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 [\texttt{/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 \texttt{/etc/fstab} for these mounts.

A sample run of your script might look like this:

\begin{verbatim}
./script.sh <sharename> <mountpoint> <option>
./script.sh /shares/fruit /nfs/fruit 1
\end{verbatim}

The \texttt{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 \texttt{/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 \texttt{/etc/exports}. Then it may need to run \texttt{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 \texttt{/nfs/fruit}, and mount your share.

Report

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

Submission

\begin{itemize}
\item Submit your report and images to the \texttt{SCRIPT 4} assignment in the Canvas
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