

CS 524 Intro to Cloud computing

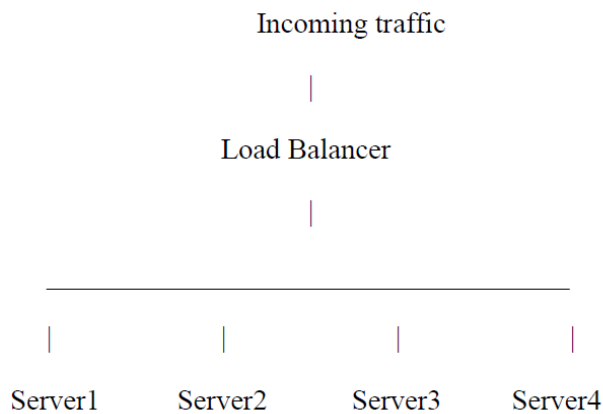
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Lab Assignment 2

I followed the step-by-step procedures to accomplish this assignment.

Step 1: Create the Amazon EC2 instances

You need to create *five* EC2 instances of the same time you have created in the previous homework. One of these instances will act as a load balancer; the other four will act as web servers named **Server1**, **Server2**, **Server3**, **Server4**, as demonstrated below:



First, I have created five instances and one of them act as load balancer (Linux EC2 AMI instance).

Launch Instance

Connect

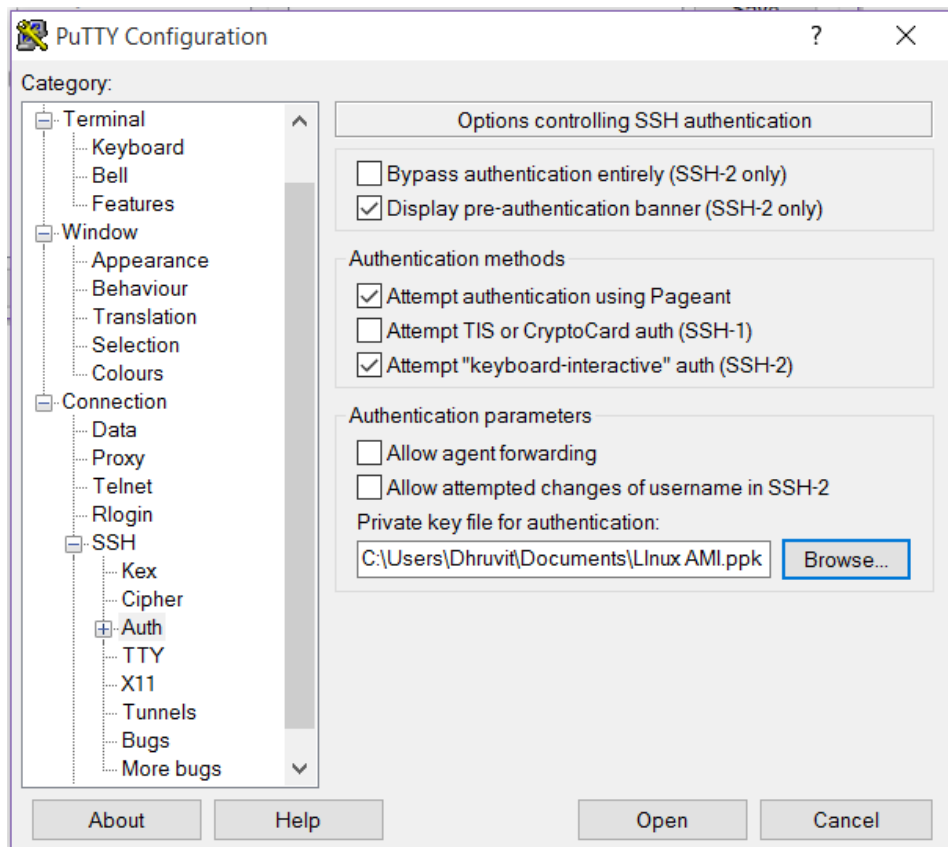
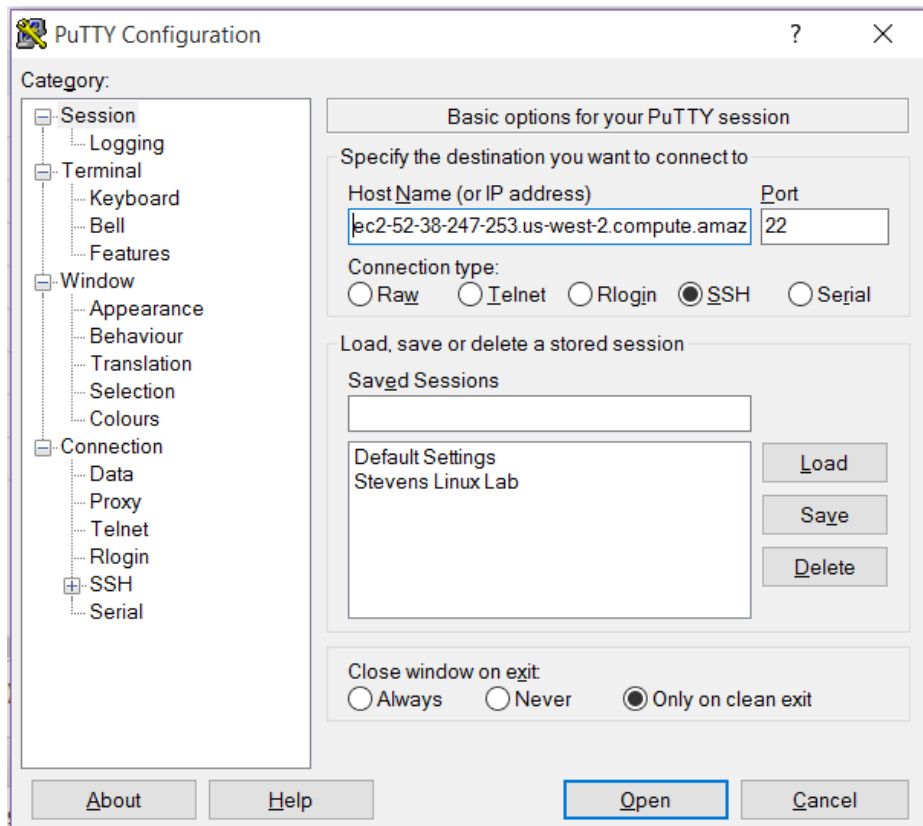
Actions

Q

Filter by tags and attributes or search by keyword

<input type="checkbox"/>	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP
<input type="checkbox"/>	Linux EC2 AMI	i-01443618c...	t2.micro	us-west-2a	<div>●</div> running	<div>✓</div> 2/2 checks ...	None	<div></div> ec2-52-38-247-253.us-w...	52.38.247.253
<input type="checkbox"/>	Server1	i-01d1dd927...	t2.micro	us-west-2a	<div>●</div> running	<div>✓</div> 2/2 checks ...	None	<div></div> ec2-52-38-169-241.us-w...	52.38.169.241
<input type="checkbox"/>	Server2	i-043406c2d...	t2.micro	us-west-2a	<div>●</div> running	<div>✓</div> 2/2 checks ...	None	<div></div> ec2-52-25-206-212.us-w...	52.25.206.212
<input type="checkbox"/>	Serevr3	i-07aec2ac7...	t2.micro	us-west-2a	<div>●</div> running	<div>✓</div> 2/2 checks ...	None	<div></div> ec2-52-38-246-16.us-we...	52.38.246.16
<input type="checkbox"/>	Server4	i-00f69b6881...	t2.micro	us-west-2a	<div>●</div> running	<div>✓</div> 2/2 checks ...	None	<div></div> ec2-52-38-161-72.us-we...	52.38.161.72

