IT 3110: Systems Automation

Shell Scripting 4

Assignment

This assignment will hone your skills as a Bash shell programmer. Use functions again.

Tasks

Create the following script:

A script which automates the creation of an NFS share (mkdir), puts the correct entries in `/etc/exports`, and then mounts that share on all clients. Your script should also reverse this process if the user so chooses.

You should have your script automatically add a line to `/etc/fstab` for these mounts.

A sample run of your script might look like this:

```
./script.sh <sharename> <mountpoint> <option>
./script.sh /shares/fruit /nfs/fruit 1
```

The `option` on the line above indicates that the script should create these shares. If the option is zero, it should delete the shares. You could optionally choose to ask the user for a selected option i.e. (Would you like to create? (y/n)) and then perform the options that they have selected.

Thus, your script would automatically create the `/shares/fruit` directory on your nfs server (if it didn’t already exist). Or create whatever sharename was passed into the script. Then it will need to add a line to `/etc/exports`. Then it may need to run `exportfs -a` to make that new nfs share visible to clients. Then your script would ssh to all your machines and create the new mountpoint like `/nfs/fruit`, and mount your share.

Similar to the last assignment you should utilize functions. I will leave it up to you as to how you do this, but you should incorporate a `usage` and `main` as well as a few others.

Report

Take a print screen of your scripts running. Also upload your scripts.

Submission

* Submit your report and images to the [SCRIPT 4] assignment in the Canvas