

1: Using dnf

```
[root@localhost ~]# dnf install https://dl.google.com/linux/direct/google-chrome-stable_current_x86_64.rpm
Last metadata expiration check: 2:59:26 ago on Tue 08 Aug 2023 02:05:02 PM EET.
google-chrome-stable_current_x86_64.rpm          3.7 MB/s | 92 MB     00:25
Dependencies resolved.
=====
Package                Arch      Version              Repository           Size
=====
Installing:
google-chrome-stable    x86_64    115.0.5790.170-1     @commandline        92 M
Installing dependencies:
liberation-fonts        noarch    1:2.1.3-4.el9        appstream            4.9 k

Transaction Summary
=====
Install 2 Packages

Total size: 92 M
Total download size: 4.9 k
Installed size: 302 M
Is this ok [y/N]: y
Downloading Packages:
liberation-fonts-2.1.3-4.el9.noarch.rpm          7.7 kB/s | 4.9 kB     00:00
-----
Total                                           2.6 kB/s | 4.9 kB     00:01
CentOS Stream 9 - AppStream                    323 kB/s | 1.6 kB     00:00
Importing GPG key 0x8483C65D:
  Userid   : "CentOS (CentOS Official Signing Key) <security@centos.org>"
  Fingerprint: 99DB 70FA E1D7 CE22 7FB6 4882 05B5 55B3 8483 C65D
  From      : /etc/pki/rpm-gpg/RPM-GPG-KEY-centosofficial
Is this ok [y/N]: y
Key imported successfully
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      :                                1/1
  Installing     : liberation-fonts-1:2.1.3-4.el9.noarch 1/2
```

Using wget:

```
[root@localhost ~]# wget /google-chrome-stable_current_x86_64.rpm
/google-chrome-stable_current_x86_64.rpm: Scheme missing.
[root@localhost ~]# wget /google-chrome-stable_current_x86_64.rpm
/google-chrome-stable_current_x86_64.rpm: Scheme missing.
[root@localhost ~]# wget https://dl.google.com/linux/direct/google-chrome-stable_current_x86_64.rpm
--2023-08-08 20:38:11-- https://dl.google.com/linux/direct/google-chrome-stable_current_x86_64.rpm
Resolving dl.google.com (dl.google.com)... 142.250.200.206, 2a00:1450:4006:80c::200e
Connecting to dl.google.com (dl.google.com)|142.250.200.206|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 96815476 (92M) [application/x-rpm]
Saving to: 'google-chrome-stable_current_x86_64.rpm'

google-chrome-stable_curre 100%[=====>] 92.33M  3.93MB/s   in 26s

2023-08-08 20:38:38 (3.58 MB/s) - 'google-chrome-stable_current_x86_64.rpm' saved [96815476/96815476]
```

2-

```
[root@localhost ~]# umount /dev/sr1
[root@localhost ~]# lsblk
NAME                MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
sda                  8:0    0    20G  0 disk
├─sda1                8:1    0     1G  0 part /boot
├─sda2                8:2    0     2G  0 part [SWAP]
├─sda3                8:3    0    17G  0 part /
sdb                  8:16   0    20G  0 disk
├─sdb1                8:17   0   300M  0 part
├─sdb2                8:18   0   300M  0 part
│   └─test0-lvl       253:0   0   140M  0 lvm  /data
│       └─test0-docs  253:1   0    72M  0 lvm  /docs
sdc                  8:32   0    20G  0 disk
sr0                  11:0    1 102.3M  0 rom  /mnt
                                   /run/media/nada/CDROM
sr1                  11:1    1   8.7G  0 rom

[root@localhost ~]# mkdir /disk1
[root@localhost ~]# mount /dev/sr1 /disk
mount: /disk: mount point does not exist.
[root@localhost ~]# mount /dev/sr1 /disk1
mount: /disk1: WARNING: source write-protected, mounted read-only.
[root@localhost ~]# ls disk1
ls: cannot access 'disk1': No such file or directory
[root@localhost ~]# ls /disk1
AppStream BaseOS EFI EULA extra_files.json images isolinux LICENSE media.repo
[root@localhost ~]#
```

```
GNU nano 5.6.1 /etc/yum.repos.d/cdrom.repo
[CDROM]
name=Red Hat CD-ROM Repository
baseurl=file:///disk1/BaseOS
enabled=1
gpgcheck=0

[CDROM2]
name=Red Hat CD-ROM Repository
baseurl=file:///disk1/AppStream
enabled=1
gpgcheck=0
```

