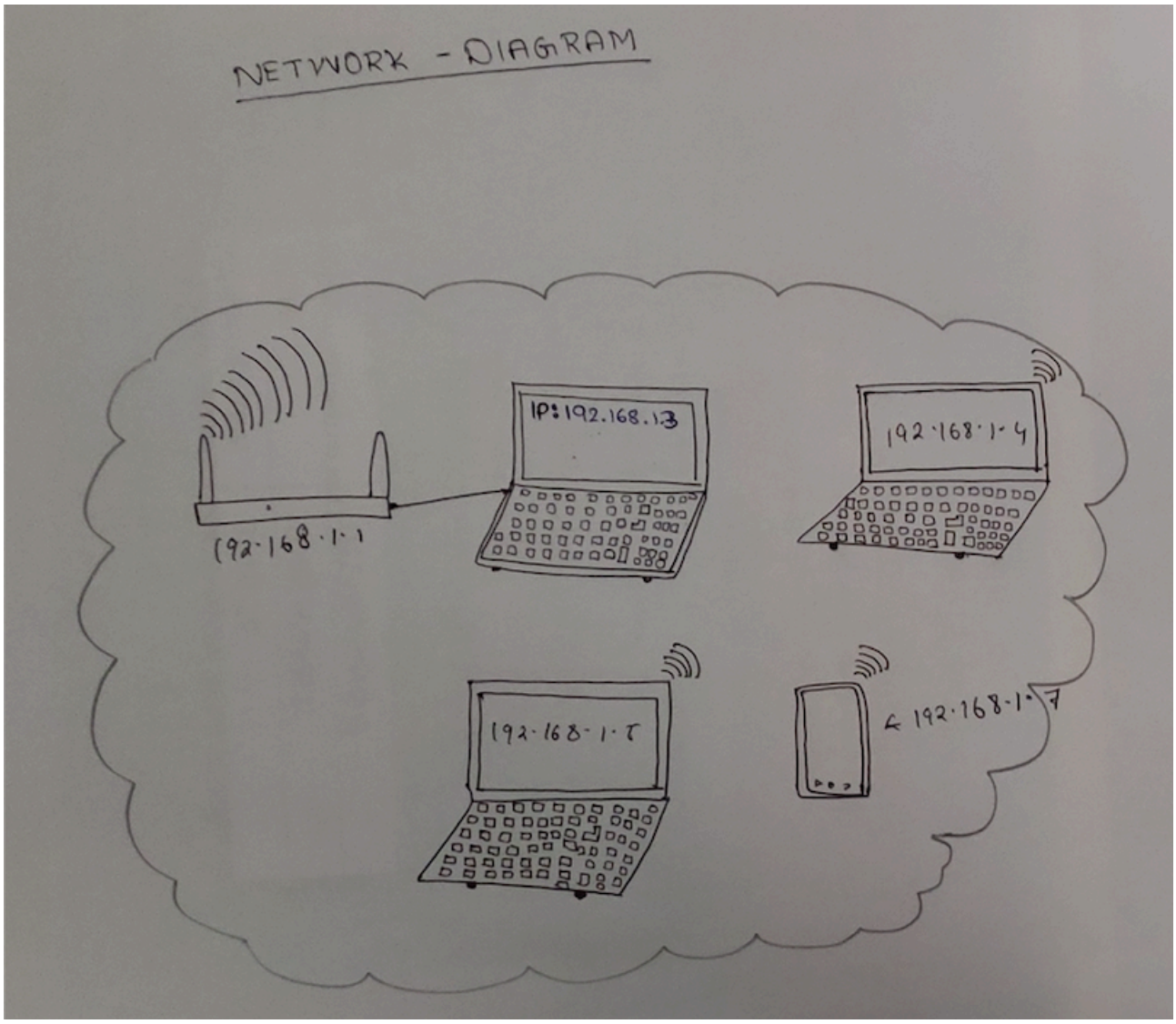
Network Design



Abstract

We will be establishing a INTRANET using apache web server where we can store websites for internal purpose and we can share the data among all the users in the network.

