# Identify and Remove Zombie Processes on Ubuntu Server

#### Scenario:

The provided script will introduce a scenario that might generate zombie processes on the system. You will then need to identify and remove these processes to maintain system health.

#### Solution :-

### Step 1 :- Start the Ubuntu VM and Login

Start Ubuntu Vm and Login with root user.

### **Step 2 :- Download Script and Check**

- Download below script for setup of scenario of Zombie Process.
   https://raw.githubusercontent.com/INTERNSHIPTASKS/Basic-Linux/main/Task2
- Command :-
  - "wget https://raw.githubusercontent.com/INTERNSHIPTASKS/Basic-Linux/main/Task2"
- Execute Is command to check whether a file is downloaded or not.

# Step 3 :- Execute[x] permission to Task2

Check Task2 permission with command Is -I Task2.

```
root@ubuntu:~# ls −l Task2
−rw−r−−r−− 1 root root 1085 Jun 25 07:11 Task2
```

Give Execute[x] permission if not present.

```
root@ubuntu:~# chmod +x Task2
root@ubuntu:~# ls –l Task2
–rwxr–xr–x 1_root root 1085 Jun 25 07:11 Task2
```

# Step 4 :- Run the script

Run the script use ./Task2 command.

```
root@ubuntu:~# ./Task2
/root
root@ubuntu:~#
```

## **Step 5 :- Check the Zombie Process**

- Execute **ps aux | grep 'Z'** command to check zombie process.
- Filtering for entries with "Z" in the STAT column (zombie state) or "defunct" in the last column.

### Step 6:- Kill the parent process

- We cannot directly kill zombie processes as they are already dead.
- So we need to kill their parent process.
- Verify the parent id of that process and kill the process with PID.

Execute kill 1557 command to kill the parent process.

```
root@ubuntu:~#
root@ubuntu:~#
root@ubuntu:~# kill 1557
root@ubuntu:~#
```

## Step 7 :- Check whether process get killed or not

 Execute ps aux | grep 'Z' command to recheck whether process get killed or not.

```
root@ubuntu:~# ps aux | grep 'Z'
USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND
root 1601 0.0 0.0 6432 720 tty1 S+ 07:34 0:00 grep --color=auto Z
root@ubuntu:~#
```

Congratulations you have successfully killed the zombie process!...

Name: - Rahul Sachin Sharma

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