

File Compression and backup

```
mangesh@ip-172-31-37-172:~$ ls
file.txt  my project
mangesh@ip-172-31-37-172:~$
```

i-078796b0cc648b0da (Task6-Ubuntu)

PublicIPs: 13.126.211.22 PrivateIPs: 172.31.37.172

Install Zip & uninstall packages.

```
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Mon Jan 26 14:51:22 2026 from 13.233.177.5
ubuntu@ip-172-31-37-172:~$ su - mangesh
Password:
mangesh@ip-172-31-37-172:~$ sudo apt install zip unzip
[sudo] password for mangesh:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  unzip zip
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 350 kB of archives.
After this operation, 933 kB of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 unzip amd64 6.0-28ubuntu4.1 [174 kB]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 zip amd64 3.0-13ubuntu0.2 [176 kB]
```

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```
No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
mangesh@ip-172-31-37-172:~$ ls
file.txt  my_project
mangesh@ip-172-31-37-172:~$ zip -r file.txt my project
  zip warning: missing end signature--probably not a zip file (did you
  zip warning: remember to use binary mode when you transferred it?)
  zip warning: (if you are trying to read a damaged archive try -F)

zip error: Zip file structure invalid (file.txt)
mangesh@ip-172-31-37-172:~$ touch shree.txt
mangesh@ip-172-31-37-172:~$ ls
file.txt  my_project  shree.txt
mangesh@ip-172-31-37-172:~$ zip -r shree.zip my_project
  adding: my_project/ (stored 0%)
mangesh@ip-172-31-37-172:~$
```

i-078796b0cc648b0da (Task6-Ubuntu)

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```
mangesh@ip-172-31-37-172:~$ ls
file.txt  my_project  shree.txt  shree.zip
mangesh@ip-172-31-37-172:~$ unzip shree.zip
Archive:  shree.zip
mangesh@ip-172-31-37-172:~$
```

i-078796b0cc648b0da (Task6-Ubuntu)

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```

mangesh@ip-172-31-37-172:~$ nano backup.sh
mangesh@ip-172-31-37-172:~$ chmod +x backup.sh
mangesh@ip-172-31-37-172:~$ ./backup.sh
Starting backup of: /home/mangesh/Documents /home/mangesh/Pictures /etc
mkdir: cannot create directory '/mnt/backup': Permission denied
tar: Removing leading '/' from member names
tar: /home/mangesh/Documents: Cannot stat: No such file or directory
tar: /home/mangesh/Pictures: Cannot stat: No such file or directory
tar (child): /mnt/backup/backup_2026-01-26_15-54-24.tar.gz: Cannot open: No such file or directory
tar (child): Error is not recoverable: exiting now
tar: Removing leading '/' from hard link targets
tar: /mnt/backup/backup_2026-01-26_15-54-24.tar.gz: Cannot write: Broken pipe
tar: Child returned status 2
tar: Error is not recoverable: exiting now
Backup created: /mnt/backup/backup_2026-01-26_15-54-24.tar.gz
find: '/mnt/backup': No such file or directory
Old backups cleaned up.
mangesh@ip-172-31-37-172:~$ crontab -e
no crontab for mangesh - using an empty one

Select an editor.  To change later, run 'select-editor'.
 1. /bin/nano      <---- easiest

```

i-078796b0cc648b0da (Task6-Ubuntu)

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```

mangesh@ip-172-31-37-172:~$ crontab -l
0 2 * * * /home/your_username/backup.sh >> /var/log/backup.log 2>&1
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#

```

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# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h dom mon dow   command
mangesh@ip-172-31-37-172:~$ rsync -avcn --checksum /path/to/source/ /path/to/backup/
sending incremental file list
rsync: [sender] change_dir "/path/to/source" failed: No such file or directory (2)
created directory /path/to/backup

sent 19 bytes  received 50 bytes  138.00 bytes/sec
total size is 0  speedup is 0.00 (DRY RUN)
rsync error: some files/attrs were not transferred (see previous errors) (code 23) at main.c(1338) [sender=3.2.7]
mangesh@ip-172-31-37-172:~$
```

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