

1.Linux

2025-03-23 12:28:55 root@f189dff529dd:/# cd

2025-03-23 12:33:04

root@f189dff529dd:~# pwd

2025-03-23 12:33:04

/root

2025-03-23 12:33:08 root@f189dff529dd:~# ls -a

2025-03-23 12:33:08

. .. .bashrc .profile

2025-03-23 12:33:33 root@f189dff529dd:~#

root@f189dff529dd:~# ping cloudflare.com

2025-03-23 12:33:33

bash: ping: command not found

2025-03-23 12:34:14 root@f189dff529dd:~# nslookup cloudflare.com

2025-03-23 12:34:14

bash: nslookup: command not found

2025-03-23 12:34:30 root@f189dff529dd:~# dig cloudflare.com

2025-03-23 12:34:30

bash: dig: command not found

2025-03-23 12:35:23 root@f189dff529dd:~# sudo apt install nslookup

2025-03-23 12:35:23

bash: sudo: command not found

2025-03-23 12:35:56 root@f189dff529dd:~# sudo apt update

2025-03-23 12:35:56

bash: sudo: command not found

2025-03-23 12:36:29 root@f189dff529dd:~# apt update

2025-03-23 12:36:30

2000-01-01 00:00:00 [Working]

2001-01-01 00:00:00 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]

2025-03-23 12:36:30

2000-01-01 00:00:00 [Waiting for headers] [1 InRelease 2596 B/126 kB 2%]

2001-02-01 00:00:00 http://archive.ubuntu.com/ubuntu noble InRelease [256 kB]

2025-03-23 12:36:30

2000-01-01 00:00:00 [2 InRelease 1140 B/256 kB 0%] [1 InRelease 14.2 kB/126 kB 11%]

2000-01-01 00:00:00 [2 InRelease 86.8 kB/256 kB 34%]

2000-01-01 00:00:00 [2 InRelease 122 kB/256 kB 48%]

2001-03-01 00:00:00 http://security.ubuntu.com/ubuntu noble-security/main amd64

Packages [845 kB]

2025-03-23 12:36:30

2000-01-01 00:00:00 [2 InRelease 212 kB/256 kB 83%] [3 Packages 2665 B/845 kB 0%]

2000-01-01 00:00:00 [3 Packages 57.8 kB/845 kB 7%]

2000-01-01 00:00:00 [Waiting for headers] [3 Packages 136 kB/845 kB 16%]

2001-04-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble-updates InRelease [126 kB]

2025-03-23 12:36:31

2000-01-01 00:00:00 [4 InRelease 5500 B/126 kB 4%] [3 Packages 226 kB/845 kB 27%]

2000-01-01 00:00:00 [3 Packages 316 kB/845 kB 37%]

2000-01-01 00:00:00 [Waiting for headers] [3 Packages 464 kB/845 kB 55%]

2001-05-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble-backports InRelease [126 kB]

2025-03-23 12:36:31

2000-01-01 00:00:00 [5 InRelease 8404 B/126 kB 7%] [3 Packages 624 kB/845 kB 74%]

2000-01-01 00:00:00 [3 Packages 744 kB/845 kB 88%]

16% [Waiting for headers] [3 Packages 820 kB/845 kB 97%]

16% [Waiting for headers]

16% [3 Packages store 0 B] [Waiting for headers] [Waiting for headers]

17% [Waiting for headers] [Waiting for headers]

2001-06-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble/restricted amd64 Packages [117 kB]

2025-03-23 12:36:31

17% [6 Packages 5569 B/117 kB 5%] [Waiting for headers]

2001-07-01 00:00:00 <http://security.ubuntu.com/ubuntu> noble-security/restricted amd64 Packages [916 kB]

2025-03-23 12:36:31

17% [6 Packages 107 kB/117 kB 91%] [7 Packages 9925 B/916 kB 1%]

17% [Waiting for headers] [7 Packages 53.2 kB/916 kB 6%]

2001-08-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble/multiverse amd64 Packages [331 kB]

2025-03-23 12:36:31

17% [8 Packages 11.3 kB/331 kB 3%] [7 Packages 61.4 kB/916 kB 7%]

