APACHE MODULES PROJECT

Objective:

This project covers the following three tasks:

1) By default, when user browses for Apache ServerName, a get index.html file is printed in the browser even if no filename is mentioned in the URL. The task is to change that behaviour and make default index file as test.html.

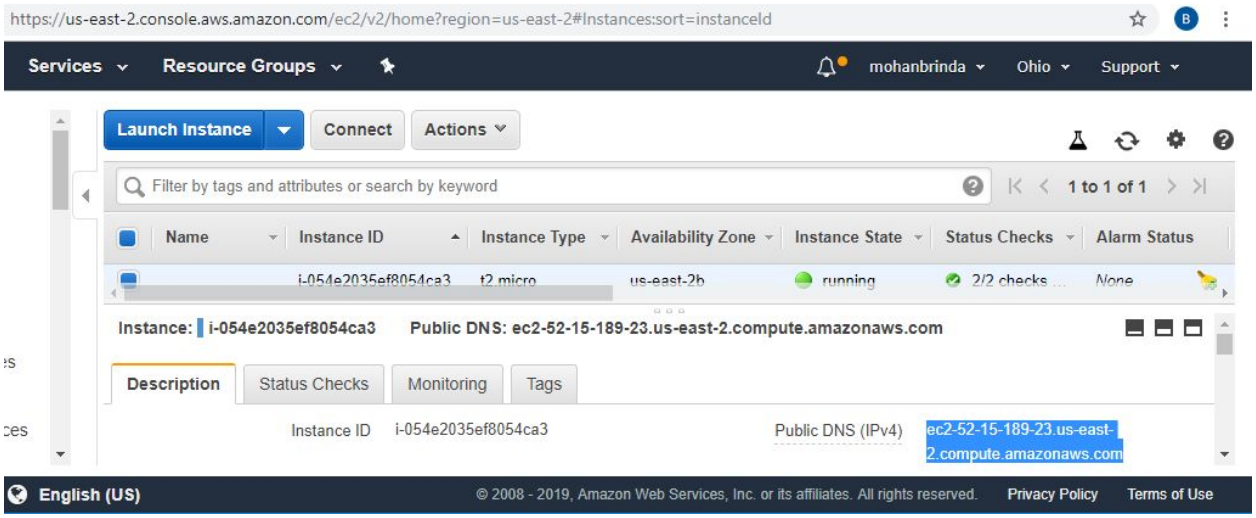
2) Configure Apache in such a way that if someone browses for a page in apache (eg: test1.html), their browser redirects them to a different page. (eg: test2.html) (Tip: Use rewrite module in Apache)

3) Enable Password Authentication in Apache, so that when someone browse your website, they get a popup asking them to enter a username and password, before apache will display pages to them on their browser (Tip: use module auth_basic)

