**CIS 399- sysadmin Final Project Proposal Chilled Beer**

**Project goals**

* The main goal of the project is to host a WordPress page on our instances to give the entity in charge of the instance the ownership of the page
* We will create a MySQL user and database that will allow the WordPress installation to communicate with the database
* We will ensure the security, backup and reliability of the site is maintained

**Testing and verification**

* Testing of the database configuration will occur by adding sample content to a WordPress blog and checking that the data has been saved
* Instance testing will be done using the load configuration associated with Amazon EC2. For example, we will stop the instance that is currently hosting WordPress and ensure that the load balancers causes another instance to take over hosting duties
* We will also use the puppet master to maintain backup and reliability of material. This can be tested by deleting database files that should be restored automatically

**User effect**

* By hosting the site for our potential users, our responsibility is to ensure the security and reliability of the blog and its data
* In this way, users can be assured of having their blog server managed effectively without having to see or worry about any of the backend details

**Security Issues**

* Use of a key-pair to allow for SSH access to our server is an essential security precaution against malicious attempts to log into our instances. The key-pair should always be stored in a secure place
* After the installation is moved to the Apache document root, the WordPress installation script is unprotected and an attacker could gain access to the blog if the Apache web server were running. For this reason, if we are not continuing the server installation process at that time, we should stop the Apache web server.
* Ensuring that we create a strong password for our user to access MySQL and a unique username and strong password for our WordPress accounts to prevent hacking
* Users with login access can make the blog vulnerable through weak or easily accessible passwords

**Work required**

* Download and unzip WordPress installation package
* Create a MySQL user and database for the WordPress installation
* To create and edit wp-config.php file
* move WordPress installation to the Apache document root
* allow WordPress to use permalinks
* fix file permissions for the Apache web server
* run the WordPress installation script
* update WordPress configuration(optional)
* testing and verification as described above