17% [6 Packages store 0 B] [8 Packages 11.3 kB/331 kB 3%] [7 Packages 63.6 kB/916 kB 7%]

18% [8 Packages 12.8 kB/331 kB 4%] [7 Packages 73.8 kB/916 kB 8%]

21% [Waiting for headers] [7 Packages 861 kB/916 kB 94%]

2001-09-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble/main amd64 Packages [1808 kB]

2025-03-23 12:36:31

21% [9 Packages 1607 B/1808 kB 0%] [7 Packages 861 kB/916 kB 94%]
21% [8 Packages store 0 B] [9 Packages 1607 B/1808 kB 0%] [7 Packages 861 kB/916 kB 94%]

21% [8 Packages store 0 B] [9 Packages 27.3 kB/1808 kB 2%] [Waiting for headers]

2001-10-01 00:00:00 <http://security.ubuntu.com/ubuntu> noble-security/universe amd64 Packages [1060 kB]

2025-03-23 12:36:31

21% [8 Packages store 0 B] [9 Packages 27.3 kB/1808 kB 2%] [10 Packages 20.1 kB/1060 kB 2%]

22% [9 Packages 27.3 kB/1808 kB 2%] [10 Packages 20.1 kB/1060 kB 2%]

22% [7 Packages store 0 B] [9 Packages 27.3 kB/1808 kB 2%] [10 Packages 20.1 kB/1060 kB 2%]

23% [9 Packages 73.8 kB/1808 kB 4%] [10 Packages 210 kB/1060 kB 20%]

26% [9 Packages 227 kB/1808 kB 13%] [Waiting for headers]

2001-11-01 00:00:00 <http://security.ubuntu.com/ubuntu> noble-security/multiverse amd64 Packages [34.0 kB]

2025-03-23 12:36:31

26% [9 Packages 227 kB/1808 kB 13%] [11 Packages 21.3 kB/34.0 kB 63%]

26% [10 Packages store 0 B] [9 Packages 227 kB/1808 kB 13%] [11 Packages 21.3 kB/34.0 kB 63%]

26% [10 Packages store 0 B] [9 Packages 241 kB/1808 kB 13%]

27% [9 Packages 421 kB/1808 kB 23%]

27% [11 Packages store 0 B] [9 Packages 421 kB/1808 kB 23%]

28% [9 Packages 438 kB/1808 kB 24%]

2032-01-01 00:00:00 [Waiting for headers]

2001-12-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble/universe amd64 Packages [19.3 MB]

2025-03-23 12:36:33

2032-01-01 00:00:00 [12 Packages 20.5 kB/19.3 MB 0%]

2032-01-01 00:00:00 [9 Packages store 0 B] [12 Packages 24.6 kB/19.3 MB 0%]

2034-01-01 00:00:00 [12 Packages 695 kB/19.3 MB 4%]

1972-01-01 00:00:00 [12 Packages 14.3 MB/19.3 MB 74%]

1975-01-01 00:00:00 [12 Packages 15.4 MB/19.3 MB 80%]

1986-01-01 00:00:00 [Waiting for headers]

Get:13 <http://archive.ubuntu.com/ubuntu> noble-updates/main amd64 Packages [1171 kB]

2025-03-23 12:36:33

1986-01-01 00:00:00 [13 Packages 1415 B/1171 kB 0%]

1986-01-01 00:00:00 [12 Packages store 0 B] [13 Packages 57.3 kB/1171 kB 5%]

1989-01-01 00:00:00 [12 Packages store 0 B] [Waiting for headers]

Get:14 <http://archive.ubuntu.com/ubuntu> noble-updates/universe amd64 Packages [1351 kB]

2025-03-23 12:36:33

1989-01-01 00:00:00 [12 Packages store 0 B] [14 Packages 32.0 kB/1351 kB 2%]

1993-01-01 00:00:00 [12 Packages store 0 B] [Waiting for headers]

Get:15 <http://archive.ubuntu.com/ubuntu> noble-updates/multiverse amd64 Packages [38.7 kB]