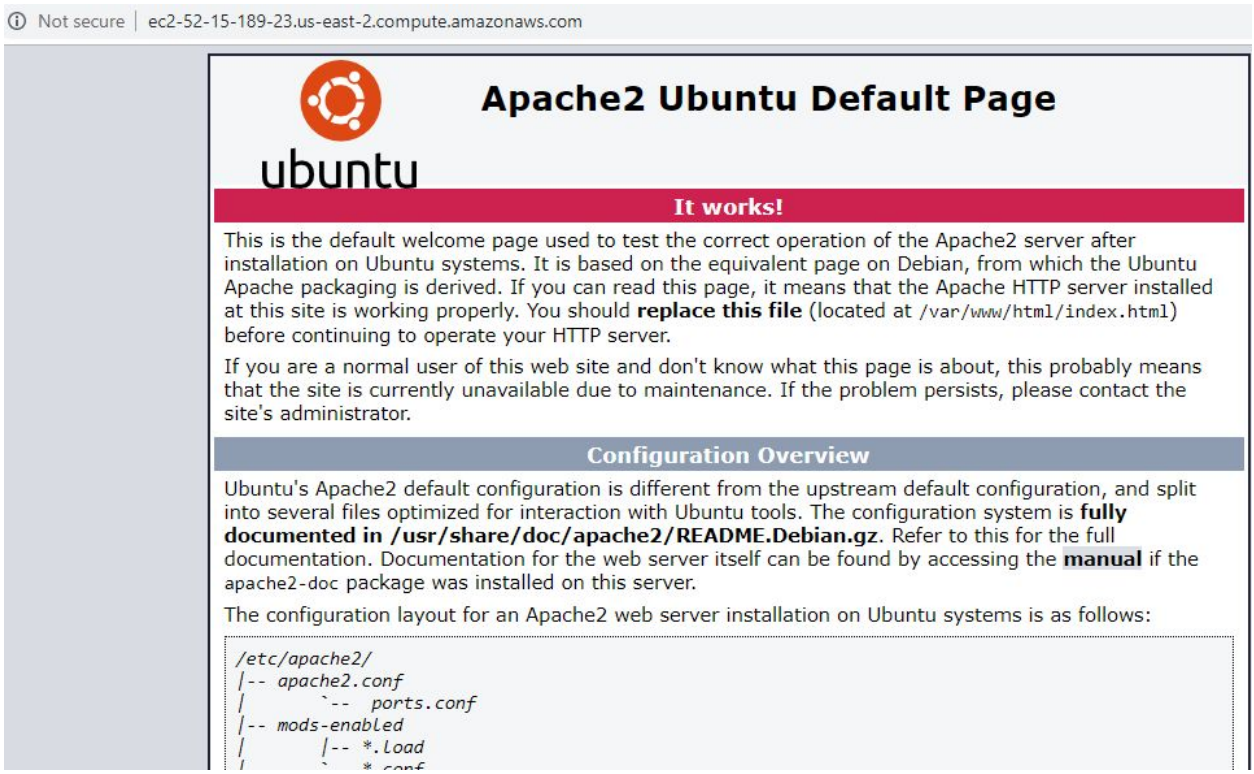
Apache modules

1) By default, when you browse for Apache ServerName, you get index.html printed in your browser even if you don't mention the file name in URL. Change that behaviour and make default index file as test.html.

The Ec1 machine can be accessed via the following url
Ec2-52-15-189-23.us-east-2.compute.amazonaws.com or 52.15.189.23

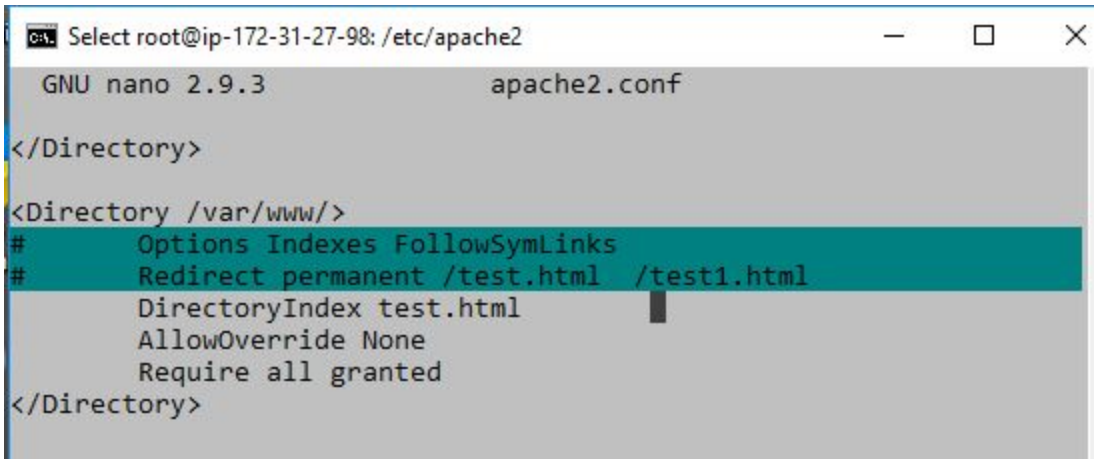


This is the default webpage before the changes

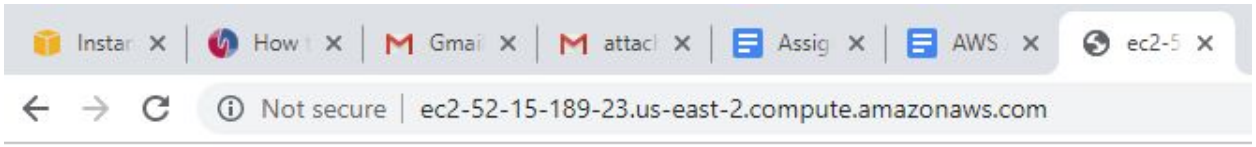


Made the following changes to the apache2.conf file

Added a new line Directory Index test.html file
Commented the Options Indexes FollowSymlinks



After the changes default webpage loaded is the test file.html please see screenshot below after making default index.html to test.html



2) Configure Apache in such a way that if someone browse for a page in apache (eg: test1.html), their browser redirect them to a different page. (eg: test2.html) (Tip: Use rewrite module in Apache)

