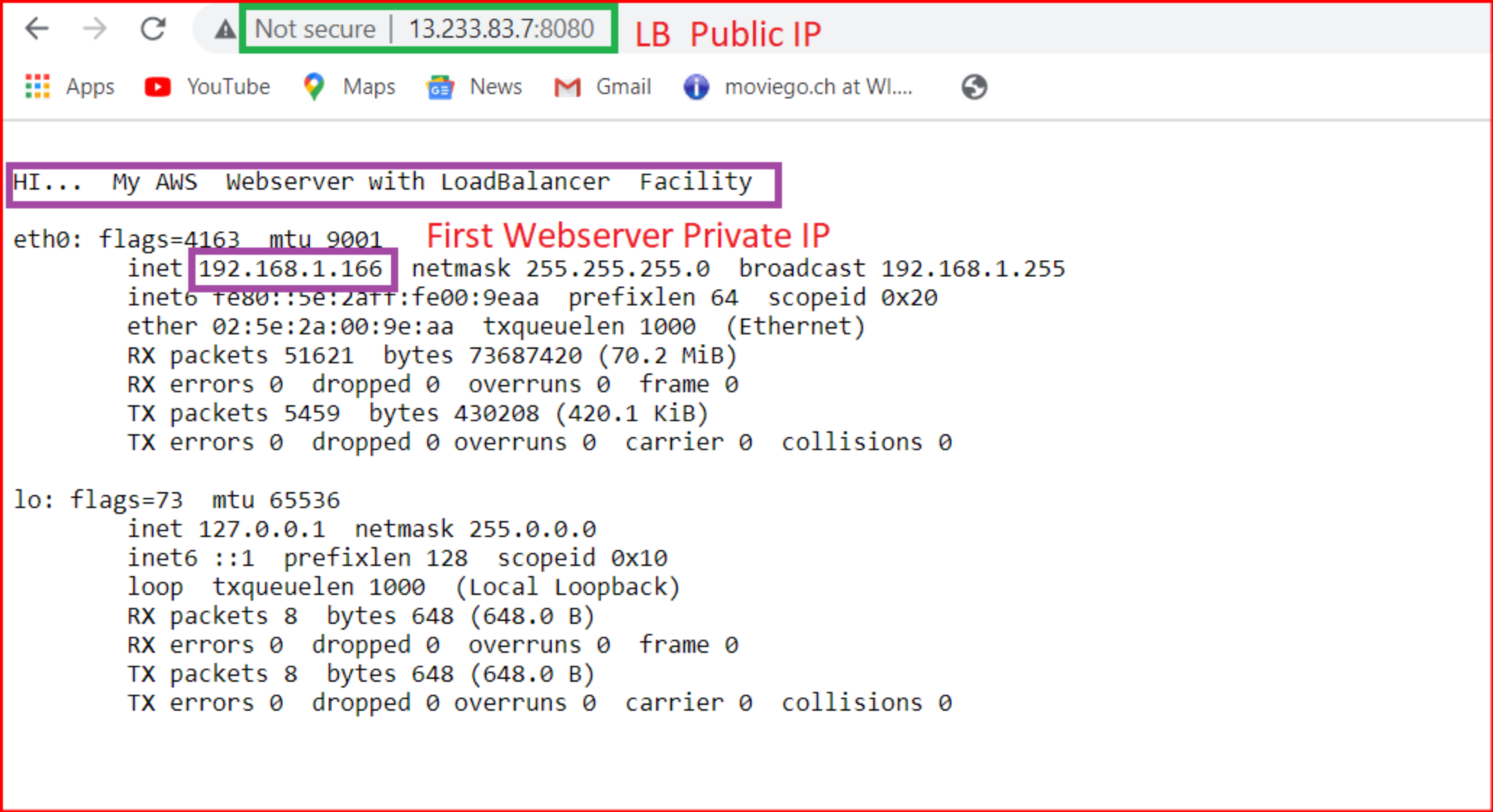
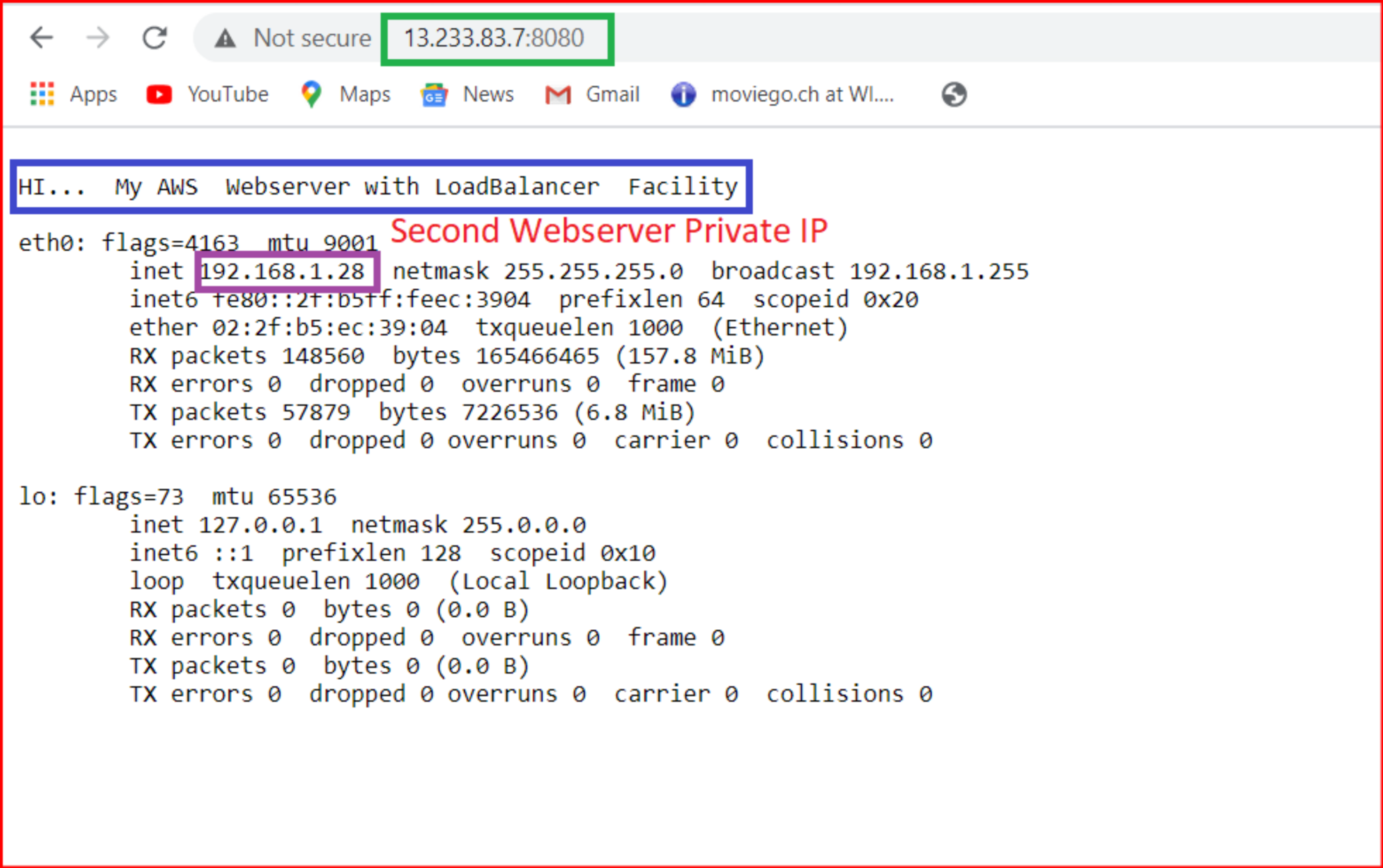
