

RHEL Labs
Week 06
CIT 217
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BCTC
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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.

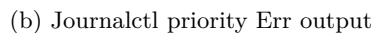


Figure 1: Chapter 10 screenshots

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.

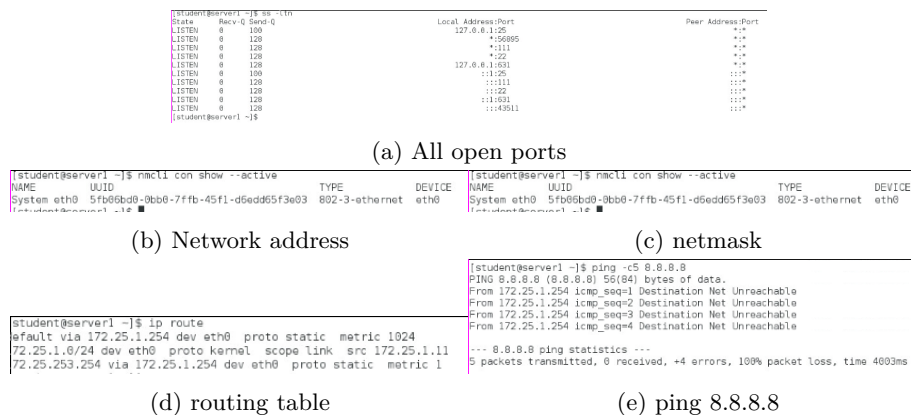


Figure 2: Chapter 11 screenshots

Chapter 12

i) Create a gzip-compressed tar file of the `/var/log/` directory named `log.tar.gz`. Use the `tar` command 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. Then, 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

```

[student@server1 ~]$ su -
Password:
Last login: Mon Dec 21 19:01:58 EST 2015 on pts/0
[student@server1 ~]$ tar czf /tmp/log.tar.gz /var/log
tar: Removing leading '/' from member names
[student@server1 ~]$ ls /tmp
log.tar.gz          system-private-8uVdF  system-private-EVdSk  system-private-TV2SE  yum_save_tx_2020-02-23.19.58.cb1kw.yum.tx
ssh-kvFv2BvQDq    system-private-2dCHU  system-private-0CR6B  system-private-y0VJ0

```

(a) Gzip log

```

[student@server1 ~]$ tar -tvf /tmp/log.tar.gz
drwxr-xr-x root/root      0 2020-02-23 20:30 var/log/
-rw-r--r-- root/root      0 2014-05-06 21:23 var/log/tallylog
-rw-r--r-- root/root    292292 2020-02-23 20:49 var/log/lastlog
-rw-rw-r-- root/utmp    164352 2020-02-23 20:01 var/log/wtmp
drwxr-xr-x root/root      0 2014-01-26 17:03 var/log/ppp/
drwxr-xr-x root/root      0 2015-01-06 22:20 var/log/tuned/
-rw-r--r-- root/root    73155 2020-02-23 19:57 var/log/tuned/tuned.log
drwxr-xr-x root/root      0 2014-04-02 02:14 var/log/qemu-ga/
drwxr-xr-x ovirtagent/ovirtagent 0 2015-01-06 22:20 var/log/ovirt-guest-agent/
-rw-r--r-- ovirtagent/ovirtagent 50666 2020-02-23 19:57 var/log/ovirt-guest-agent/ovirt-guest-agent.l
-rw-r--r-- root/root      0 2020-02-23 20:30 var/log/rhsm/
-rw-r--r-- root/root    2316 2015-08-21 13:29 var/log/rhsm/rhsm.log-20150824
-rw-r--r-- root/root    1504 2015-08-25 11:49 var/log/rhsm/rhsm.log-20151026
-rw-r--r-- root/root    2602 2019-01-17 17:08 var/log/rhsm/rhsm.log-20190117
-rw-r--r-- root/root    1098 2020-02-23 20:02 var/log/rhsm/rhsm.log-20200223
-rw-r--r-- root/root      0 2020-02-23 20:30 var/log/rhsm/rhsm.log
drwxr-xr-x root/root      0 2015-12-21 10:00 var/log/audit/
-rw-r--r-- root/root    6291545 2015-12-21 10:00 var/log/audit/audit.log.1
-rw-r--r-- root/root    3041171 2020-02-23 20:49 var/log/audit/audit.log
drwxr-xr-x chrony/chrony      0 2014-02-05 11:24 var/log/chrony/
drwxr-xr-x root/root      0 2014-05-06 21:29 var/log/anaconda/
-rw-r--r-- root/root    9289 2014-05-06 21:29 var/log/anaconda/anaconda.log
-rw-r--r-- root/root    65597 2014-05-06 21:29 var/log/anaconda/syslog
-rw-r--r-- root/root    15872 2014-05-06 21:29 var/log/anaconda/anaconda.xlog
-rw-r--r-- root/root    29327 2014-05-06 21:29 var/log/anaconda/anaconda.program.log
-rw-r--r-- root/root    108836 2014-05-06 21:29 var/log/anaconda/anaconda.packaging.log
-rw-r--r-- root/root    48096 2014-05-06 21:29 var/log/anaconda/anaconda.storage.log
-rw-r--r-- root/root    1028 2014-05-06 21:29 var/log/anaconda/anaconda.ifcfg.log
-rw-r--r-- root/root    4460 2014-05-06 21:29 var/log/anaconda/ks-script-V3Y2pV.log
-rw-r--r-- root/root      0 2014-05-06 21:29 var/log/anaconda/ks-script-bYGFjD.log
-rw-r--r-- root/root      0 2014-05-06 21:29 var/log/anaconda/ks-script-l8BPxv.log

