Hands-on Lab: Archiving and Compressing Files



Estimated time needed: 15 minutes

Learning Objectives

After completing this lab, you will be able to:

- · Create archives for sets of files and folders
- Compress and decompress filesExtract files and folders from an existing archive

About Skills Network Cloud IDE

Skills Network Cloud IDE (based on Theia and Docker) provides an environment for hands-on labs for course and project related labs. Theia is an open source IDE (Integrated Development Environment), that can be run on the desktop or on the cloud. To complete this lab, you will be using the Cloud IDE based on Theia.

Important notice about this lab environment

Please be aware that sessions for this lab environment are not persisted. Thus, every time you connect to this lab, a new environment is created for you, and any data or files you may have saved in a previous session will be lost. To avoid losing your data, plan to complete these labs in a single session

Exercise 1 - File and folder archiving and compression

1.1. Create and manage file archives

tar

The tar command allows you to pack multiple files and directories into a single archive file.

The following command creates an archive of the entire /bin directory and writes the archive to a single file named bin.tar.

The options used are as follows:

Option	Description
-с	Create new archive file
-v	Verbosely list files processed
-f	Archive file name

tar -cvf bin.tar /bin

To see the list of files in the archive, use the -t option:

tar -tvf bin.tar

To untar the archive or extract files from the archive, use the -x option:

tar -xvf bin.tar

Use the 1s command to verify that the folder bin is extracted.

ls -1

1.2. Package and compress archive files

The zip command allows you to compress files.

The following command creates a zip file named config.zip consisting of all the files with extension .conf in the /etc directory.

zip config.zip /etc/*.conf

The -r option can be used to zip an entire directory.

The following command creates an archive of the /bin directory.

zip -r bin.zip /bin

1.3. Extract, list, or test compressed files in a ZIP archive

The unzip command allows you to extract files

To list the files of the archive config.zip, enter the following:

unzip -l config.zip

The following command extracts all the files in the archive bin.zip.

We added the -o option to force overwrite in case you run the command more than once

You should see a folder named bin created in your directory

Summary

In this lab, you learned that:

- tar allows you to pack multiple files and directories into a single archive file
 zip allows you to compress files
 unzip allows you to extract files

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