What is #!/bin/bash?

#!/bin/bash is called a shebang line which is used to instruct the operating system to use bash as a command interpreter. Shebang is a collection of characters or letters that consist of a number sign and exclamation mark, that is (#!) at the beginning of a script . The main function of a shell is to interpret the UNIX commands given by the user. Unix consists of numerous shells out of that bash is one of them that is widely used. It is the default shell assigned by Linux-based operating systems.

- Can we write #!/bin/sh as well?

!/bin/sh : It is used to execute the file using sh, which is a Bourne shell, or a compatible shell.

## 3.Write a Shell Script which prints I will complete #90Days0ofDev0ps challenge

```
echo " I will complete #90Days0ofDev0ps challenge ."  
~  
~  
~  
~  
~  
~  
~
```

```
[ubuntu@ip-172-31-10-54:~$ vi Test.sh  
[ubuntu@ip-172-31-10-54:~$ bash Test.sh  
I will complete #90Days0ofDev0ps challenge .  
[ubuntu@ip-172-31-10-54:~$
```

## 4.Write a Shell Script to take user input, input from arguments and print the variables.

```
#!/bin/bash  
echo "-----"  
echo " Enter the system name :"  
read name  
echo "The current system is $name"  
echo " Other value is $1, $2, $3"  
echo " total count is $# "  
~  
~
```

```
[ubuntu@ip-172-31-10-54:~]$ bash Argument.sh Dev Tester Engineer
-----
Enter the system name :
[Sanjana
The current system is Sanjana
Other value is Dev, Tester, Engineer
total count is 3
[ubuntu@ip-172-31-10-54:~]$ vi Argument.sh
```

## 5. Write an Example of If else in Shell Scripting by comparing 2 numbers

```
#!/bin/bash
echo "-----"
echo " Enter the First number ,"
echo "-----"
read a
echo "-----"
echo " Enter the second number ,"
echo "-----"
read b
if [ $a -gt $b ]
then
    echo "Result : $a is greater than $b"
else
    echo "Result : $a is less than $b"
fi
~
~
~
~
```

```
[ubuntu@ip-172-31-10-54:~]$ bash Compare.sh
-----
Enter the First number ,
9
-----
Enter the second number ,
2
-----
Result : 9 is greater than 2
[ubuntu@ip-172-31-10-54:~]$ bash Compare.sh
-----
Enter the First number ,
90
-----
Enter the second number ,
101
-----
Result : 90 is less than 101
[ubuntu@ip-172-31-10-54:~]$
```

\_Thank you

\_Sanjana 🙌