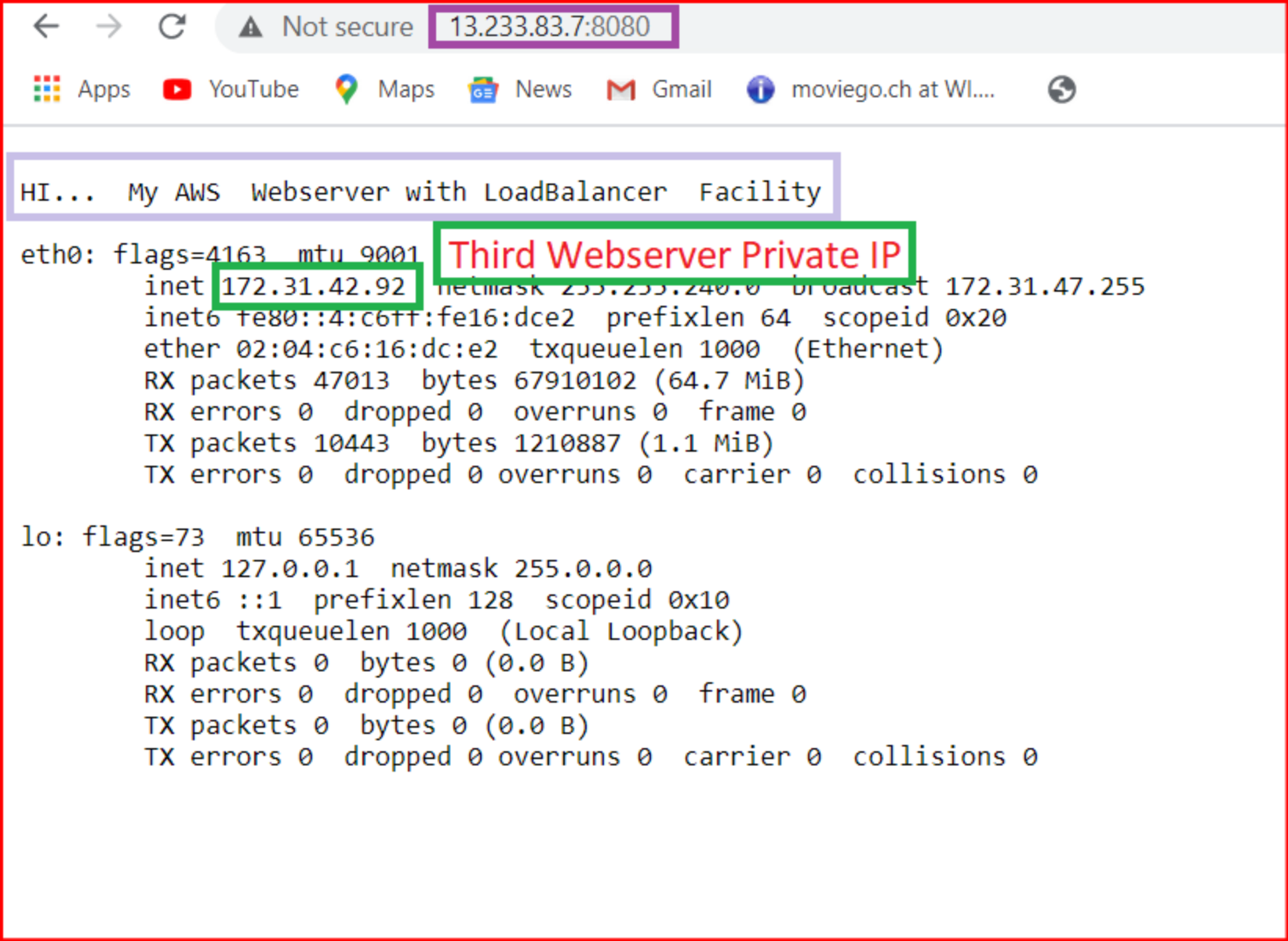

