Indiana Institute of Technology

Senior Project: Staying Out of the X Hairs

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Class IS4750

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Presumed Skills

- Basic understanding of operating Ubuntu
- Basic understanding of the Terminal/Unix command line
- Basic knowledge of how servers and web hosting works

Prerequisites

- An Ubuntu server that is 18.04 or above
- Download the ZIP from the following GitHub address

https://github.com/AceSwank/X-Hairs.git

Configuration

1. Apache install

Use the following command in the terminal:

sudo apt install apache2

Once the command is finished apache has been installed and configured, to check this enter the following into a browser.

http://server-ip-or-domain-name

From here additional steps may be taken to further configure apache to suit preferences.

2. PHP install

Use the following command in the terminal:

sudo apt install php libapache2-mod-php

sudo systemctl restart apache2

From this point PHP has been installed onto the system. If you want to test to make sure it is

working properly enter the following in the terminal.

sudo nano /var/www/domain-name/info.php

This creates a file called info.php in var/www/domain-name. While in the text editor enter the

following: <?php phpinfo(); ?>

Then use ctrl X to exit and save. Once finished enter http://server-ip-or-domain-name/info.php

into a web browser to see information on the server and make sure that the php is working

properly.

3. Setting up the server files

Now if the files from GitHub have not been downloaded to an accessible location it is time to do

so. Go to https://github.com/AceSwank/X-Hairs.git and download the zip file to an accessible

location.

Unzip the file and the contents within. Once unzipped open the terminal and enter the following

commands.

sudo my sites//var/www/html

This command will move the files from their current location to where they will be hosted on the

machine. If you wish to keep a copy of the files in their current location use cp instead of mv in

the previous command as cp will only copy the files to that location.

Once you are done with that step enter the following into a browser to access the sites.

Secure site: http://server-ip-or-domain-name/Sites/Secure/XSS.html

Vulnerable site: http://server-ip-or-domain-name/Sites/vuln/XSS.html

The sites are configured and set up from this point. A potential issue that may come up is with the chat form site, if the apache does not have the proper permissions to write to the folder or file then it will be unable to store the messages that are entered. The quickest and easiest solution for this is to change the file permissions and allow apache to write to the file/folder or to allow any account to write to the file/folder. This is only acceptable in a testing environment and in a live environment stricter permissions will need to be enforced to accounts and files.