IT 3110: Systems Automation

Shell Scripting 2

Assignment

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

Tasks

READ ALL OF THE INSTRUCTIONS FIRST

Create the following script:

A script called `deploy_vm.sh`.

This script will be run from `ssh.cs.dixie.edu`. You should be able to provide a name and ip of your vm to this script and the script will automatically connect to your dhcp server and insert appropriate fixed dhcp entries. Example usage:

```
./deploy_vm.sh logger 144.38.222.111
```

- `./deploy_vm.sh` is the name of my script
- `logger` is the name of the vm that I am creating
- `144.38.222.111` is the fixed ip address of the new vm.

Your script should ensure that the 2 required command line arguments are passed in. If they are not, your script should exit with an appropriate status code and message.

Your script would at some point need to ssh to `vm.cs.dixie.edu` and create a new vm using the `citv clonevm` command. Pass in the value that was sent to the script (i.e. `logger`).

Then you should be able to parse the mac address from the `citv showvm` command to use in your dhcp file. You need to add a fixed entry for this new vm.

Then your script should boot the vm `citv bootvm ????? c`

Optional: have your script sleep for 60 seconds to wait for the machine to come up, then verify the machine responds to a ping at the above ip address.

Report

In-person verification is always the best, but you could also take a print screen of your scripts running. Also upload your scripts.

Submission

- Submit to Canvas