

Ex.No.4

Backup Management

Aim

- a. To back up files or to combine them into a package
- b. To effectively reduce a file size by creating a compressed copy of it

I. Backup

1. tar

Creates archives for files and directories

Synopsis

tar *options* **f** archive-filename.tar directory(or)filename

options

- c - creates a new archive
- t - lists the names of files in an archive
- r - appends files to an archive.
- U - updates an archive with new and changed files.
- v - displays each filename as it is archived.
- x - extracts files from an archive.
- z - compresses or decompresses archived files using *gzip*
- j - compresses or decompresses archived files using *bzip*.

II Compressing and Decompressing

1. gzip

Compresses the given file and the file is replaced with a compressed version of it with the extension.gz

Synopsis

gzip <filename>

options

-c Sends compressed version of file to standard output;
each file listed is separately compressed

gzip -c <filename> preface > <filename>

-d Decompresses a compressed file

gzip -d <filename>

-h Displays help listing

-l file-list Displays compressed and uncompressed size of
each file listed

gzip -l <filename>

-r dir-name Recursively searches for specified directories and
compresses all the files in them; the search begins
from the current working directory. When used
with gunzip, compressed files of a specified
directory are uncompressed.

-v file-list For each compressed or decompressed file, displays
its name and the percentage of its reduction in size

-num Determines the speed and size of the compression;
the range is from -1 to -9. A lower number gives
greater speed but less compression, resulting in a
larger file that compresses and decompresses

quickly. Thus -1 gives the quickest compression but with the largest size; -9 results in a very small file that takes longer to compress and decompress. The default is -

2. **gunzip**

Decompresses the **.gzip** file.

Synopsis

gunzip <filename.gz>

3. **bzip**

Compresses the given file and the file is replaced with a compressed version of it with the extension.bz2

Synopsis

bzip2 <filename>

4. **bunzip**

Decompresses the **file**.

Synopsis

bunzip2 <filename.bz2>

5. **zip**

Compresses the given file and the file is replaced with a compressed

version of it with the extension.z

Synopsis

zip <filename>

6. unzip

Decompresses the unzip file.

Synopsis

unzip <filename.zip>