Name:

Red Hat Lab – Chapter 13

BC

Use **Red Hat Lab Environment** to complete the lab. Issue the following commands immediately before step 1:

```
history -c
history -w
```

These commands should be repeated for each user@machine prompt. See boxes below.

Paste a screenshot in the box below of the command output from the command below. Include the command itself in the screenshot:

`lab grade archive-review`

```
[student@workstation ~]$ lab grade archive-review

Grading lab.

 · Checking lab systems ................................ SUCCESS
 · Verifying /configsync on serverb ..................... SUCCESS
 · Verifying archive exists on serverb .................. SUCCESS
 · Verifying archive compression on serverb ............. SUCCESS
 · Verifying archive content on serverb ................. SUCCESS
 · Verifying archive exists on workstation .............. SUCCESS
 · Verifying archive is the same on workstation and
   serverb ............................................. SUCCESS
 · Verifying /tmp/savedconfig on workstation ............ SUCCESS
 · Verifying folder content is the same on workstation
   and servera ......................................... SUCCESS

Overall lab grade: PASS
```

Issue the command `history` after the last step for each user@machine prompt. Paste a screenshot of each history in the proper box below. Include the command itself and the full history of commands.

student@workstation

```
[student@workstation ~]$ history
    1  history -w
    2  lab start archive-review
    3  ssh student@serverb
    4  mkdir /tmp/savedconfig
    5  cd /tmp/savedconfig
    6  tar -tzf ~/configfile-backup-servera.tar.gz
    7  tar -xzf ~/configfile-backup-servera.tar.gz
    8  ls -lR
    9  cd
   10  history
```

root@serverb

```
[root@serverb ~]# history
    1  mkdir /configsync
    2  rsync -av root@servera:/etc /configsync
    3  tar -czf configfile-backup-servera.tar.gz /configsync
    4  tar -tzf configfile-backup-servera.tar.gz
    5  sftp student@workstation
    6  history
```

Lab Manual

Use the VirtualBox RHELv9 virtual machine for this lab. Do not use the Red Hat Lab Environment. Issue the following commands in the Terminal window before starting the lab on the next page:

```
history -c
history -w
```

Repeat these commands for root@RHELv8 if necessary.

Paste the results of the history command in the box at the end of the lab.

Lab 20: Archive Commands

1. Archive all files and directories in /usr/lib/gcc to the gcc.zip file.
2. List the contents of gcc.zip without unzipping it.
3. Extract the contents of gcc.zip
4. Copy /usr/share/dict/words to your home directory.
5. Compress words to words.gz
6. Extract words.gz
7. Retain the original file while compressing /usr/share/dict/words by redirecting the output to words.gz
8. View the amount of compression on the archived words.gz file.
9. View the amount of compression on words.gz as you are uncompressing the file.
10. Compress /usr/share/dict/words to words.bz2
11. Extract words.bz2
12. Create a yum.tar archive of the /etc/yum directory.
13. View the contents of yum.tar
14. View a detailed listing of the contents of yum.tar
15. Extract the files from yum.tar
16. Extract the files from yum.tar to the /tmp directory.
17. Copy all files in the /etc directory ending in .conf to your home directory.
18. Compress these files using the cpio command and output to conf.cpio
19. Extract the files from conf.cpio
20. Create a file named /tmp/swapex with 500 one megabyte size blocks of zeroes.

```
student@localhost:~$ history
    1  history -w
    2  tar -cf gcc.zip /usr/lib/gcc
    3  tar -tf gcc.zip
    4  tar -xf gcc.zip
    5  cp -R /usr/share/dict/words /home/student
    6  gzip -c words
    7  gzip -dv words.gz
    8  gzip -c /usr/share/dict/words > words.gz
    9  gzip -l words.gz
   10  gzip -v words.gz
   11  gzip -k words
   12  gzip -dv words.gz
   13  bzip2 -dk /usr/share/dict/words
   14  sudo tar -cf yum.tar /etc/yum
   15  tar -tf yum.tar
   16  tar -tv yum.tar
   17  zcat yum.tar
   18  tar -xf yum.tar
   19  tar -xzvf yum.tar  -C /tmp
   20  sudo cp /etc/*.conf /home/student/
   21  sudo find . -iname "*.conf" | cpio -ov > conf.cpio
   22  cpio -iv < conf.cpio
   23  head -c 5MB /dev/zero > /tmp/swapex
```