I changed security group for my all instance and add rules for HTTP port 80.
I used PuTTY to connect all created EC2 instances.



```
ec2-52-38-247-253.us-west-2.compute.amazonaws.com - PuTTY
login as: ec2-user
```

```
ec2-user@ip-172-31-35-243:~
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Tue Apr 12 16:43:46 2016 from 155.246.210.100

  _ | _ | _ )
  _ | ( _ | /   Amazon Linux AMI
  _ |\ _ | _ |

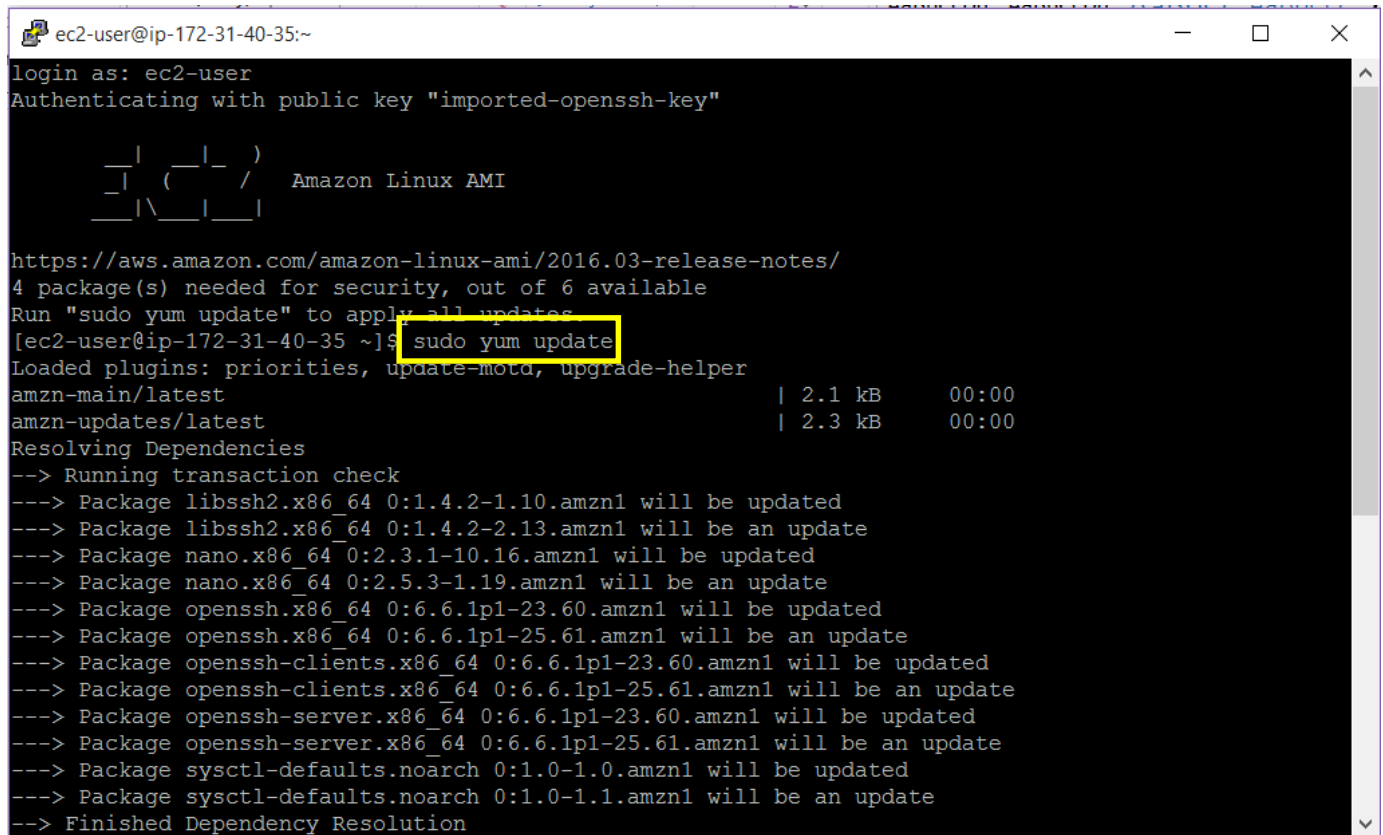
https://aws.amazon.com/amazon-linux-ami/2016.03-release-notes/
4 package(s) needed for security, out of 6 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-35-243 ~]$
```

Step 2: Install *Nginx* on each instance

After launching the instances, use *yum* (the Amazon Linux native software manager) to install *Nginx* on every instance and start the *Nginx* service.

To verify the *Nginx* is working, visit the hosted default webpage through instance's public DNS from an internet browser. You will see the Welcome message (if *Nginx* http server works properly).

First of all, I updated “yum” installer, which used to install any pkg in Linux machine.



```
ec2-user@ip-172-31-40-35:~
login as: ec2-user
Authenticating with public key "imported-openssh-key"

  _ | _ | _ )
  _ | ( _ - /   Amazon Linux AMI
  _ | \ _ | _ |

https://aws.amazon.com/amazon-linux-ami/2016.03-release-notes/
4 package(s) needed for security, out of 6 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-40-35 ~]$ sudo yum update
Loaded plugins: priorities, update-motd, upgrade-helper
amzn-main/latest                               | 2.1 kB      00:00
amzn-updates/latest                             | 2.3 kB      00:00
Resolving Dependencies
--> Running transaction check
--> Package libssh2.x86_64 0:1.4.2-1.10.amzn1 will be updated
--> Package libssh2.x86_64 0:1.4.2-2.13.amzn1 will be an update
--> Package nano.x86_64 0:2.3.1-10.16.amzn1 will be updated
--> Package nano.x86_64 0:2.5.3-1.19.amzn1 will be an update
--> Package openssh.x86_64 0:6.6.1p1-23.60.amzn1 will be updated
--> Package openssh.x86_64 0:6.6.1p1-25.61.amzn1 will be an update
--> Package openssh-clients.x86_64 0:6.6.1p1-23.60.amzn1 will be updated
--> Package openssh-clients.x86_64 0:6.6.1p1-25.61.amzn1 will be an update
--> Package openssh-server.x86_64 0:6.6.1p1-23.60.amzn1 will be updated
--> Package openssh-server.x86_64 0:6.6.1p1-25.61.amzn1 will be an update
--> Package sysctl-defaults.noarch 0:1.0-1.0.amzn1 will be updated
--> Package sysctl-defaults.noarch 0:1.0-1.1.amzn1 will be an update
--> Finished Dependency Resolution
```

I installed nginx with the use of “yum” Linux installer.

```
ec2-user@ip-172-31-40-35:~  
[ec2-user@ip-172-31-40-35 ~]$ sudo yum install nginx  
Loaded plugins: priorities, update-motd, upgrade-helper  
Resolving Dependencies  
--> Running transaction check  
---> Package nginx.x86_64 1:1.8.1-1.26.amzn1 will be installed  
--> Processing Dependency: gd for package: 1:nginx-1.8.1-1.26.amzn1.x86_64  
--> Processing Dependency: GeoIP for package: 1:nginx-1.8.1-1.26.amzn1.x86_64  
--> Processing Dependency: libprofiler.so.0()(64bit) for package: 1:nginx-1.8.1-1.26.amzn1.x86_64  
--> Processing Dependency: libGeoIP.so.1()(64bit) for package: 1:nginx-1.8.1-1.26.amzn1.x86_64  
--> Processing Dependency: libgd.so.2()(64bit) for package: 1:nginx-1.8.1-1.26.amzn1.x86_64  
--> Running transaction check  
---> Package GeoIP.x86_64 0:1.4.8-1.5.amzn1 will be installed  
---> Package gd.x86_64 0:2.0.35-11.10.amzn1 will be installed  
--> Processing Dependency: libXpm.so.4()(64bit) for package: gd-2.0.35-11.10.amzn1.x86_64  
---> Package gperftools-libs.x86_64 0:2.0-11.5.amzn1 will be installed  
--> Processing Dependency: libunwind.so.8()(64bit) for package: gperftools-libs-2.0-11.5.amzn1.x86_64  
--> Running transaction check  
---> Package libXpm.x86_64 0:3.5.10-2.9.amzn1 will be installed  
---> Package libunwind.x86_64 0:1.1-10.8.amzn1 will be installed  
--> Finished Dependency Resolution  
  
Dependencies Resolved  
  
=====
```

