

## Ch 5: Create a Linux shell script and set it as executable

1. Start and login to your Kali Linux virtual machine as user **kali** with a password of **kali**.
2. Type **cd** and press ENTER to change to the kali user home directory.
3. Create a script file using the nano text editor by typing **nano scripttest.sh**.
4. Enter (or copy and paste) the following shell script commands. You can paste in the Kali terminal windows from the **Edit** menu by choosing **Paste Clipboard**.

```
#!/bin/bash
```

```
function show_ipinfo()
```

```
{  
IP_VAR=`ifconfig eth0 | grep "inet" | tr -s " " ":" | cut -f3 -d ":"`  
DGW_VAR=`ip route show | grep "default" | tr -s " " ":" | cut -f3 -d ":"`  
echo "IP ADDRESS:" $IP_VAR  
echo "DEFAULT GATEWAY:" $DGW_VAR  
cat /etc/resolv.conf | grep "nameserver" | grep -v "#"  
}
```

```
while true
```

```
do
```

```
    clear  
    echo  
    echo "UTILITY MENU"  
    echo "-----"  
    echo  
    echo "1 - Show IP info"s  
    echo  
    echo "2 - Show currently logged in username"  
    echo  
    echo "3 - Quit"  
    echo  
    echo "Enter choice:"  
    echo  
    read selection  
    echo  
    case $selection in  
        1)show_ipinfo;;  
        2)whoami;;  
        3)clear;exit;;
```

```
esac

read junkvar

done
```

5. Press **CTRL+X** to exit. When prompted to "Save modified buffer?" press **Y** and press **ENTER** to accept the default filename.
6. Try to run the script by typing **sudo ./scripttest.sh**. You will receive a "command not found" message because the script has not yet been set as executable.
7. Type **chmod 550 scripttest.sh** to make the script readable (value of 4) and executable (value of 1) for the owning user and group of the file.
8. Type **ls -l scripttest.sh**. Notice the r-x permissions listed twice; once for the owning user of the file, and once for the owning group of the file (both set to kali in this case).
9. Once again, attempt to run the script by typing **sudo ./scripttest.sh**. This time the script runs. Press **3** to exit back to a shell prompt.