Introduction:

INTRANET is a service we can setup here to share a common communication channel for the all the devices attached to the network. We will be using intranet for sharing a common website to the all the nodes connected to it.

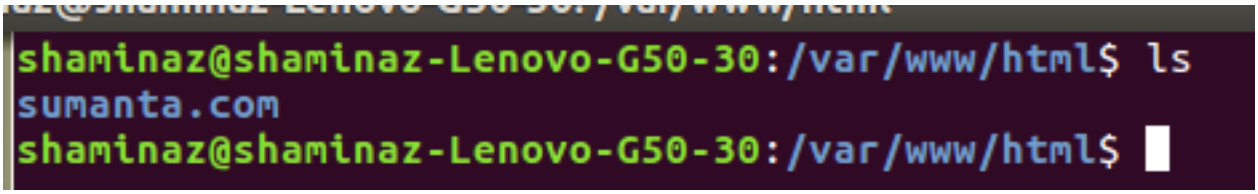
Process:

Step 1: Update the system

Step 2: install apache (sudo apt-get install apache2)

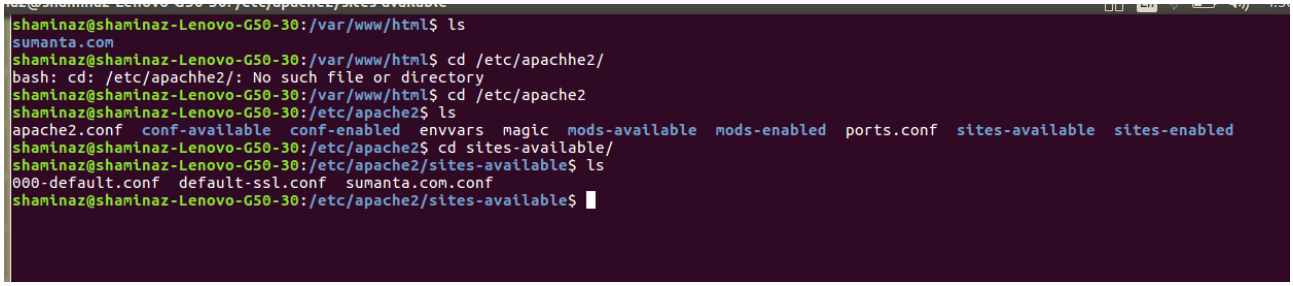
Step 3: Verify the installation by typing localhost in web browser. If installation is right it will display the home page of apache. If it is not showing please restart the apache server by using - (sudo service apache2 restart). Create a web directory inside var/www/sumanta.com

Command: mkdir -p /var/www/html/sumanta.com



Step 4: We will setup a network of 3 devices , all connected to the same local network using a Router. So server got an IP address I.e. 192.168.1.2

Step 5: Now our web server is set, we need setup our Virtual host i.e. website.
Cd /etc/apache2/sites-available



Now copy the default file into another file.

