# RHEL 134
# Week 1 Lab
## *CIT 218*
## Chaz Davis

BCTC
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# Questions

**i) Use grep to find all the log entries in /var/log/messages regarding the Hostname service and provide the output**

You can see in Fig. 1a on Pg. 2, I ran the command `grep 'Hostname' /var/log/messages` from the terminal.

**ii) Using tail and grep, provide the last 5 entries of /var/log/messages that start with the month of March**

You can see in Fig. 1b on Pg. 2, I ran the command `grep '^Mar' /var/log/messages | tail -n 5` in the terminal to get the last 5 entries for the month of March.

**iii) Using vim, create a short bash script that pings 8.8.8.8 with 1 ping packet. If the command is successful, print "SUCCESS". If the command is unsuccessful, print "FAILURE". Send all output from the ping command to /dev/null. Provide your script and the results of running your script**
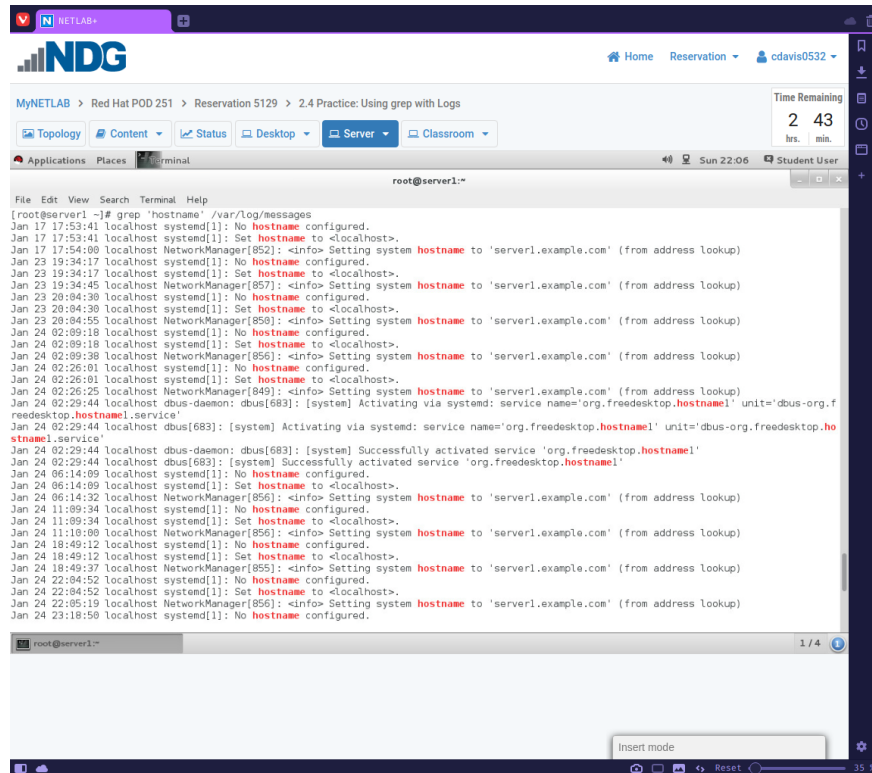
You can see in Fig. 2a on Pg. 3, I wrote a simple bash script in vim:

```
1  #! /usr/bin/bash
2  ping -c1 8.8.8.8 > /dev/null
3  if [ $? -eq 0 ]
4    then
5      echo "SUCCESS"
6      exit 0
7    else
8      echo "FAILURE"
9  fi
```

