

# Linux Commands: Zip, Unzip, Gzip, Tar, and History

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# Introduction to File Compression

Compression is crucial for efficiently storing and transferring data.

Compressing files reduces their size, optimizing disk space and saving bandwidth.



# Zip: Compressing and Archiving Files

## Create an archive:

```
zip -r archive.zip folder_name
```

## Add a file:

```
zip archive.zip file.txt
```



# Unzip: Extracting Compressed Files



## Extract all files:

```
unzip archive.zip
```



## Extract specific files:

```
unzip archive.zip file.txt
```

```

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# Gzip: Single-File Compression

1

## Compress a file:

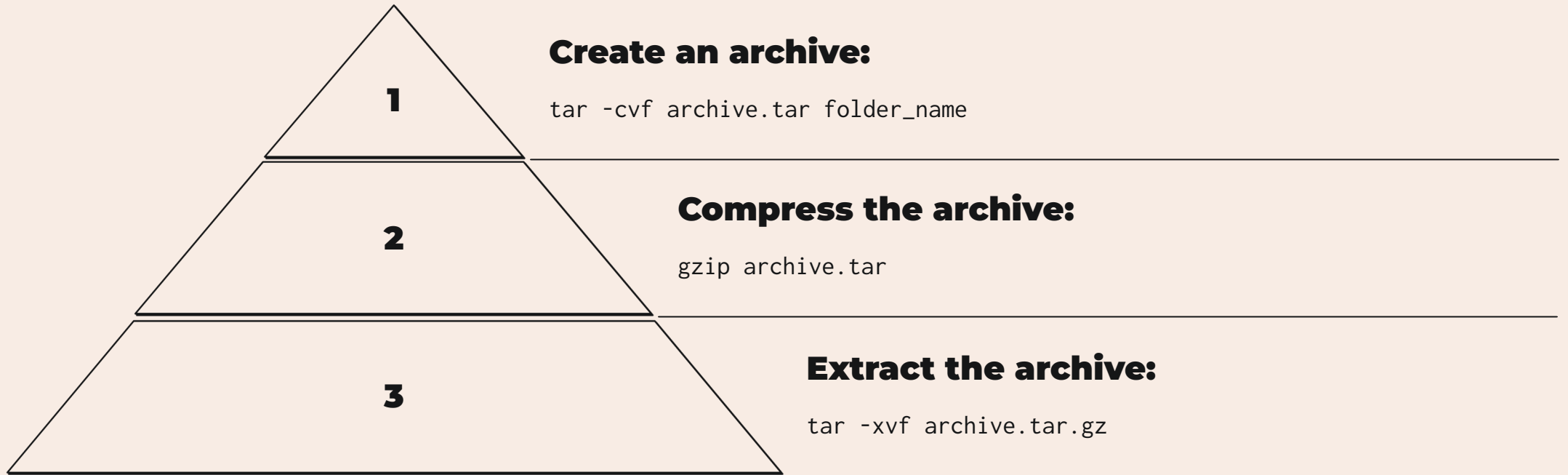
gzip file.txt

2

## Decompress a file:

gunzip file.txt.gz

# Tar: Archiving and Compressing Multiple Files





# Tar Flags: Simplifying Compression Tasks

## 1

### Verbose:

```
tar -cvf archive.tar -v  
folder_name
```

## 2

### Delete Original Files:

```
tar -cvf archive.tar -f  
folder_name
```



# Viewing and Navigating Command History

**1**

## Display History:

`history`

---

**2**

## Display Specific Number of Commands:

`history 10`

---

**3**

## Display History with Command Numbers:

`history -n`



# Searching and Executing Past Commands



## Search for a Command:

```
history | grep 'command'
```



## Execute a Past Command:

```
!10
```

# Thank You..