3-

```
[root@localhost ~]# yum install httpd
Red Hat CD-ROM Repository          5.5 MB/s | 1.6 MB   00:00
Red Hat CD-ROM Repository          11 MB/s | 6.0 MB   00:00
Dependencies resolved.
=====
Package                        Architecture      Version           Repository        Size
=====
Installing:
  httpd                        x86_64            2.4.57-3.el9      appstream         48 k
Installing dependencies:
  apr                          x86_64            1.7.0-11.el9      CDROM2            123 k
  apr-util                     x86_64            1.6.1-23.el9      appstream         95 k
  apr-util-bdb                 x86_64            1.6.1-23.el9      appstream         13 k
  centos-logos-httpd          noarch            90.4-1.el9        CDROM2            252 k
  httpd-core                   x86_64            2.4.57-3.el9      appstream         1.5 M
  httpd-filesystem             noarch            2.4.57-3.el9      appstream         13 k
  httpd-tools                  x86_64            2.4.57-3.el9      appstream         82 k
Installing weak dependencies:
  apr-util-openssl             x86_64            1.6.1-23.el9      appstream         15 k
  mod_http2                    x86_64            1.15.19-4.el9     appstream         149 k
  mod_lua                       x86_64            2.4.57-3.el9      appstream         61 k

Transaction Summary
=====
Install 11 Packages

Total size: 2.3 M
Total download size: 2.0 M
Installed size: 6.4 M
Is this ok [y/N]: y
Downloading Packages:
(1/9): apr-util-bdb-1.6.1-23.el9.x86_64.rpm          21 kB/s | 13 kB   00:00
(2/9): apr-util-openssl-1.6.1-23.el9.x86_64.rpm      23 kB/s | 15 kB   00:00
(3/9): apr-util-1.6.1-23.el9.x86_64.rpm             112 kB/s | 95 kB   00:00
(4/9): httpd-2.4.57-3.el9.x86_64.rpm                 211 kB/s | 48 kB   00:00
(5/9): httpd-core-2.4.57-3.el9.x86_64.rpm            211 kB/s | 1.5 M   00:00
(6/9): httpd-filesystem-2.4.57-3.el9.noarch           13 kB/s | 13 kB   00:00
(7/9): httpd-tools-2.4.57-3.el9.x86_64.rpm           211 kB/s | 82 kB   00:00
(8/9): centos-logos-httpd-90.4-1.el9.noarch          252 kB/s | 252 kB   00:00
(9/9): apr-1.7.0-11.el9.x86_64.rpm                   123 kB/s | 123 kB   00:00
```

1-using rpm

```
[root@localhost ~]# rpm -qa | head -5
libgcc-11.3.1-4.el9.x86_64
fonts-filesystem-2.0.5-7.el9.1.noarch
linux-firmware-whence-20221012-128.el9.noarch
crypto-policies-20221003-1.git04dee29.el9.noarch
hwdata-0.348-9.5.el9.noarch
[root@localhost ~]#
```

2-

```
[root@localhost ~]# rpm -ql httpd
/etc/httpd/conf.modules.d/00-brotli.conf
/etc/httpd/conf.modules.d/00-systemd.conf
/usr/lib/.build-id
/usr/lib/.build-id/a5
/usr/lib/.build-id/a5/48da45d8f12522a9e0f8ec2ab86f1b909f2ec5
/usr/lib/.build-id/b7
/usr/lib/.build-id/b7/f224e87b751cc6de1e739876f017e1d97c4df4
/usr/lib/systemd/system/htcacheclean.service
/usr/lib/systemd/system/httpd.service
/usr/lib/systemd/system/httpd.socket
/usr/lib/systemd/system/httpd@.service
/usr/lib64/httpd/modules/mod_brotli.so
/usr/lib64/httpd/modules/mod_systemd.so
/usr/share/man/man5/httpd.conf.5.gz
/usr/share/man/man8/apachectl.8.gz
/usr/share/man/man8/fcgistarter.8.gz
/usr/share/man/man8/htcacheclean.8.gz
/usr/share/man/man8/htcacheclean.service.8.gz
/usr/share/man/man8/httpd.8.gz
/usr/share/man/man8/httpd.service.8.gz
/usr/share/man/man8/httpd.socket.8.gz
/usr/share/man/man8/httpd@.service.8.gz
/usr/share/man/man8/rotatelogs.8.gz
/usr/share/man/man8/suexec.8.gz
[root@localhost ~]#
```

3-

```
[root@localhost ~]# rpm -qi httpd
Name           : httpd
Version        : 2.4.57
Release        : 3.el9
Architecture   : x86_64
Install Date   : Tue 08 Aug 2023 08:32:59 PM EET
Group          : Unspecified
Size           : 60609
License        : ASL 2.0
Signature      : RSA/SHA256, Wed 19 Jul 2023 05:52:12 PM EET, Key ID 05b555b38483c65d
Source RPM     : httpd-2.4.57-3.el9.src.rpm
Build Date     : Tue 11 Jul 2023 03:46:10 PM EET
Build Host     : x86-03.stream.rdu2.redhat.com
Packager       : builder@centos.org
Vendor         : CentOS
URL            : https://httpd.apache.org/
Summary        : Apache HTTP Server
Description    :
The Apache HTTP Server is a powerful, efficient, and extensible
web server.
```

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```
[root@localhost ~]# rpm -V pam
....L.... c /etc/pam.d/fingerprint-auth
....L.... c /etc/pam.d/password-auth
....L.... c /etc/pam.d/postlogin
....L.... c /etc/pam.d/smartcard-auth
....L.... c /etc/pam.d/system-auth
[root@localhost ~]#
```