Not secure | 13.233.83.7:8080
LB Public IP
Apps
YouTube
Maps
News
Gmail
moviego.ch at WI....
HI... My AWS Webserver with LoadBalancer Facility
First Webserver Private IP
eth0: flags=4163 mtu 9001
inet 192.168.1.166 netmask 255.255.255.0 broadcast 192.168.1.255
inet6 fe80::5e:2aff:fe00:9eaa prefixlen 64 scopeid 0x20
ether 02:5e:2a:00:9e:aa txqueuelen 1000 (Ethernet)
RX packets 51621 bytes 73687420 (70.2 MiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 5459 bytes 430208 (420.1 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73 mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0x10
loop txqueuelen 1000 (Local Loopback)
RX packets 8 bytes 648 (648.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 8 bytes 648 (648.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0


Not secure
13.233.83.7:8080
Apps
YouTube
Maps
News
Gmail
moviego.ch at WI....
HI... My AWS Webserver with LoadBalancer Facility
Second Webserver Private IP
eth0: flags=4163 mtu 9001
inet 192.168.1.28 netmask 255.255.255.0 broadcast 192.168.1.255
inet6 fe80::2f:b5ff:feec:3904 prefixlen 64 scopeid 0x20
ether 02:2f:b5:ec:39:04 txqueuelen 1000 (Ethernet)
RX packets 148560 bytes 165466465 (157.8 MiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 57879 bytes 7226536 (6.8 MiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73 mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0x10
loop txqueuelen 1000 (Local Loopback)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0