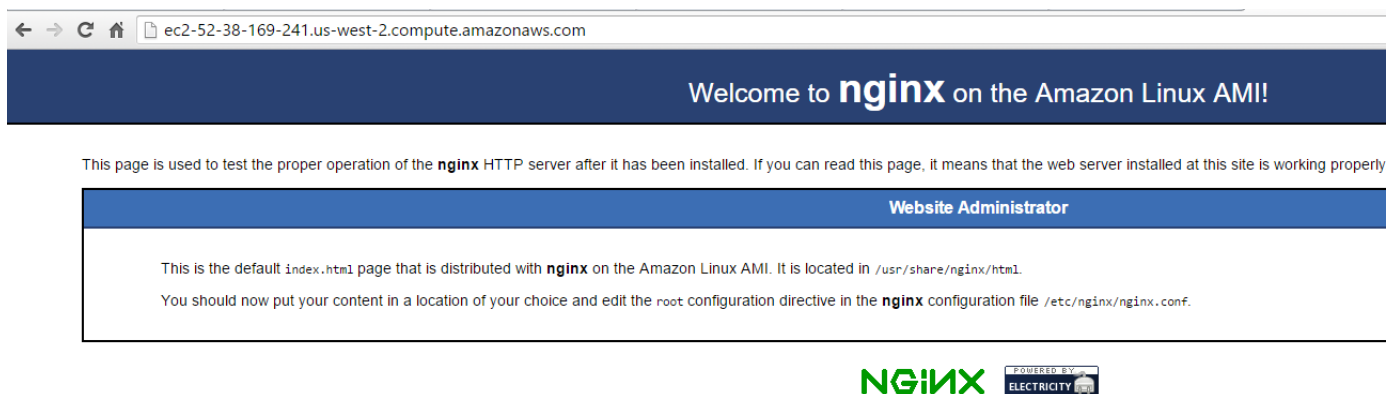
Package	Arch	Version	Repository	Size
Installing:				
nginx	x86_64	1:1.8.1-1.26.amzn1	amzn-main	557 k

```
=====
```

After then, I start and reload nginx server to serve the functionality provided by it.

```
ec2-user@ip-172-31-42-39:~  
Transaction test succeeded  
Running transaction  
  Installing : libXpm-3.5.10-2.9.amzn1.x86_64 1/6  
  Installing : gd-2.0.35-11.10.amzn1.x86_64 2/6  
  Installing : libunwind-1.1-10.8.amzn1.x86_64 3/6  
  Installing : gperftools-libs-2.0-11.5.amzn1.x86_64 4/6  
  Installing : GeoIP-1.4.8-1.5.amzn1.x86_64 5/6  
  Installing : 1:nginx-1.8.1-1.26.amzn1.x86_64 6/6  
  Verifying : gperftools-libs-2.0-11.5.amzn1.x86_64 1/6  
  Verifying : GeoIP-1.4.8-1.5.amzn1.x86_64 2/6  
  Verifying : 1:nginx-1.8.1-1.26.amzn1.x86_64 3/6  
  Verifying : libunwind-1.1-10.8.amzn1.x86_64 4/6  
  Verifying : gd-2.0.35-11.10.amzn1.x86_64 5/6  
  Verifying : libXpm-3.5.10-2.9.amzn1.x86_64 6/6  
  
Installed:  
  nginx.x86_64 1:1.8.1-1.26.amzn1  
  
Dependency Installed:  
  GeoIP.x86_64 0:1.4.8-1.5.amzn1      gd.x86_64 0:2.0.35-11.10.amzn1  
  gperftools-libs.x86_64 0:2.0-11.5.amzn1  libXpm.x86_64 0:3.5.10-2.9.amzn1  
  libunwind.x86_64 0:1.1-10.8.amzn1  
  
Complete!  
[ec2-user@ip-172-31-42-39 ~]$ sudo service nginx start  
Starting nginx: [ OK ]  
[ec2-user@ip-172-31-42-39 ~]$ sudo service nginx reload  
Reloading nginx: [ OK ]  
[ec2-user@ip-172-31-42-39 ~]$
```

This is by default index.html webpage provided by nginx to verify, it is working or not.



Now, we are going to modify this index.html webpage to depict our custom information. Visit directory, who contained this index.html by “cd /usr/share/nginx/html”.

```
ec2-user@ip-172-31-42-39:/usr/share/nginx/html
Installing : gd-2.0.35-11.10.amzn1.x86_64 2/6
Installing : libunwind-1.1-10.8.amzn1.x86_64 3/6
Installing : gperftools-libs-2.0-11.5.amzn1.x86_64 4/6
Installing : GeoIP-1.4.8-1.5.amzn1.x86_64 5/6
Installing : 1:nginx-1.8.1-1.26.amzn1.x86_64 6/6
Verifying : gperftools-libs-2.0-11.5.amzn1.x86_64 1/6
Verifying : GeoIP-1.4.8-1.5.amzn1.x86_64 2/6
Verifying : 1:nginx-1.8.1-1.26.amzn1.x86_64 3/6
Verifying : libunwind-1.1-10.8.amzn1.x86_64 4/6
Verifying : gd-2.0.35-11.10.amzn1.x86_64 5/6
Verifying : libXpm-3.5.10-2.9.amzn1.x86_64 6/6

Installed:
  nginx.x86_64 1:1.8.1-1.26.amzn1

Dependency Installed:
  GeoIP.x86_64 0:1.4.8-1.5.amzn1      gd.x86_64 0:2.0.35-11.10.amzn1
  gperftools-libs.x86_64 0:2.0-11.5.amzn1  libXpm.x86_64 0:3.5.10-2.9.amzn1
  libunwind.x86_64 0:1.1-10.8.amzn1

Complete!
[ec2-user@ip-172-31-42-39 ~]$ sudo service nginx start
Starting nginx: [ OK ]
[ec2-user@ip-172-31-42-39 ~]$ sudo service nginx reload
Reloading nginx: [ OK ]
[ec2-user@ip-172-31-42-39 ~]$ cd /usr/share/nginx/html
[ec2-user@ip-172-31-42-39 html]$ ls
404.html  50x.html  index.html  nginx-logo.png  poweredby.png
[ec2-user@ip-172-31-42-39 html]$
```

Open the index.html by “sudo vi index.html” and I wrote following custom information.

```
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
  <body>
    <h1>[SERVER_ID]</h1>
  </body>
</html>
```

Here, I wrote Server 1 instead of [SERVER_ID].

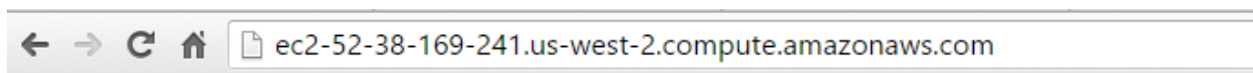
A screenshot of a Linux terminal window titled "ec2-user@ip-172-31-42-39:/usr/share/nginx/html". The user has created a file named "index.html" containing valid XML code:

```
<?xml xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">  
<br></br>  
<body>  
<h1>SERVER_1</h1>  
</body>  
</html>
```

The prompt shows there are several files listed below it.

The bottom status bar indicates the cursor position at column 5L, row 99C.

I visited public DNS of server 1 EC2 instance, it opened the following webpage.



