

# Scripting Task

## TASKS

### Work Flow:

- Create an EC2 instance with the help of AWS Management Console with linux OS of required configuration.
- Now, Connect an EC2 instance with an help of Windows Terminal or Gitbash or Vbox.
- To connect an EC2 instance the command is:
  - `ssh -i "key_file" ec2-user@"Public_IP_address"`

**Key\_file** --- Key file of the instance with the extension .pem

**Public\_IP\_address** --- Public IP address of the instance.

### 1. Create a shell script to print the HTTP error code of guvi.in & print, the success/failure message based on the error code response

- ✓ First To create an scripting file with .sh extension. The file name is "**check\_guvi\_status.sh**", the command is:
  - `touch check_guvi_status.sh`
- ✓ Now to open and write the script for to print the HTTP error code of guvi.in, the command is:
  - `vi check_guvi_status.sh`
- ✓ After running the above command blank page will show to insert an text into that file please press "**i**" to change the file into insert mod and write an script to print the HTTP error code of guvi.in , which as given below:

```
#!/bin/bash
URL="https://www.guvi.in"
HTTP_STATUS=$(curl -o /dev/null -s -w "%{http_code}" "$URL")
echo "HTTP Status Code: $HTTP_STATUS"
if [[ $HTTP_STATUS -ge 200 && $HTTP_STATUS -lt 300 ]]; then
    echo "Success: The request to $URL was successful."
else
    echo "Failure: The request to $URL failed with status code $HTTP_STATUS."
fi
```

- ✓ After written a script press "**Esc**" to remove an insert mod and to save & close the script file, give "**:wq!**" and press Enter.
- ✓ Once the script is written run the script file before running the script file, get permission to run the script file , to get permission , the command is:
  - `chmod +x check_guvi_status.sh`
- ✓ Now to run the scripting file, the command is:
  - `./ check_guvi_status.sh`



2. Given a file, replace all occurrence of the word "give" with "learning" from 5th line till the end in only those lines that contain the word "welcome"

- ✓ First To create an normal text file with .txt extension. The file name is “my\_file.txt”, the command is:

- **touch my\_file.txt**

- ✓ Now to open and write the some content to the file to achive our requirements, the command is:

- **vi my\_file.txt**

- ✓ Once open the file write some text to achive our requirements, which as given as below:

```
This is line 1
This is line 2
This is line 3
This is line 4
welcome give and enjoy
this is just text
welcome all, we give great knowledge
no keyword here
welcome message to give
```

- ✓ Now create an scripting file with .sh extension. The file name is “check\_guvi\_status.sh”, the command is:

- **touch replace\_word.sh**

- ✓ Now to open and write the script to replace an word in the given file, the command is:

- **vi replace\_word.sh**

- ✓ After running the above command blank page will show to insert an text into that file please press “i” to change the file into insert mod and write an script to replace an word in the given file, which as given below:

```
#!/bin/bash

FILE="my_file.txt"

cp "$FILE" "$FILE.bak"

awk 'NR<5 { print; next }
     /welcome/ { gsub(/give/, "learning") }
     { print }' "$FILE" > temp && mv temp "$FILE"

echo " Replacement completed in '$FILE'. Backup saved as '$FILE.bak'."
```

- ✓ After written a script press “Esc” to remove an insert mod and to save & close the script file, give “:wq!” and press Enter.

- ✓ Once the script is written run the script file. before running the script file, get permission to run the script file , to get permission , the command is:

- **chmod +x replace\_word.sh**

- ✓ Now to run the scripting file, the command is:
  - **./replace\_word.sh**
- ✓ After running the script we got an result as success and I also get an backup of an original file, Which as given below:
  - **Replacement completed in 'my\_file.txt'. Backup saved as 'my\_file.txt.bak'.**

```

    #
    ###
~\~~~\
      \###\
        \|/
         V- -> https://aws.amazon.com/linux/amazon-linux-2023
          /
         /m/'
Last login: Wed Apr 16 10:41:50 2025 from 18.206.107.27
[ec2-user@ip-172-31-87-249 ~]$ touch my_file.txt
[ec2-user@ip-172-31-87-249 ~]$ vi my_file.txt
[ec2-user@ip-172-31-87-249 ~]$ touch replace_word.sh
[ec2-user@ip-172-31-87-249 ~]$ vi replace_word.sh
[ec2-user@ip-172-31-87-249 ~]$ ./replace_word.sh
-bash: ./replace_word.sh: Permission denied
[ec2-user@ip-172-31-87-249 ~]$ chmod +x replace_word.sh
[ec2-user@ip-172-31-87-249 ~]$ ./replace_word.sh
Replacement completed in 'my_file.txt'. Backup saved as 'my_file.txt.bak'.
[ec2-user@ip-172-31-87-249 ~]$ vi my_file.txt
[ec2-user@ip-172-31-87-249 ~]$ █

```

- ✓ Now to open and view the content of the file to verify were the word is replaced or not, the command is:
  - **Cat my\_file.txt**

**Before:**

```
This is line 1
This is line 2
This is line 3
This is line 4
welcome give and enjoy
this is just text
welcome all, we give great knowledge
no keyword here
welcome message to give
```

**After:**

```
This is line 1
This is line 2
This is line 3
This is line 4
welcome learning and enjoy
this is just text
welcome all, we learning great knowledge
no keyword here
welcome message to learning
```

\*\*\*\*\* TASK COMPLETED \*\*\*\*\*