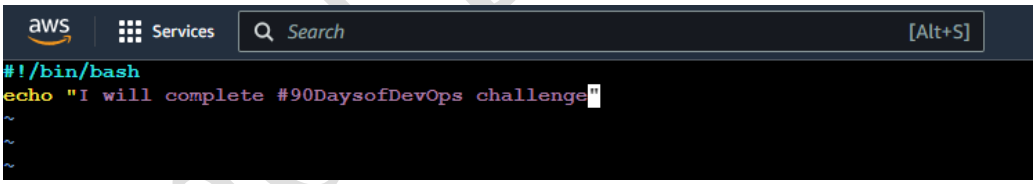
Basic Linux Shell Scripting for DevOps Engineers - Day 4

Tasks

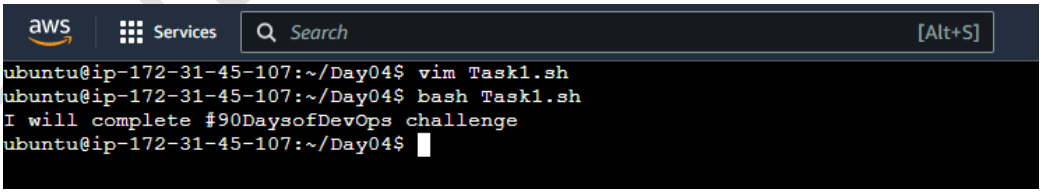
1. **Explain in your own words and examples, what is Shell Scripting for DevOps.**
   - We use SHELL scripting in DevOps to automate the tasks. In the form of collection of commands, we can automate the tasks.

2. **What is `#!/bin/bash?` can we write `#!/bin/sh ` as well?**
   - Yes, we can write '#!/bin/sh' when we are using SHELL interpreter. We are using '#!/bin/bash' when Bourne Again Shell.

3. **Write a Shell Script which prints `I will complete #90DaysofDevOps challenge`**
   - #!/bin/bash
     Echo "I will complete #90DaysofDevOps challenge"



Output:



4. **Write a Shell Script to take user input, input from arguments and print the variables.**
   - #!/bin/bash
     #This is with user input.
     echo "Welcome to #90DaysofDevOps challenge"
     read -p "Username: " user
     read -sp "Password: " pass
     echo
     echo "$user you are logged in successfully"

```
#!/bin/bash
echo "Welcome to #90DaysofDevOps challenge"
read -p "Username: " user
read -sp "Password: " pass
echo
echo "$user you are logged in successfully"
~
```

Output:

```
ubuntu@ip-172-31-45-107:~/Day04$ ./Task2.sh
Welcome to #90DaysofDevOps challenge
Username: Pramod
Password:
Pramod you are logged in successfully
ubuntu@ip-172-31-45-107:~/Day04$
```

- #!/bin/bash
  #This is with arguments
  echo "You entered " $1

```
#!/bin/bash
#This is with arguments
echo "You entered " $1
~
~
```

Output:

```
ubuntu@ip-172-31-45-107:~/Day04$ ./Task3.sh Day4
You entered  Day4
ubuntu@ip-172-31-45-107:~/Day04$
```

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

- #!/bin/bash
  #This is with Arguments
  if [[$1 -gt $2]]
  then
  echo "$1 > $2"
  elif [[$1 -lt $2]]
  then
  echo "$1 < $2"
  else

```
        echo "$1 = $2"
Fi
```

```
#!/bin/bash
#This is with Arguments
if [[ $1 -gt $2 ]]
then
        echo "$1 > $2"
elif [[ $1 -lt $2 ]]
then
        echo "$1 < $2"
else
        echo "$1 = $2"
fi
```

Output:

```
ubuntu@ip-172-31-45-107:~/Day04$ ./Task4.sh 299 147
299 > 147
ubuntu@ip-172-31-45-107:~/Day04$ ./Task4.sh 645 763
645 < 763
ubuntu@ip-172-31-45-107:~/Day04$ ./Task4.sh 912 912
912 = 912
ubuntu@ip-172-31-45-107:~/Day04$
```

- ```
  #!/bin/bash
  #This is with user input.
  read -p "Enter first number: " first
  read -p "Enter second number: " second
  if [[ $first -gt $second ]]
  then
          echo "$first > $second"
  elif [[ $first -lt $second ]]
  then
          echo "$first < $second"
  else
          echo "$first = $second"
  fi
  ```
  ```

```
#!/bin/bash
#This is with user input.
read -p "Enter first number: " first
read -p "Enter second number: " second
if [[ $first -gt $second ]]
then
        echo "$first > $second"
elif [[ $first -lt $second ]]
then
        echo "$first < $second"
else
        echo "$first = $second"
fi
```

Output:

```
ubuntu@ip-172-31-45-107:~/Day04$ ./Task5.sh
Enter first number: 54
Enter second number: 31
54 > 31
ubuntu@ip-172-31-45-107:~/Day04$ ./Task5.sh
Enter first number: 85
Enter second number: 98
85 < 98
ubuntu@ip-172-31-45-107:~/Day04$ ./Task5.sh
Enter first number: 23
Enter second number: 23
23 = 23
ubuntu@ip-172-31-45-107:~/Day04$
```