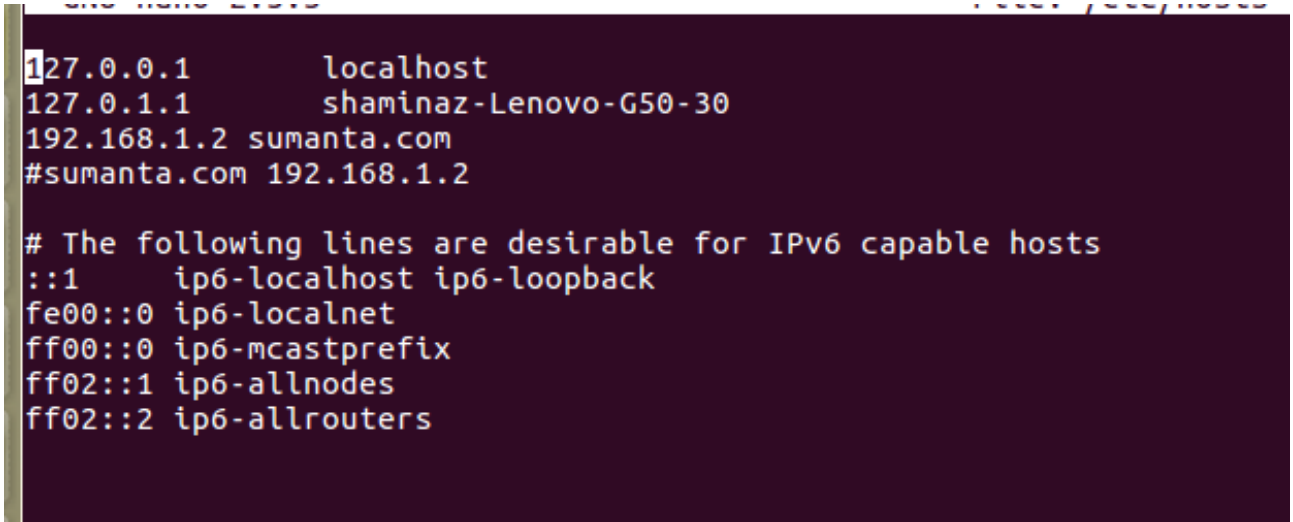
Cp 000-default.conf Sumanta.com.conf

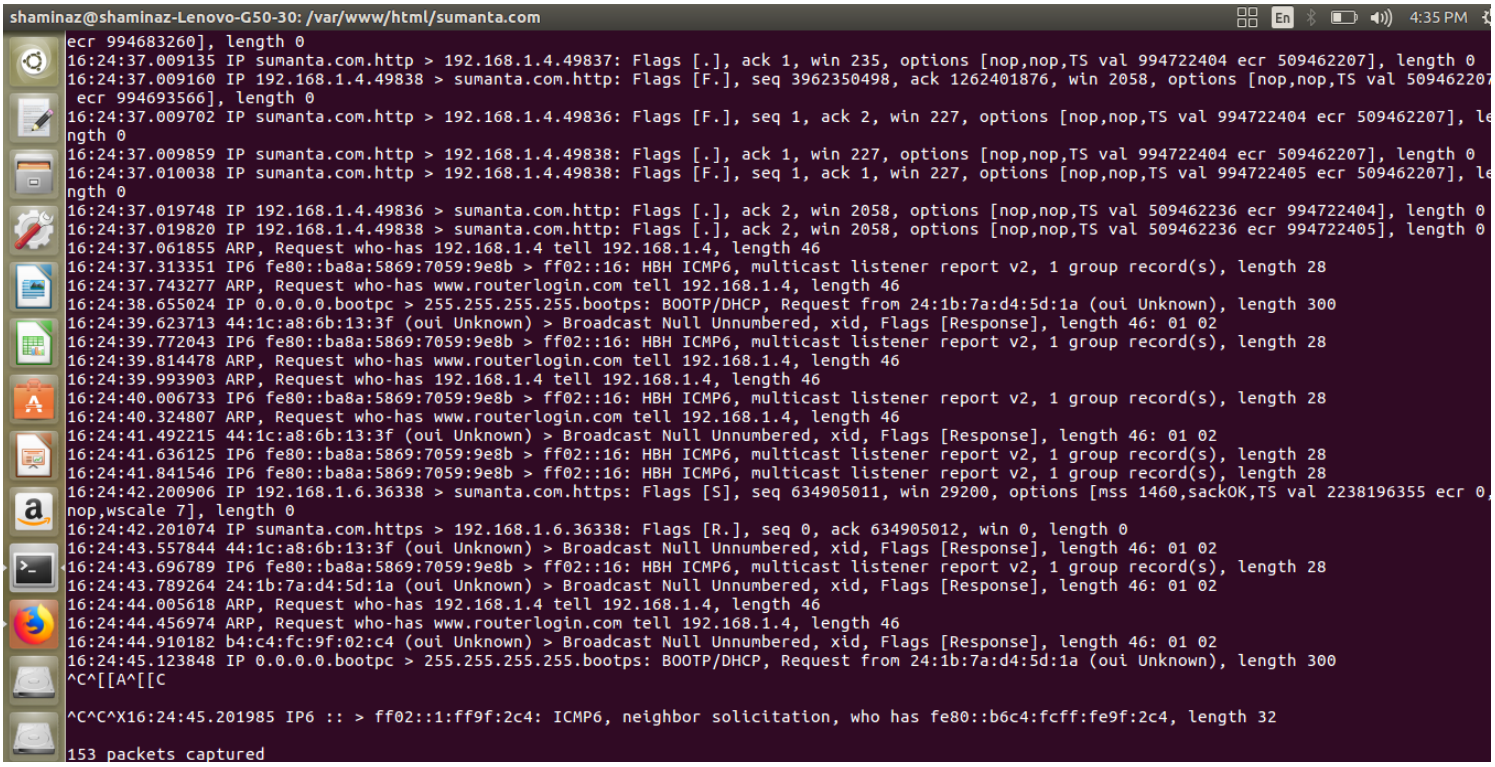
Now Edit the file and add these lines to it.
Save the file.