Not secure
13.233.83.7:8080
Apps
YouTube
Maps
News
Gmail
moviego.ch at WI....
HI... My AWS Webserver with LoadBalancer Facility
Third Webserver Private IP
eth0: flags=4163 mtu 9001
inet 172.31.42.92
broadcast 172.31.47.255
inet6 fe80::4:c6ff:fe16:dce2 prefixlen 64 scopeid 0x20
ether 02:04:c6:16:dc:e2 txqueuelen 1000 (Ethernet)
RX packets 47013 bytes 67910102 (64.7 MiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 10443 bytes 1210887 (1.1 MiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73 mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0x10
loop txqueuelen 1000 (Local Loopback)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```
TASK [Copying pages in /var/www/html] **********
changed: [35.154.153.33]
changed: [15.206.123.204]
changed: [65.0.31.84]
```

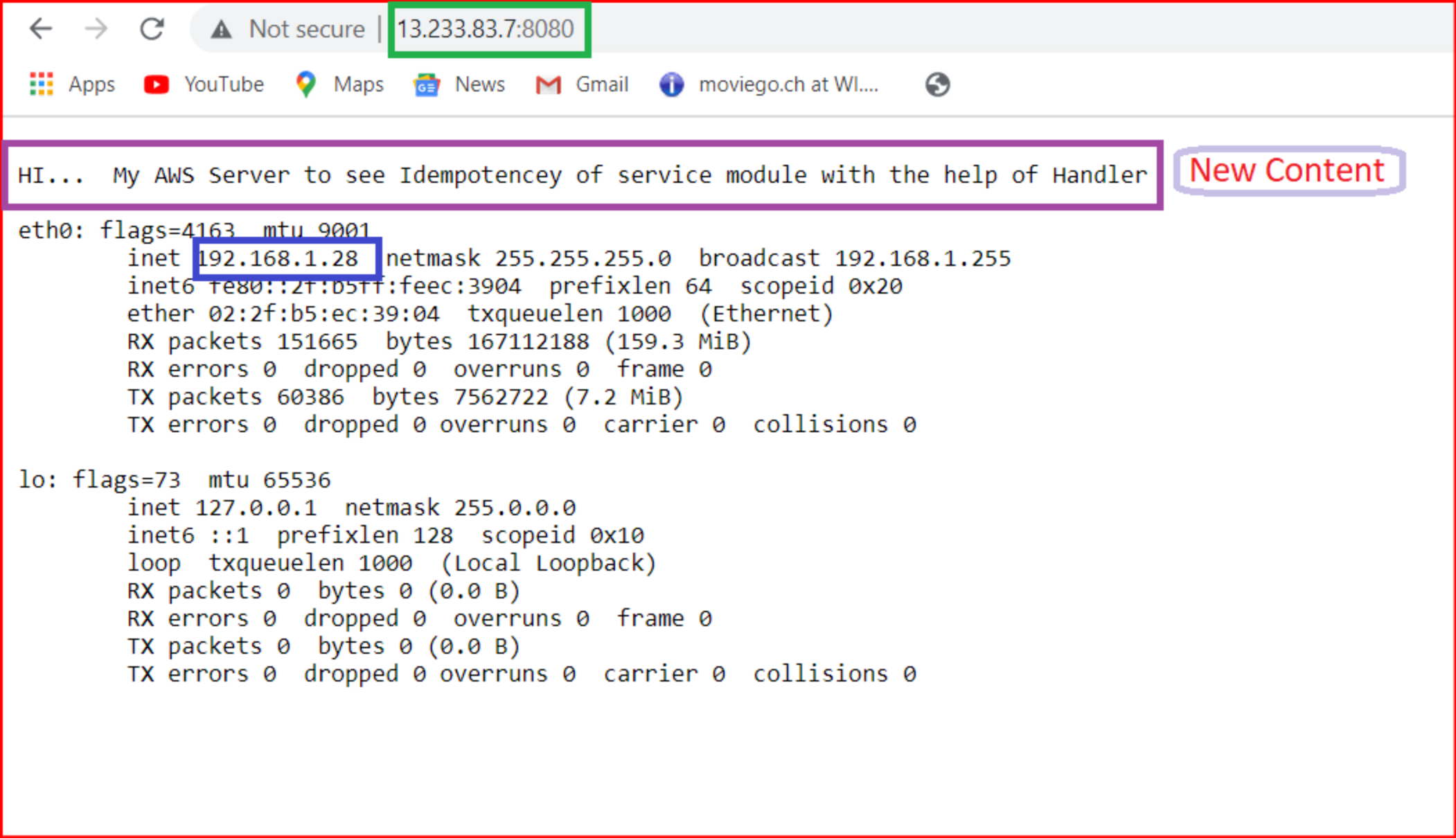
Changed Web Pages to retain and see Idempotency behaviour using Handlers