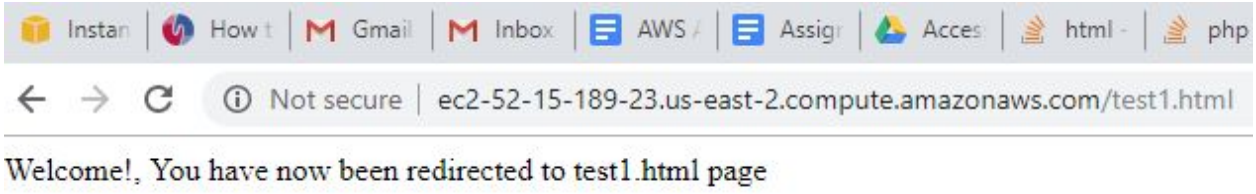
The above assignment has been implemented in two different ways

Using a) redirect command in the apache2.conf file and b) using rewrite module in Apache

a) Added the following code to the apache2.conf

Redirect permanent /test.html /test1.html

When test.html is request it automatically redirects to test1.html file

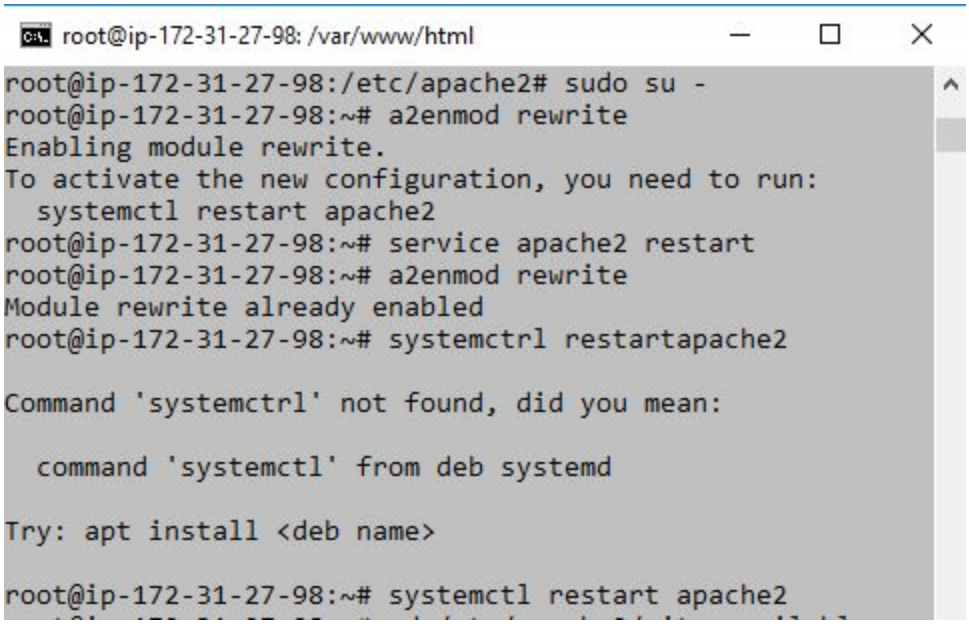


You can acess the instance at

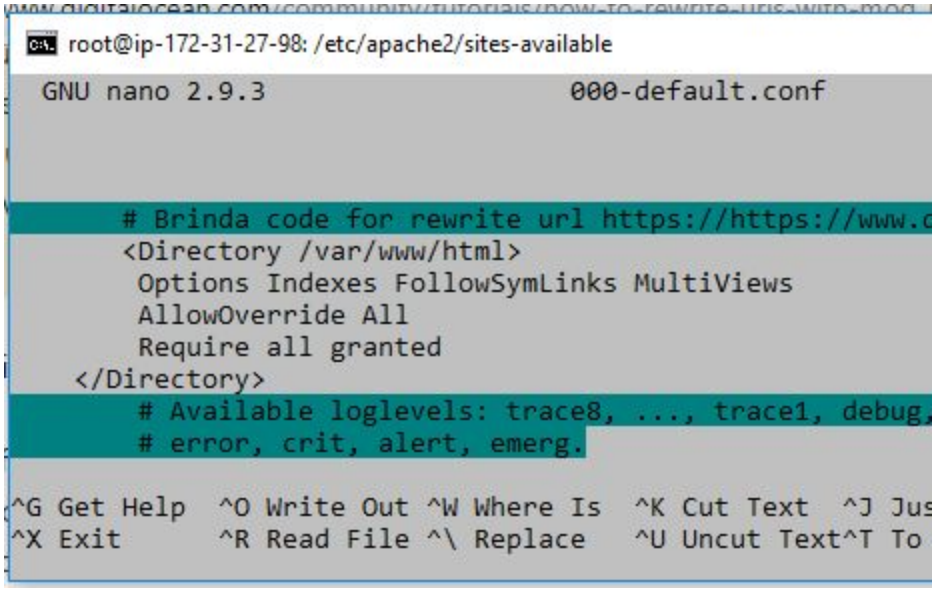
Ec2-52-15-189-23.us-east-2.compute.amazonaws.com

b) used the apache rewrite module in apache..

