Instructions

Case Scenario

* As the Linux Administrator for fast-growing company, you have been tasked with creating, modifying, and removing user accounts from the Linux server. The company has just hired 9 new employees to fill 3 newly designed departments. The departments that have been created are Engineering, Sales and IS. The server must be setup with the appropriate files, folders, users, groups and permissions to ensure a successful launch of the newly designed departments.

Objectives

* Create a directory at the root (/) of the file system for each department. This name should reflect the department name that will use the directory.
* Create a group for each department. This name should reflect the department name that the group will be assigned.
* Create an administrative user for each of the departments.
  + The user will have a Bash login shell.
  + The user will belong to the respective group for each department. This will need to be the user’s primary group.
* Create two additional users for each department.
  + The users will have a Bash login shell.
  + The users will belong to their respective group for each department. This will need to be the user’s primary group.
* For security reasons, the following modifications will need to be made to each of the departments' respective directories:
  + Ensure that the owner of each of the directories is the department administrator and the group ownership is the group for each department.
  + The department administrator will have full access to their respective department directories.
  + Ensure that only the owner of a file in the department’s directory can delete the file. The user will also have ownership of their respective department folders.
  + Normal users in each department will have full access (Read, Write and Execute) to their respective department folders.
  + The department folders will ONLY be accessible by users/administrators in each of the respective departments. Ensure that no one else will have permissions to the folders.
* Create a document in each of the department directories.
  + The ownerships on this file will be the same as the directory it is located in.
  + The document should contain only one line of text that states, “This file contains confidential information for the department.”
  + This file can be read by any user in the department, but can only be modified by the department administrator. No one else has permissions to this file.

Curriculum Resources

* Module 8 – Managing Files and Directories
* Module 15 – System and User Security
* Module 16 – Creating Users and Groups
* Module 17 – Ownership and Permissions
* Module 18 – Special Directories and Files

Deliverables

* Use the appropriate command to verify each user and group has been created.
* Use the appropriate command to verify each user’s group assignment.
* Use the appropriate command to verify the directory creation and the permission settings.
* Use the appropriate command to verify the files are created in their respective directories.