SERVER_1

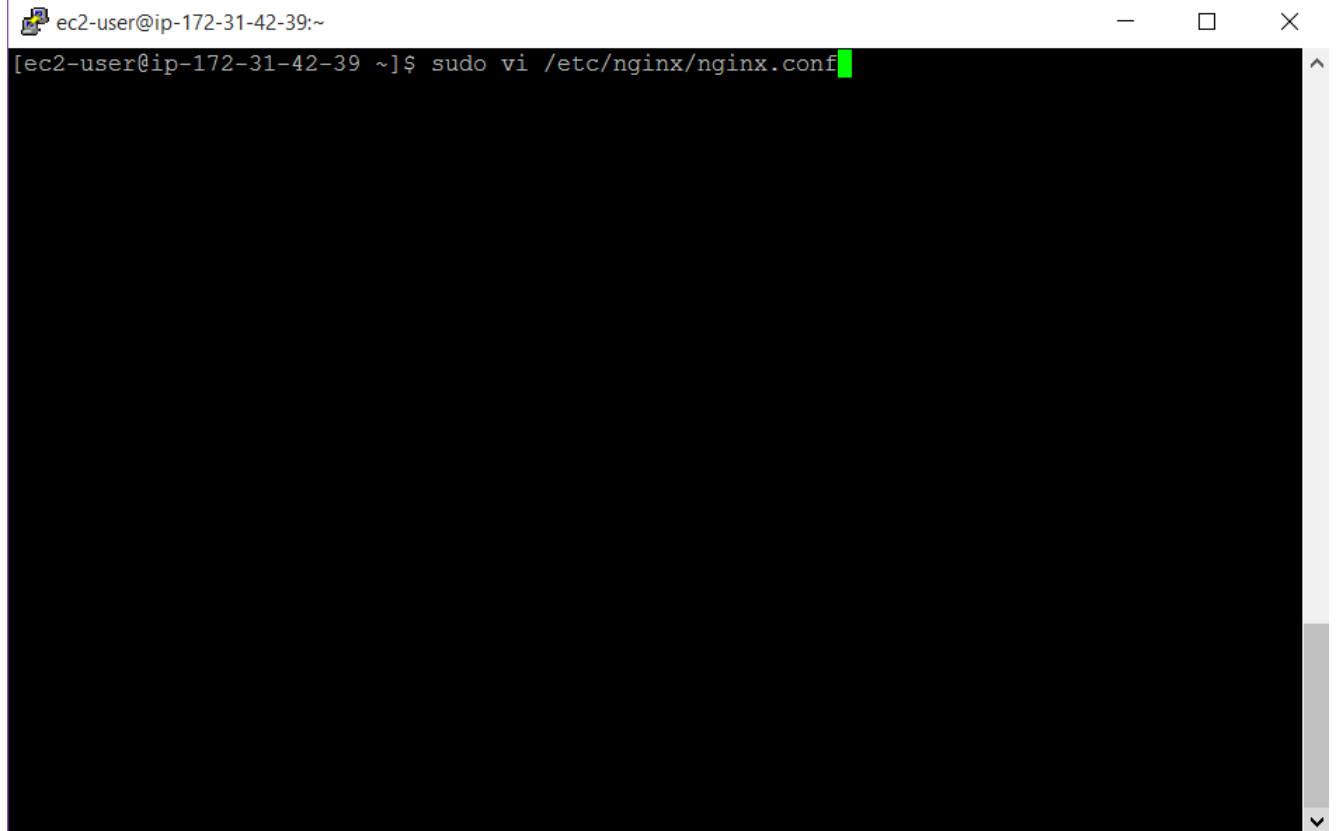
I did the same thing (changing the index.html and visiting public DNS of that instances) for other 3 instances.

Step 3: Configure the Load balancer

Make load balancer and configure it.

To config load balancer I open nginx.config file using `/etc/nginx/nginx.conf`

As shown in following figure

A terminal window with a title bar showing 'ec2-user@ip-172-31-42-39:~'. The terminal content shows the command '[ec2-user@ip-172-31-42-39 ~]\$ sudo vi /etc/nginx/nginx.conf' with a green cursor at the end of the command. The terminal background is black, and the text is white. The window has standard Linux window controls (minimize, maximize, close) in the top right corner.

```
ec2-user@ip-172-31-42-39:~  
[ec2-user@ip-172-31-42-39 ~]$ sudo vi /etc/nginx/nginx.conf
```

```
ec2-user@ip-172-31-42-39:~  
# For more information on configuration, see:  
# * Official English Documentation: http://nginx.org/en/docs/  
# * Official Russian Documentation: http://nginx.org/ru/docs/  
  
user nginx;  
worker_processes auto;  
error_log /var/log/nginx/error.log;  
pid /var/run/nginx.pid;  
  
events {  
    worker_connections 1024;  
}  
  
http {  
    log_format main '$remote_addr - $remote_user [$time_local] "$request" '  
                    '$status $body_bytes_sent "$http_referer" '  
                    '"$http_user_agent" "$http_x_forwarded_for";  
  
    access_log /var/log/nginx/access.log main;  
  
    sendfile            on;  
    tcp_nopush          on;  
    tcp_nodelay         on;  
    keepalive_timeout  65;  
    types_hash_max_size 2048;  
  
    include              /etc/nginx/mime.types;  
    "/etc/nginx/nginx.conf" 120L, 3593C
```

Then I replace following code with existing code and this is shown in script.

```
events {  
    worker_connections 768;  
}  
http {  
    upstream myapp {  
        #ip_hash;  
        server ec2-52-34-1-31.us-west-2.compute.amazonaws.com weight=1;  
        server ec2-52-27-133-122.us-west-2.compute.amazonaws.com weight=1;  
        server ec2-52-38-236-64.us-west-2.compute.amazonaws.com weight=1;  
        server ec2-52-38-225-253.us-west-2.compute.amazonaws.com weight=1;  
    }  
    server {  
        listen 80;  
        server_name myapp.com;  
        location / {  
            proxy_pass http://myapp;  
        }  
    }  
}
```

```
ec2-user@ip-172-31-35-243:~  
GNU nano 2.5.3 File: /etc/nginx/nginx.conf  
events {  
worker_connections 768;  
}  
http {  
upstream myapp {  
#ip_hash;  
server ec2-52-34-1-31.us-west-2.compute.amazonaws.com weight=1;  
server ec2-52-27-133-122.us-west-2.compute.amazonaws.com weight=1;  
server ec2-52-38-236-64.us-west-2.compute.amazonaws.com weight=1;  
server ec2-52-38-225-253.us-west-2.compute.amazonaws.com weight=1;  
}  
server {  
listen 80;  
server_name myapp.com;  
location / {  
proxy_pass http://myapp;  
}  
}  
}  
[ Read 22 lines ]  
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos  
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell ^_ Go To Line
```

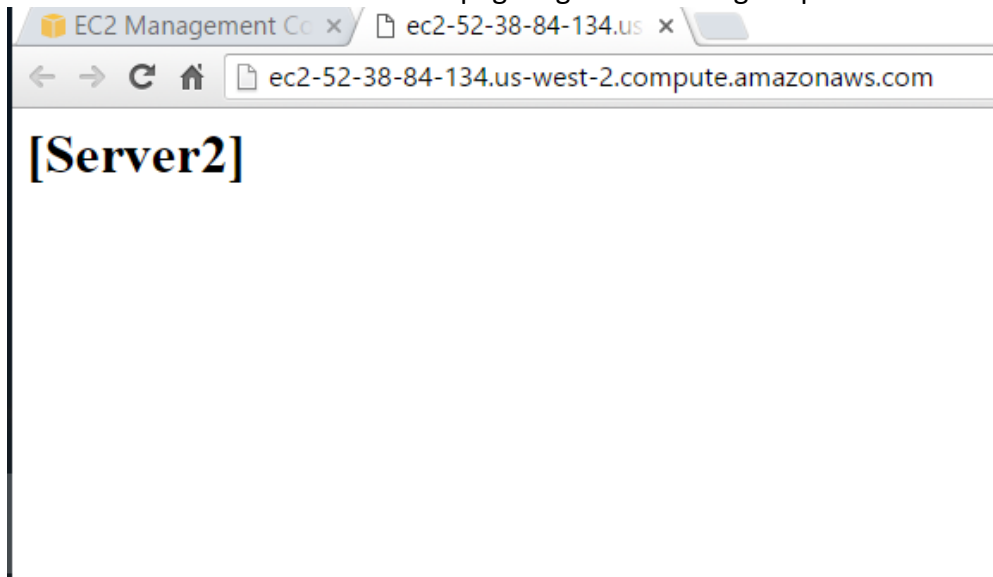
As all of the instances weights are same server by default select any instance and give the one by one other instances' output

Now, I execute curl ec2-52-38-84-134.us-west-2.compute.amazonaws.com and this curl command distribute traffic among the servers.

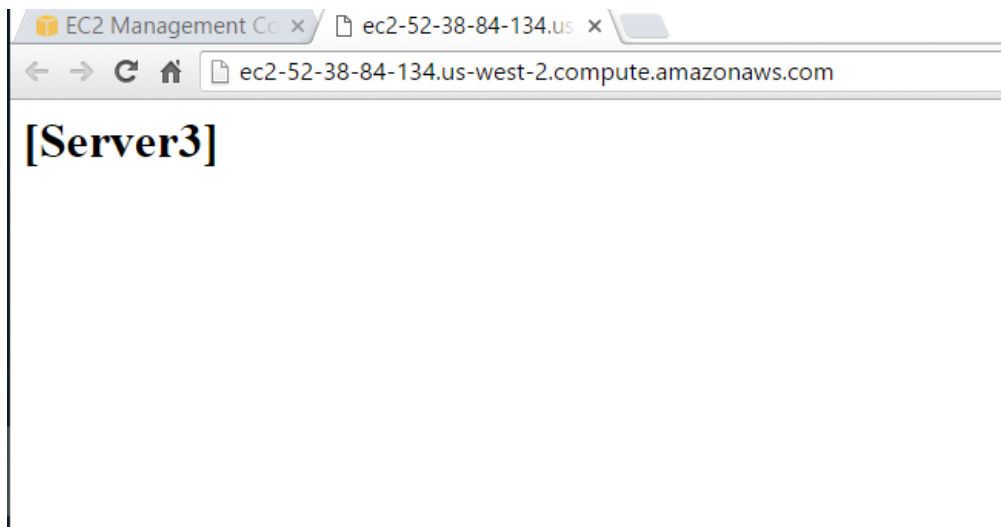
Now, I execute this load balancer in browser then it's give following output



