

ARCHIVING AND TRANSFERRING FILES

Archiving and compressing files are useful when creating backups and transferring data across a network. Which increase your data throughput (***Amount of data can be transferred from one location to another in a time period***)

One of the oldest and most common commands we are using for it

#tar stands for **tape archive**

Using tar we can gather a large number of files into a single file (Archive)

We can extract also

Operational option

-c –create

-x –extract

-t –list

General options

-v verbose

-f file

-p preserve perm

Compression option

-z gzip

-j bzip2

-J xz

Now again we can compress more by using some compressing tools

TRANSFERRING FILES BETWEEN SYSTEMS SECURELY

Secure copy

Scp

Sftp – secure file transfer program

SYNCHRONIZING FILES BETWEEN SYSTEMS SECURELY

rsync -av /var/log /tmp

Options Enabled with rsync -a (Archive Mode)

OPTION	DESCRIPTION
-r, --recursive	synchronize recursively the whole directory tree
-l, --links	synchronize symbolic links
-p, --perms	preserve permissions
-t, --times	preserve time stamps
-g, --group	preserve group ownership
-o, --owner	preserve the owner of the files
-D, --devices	synchronize device file

Task

1. On **serverb**, synchronize the **/etc** directory tree from **servera** to the **/configsync** directory.
2. Use **gzip** compression to create an archive named **configfile-backupservera.tar.gz** with the contents of the **/configsync** directory.
3. Securely copy the **/root/configfile-backup-servera.tar.gz** archive file from **serverb** to the **/home/student** directory on workstation as the student user using student as the password.
4. On workstation, extract the contents of the **/home/student/configfile-backupservera.tar.gz** archive to the **/tmp/savedconfig/** directory.
5. On workstation return to the student home directory.