Where ping -c1 means send the ping command only once, then the ipaddress, The output of which will be sent to /dev/null. Then, using an if/else statement I'm using [ $? -eq 0 ] to get the exit status of the most recently run command, 0 being true, anything else being no or an error. and if the exit status was 0, then print "SUCCESS", but if its not true (else) print "FAILURE" to the comandline. I also realized when I was going to run the script I forgot to make it executable and so ran `sudo chmod +x ping.sh`. Then, I was able to run `./ping.sh`. You can see in Fig. 2b on Pg. 3, that we got "FAILURE".
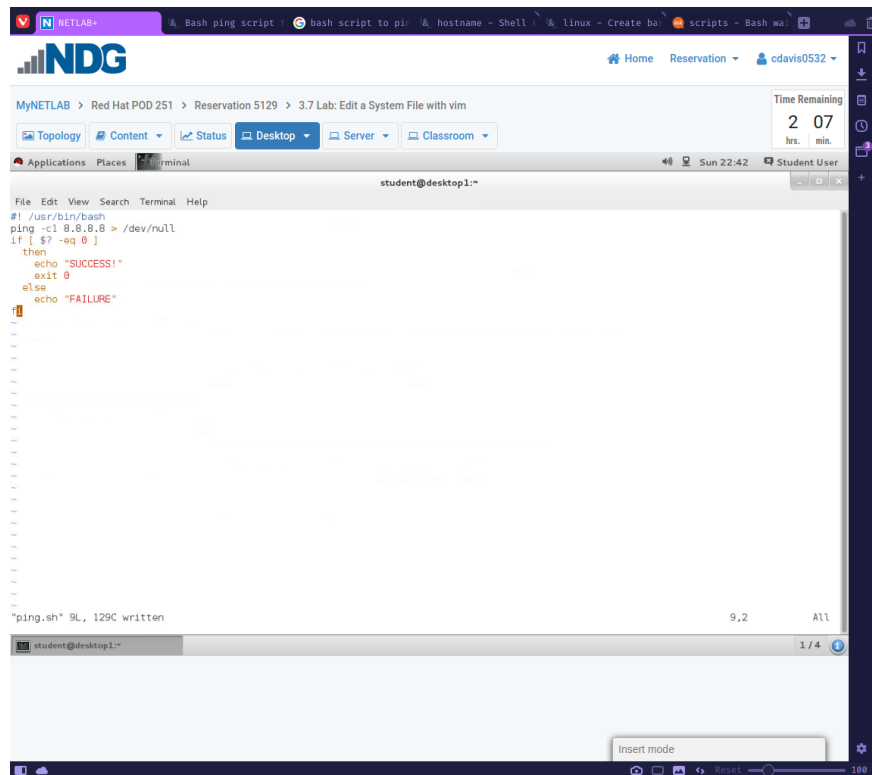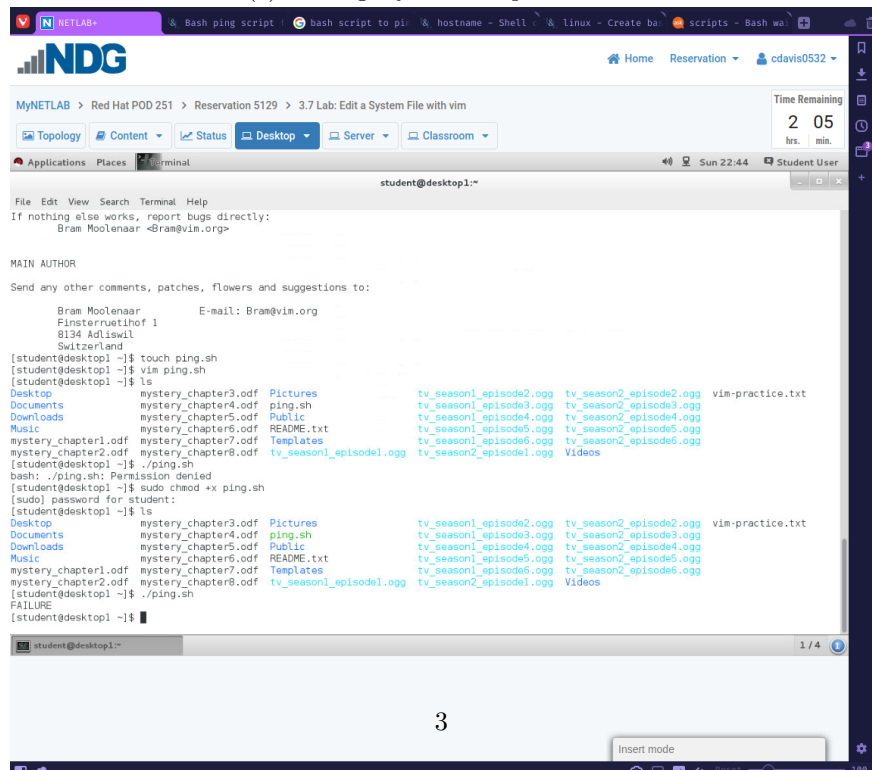
(a) Grepping Hostname



(b) Grepping the last five entries for March

Figure 1: Chapter 02 Screenshots

(a) Writing my bash script inside vim



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(b) Running my Bash script from the commandline

Figure 2: Chapter 03 Screenshots