```
TASK [starting service] ***********************************************
ok: [35.154.153.33]
ok: [15.206.123.204]
ok: [65.0.31.84]
```

Service again not started due to Idempotency behaviour of Ansible but we require to restatrt it since i have changed some in web page

```
RUNNING HANDLER [restarting webserver service] ********************
changed: [35.154.153.33]
changed: [15.206.123.204]
changed: [65.0.31.84]
```

It is restarting httpd service on demand.


Not secure
13.233.83.7:8080
Apps
YouTube
Maps
News
Gmail
moviego.ch at WI....
HI... My AWS Server to see Idempotencey of service module with the help of Handler
New Content
eth0: flags=4163 mtu 9001
inet 192.168.1.28 netmask 255.255.255.0 broadcast 192.168.1.255
inet6 fe80::2f:b5ff:feec:3904 prefixlen 64 scopeid 0x20
ether 02:2f:b5:ec:39:04 txqueuelen 1000 (Ethernet)
RX packets 151665 bytes 167112188 (159.3 MiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 60386 bytes 7562722 (7.2 MiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73 mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0x10
loop txqueuelen 1000 (Local Loopback)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
Web_Server2	i-06cb0d9de1b708e9d	Running	t2.micro	2/2 checks ...	No alarms
LB_Server	i-04e23a074e177b419	Running	t2.micro	2/2 checks ...	No alarms
Web_Server1	i-09e5bb4083d4b9eb6	Running	t2.micro	2/2 checks ...	No alarms
Web_Serv...	i-09a9f0214ec77e8db	Running	t2.micro	2/2 checks ...	No alarms

All the servers are running on AWS

Instance: i-04e23a074e177b419 (LB_Server)

Details | Security | Networking | Storage | Status Checks | Monitoring | Tags

Instance summary Info

Instance ID
i-04e23a074e177b419 (LB_Server)

Public IPv4 address LB Server
13.233.83.7 | open address

Private IPv4 addresses
172.31.44.244

```
[myweb]
15.206.123.204    ansible_user=ec2-user    ansible_ssh_private_key=/gen_ansible_ws/mykey.pem    ansible_co
nnection=ssh
65.0.31.84    ansible_user=ec2-user    ansible_ssh_private_key=/gen_ansible_ws/mykey.pem    ansible_connec
tion=ssh
35.154.153.33    ansible_user=ec2-user    ansible_ssh_private_key=/gen_ansible_ws/mykey.pem    ansible_con
nection=ssh

[mylb]
13.233.83.7    ansible_user=ec2-user    ansible_ssh_private_key=/gen_ansible_ws/mykey.pem    ansible_conne
ction=ssh
```

All the Webserver Inventories

LB Server inventory

In Ansible main config file

```
[defaults]
inventory=/root/ip.txt
host_key_checking=false
private_key_file=/gen_ansible_ws/mykey.pem
[privilege_escalation]
become=true
become_user=root
become_method=sudo
become_ask_pass=false
deprecation_warnings=False
~
~
```

Helping in remote login using key

For privilege escalation since AWS provides general user to login and access instances

```
- name:  "Copying pages in {{ doc_root }}"
  copy:
          dest:  "{{ doc_root }}/index.php"
          src:  "index.php"
  notify:  restarting webserver service

- template:
        dest:  "/etc/httpd/conf.d/vish.conf"
        src:  "vish.conf"
  notify:  restarting webserver service

- name:  "Installing Python3"
  package:
          name:  "python3"
          state:  present


- name:  "starting service"
  service:
          name:  "httpd"
          state:  started
handlers:
- name: restarting webserver service
  service:
          name:  "httpd"
          state:  restarted
```

Calling following handler whenver something changes in these files

This will be called