Backing Up with tar

LPIC-2: Linux Engineer (201-450)

Objectives:

At the end of this episode, I will be able to:

- 1. Describe the *tar* utility and the scenarios where it is used.
- 2. Use tar to backup and restore data, including permissions and ownership settings.

Additional resources used during the episode can be obtained using the download link on the overview episode.

- tar
 - Tape ARchiver
 - o Designed to string multiple files together into one file
 - o Data stored serially to be written to tape
- · Creating an archive

```
o tar -cf <archive_name> <folder_name>
o tar -cf backup.tar ~/Documents
```

- Compression
 - o tar does not compress by default

```
• tar -czvf backup.tar.gz ~/Documents
```

- c Create
- z Compress
- v Verbose
- f File name
- Restoring from a tar archive

```
• tar -xzvf backup.tar.gz
```

- x Extract
- z Decompress
- v Verbose
- f File name
- Maintaining permissions in an archive
 - ∘ Must provide -p when creating the archive
 - tar -czvpf backup.tar.gz ~/Documents
 - c Create
 - z Compress
 - v Verbose
 - p Preserve permissions
 - f File name
- Restoring permissions
 - o Permissions are restored automatically if they were backed up
 - o Ownership is a different story
 - o Yes, if you are root
 - --same-owner

- Attempts to map the owner to an existing account
- Otherwise assigns the current user
- $\circ~$ No, if you are a normal user
 - --no-same-owner
 - Makes the current user the owner