RHEL Labs
Week 06
CIT 217

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BCTC
Spring 2020

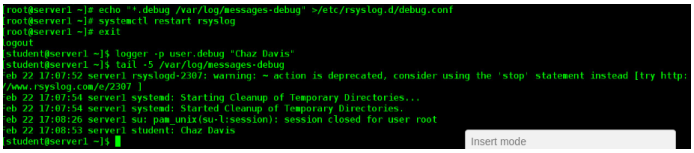
February 23, 2020

Chapter 10

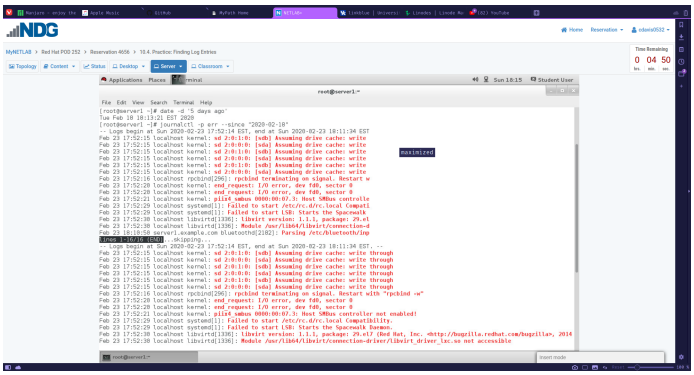
i) Use the logger command to manually enter a message with your first and last name into syslog. Provide the last 5 lines of the log file containing your message. I logged into the student server, opened terminal. Using the `su -` command I setup system-debug and restarted systemctl. Then under the Student user, I sent my name to the syslog. as seen in Fig. 1a.

ii) Use the journalctl command to find all the priority err entries since 5 days ago. Provide the Output.

I ran `date -d '5 days ago'` to get the date for 5 days ago. I then ran the command `journalctl -p err --since "2020-02-18"` by passing the -p err flag i was able to get just the errors logged and the –since flag gave me all logs since a certain date as seen in Fig. 1b.



(a) Logger command output

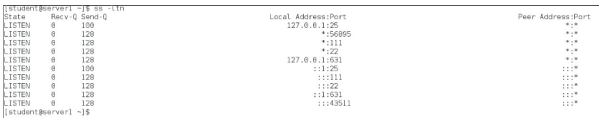


(b) Journalctl priority Err output

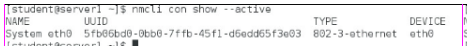
Figure 1: Chapter 10 screenshots

Chapter 11

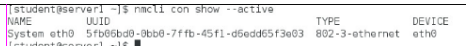
i) Provide the output of all open ports on the machine
To show all the open ports I ran `ss -ltn` See Fig. 2a.
ii) Provide the output of the network address, netmask, and routing table of the Desktop virtual machine.
For the network address output I ran `nmcli con show active` see Fig. 2b
For the routing table I ran `ip route` See Fig. 2d.
iii) Use the ping command to send exactly 5 ping packets to the address 8.8.8.8 and provide the output. Was your ping successful or unsuccessful?
I ran `ping -c5 8.8.8.8` Fig. 2e.



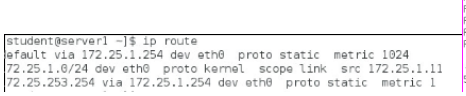
(a) All open ports



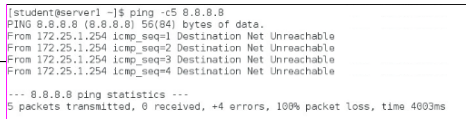
(b) Network address



(c) netmask



(d) routing table



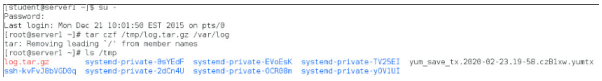
(e) ping 8.8.8.8

Figure 2: Chapter 11 screenshots

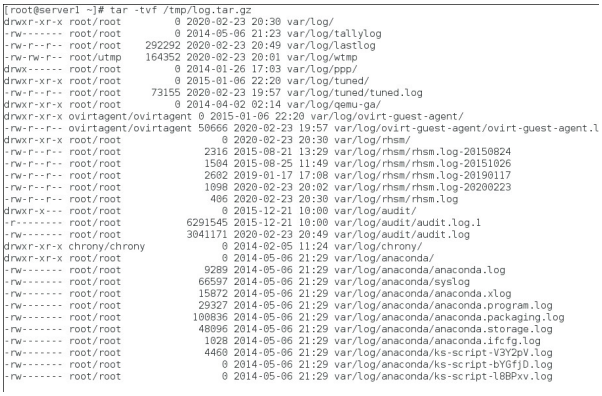
Chapter 12

i) Create a gzip-compressed tar file of the /var/log/ directory named log.tar.gz. Use the tar cammond to provide the details of the log.tar.gz tarball. I ran `tar czf /tmp/log.tar.gz /var/log` see Fig. 3a I then ran `tar -tvf /tmp/log.tar.gz` to list the files. see Fig. 3b

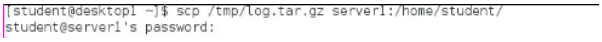
ii) Use the scp command to copy the log.tar.gz file from the Desktop VM to the Server VM. Provide a detailed list of the directory on the Server VM where the file was copied to.
I ran `ssh root@server1` to log into the server over ssh and establish a connection. The, exited. I then created the tarball as I did in step 1 above. Next, I used the command `scp /tmp/log.tar.gz server1:/home/student/` see Fig. 3c once on Server1 I went to the home directory for student and ran the commands as above to list the files in the archive. see Fig. 3d



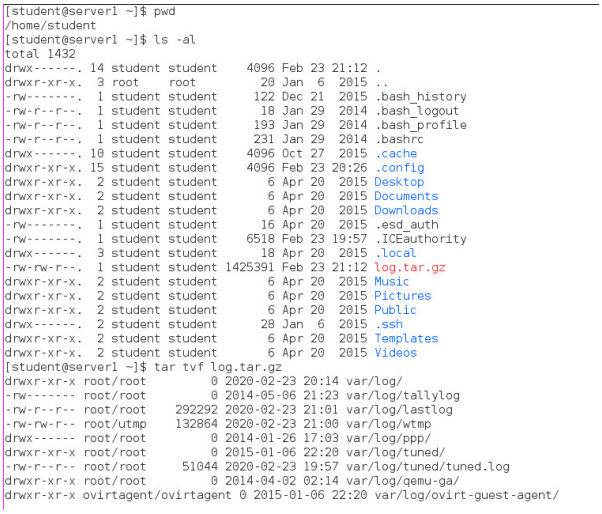
(a) Gzip log



(b) Gzip log output



(c) Sending the tarball over scp



(d) List of the tar.gz file after scp

Figure 3: Chapter 12 Screenshots