Demo – Deploy and Serve two Static Websites

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Introduction

In the previous demo, we installed Apache and configured it to listen and serve a static website on port 80. In this demo, on the same machine, we are going to:

- Create a second HTML page.

- Deploy the HTML page.

- Configure the webserver to serve the application on port 81.

The webpage to be deployed is nothing but a simple HTML page:

```
<!DOCTYPE html>
<html>
    <head>
        <title>My Second Application</title>
    </head>
    <body>
        <p>Neither do I.</p>
    </body>
</html>
```

Solution

Application Deployment

Perform the following steps to deploy the application:

```
# Create a directory
sudo mkdir /var/www/mysecondapp
# Change the owership to www-data
sudo chown -R www-data:www-data /var/www/mysecondapp
# Change the directory permissions
sudo chmod -R 755 /var/www/mysecondapp
# Create the index.html file and paste the code in it
sudo nano /var/www/mysecondapp/index.html
# Create the log directory
sudo mkdir /var/log/mysecondapp
# Change the ownership of the directory
sudo chown -R www-data:www-data /var/log/mysecondapp/
```

Webserver Configuration

a. Create the virtual host file: `sudo nano /etc/apache2/sites-available/mysecondapp.conf`

b. Paste the following:
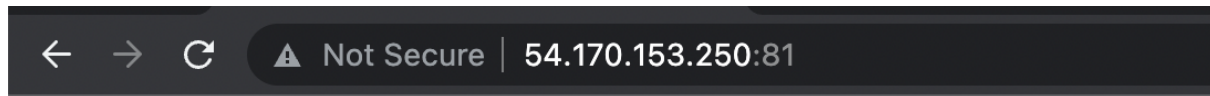
```
<VirtualHost *:81>
    DocumentRoot /var/www/mysecondapp
    ErrorLog /var/log/mysecondapp/error.log
    CustomLog /var/log/mysecondapp/requests.log combined
</VirtualHost>
```

Enable the configuration:

```
# Enable the site configuration
sudo a2ensite mysecondapp.conf
# Test the configuration
sudo apache2ctl configtest
# Restart apache
sudo systemctl restart apache2
```

1. Performing a request on port 81 will not load the application:

   a. Modify the Security Group to include another inbound rule allowing requests on port 81 from anywhere.

   b. Instruct Apache to listen port 81:

      i. Edit configuration file: `sudo nano /etc/apache2/ports.conf`

      ii. Add the port: `listen 81`

      iii. Restart apache: `sudo service apache2 restart`

2. Perform a request on port 81.

Neither do I.