IT 3110: Systems Automation

Shell Scripting 4

Assignment

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

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.

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