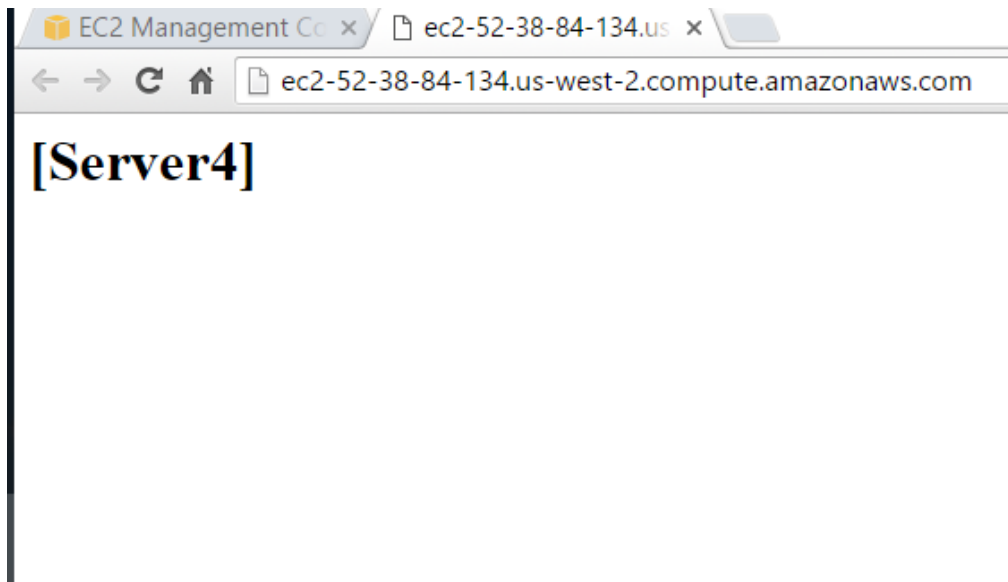
Now when I refresh the same web page it gives following output.



Again I refresh the same web page and it gives following output.

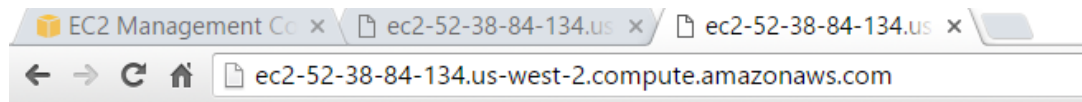


Again I refresh the same web page and it gives following output

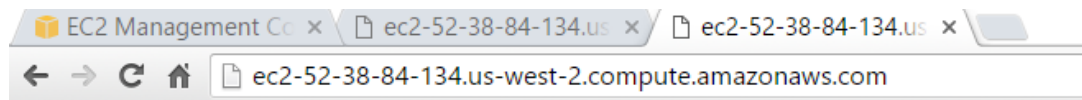


Here, in this scenario I give different weight 1,2,3,4 to server.

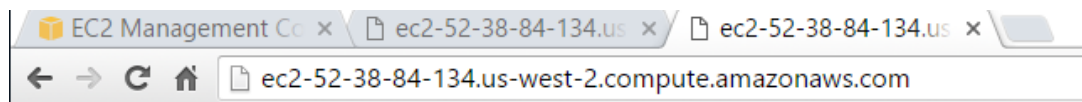
```
ec2-user@ip-172-31-35-243:~  
events {  
worker_connections 768;  
}  
http {  
upstream myapp {  
#ip_hash;  
server ec2-52-34-1-31.us-west-2.compute.amazonaws.com weight=1;  
server ec2-52-27-133-122.us-west-2.compute.amazonaws.com weight=2;  
server ec2-52-38-236-64.us-west-2.compute.amazonaws.com weight=3;  
server ec2-52-38-225-253.us-west-2.compute.amazonaws.com weight=4;  
}  
server {  
listen 80;  
server_name myapp.com;  
location / {  
proxy_pass http://myapp;  
}  
}  
}  
  
~  
-- INSERT --
```



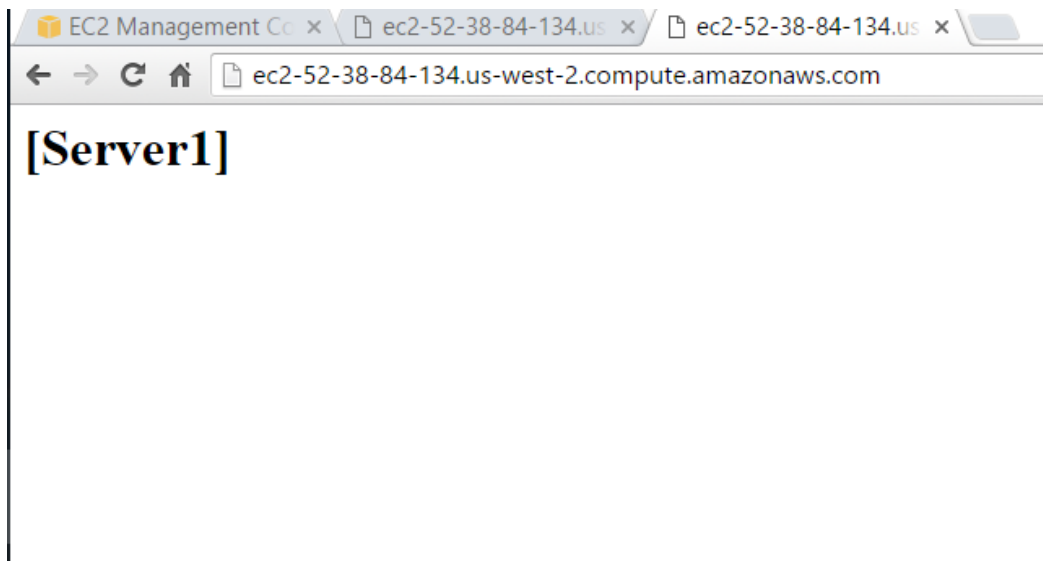
[Server4]



[Server3]



