HW#3 - User Admin Commands

Due Date: Mar 06 2016

CIS4361 Spring 2016

This assignment can be worked with a **group of 3 people**. I advise that you find a group (let me know if you need assistance with that) because that way you will be able to develop the team before the harder assignments later in the course come.

**Instructions:**

This homework, unlike the previous ones, is not a script. Bellow you will find a list of commands which will be used to answer the short questions in this homework. There is no single answer for many of them, so testing your answer in the command line will ensure you get the highest credit you can. You can see it as a fill in the blank, with possible answers given. Beware that there may be more commands than questions. Always keep in mind that you have the “cmd --help" option for commands and many of them have a “man cmd” entry.

**List of Commands:**

* **useradd**
* **usermod**
* **userdel**
* **passwd**
* **chage**
* **chown**
* **chmod**
* **ssh**
* **ssh-keygen**
* **tar**
* **cp**
* **mv**
* **cracklib-check**
* **apt-get**
* **dd**
* **grep**

**List of Files:**

* **/etc/passwd**
* **/var/log/auth.log**
* **~/.ssh/id\_rsa.pub**
* **/dev/**

**Short Answer Questions:**

1. Create an account for a user with the following things: not part of the sudo group, no user group (the group that has the same name as the user), its primary group is called nobody, and no home folder is created.
2. Make a user have to reset their password next time they login and reset it every 90 days, with a minimum of 3 days before they can change their password again, and receive a warning 10 days before expiration.
3. Get the list of all system users (hint in /etc/passwd with UID < 1000) and all user accounts (>= 1000).
4. Get a report of the number of times sudo has failed for your system (hint /etc/auth.log and grep options).
5. Backup the home folder into a folder called /home/backups. The backup must be compressed and the owner of such backup and folder inside may only be root.
6. Run a remote command in a machine called myremotehost. Setup a way such that the password is not prompt during the remote login / command execution (you can just explain how you would do this, no need to actually set it up on your account)
7. Copy the contents of a CD drive into a USB drive (you can assume the destination USB drive is empty and has enough space). DO NOT use the cp, as there is an easier way to do this (hint: dd).
8. Check if the following are good passwords: “Hello World”, “test”, “D15ney”. What can you conclude about good passwords? Come up with your own good password for this homework, DO NOT use a password you currently have.

**References:**

* <http://manpages.ubuntu.com>
* <https://www.kernel.org/doc/man-pages/>
* <http://ss64.com>
* http://www.cyberciti.biz/security/linux-password-strength-checker/