2025-03-23 12:36:33

1993-01-01 00:00:00 [12 Packages store 0 B] [15 Packages 11.2 kB/38.7 kB 29%]

1993-01-01 00:00:00 [12 Packages store 0 B] [Waiting for headers]

Get:16 <http://archive.ubuntu.com/ubuntu> noble-updates/restricted amd64 Packages [962 kB]

2025-03-23 12:36:33

1993-01-01 00:00:00 [12 Packages store 0 B] [16 Packages 32.6 kB/962 kB 3%]

1996-01-01 00:00:00 [12 Packages store 0 B] [Waiting for headers]

Get:17 <http://archive.ubuntu.com/ubuntu> noble-backports/main amd64 Packages [48.0 kB]

2025-03-23 12:36:33

1996-01-01 00:00:00 [12 Packages store 0 B] [17 Packages 15.0 kB/48.0 kB 31%]

1996-01-01 00:00:00 [12 Packages store 0 B] [Waiting for headers]

Get:18 <http://archive.ubuntu.com/ubuntu> noble-backports/universe amd64 Packages [30.9 kB]

2025-03-23 12:36:33

1996-01-01 00:00:00 [12 Packages store 0 B] [18 Packages 2597 B/30.9 kB 8%]

1996-01-01 00:00:00 [12 Packages store 0 B]

1997-01-01 00:00:00 [Working]

1997-01-01 00:00:00 [13 Packages store 0 B]

1997-01-01 00:00:00 [Working]

1997-01-01 00:00:00 [14 Packages store 0 B]

1998-01-01 00:00:00 [Working]

1998-01-01 00:00:00 [15 Packages store 0 B]

1998-01-01 00:00:00 [Working]
1998-01-01 00:00:00 [16 Packages store 0 B]

1999-01-01 00:00:00 [Working]
1999-01-01 00:00:00 [17 Packages store 0 B]

1999-01-01 00:00:00 [Working]
1999-01-01 00:00:00 [18 Packages store 0 B]

0100-01-01 00:00:00 [Working]

Fetchd 28.7 MB in 4s (7260 kB/s)
2025-03-23 12:36:34
Reading package lists... 0%

Reading package lists... 0%

Reading package lists... 0%

Reading package lists... 6%

Reading package lists... 6%

Reading package lists... 71%

Reading package lists... 71%

Reading package lists... 72%

Reading package lists... 72%

Reading package lists... 73%

Reading package lists... 73%

Reading package lists... 77%

Reading package lists... 77%

Reading package lists... 83%

Reading package lists... 83%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 91%

Reading package lists... 91%

Reading package lists... 95%

Reading package lists... 95%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... Done

2025-03-23 12:36:34

Building dependency tree... 0%

Building dependency tree... 0%

Building dependency tree... 0%

Building dependency tree... 50%

Building dependency tree... 50%

Building dependency tree... Done

2025-03-23 12:36:34

Reading state information... 0%

Reading state information... 98%

Reading state information... Done

2025-03-23 12:36:34 18 packages can be upgraded. Run 'apt list --upgradable' to see them.
2025-03-23 12:36:43 root@f189dff529dd:~# apt install dnsutils
2025-03-23 12:36:44

Reading package lists... 0%

Reading package lists... 0%

Reading package lists... 0%

Reading package lists... 6%

Reading package lists... 6%

Reading package lists... 71%

Reading package lists... 71%

Reading package lists... 72%

Reading package lists... 72%

Reading package lists... 73%

Reading package lists... 73%

Reading package lists... 77%

Reading package lists... 77%

Reading package lists... 83%

Reading package lists... 83%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 91%

Reading package lists... 91%

Reading package lists... 95%

Reading package lists... 95%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... Done

2025-03-23 12:36:44

Building dependency tree... 0%

Building dependency tree... 0%

Building dependency tree... 50%

Building dependency tree... 50%

Building dependency tree... Done

2025-03-23 12:36:44

Reading state information... 0%

Reading state information... 98%

Reading state information... Done

2025-03-23 12:36:44 The following additional packages will be installed:

2025-03-23 12:36:44 bind9-dnsutils bind9-host bind9-libs krb5-locales libbsd0 libedit2
libgssapi-krb5-2 libicu74

2025-03-23 12:36:44 libjson-c5 libk5crypto3 libkeyutils1 libkrb5-3 libkrb5support0 liblmdb0
libmaxminddb0 libnghttp2-14

2025-03-23 12:36:44 libuv1t64 libxml2

2025-03-23 12:36:44 Suggested packages:

2025-03-23 12:36:44 krb5-doc krb5-user mmdb-bin

2025-03-23 12:36:44 The following NEW packages will be installed:

2025-03-23 12:36:44 bind9-dnsutils bind9-host bind9-libs dnsutils krb5-locales libbsd0
libedit2 libgssapi-krb5-2
2025-03-23 12:36:44 libicu74 libjson-c5 libk5crypto3 libkeyutils1 libkrb5-3 libkrb5support0
liblmbdb0 libmaxminddb0
2025-03-23 12:36:44 libnghttp2-14 libuv1t64 libxml2
2025-03-23 12:36:44 0 upgraded, 19 newly installed, 0 to remove and 18 not upgraded.
2025-03-23 12:36:44 Need to get 14.1 MB of archives.
2025-03-23 12:36:44 After this operation, 46.3 MB of additional disk space will be used.
2025-03-23 12:36:46 Do you want to continue? [Y/n] y
2025-03-23 12:36:46
2000-01-01 00:00:00 [Working]

2001-01-01 00:00:00 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
krb5-locales all 1.20.1-6ubuntu2.5 [14.5 kB]
2025-03-23 12:36:46
2000-01-01 00:00:00 [1 krb5-locales 12.8 kB/14.5 kB 88%]

2001-01-01 00:00:00 [Working]

2001-02-01 00:00:00 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libbsd0
amd64 0.12.1-1build1.1 [41.2 kB]
2025-03-23 12:36:46
2001-01-01 00:00:00 [2 libbsd0 2614 B/41.2 kB 6%]

2001-02-01 00:00:00 [Waiting for headers]

2001-03-01 00:00:00 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
libkrb5support0 amd64 1.20.1-6ubuntu2.5 [34.1 kB]
2025-03-23 12:36:46
2001-02-01 00:00:00 [3 libkrb5support0 290 B/34.1 kB 1%]

2001-04-01 00:00:00 [Waiting for headers]

2001-04-01 00:00:00 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
libk5crypto3 amd64 1.20.1-6ubuntu2.5 [82.0 kB]
2025-03-23 12:36:46
2001-04-01 00:00:00 [4 libk5crypto3 67 B/82.0 kB 0%]

2001-05-01 00:00:00 [Waiting for headers]

2001-05-01 00:00:00 http://archive.ubuntu.com/ubuntu noble/main amd64 libkeyutils1
amd64 1.6.3-3build1 [9490 B]
2025-03-23 12:36:46
2001-05-01 00:00:00 [5 libkeyutils1 1233 B/9490 B 13%]

2001-06-01 00:00:00 [Waiting for headers]

2001-06-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble-updates/main amd64 libkrb5-3
amd64 1.20.1-6ubuntu2.5 [347 kB]
2025-03-23 12:36:46
2001-06-01 00:00:00 [6 libkrb5-3 163 B/347 kB 0%]

2001-09-01 00:00:00 [Waiting for headers]

2001-07-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble-updates/main amd64
libgssapi-krb5-2 amd64 1.20.1-6ubuntu2.5 [143 kB]
2025-03-23 12:36:46
2001-09-01 00:00:00 [7 libgssapi-krb5-2 12.7 kB/143 kB 9%]

2001-11-01 00:00:00 [Waiting for headers]

2001-08-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble-updates/main amd64 libicu74
amd64 74.2-1ubuntu3.1 [10.9 MB]
2025-03-23 12:36:47
2001-11-01 00:00:00 [8 libicu74 14.0 kB/10.9 MB 0%]
1965-01-01 00:00:00 [8 libicu74 9541 kB/10.9 MB 88%]

1974-01-01 00:00:00 [Waiting for headers]