```

(b) Gzip log output

```

[student@desktop1 ~]$ scp /tmp/log.tar.gz server1:/home/student/
student@server1's password:

```

(c) Sending the tarball over scp

```

[student@server1 ~]$ pwd
/home/student
[student@server1 ~]$ ls -al
total 1432
drwxr-xr-x. 14 student student 4096 Feb 23 21:12 .
drwxr-xr-x.  3 root   root      20 Jan  6 2015 ..
-rw-r--r--.  1 student student 122 Dec 21 2015 .bash_history
-rw-r--r--.  1 student student 18 Jan 29 2014 .bash_logout
-rw-r--r--.  1 student student 193 Jan 29 2014 .bash_profile
-rw-r--r--.  1 student student 231 Jan 29 2014 .bashrc
drwxr-xr-x. 10 student student 4096 Oct 27 2015 .cache
drwxr-xr-x. 15 student student 4096 Feb 23 20:26 .config
drwxr-xr-x.  2 student student  6 Apr 20 2015 Desktop
drwxr-xr-x.  2 student student  6 Apr 20 2015 Downloads
-rw-r--r--.  1 student student 16 Apr 20 2015 .esd_auth
-rw-r--r--.  1 student student 6518 Feb 23 19:57 .ICEauthority
drwxr-xr-x.  3 student student 18 Apr 20 2015 .local
-rw-rw-r--r.  1 student student 1425391 Feb 23 21:12 log.tar.gz
drwxr-xr-x.  2 student student  6 Apr 20 2015 Music
drwxr-xr-x.  2 student student  6 Apr 20 2015 Pictures
drwxr-xr-x.  2 student student  6 Apr 20 2015 Public
drwxr-xr-x.  2 student student 28 Jan  6 2015 .ssh
drwxr-xr-x.  2 student student  6 Apr 20 2015 Templates
drwxr-xr-x.  2 student student  6 Apr 20 2015 Videos
[student@server1 ~]$ tar tvf log.tar.gz
drwxr-xr-x root/root      0 2020-02-23 20:14 var/log/
-rw-r--r-- root/root      0 2014-05-06 21:23 var/log/tallylog
-rw-r--r-- root/root    292292 2020-02-23 21:01 var/log/lastlog
-rw-rw-r-- root/utmp    132864 2020-02-23 21:00 var/log/wtmp
drwxr-xr-x root/root      0 2014-01-26 17:03 var/log/ppp/
drwxr-xr-x root/root      0 2015-01-06 22:20 var/log/tuned/
-rw-r--r-- root/root    51044 2020-02-23 19:57 var/log/tuned/tuned.log
drwxr-xr-x root/root      0 2014-04-02 02:14 var/log/qemu-ga/
drwxr-xr-x ovirtagent/ovirtagent 0 2015-01-06 22:20 var/log/ovirt-guest-agent/

```

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

Figure 3: Chapter 12 Screenshots