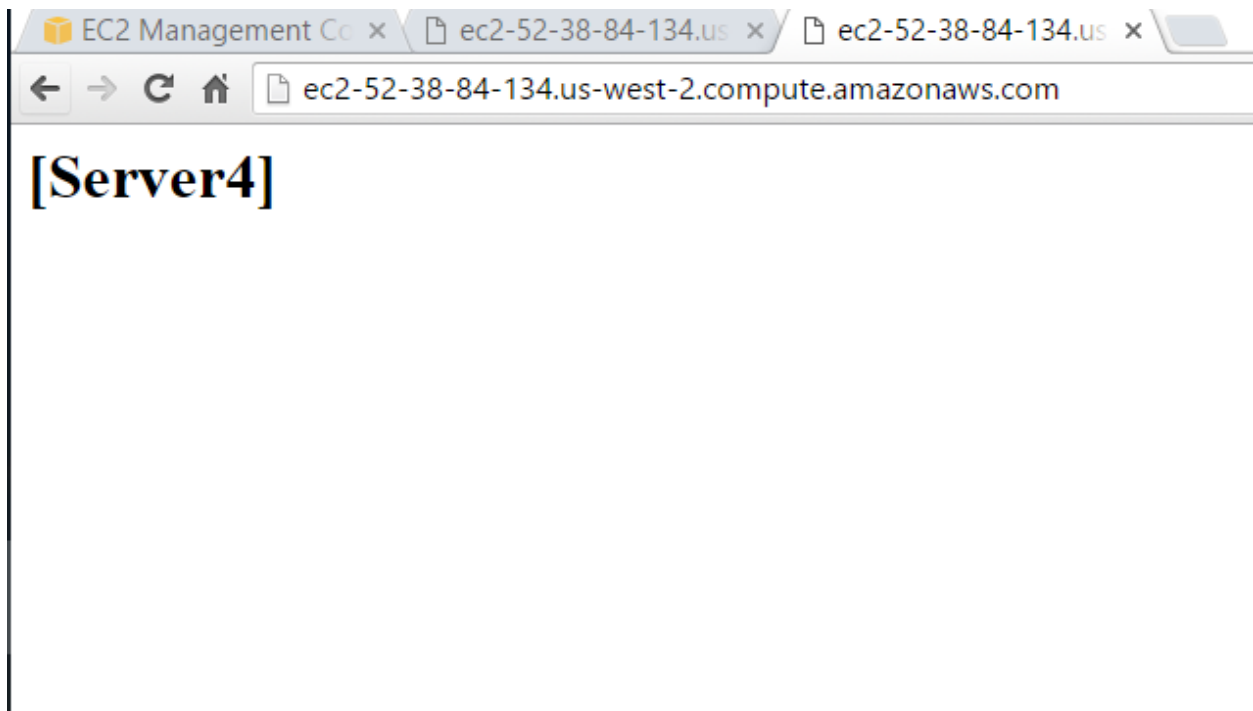
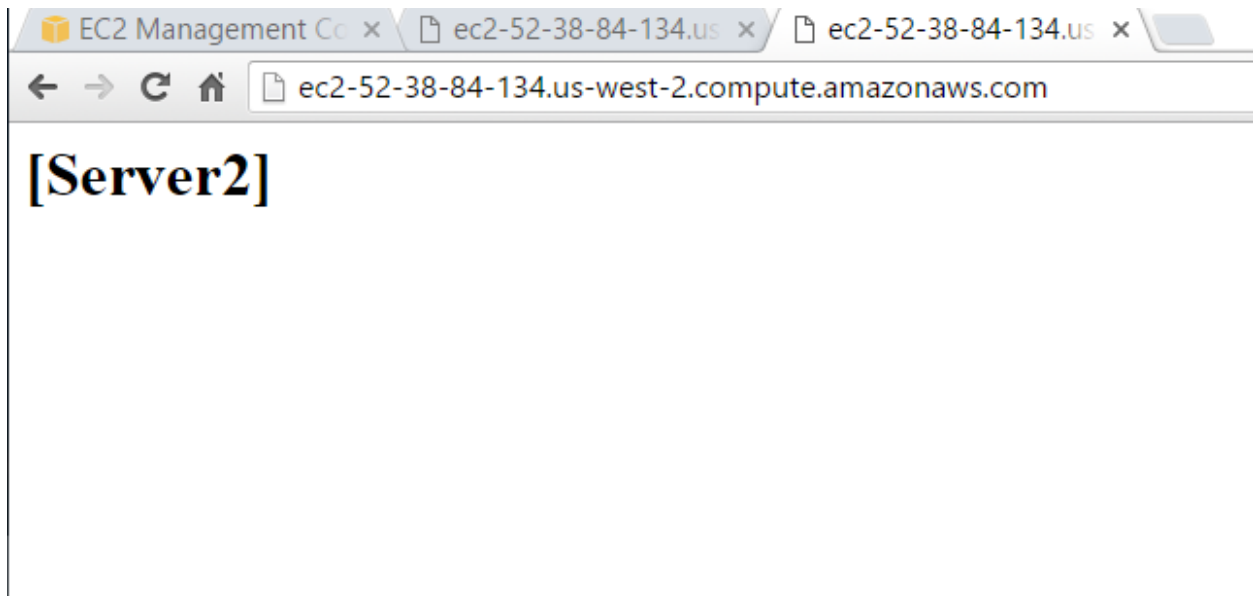
[Server2]

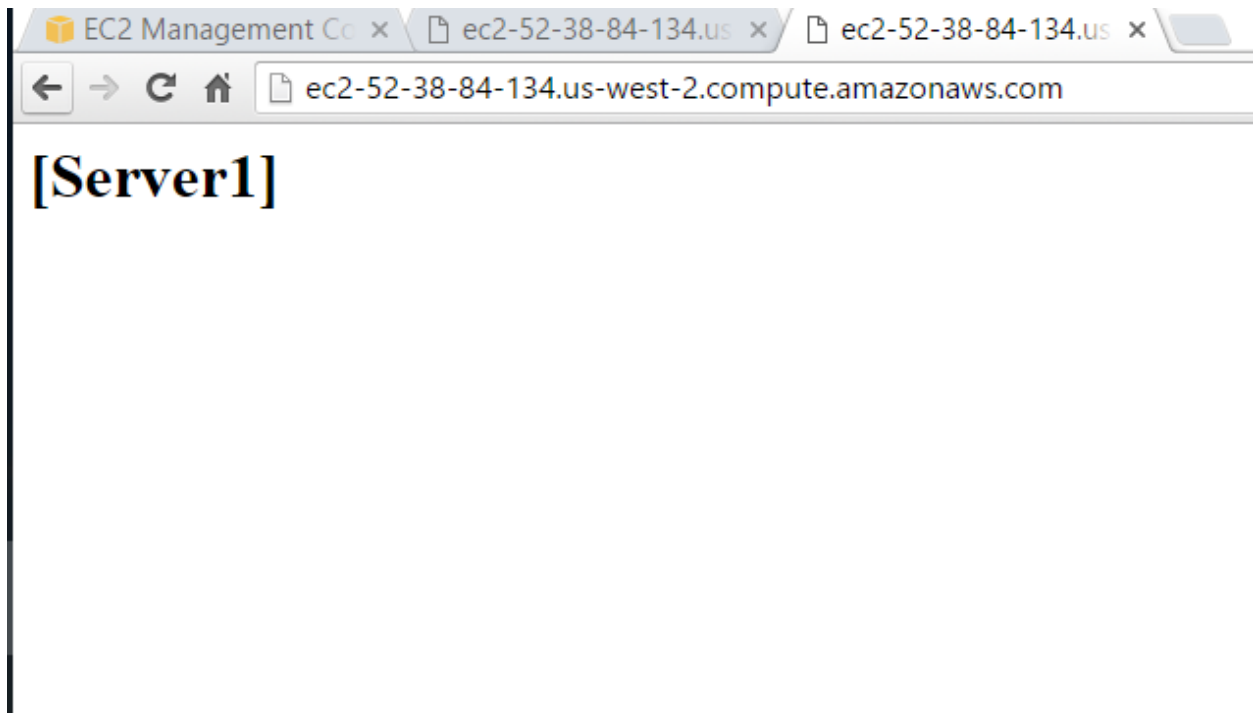


In this scenario I give weight 2 to the server number 2 and 4 and I give weight 1 to server 1 and 3.

```
ec2-user@ip-172-31-35-243:~  
events {  
worker_connections 768;  
}  
http {  
upstream myapp {  
#ip_hash;  
server ec2-52-34-1-31.us-west-2.compute.amazonaws.com weight=1;  
server ec2-52-27-133-122.us-west-2.compute.amazonaws.com weight=2;  
server ec2-52-38-236-64.us-west-2.compute.amazonaws.com weight=1;  
server ec2-52-38-225-253.us-west-2.compute.amazonaws.com weight=2;  
}  
server {  
listen 80;  
server_name myapp.com;  
location / {  
proxy_pass http://myapp;  
}  
}  
}  
~  
:wg
```

When I execute this load balancer in web browser it display first server 2 and then when refresh the page it displays server 4.
After that continuously refresh pages then I get output for server 3 and then get output for server 1