2001-09-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble/main amd64 libjson-c5 amd64
0.17-1build1 [35.3 kB]
2025-03-23 12:36:47
1974-01-01 00:00:00 [9 libjson-c5 4124 B/35.3 kB 12%]

1975-01-01 00:00:00 [Working]

2001-10-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble-updates/main amd64 libxml2
amd64 2.9.14+dfsg-1.3ubuntu3.2 [763 kB]
2025-03-23 12:36:47
1975-01-01 00:00:00 [10 libxml2 30.0 kB/763 kB 4%]

1980-01-01 00:00:00 [Waiting for headers]

2001-11-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble/main amd64 libuv1t64 amd64
1.48.0-1.1build1 [97.3 kB]
2025-03-23 12:36:47
1980-01-01 00:00:00 [11 libuv1t64 14.2 kB/97.3 kB 15%]

1982-01-01 00:00:00 [Waiting for headers]

2001-12-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble/main amd64 liblmdb0 amd64
0.9.31-1build1 [48.1 kB]
2025-03-23 12:36:47
1982-01-01 00:00:00 [12 liblmdb0 8192 B/48.1 kB 17%]

1983-01-01 00:00:00 [Working]

Get:13 <http://archive.ubuntu.com/ubuntu> noble/main amd64 libmaxminddb0 amd64
1.9.1-1build1 [24.4 kB]
2025-03-23 12:36:47
1983-01-01 00:00:00 [13 libmaxminddb0 4258 B/24.4 kB 17%]

1984-01-01 00:00:00 [Waiting for headers]

Get:14 <http://archive.ubuntu.com/ubuntu> noble-updates/main amd64 libnghttp2-14 amd64
1.59.0-1ubuntu0.2 [74.3 kB]
2025-03-23 12:36:47
1984-01-01 00:00:00 [14 libnghttp2-14 6561 B/74.3 kB 9%]

1986-01-01 00:00:00 [Working]

Get:15 <http://archive.ubuntu.com/ubuntu> noble-updates/main amd64 bind9-libs amd64
1:9.18.30-0ubuntu0.24.04.2 [1253 kB]
2025-03-23 12:36:47
1986-01-01 00:00:00 [15 bind9-libs 10.5 kB/1253 kB 1%]

1994-01-01 00:00:00 [Waiting for headers]

Get:16 <http://archive.ubuntu.com/ubuntu> noble-updates/main amd64 bind9-host amd64
1:9.18.30-0ubuntu0.24.04.2 [50.4 kB]
2025-03-23 12:36:47
1994-01-01 00:00:00 [16 bind9-host 4096 B/50.4 kB 8%]

1995-01-01 00:00:00 [Working]

Get:17 <http://archive.ubuntu.com/ubuntu> noble/main amd64 libedit2 amd64
3.1-20230828-1build1 [97.6 kB]
2025-03-23 12:36:47
1995-01-01 00:00:00 [17 libedit2 11.5 kB/97.6 kB 12%]

1997-01-01 00:00:00 [Working]

Get:18 <http://archive.ubuntu.com/ubuntu> noble-updates/main amd64 bind9-dnsutils amd64
1:9.18.30-0ubuntu0.24.04.2 [155 kB]
2025-03-23 12:36:47
1997-01-01 00:00:00 [18 bind9-dnsutils 1293 B/155 kB 1%]

1999-01-01 00:00:00 [Waiting for headers]

Get:19 <http://archive.ubuntu.com/ubuntu> noble-updates/universe amd64 dnsutils all
1:9.18.30-0ubuntu0.24.04.2 [3682 B]
2025-03-23 12:36:47
1999-01-01 00:00:00 [19 dnsutils 3682 B/3682 B 100%]

0100-01-01 00:00:00 [Working]

Fetched 14.1 MB in 1s (11.7 MB/s)

2025-03-23 12:36:47 debconf: delaying package configuration, since apt-utils is not installed

2025-03-23 12:36:47 Selecting previously unselected package krb5-locales.

2025-03-23 12:36:47 (Reading database ...

