Instructions

Case Scenario

In the User Management challenge lab, you were tasked with creating users and groups. Using the commands one at a time from the command line can be a tedious process and could lead to potential errors in syntax. It is your duty, as an administrator, to make the process as seamless and efficient as possible.

Objectives

Create a bash script to perform user management tasks as outlined below:

* Create a new group. Each group must have a unique name. The script must check to ensure that no duplicate group names exist on the system. If a duplicate is found, an error needs to be reported, and the administrator must try another group name.
* Create a new user. Each user must have a unique name. The script must check to ensure that no duplicate usernames exist on the system. If a duplicate is found, an error needs to be reported and the administrator must try another username. The user will have a Bash login shell and belong to the group that was created in the previous step.
* Create a password for each user that is created.
* Ensure that the new user created is a member of the new group created.
* Create a directory at the root / of the file system with same name as the user created.
* Set the ownership of the directory to the user and group created.
* Set the permissions of the directory to full control for the owner and full control for the group created.
* Set the permissions to ensure that only the owner of a file can delete it from the directory.
* Ensure that the script is executable.

This script should be designed to accept any username and any group name. **DO NOT hardcode commands to create specific usernames and group names.**

Hints

* Logical order is important.
* There is a special wildcard that can be used to determine if the previous command is successful or not. This will be useful for this script.

Curriculum Resources

* Module 11 – Basic Scripting
* Module 16 – Creating Users and Groups
* Module 17 – Ownership and Permissions

Deliverables

* Execute the script for the instructor. Create a new unique user and new unique group.
* Execute the script for the instructor. Show the error when a duplicate user or duplicate group are created.