7.5. LABS 1



## Exercise 7.2: Create a new virtual network interface and serve a different document root from the new interface

NOTE: The original html document should also be accessible from the original IP address.

- 1. Create an IP alias in the network 192.168.153.0/24.
- 2. Serve a file indicating this is an IP based virtual machine. The file should be <code>/ipvhost/index.html</code> and **only** available on the newly defined IP address:

## Solution 7.2

1. Create a temporary IP alias for your main Ethernet address:

```
# ip addr add 192.168.153.X/24 dev eth0
```

Where X is a number no one else in the same LAN is using. Add this new address to /etc/hosts with the host name of ipvhost.example.com for ease of use later.

2. Create a new directory /ipvhost/

```
# mkdir /ipvhost/
```

3. Create an /ipvhost/index.html file.

```
# vi /ipvhost/index.html
```

## The file should contain following:

```
<html>
<head>
    <title>This is the IP vhost</title>
</head>
<body>
    <h1>This is my IP vhost</h1>
</body>
</html>
```

4. Verify that SELinux permissions (if enabled) are correct.

```
# chcon -R --reference=<YOUR-DOCUMENT-ROOT> /ipvhost/
```

5. Create a new IP based virtual host definition. Add this stanza to the suggested file as listed below:

```
<VirtualHost 192.168.153.X:80>
    DocumentRoot /ipvhost/
    ServerName ipvhost.example.com
    <Directory /ipvhost/>
        Options Indexes FollowSymLinks
        AllowOverride None
        Require all granted
        </Directory>
</VirtualHost>
```

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• On CentOS use the file

/etc/httpd/conf.d/ipvhost.conf

• On OpenSUSE use the file

/etc/apache2/vhosts.d/ipvhost.conf

• On **Ubuntu** use the file

/etc/apache2/sites-enabled/ipvhost.conf

6. Restart apache

# systemctl restart httpd

NOTE: On **Ubuntu** and **OpenSUSE** the service name is apache2.

7. Test your new IP vhost as well as the original host.