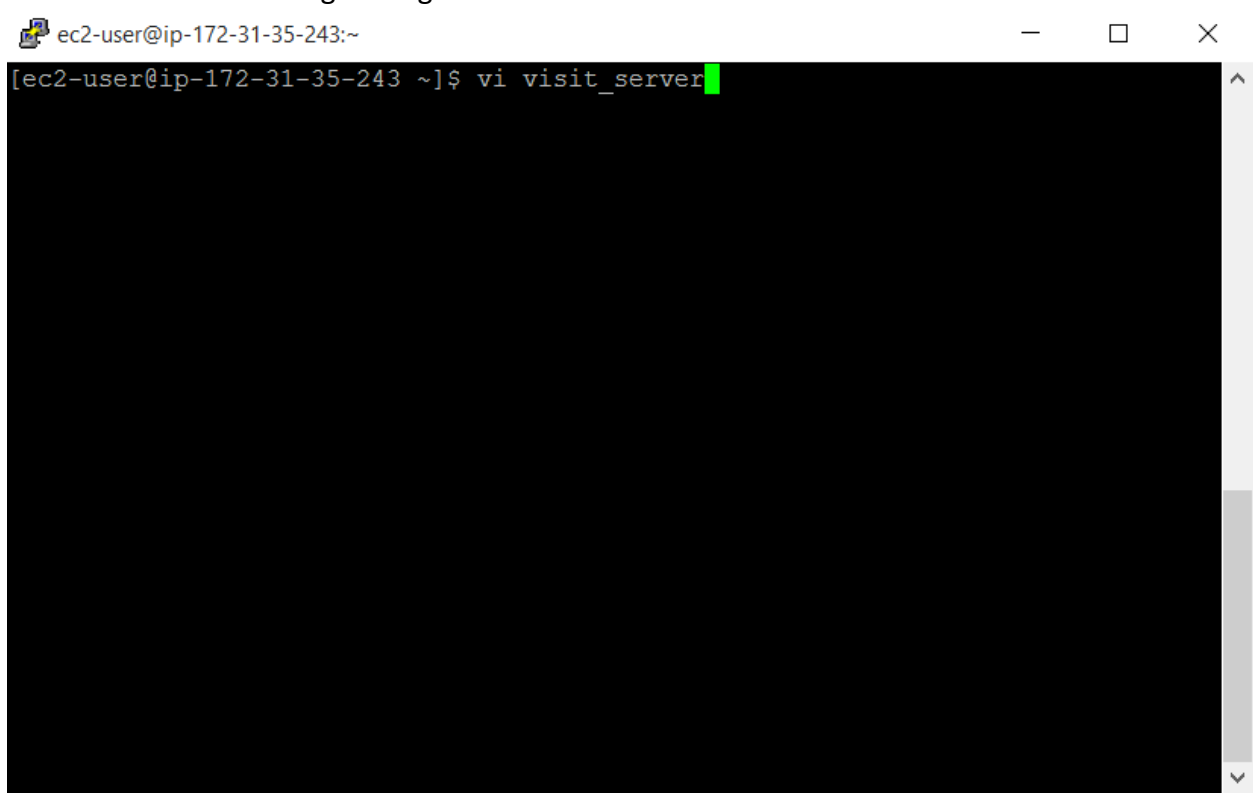




Step 4: Collect the information on visits to your site

You can use the *visit server* tool, provided in the Appendix, or write your own tool, to track the distribution of the load. The tool visits the cluster 2000 times and returns the visit count on each server.

Collect the information on visits on my site using visit server tool and apply the given 3 scenario
For this first I made visit_server named file and then typed visit server program.
These shown in following two figures

A terminal window with a title bar showing 'ec2-user@ip-172-31-35-243:~'. The terminal content shows the command '[ec2-user@ip-172-31-35-243 ~]\$ vi visit_server' followed by a green cursor. The terminal background is black, and the text is white. The window has standard Linux window controls (minimize, maximize, close) in the top right corner.

```
ec2-user@ip-172-31-35-243:~  
[ec2-user@ip-172-31-35-243 ~]$ vi visit_server
```

I have replaced the code with given Ruby code in homework.

```
ec2-user@ip-172-31-35-243:~  
#!/usr/bin/env ruby  
#  
# This program is used for collecting web server visit information.  
#  
# Author: A. Genius  
#  
require 'optparse'  
def print_usage  
  puts "USAGE: visit_server -d DNS_NAME"  
  exit  
end  
  
# add option switch and handler  
options = {}  
option_parser = OptionParser.new do |opts|  
  
  # DNS_NAME argument  
  options[:dns_name] = nil  
  opts.on('-d', '--dns-name DNS_NAME', 'Specify a DNS NAME') { |dns_name| options[:dns_name] = dns_name }  
  
  # HELP argument  
  options[:help] = nil  
end  
-- INSERT --
```

With the `chmod` command we can change the access permissions of files and folders.
For example **`chmod 770 visit_server`**

```
ec2-user@ip-172-31-35-243:~  
[ec2-user@ip-172-31-35-243 ~]$ vi visit_server  
[ec2-user@ip-172-31-35-243 ~]$ ls  
visit_server  
[ec2-user@ip-172-31-35-243 ~]$ chmod 770 visit_server
```

Then run `ls -l` command to traverse subdirectories to create a list of files with the pathname which gives following information:

mode

A one byte entry type followed by three bytes each of Owner, Group, and Other permissions which is `rw-rw-r--` in following output.

link count

A count of the number of symbolic links to a file which is 1 in following output.

owner

The login or user name that owns a file or directory which is `ec2-user` in following output.

group

The group name with which permissions are associated which is `ec2-user` in following output.

size

The size (in bytes) of a file or directory which is 1356 in following output.

date

Date of last modification (month and day, provided in the form `mmm nn`) which is `Apr 13` in following output.

time

Time of last modification, provided in the form `hh:mm` (for files greater than six months old, `hh:mm` is replaced with the year in which the file was last modified, provided as `nnnn`) which is `21:29` in following output.

name

The name of a file or directory which is `visit_server` in following output.

```
ec2-user@ip-172-31-35-243:~  
[ec2-user@ip-172-31-35-243 ~]$ vi visit_server  
[ec2-user@ip-172-31-35-243 ~]$ ls  
visit_server  
[ec2-user@ip-172-31-35-243 ~]$ chmod 770 visit_server  
[ec2-user@ip-172-31-35-243 ~]$ ls -l  
total 4  
-rwxrwx--- 1 ec2-user ec2-user 1356 Apr 13 21:29 visit_server  
[ec2-user@ip-172-31-35-243 ~]$
```

Here, I execute this command for SCENARIO 1 in which all the server have same weight 1.

```
ec2-user@ip-172-31-35-243:~  
events {  
worker_connections 768;  
}  
http {  
upstream myapp {  
#ip_hash;  
server ec2-52-34-1-31.us-west-2.compute.amazonaws.com weight=1;  
server ec2-52-27-133-122.us-west-2.compute.amazonaws.com weight=1;  
server ec2-52-38-236-64.us-west-2.compute.amazonaws.com weight=1;  
server ec2-52-38-225-253.us-west-2.compute.amazonaws.com weight=1;  
}  
server {  
listen 80;  
server_name myapp.com;  
location / {  
proxy_pass http://myapp;  
}  
}  
}  
  
~  
-- INSERT --
```


Next execute the `visit_server -d [MY LOAD BALANCER DNS NAME]` for the SCENARIO 3 in which server 1 and 3 has weight 1; and server 2 and 4 has weight 2.

