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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 files
- Extract 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

- -c Create new archive file
- -v Verbosely list files processed
- -f Archive file name

1. 1

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1. tar -cvf bin.tar /bin

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

- 1. 1
- 1. tar -tvf bin.tar

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

- 1. 1
- 1. tar -xvf bin.tar

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

- 1. 1
- 1. ls -l

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1.2. Package and compress archive files

zip

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.

- 1. 1
- 1. zip config.zip /etc/*.conf

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

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

- 1. 1
- 1. zip -r bin.zip /bin

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

unzip

The unzip command allows you to extract files.

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

- 1. 1
- 1. unzip -l config.zip

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

- 1. 1
- 1. unzip -o bin.zip

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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

Authors

Ramesh Sannareddy Sam Prokopchuk

Other contributors

Rav Ahuja Jeff Grossman

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