Step 6: MAP the domain to the host by editing host file

Sudo nano /etc/hosts

Here ip address is the address of the server machine.



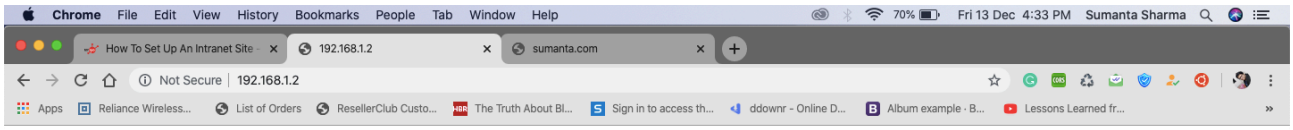



```
<VirtualHost *:80>
        # The ServerName directive sets the request scheme, hostname and port that
        # the server uses to identify itself. This is used when creating
        # redirection URLs. In the context of virtual hosts, the ServerName
        # specifies what hostname must appear in the request's Host: header to
        # match this virtual host. For the default virtual host (this file) this
        # value is not decisive as it is used as a last resort host regardless.
        # However, you must set it for any further virtual host explicitly.
        ServerName sumanta.com

        ServerAdmin webmaster@sumanta.com
        ServerAlias www.sumanta.com
        DocumentRoot /var/www/html/sumanta.com

        # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
        # error, crit, alert, emerg.
        # It is also possible to configure the loglevel for particular
        # modules, e.g.
        #LogLevel info ssl:warn

        ErrorLog ${APACHE_LOG_DIR}/error.log
        CustomLog ${APACHE_LOG_DIR}/access.log combined

        # For most configuration files from conf-available/, which are
        # enabled or disabled at a global level, it is possible to
        # include a line for only one particular virtual host. For example the
        # following line enables the CGI configuration for this host only
        # after it has been globally disabled with "a2disconf".
        #Include conf-available/serve-cgi-bin.conf
</VirtualHost>
```

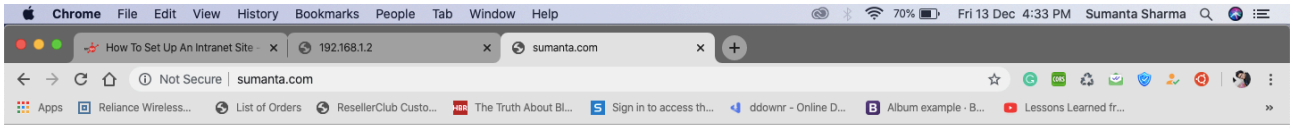
Step 7: connect to the network with any other device and hit the address 192.168.1.2 or sumanta.com as domain.

Step 8: Use tcp dump to trace the incoming connection to the server machine.

========== OutPut =======



hi i am sumanta



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