STEP 1: Enabling mod rewrite



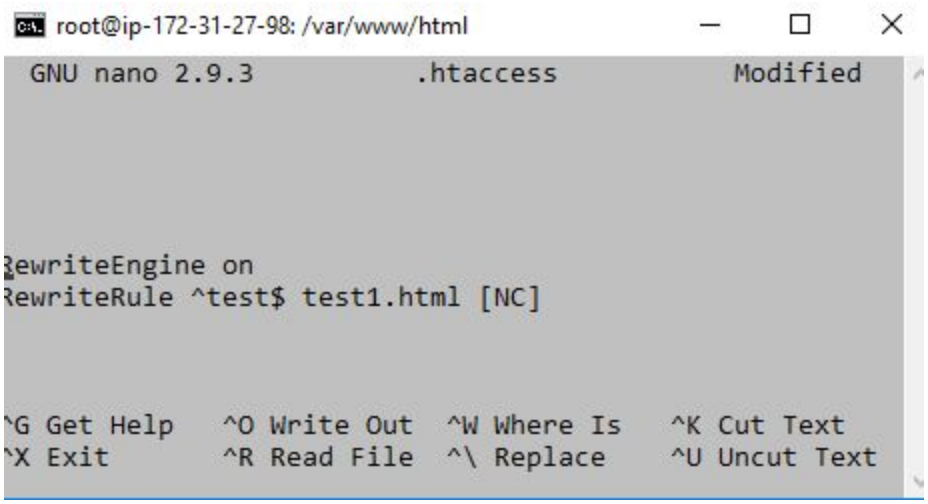
Step 2: Setting up .htaccess file which required some code to be added to the default.conf file

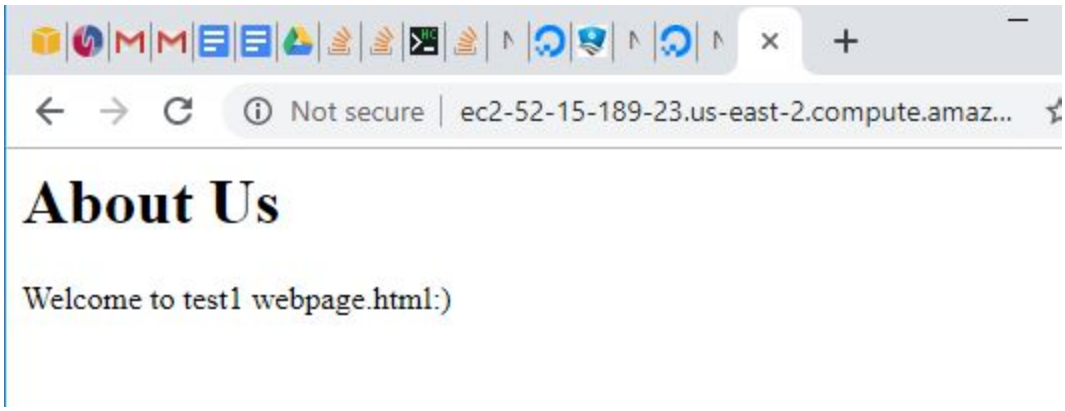


Step 3: Save and close the file and restart apache using

systemctl restart apache2

Step 4: Created .htaccess file with the following code to activate the rewrite engine