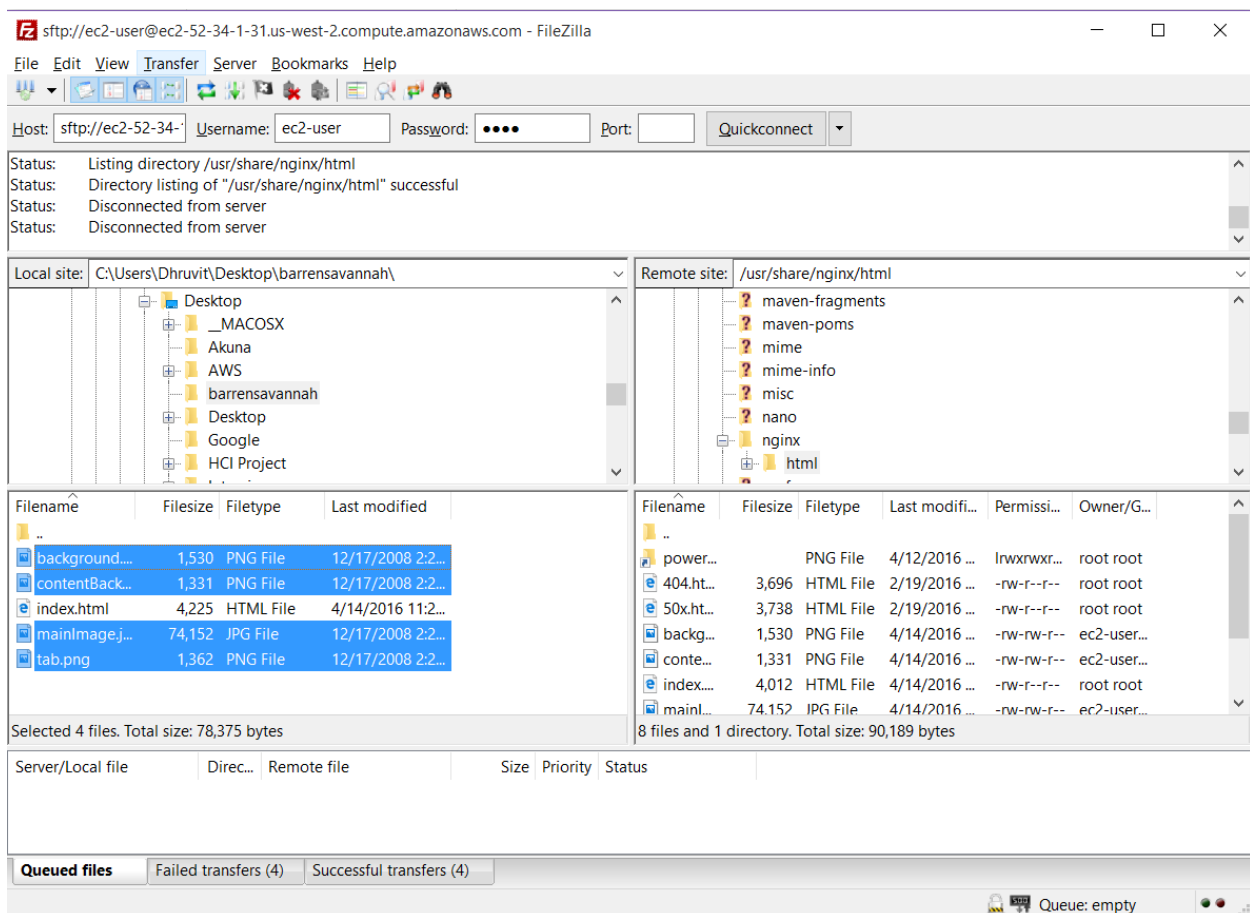
```
ec2-user@ip-172-31-35-243:~  
events {  
    worker_connections 768;  
}  
http {  
    upstream myapp {  
        #ip_hash;  
        server ec2-52-34-1-31.us-west-2.compute.amazonaws.com weight=1;  
        server ec2-52-27-133-122.us-west-2.compute.amazonaws.com weight=2;  
        server ec2-52-38-236-64.us-west-2.compute.amazonaws.com weight=1;  
        server ec2-52-38-225-253.us-west-2.compute.amazonaws.com weight=2;  
    }  
    server {  
        listen 80;  
        server_name myapp.com;  
        location / {  
            proxy_pass http://myapp;  
        }  
    }  
}
```


- During this assignment I watched that when I prevent occurrences from running mode and afterward begin it again then Public DNS Name changed inevitably.
- Second thing is that, after configuring load balancer for every yield I simply need to execute load balancer instance in browser.

In the wake of completing every one of the steps I make little site using html. In this code I used assorted label like title, div, head, body, ul, h1, h2, p, html and other particular tag.

I put this code on Server 1 (instance of Amazon) and run the load balancer record after change outline of load balancer with the objective that piles are flowed in this site and numbers visit server fittingly.

I used FileZilla s/w to transfer my own website to all four instances.



I have put that code on all the server and when I refreshed load balancer I got following output.

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Server_1

Cloud computing, also on-demand computing, is a kind of Internet-based computing that provides shared processing resources and data to computers and other devices on demand. It is a model for enabling ubiquitous, on-demand access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications and services), which can be rapidly provisioned and released with minimal management effort. Cloud computing and storage solutions provide users and enterprises with various capabilities to store and process their data in third-party data centers. It relies on sharing of resources to achieve coherence and economy of scale, similar to a utility (like the electricity grid) over a network.

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Server_2

Cloud computing, also on-demand computing, is a kind of Internet-based computing that provides shared processing resources and data to computers and other devices on demand. It is a model for enabling ubiquitous, on-demand access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications and services), which can be rapidly provisioned and released with minimal management effort. Cloud computing and storage solutions provide users and enterprises with various capabilities to store and process their data in third-party data centers. It relies on sharing of resources to achieve coherence and economy of scale, similar to a utility (like the electricity grid) over a network.

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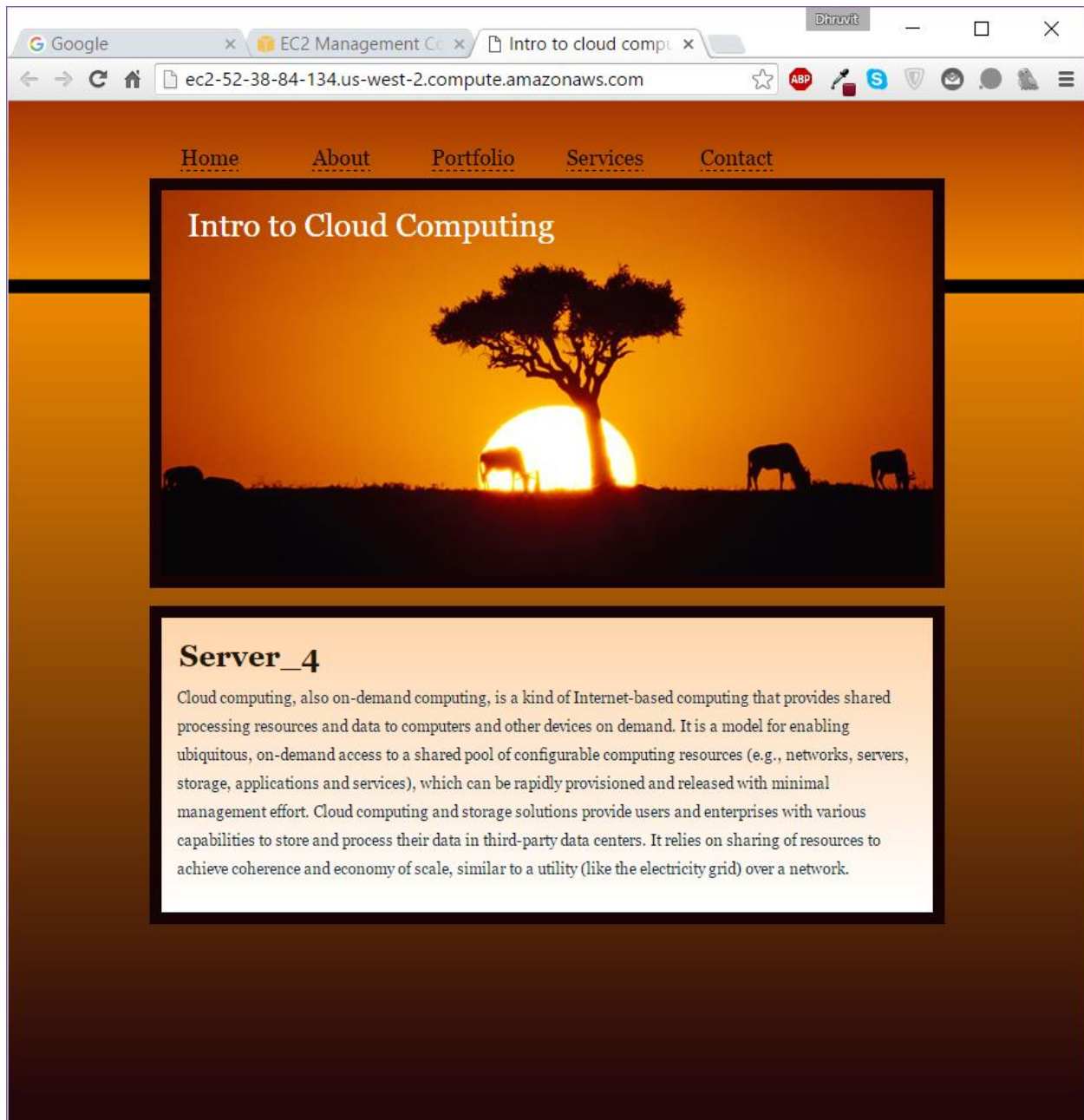
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Intro to Cloud Computing



Server_3

Cloud computing, also on-demand computing, is a kind of Internet-based computing that provides shared processing resources and data to computers and other devices on demand. It is a model for enabling ubiquitous, on-demand access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications and services), which can be rapidly provisioned and released with minimal management effort. Cloud computing and storage solutions provide users and enterprises with various capabilities to store and process their data in third-party data centers. It relies on sharing of resources to achieve coherence and economy of scale, similar to a utility (like the electricity grid) over a network.



References:

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/install-software.html>

<http://angus.readthedocs.org/en/2014/amazon/transfer-files-between-instance.html>