(Reading database ... 5%

(Reading database ... 10%

(Reading database ... 15%

(Reading database ... 20%

(Reading database ... 25%

(Reading database ... 30%

(Reading database ... 35%

(Reading database ... 40%

(Reading database ... 45%

(Reading database ... 50%

(Reading database ... 55%

(Reading database ... 60%

(Reading database ... 65%

(Reading database ... 70%

(Reading database ... 75%

(Reading database ... 80%

(Reading database ... 85%

(Reading database ... 90%

(Reading database ... 95%

(Reading database ... 100%

(Reading database ... 4383 files and directories currently installed.)

2025-03-23 12:36:47 Preparing to unpack .../00-krb5-locales_1.20.1-6ubuntu2.5_all.deb ...

Progress: [1%] [#Unpacking krb5-locales (1.20.1-6ubuntu2.5)]

Progress: [3%] [##Selecting previously unselected package
libbsd0:amd64.....]

2025-03-23 12:36:47 Preparing to unpack .../01-libbsd0_0.12.1-1build1.1_amd64.deb ...

Progress: [4%] [##Unpacking libbsd0:amd64 (0.12.1-1build1.1)]

Progress: [5%] [##Selecting previously unselected package
libkrb5support0:amd64.....]

2025-03-23 12:36:47 Preparing to unpack

.../02-libkrb5support0_1.20.1-6ubuntu2.5_amd64.deb ...

Progress: [6%] [##Unpacking libkrb5support0:amd64 (1.20.1-6ubuntu2.5)
.....]

Progress: [8%] [##Selecting previously unselected package
libk5crypto3:amd64.....]

2025-03-23 12:36:47 Preparing to unpack .../03-libk5crypto3_1.20.1-6ubuntu2.5_amd64.deb
...

Progress: [9%] [##Unpacking libk5crypto3:amd64 (1.20.1-6ubuntu2.5)]

Progress: [10%] [##Selecting previously unselected package
libkeyutils1:amd64.....]

2025-03-23 12:36:48 Preparing to unpack .../04-libkeyutils1_1.6.3-3build1_amd64.deb ...

Progress: [12%] [##Unpacking libkeyutils1:amd64 (1.6.3-3build1)]
Progress: [13%] [##Selecting previously unselected package
libkrb5-3:amd64.....]
2025-03-23 12:36:48 Preparing to unpack .../05-libkrb5-3_1.20.1-6ubuntu2.5_amd64.deb ...
Progress: [14%] [##Unpacking libkrb5-3:amd64 (1.20.1-6ubuntu2.5)]
Progress: [16%] [##Selecting previously unselected package
libgssapi-krb5-2:amd64.....]
2025-03-23 12:36:48 Preparing to unpack
.../06-libgssapi-krb5-2_1.20.1-6ubuntu2.5_amd64.deb ...
Progress: [17%] [##Unpacking libgssapi-krb5-2:amd64 (1.20.1-6ubuntu2.5)
.....]
Progress: [18%] [##Selecting previously unselected package
libc74:amd64.....]
2025-03-23 12:36:48 Preparing to unpack .../07-libc74_74.2-1ubuntu3.1_amd64.deb ...
Progress: [19%] [##Unpacking libc74:amd64 (74.2-1ubuntu3.1)]
Progress: [21%] [##Selecting previously unselected package
libjson-c5:amd64.....]
2025-03-23 12:36:48 Preparing to unpack .../08-libjson-c5_0.17-1build1_amd64.deb ...
Progress: [22%] [##Unpacking libjson-c5:amd64 (0.17-1build1)]
Progress: [23%] [##Selecting previously unselected package
libxml2:amd64.....]
2025-03-23 12:36:48 Preparing to unpack
.../09-libxml2_2.9.14+dfsg-1.3ubuntu3.2_amd64.deb ...
Progress: [25%] [##Unpacking libxml2:amd64 (2.9.14+dfsg-1.3ubuntu3.2)
.....]
Progress: [26%] [##Selecting previously unselected package
libuv1t64:amd64.....]
2025-03-23 12:36:48 Preparing to unpack .../10-libuv1t64_1.48.0-1.1build1_amd64.deb ...
Progress: [27%] [##Unpacking libuv1t64:amd64 (1.48.0-1.1build1)]
Progress: [29%] [##Selecting previously unselected package
liblmb0:amd64.....]
2025-03-23 12:36:48 Preparing to unpack .../11-liblmb0_0.9.31-1build1_amd64.deb ...
Progress: [30%] [##Unpacking liblmb0:amd64 (0.9.31-1build1)]
Progress: [31%] [##Selecting previously unselected package
libmaxminddb0:amd64.....]
2025-03-23 12:36:48 Preparing to unpack .../12-libmaxminddb0_1.9.1-1build1_amd64.deb
...
Progress: [32%] [##Unpacking libmaxminddb0:amd64 (1.9.1-1build1)]
Progress: [34%] [##Selecting previously unselected package
libnghttp2-14:amd64.....]
2025-03-23 12:36:48 Preparing to unpack
.../13-libnghttp2-14_1.59.0-1ubuntu0.2_amd64.deb ...
Progress: [35%] [##Unpacking libnghttp2-14:amd64 (1.59.0-1ubuntu0.2)
.....]
Progress: [36%] [##Selecting previously unselected package
bind9-libs:amd64.....]
2025-03-23 12:36:48 Preparing to unpack
.../14-bind9-libs_1%3a9.18.30-0ubuntu0.24.04.2_amd64.deb ...

