**CIS1360 – Week 11 Server Assignment Part 4**

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| **Date:** | **November 22, 2014** |
| **To:** | **Mike MacDonald** |
| **From:** | **Christopher Sigouin** |
| **Subject:** | **Configure HTTP Virtual Hosts and Linux File Permissions** |

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This exercise was to create two HTTP virtual hosts using the Apache2 service on Ubuntu server OS. The FQDN for each host:

* [www.thiscourserocks.com](http://www.thiscourserocks.com)
* [www.linuxlove.com](http://www.linuxlove.com)

In order to complete this task directory structures needed to be in place for both hosts. As well each host required to have its own index.html file to display a specific way. Once completed some configuration of files within the apache2 directory required editing so that the server would know that they exist. Also host files required editing so that the domains would resolve properly because there is no DNS records that exist with the hosts we create.

Each host root required certain permissions and ownership based on users created to manage them. A specific group called ‘webmasters’ was required as the main group. Three users were created and named ‘webadmin, ‘admin\_thiscourserocks’ and ‘admin\_linuxlove’. The user ‘webadmin’ was set to overlook all domains while the two admin accounts were locked to their own individual hosts. Once completed the next task was to test file transfer and deletion abilities.

Initially creating the directory structure was simple enough. Once completed I proceeded to edit the host files on Windows and Ubuntu. The windows host file gave me a bit of grief when attempting to save even while I was running Notepad++ as an administrator stating it was in use somewhere. I used notepad only as administrator and was able to save successfully. Also after changing the host files in Ubuntu the two domains resolved perfectly.

Once that was done I continued to the permissions section. Following the guide I created all the necessary users and changed permissions accordingly. The group ‘webmasters’ was required to complete the section correctly. If the group was not changed to ‘webmasters’ it would prevent webadmin from deleting files but the user could not add files either to the host directories. This was because webadmin would be considered as ‘any other user’ and have no write access. With ‘webmasters’ as the group, the users privledges included read,write and execute. This also affected the error that Filezilla presented when attempting to delete a file with webadmin. If there was no webmasters group assigned to the directory structure it would show ‘Permission Denied’ whereas if there was a webmasters group it would show ‘Operation not permitted’.

I did not encounter any issues. Learning permissions definitely takes time. Still fuzzy on the SUID, SGID and Sticky bits.