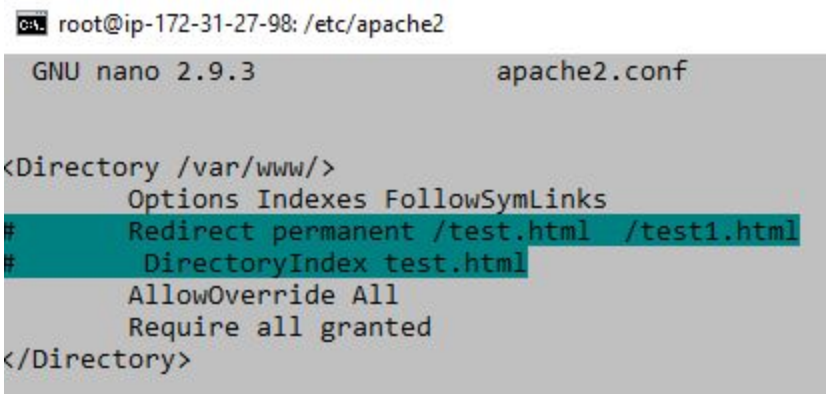


3) Enable Password Authentication in Apache, so that when someone browse your website, they get a popup asking them to enter a username and password, before apache will display pages to them on their browser (Tip: use module auth_basic)

Step1:

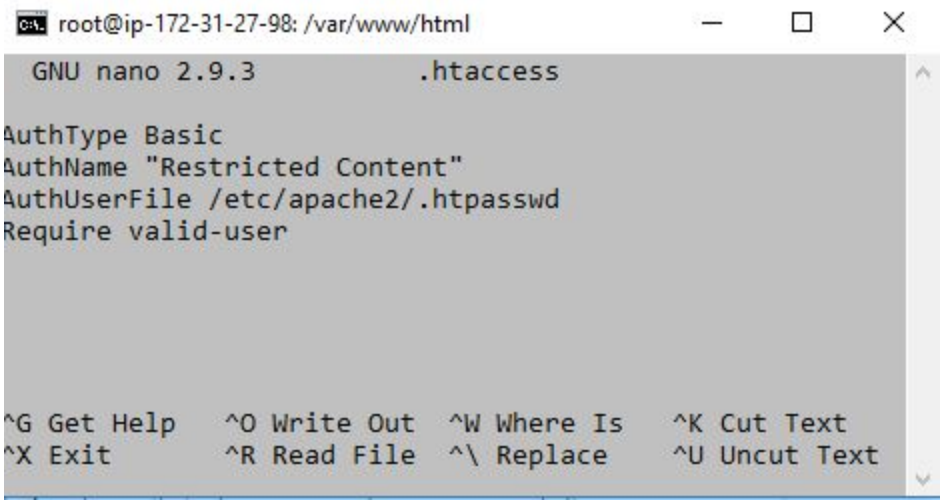
Make changes to the apache2.conf file as follows

Change → Allow override All



Step2:

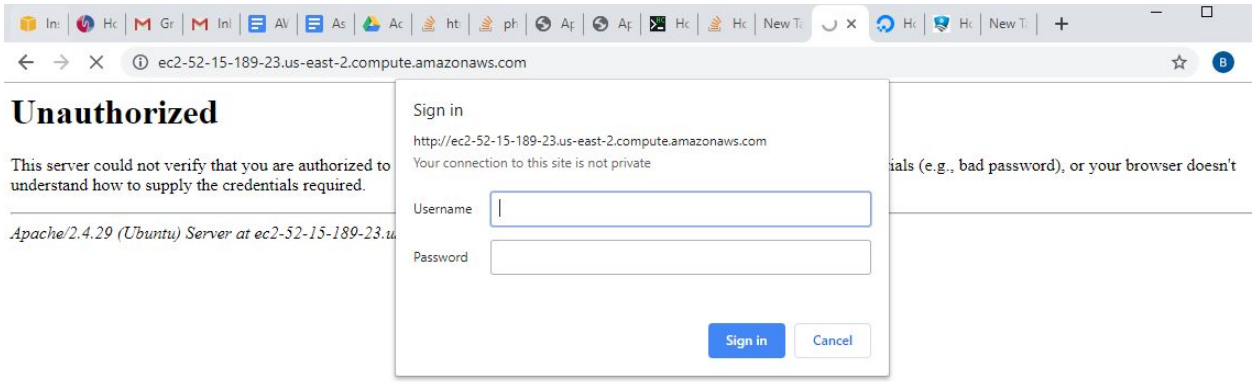
Create .htaccess file to the directory we would like to restrict access and use the authbasic code



Step 3:

restart apache2

Now try to access the instance, I get the following webpage


ec2-52-15-189-23.us-east-2.compute.amazonaws.com
Unauthorized
This server could not verify that you are authorized to
ials (e.g., bad password), or your browser doesn't understand how to supply the credentials required.
Apache/2.4.29 (Ubuntu) Server at ec2-52-15-189-23.u
Sign in
http://ec2-52-15-189-23.us-east-2.compute.amazonaws.com
Your connection to this site is not private
Username
Password
Sign in
Cancel