Progress: [38%] [##Unpacking bind9-libs:amd64 (1:9.18.30-0ubuntu0.24.04.2)
.....]
Progress: [39%] [##Selecting previously unselected package bind9-host.....]
2025-03-23 12:36:48 Preparing to unpack
.../15-bind9-host_1%3a9.18.30-0ubuntu0.24.04.2_amd64.deb ...
Progress: [40%] [##Unpacking bind9-host (1:9.18.30-0ubuntu0.24.04.2)]
Progress: [42%] [##Selecting previously unselected package
libedit2:amd64.....]
2025-03-23 12:36:48 Preparing to unpack .../16-libedit2_3.1-20230828-1build1_amd64.deb
...
Progress: [43%] [##Unpacking libedit2:amd64 (3.1-20230828-1build1)]
Progress: [44%] [##Selecting previously unselected package
bind9-dnsutils.....]
2025-03-23 12:36:48 Preparing to unpack
.../17-bind9-dnsutils_1%3a9.18.30-0ubuntu0.24.04.2_amd64.deb ...
Progress: [45%] [##Unpacking bind9-dnsutils (1:9.18.30-0ubuntu0.24.04.2)
.....]
Progress: [47%] [##Selecting previously unselected package dnsutils.....]
2025-03-23 12:36:48 Preparing to unpack
.../18-dnsutils_1%3a9.18.30-0ubuntu0.24.04.2_all.deb ...
Progress: [48%] [##Unpacking dnsutils (1:9.18.30-0ubuntu0.24.04.2)]
Progress: [49%] [##Setting up liblmbd0:amd64 (0.9.31-1build1)]
Progress: [52%] [##Setting up libkeyutils1:amd64 (1.6.3-3build1)]
Progress: [55%] [##Setting up libmaxminddb0:amd64 (1.9.1-1build1)]
Progress: [57%] [##Setting up libuv1t64:amd64 (1.48.0-1.1build1)]
Progress: [60%] [##Setting up libnghttp2-14:amd64 (1.59.0-1ubuntu0.2)]
Progress: [62%] [##Setting up krb5-locales (1.20.1-6ubuntu2.5) ...##.....]
Progress: [65%] [##Setting up libkrb5support0:amd64 (1.20.1-6ubuntu2.5)
.....]
Progress: [68%] [##Setting up libk5crypto3:amd64 (1.20.1-6ubuntu2.5)]
Progress: [70%] [##Setting up libicu74:amd64 (74.2-1ubuntu3.1)
...#####.....]
Progress: [73%] [##Setting up libkrb5-3:amd64 (1.20.1-6ubuntu2.5)
...#####.....]
Progress: [75%] [##Setting up libbsd0:amd64 (0.12.1-1build1.1)
...#####.....]
Progress: [78%] [##Setting up libjson-c5:amd64 (0.17-1build1)
...#####.....]
Progress: [81%] [##Setting up libxml2:amd64 (2.9.14+dfsg-1.3ubuntu3.2)
...#####.....]
Progress: [83%] [##Setting up libedit2:amd64 (3.1-20230828-1build1)
...#####.....]
Progress: [86%] [##Setting up libgssapi-krb5-2:amd64 (1.20.1-6ubuntu2.5)
...#####.....]
Progress: [88%] [##Setting up bind9-libs:amd64 (1:9.18.30-0ubuntu0.24.04.2)
...#####.....]
