# Instructions

The Web development team has requested that each of the team members is granted access to login to the AlmaLinux system you have created previously (**<username>-lls**). Set each user’s default password to **Pa$$w0rd**.

The list of users is as follows:

|  |  |  |
| --- | --- | --- |
| Full Name | Username | Position |
| Ishwari Ghale | ighale | Lead Developer |
| Vaas Montenegro | vmontenegro | Lead Developer |
| Dani Rojas | drojas | Web Developer |
| Willis Huntley | whuntley | Web Developer |
| Ana Benitez | abenitez | Application Developer |
| Hurk Drubman | hdrubman | Application Developer |

Each user should be placed into a group based on their position. The Lead Developers should be members of all groups and be given “sudo” access to the system.

The following positions should have the ability to edit files in their respective directories listed below. Keep in mind this is for a Web application. This means the “world” will need read and execute permissions to each folder (and NOTHING should be put in a user’s private home directory):

Lead Developers

**/development** and all subfolders

Web Developers

**/development/website**

**/development/website/images**

Application Developers

**/development/website/js**

# Screenshots

Paste the required screen shots under each description.

1. Show all users accounts in the **/etc/passwd** file.

A screenshot of a computer

Description automatically generated

2. Show all users password hashes in the **/etc/shadow** file.

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3. Show all groups and group membership in the **/etc/group** file.

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4. Show the “sudo” permission in the “sudoers” file.

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5. Show the permissions in a long listing format for the **/development** directory and each sub-directory.

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# Documentation

Record and explain all the steps you took to complete the task. Include any commands used, screen shots showing GUI interfaces, or any other information that would help you recreate the task.

**Note: You will be allowed to use this documentation to help you complete future assignments.**

To create the new users with their correct usernames and assign a default password, I ran the following commands:

sudo useradd -m -s /bin/bash ighale

sudo useradd -m -s /bin/bash vmontenegro

sudo useradd -m -s /bin/bash drojas

sudo useradd -m -s /bin/bash whuntley

sudo useradd -m -s /bin/bash abenitez

sudo useradd -m -s /bin/bash hdrubman

Setting the default password for each user to "Pa$$w0rd":

echo "Pa$$w0rd" | sudo passwd --stdin ighale

echo "Pa$$w0rd" | sudo passwd --stdin vmontenegro

echo "Pa$$w0rd" | sudo passwd --stdin drojas

echo "Pa$$w0rd" | sudo passwd --stdin whuntley

echo "Pa$$w0rd" | sudo passwd --stdin abenitez

echo "Pa$$w0rd" | sudo passwd --stdin hdrubman

I created groups based on user roles to control access:

sudo groupadd leaddev

sudo groupadd webdev

sudo groupadd appdev

Assigning users to their respective groups:

Lead Developers:

sudo usermod -aG leaddev,webdev,appdev ighale

sudo usermod -aG leaddev,webdev,appdev vmontenegro

Web Developers:

sudo usermod -aG webdev drojas

sudo usermod -aG webdev whuntley

Application Developers:

sudo usermod -aG appdev abenitez

sudo usermod -aG appdev hdrubman

To grant sudo privileges to the lead developers, I edited the sudoers file using the following command:

sudo visudo

Inside the sudoers file, I added these lines:

ighale ALL=(ALL) ALL

vmontenegro ALL=(ALL) ALL

I created the necessary directories:

sudo mkdir -p /development/website/images /development/website/js

Setting Permissions for Directories:

Lead Developers:

sudo chown -R ighale:leaddev /development

sudo chmod -R 775 /development

Web Developers:

sudo chown -R drojas:webdev /development/website /development/website/images

sudo chmod -R 775 /development/website /development/website/images

Application Developers:

sudo chown -R abenitez:appdev /development/website/js

sudo chmod -R 775 /development/website/js

Ensuring world access for reading and executing:

sudo chmod -R o+rx /development

I verified the user, group, and permission setup by running the following commands:

View user accounts in /etc/passwd:

cat /etc/passwd

View group memberships in /etc/group:

cat /etc/group

View sudo permissions in /etc/sudoers:

sudo cat /etc/sudoers

Check directory permissions:

ls -lR /development

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