Progress: [91%] [##Setting up bind9-host (1:9.18.30-0ubuntu0.24.04.2)
...#####.....]

```
Progress: [ 94%] [##Setting up bind9-dnsutils (1:9.18.30-0ubuntu0.24.04.2)
...#####.....]
Progress: [ 96%] [##Setting up dnsutils (1:9.18.30-0ubuntu0.24.04.2)
...#####.....]
Progress: [ 99%] [##Processing triggers for libc-bin (2.39-0ubuntu8.3)
...#####..]
2025-03-23 12:36:49 root@f189dff529dd:~# nslookup cloudflare.com
2025-03-23 12:36:58
Server:192.168.65.7
2025-03-23 12:36:58 Address:192.168.65.7#53
2025-03-23 12:36:58
2025-03-23 12:36:58 Non-authoritative answer:
2025-03-23 12:36:58 Name:cloudflare.com
2025-03-23 12:36:58 Address: 104.16.133.229
2025-03-23 12:36:58 Name:cloudflare.com
2025-03-23 12:36:58 Address: 104.16.132.229
2025-03-23 12:36:58 Name:cloudflare.com
2025-03-23 12:36:58 Address: 2606:4700::6810:84e5
2025-03-23 12:36:58 Name:cloudflare.com
2025-03-23 12:36:58 Address: 2606:4700::6810:85e5
2025-03-23 12:36:58
2025-03-23 12:37:58 root@f189dff529dd:~# nano /etc/hosts
2025-03-23 12:37:58
bash: nano: command not found
2025-03-23 12:38:02 root@f189dff529dd:~# pwd
2025-03-23 12:38:02
/root
2025-03-23 12:38:04 root@f189dff529dd:~# ls
2025-03-23 12:38:07
root@f189dff529dd:~# ls -a
2025-03-23 12:38:07
. .. .bashrc .profile
2025-03-23 12:38:22 root@f189dff529dd:~# 8.8.8.8 google-dns
2025-03-23 12:38:22
bash: 8.8.8.8: command not found
2025-03-23 12:38:30 root@f189dff529dd:~# cd .profile
2025-03-23 12:38:30
bash: cd: .profile: Not a directory
2025-03-23 12:38:35 root@f189dff529dd:~# vim .profile
2025-03-23 12:38:35
bash: vim: command not found
2025-03-23 12:38:40 root@f189dff529dd:~# vim .bashrc
2025-03-23 12:38:40
bash: vim: command not found
2025-03-23 12:38:49 root@f189dff529dd:~# cat .profile
2025-03-23 12:38:49
# ~/.profile: executed by Bourne-compatible login shells.
2025-03-23 12:38:49
```

```
2025-03-23 12:38:49 if [ "$BASH" ]; then
2025-03-23 12:38:49   if [ -f ~/.bashrc ]; then
2025-03-23 12:38:49     . ~/.bashrc
2025-03-23 12:38:49   fi
2025-03-23 12:38:49 fi
2025-03-23 12:38:49
2025-03-23 12:38:49 mesg n 2> /dev/null || true
2025-03-23 12:38:57 root@f189dff529dd:~# cat .bashrc
2025-03-23 12:38:57
# ~/.bashrc: executed by bash(1) for non-login shells.
2025-03-23 12:38:57 # see /usr/share/doc/bash/examples/startup-files (in the package
bash-doc)
2025-03-23 12:38:57 # for examples
2025-03-23 12:38:57
2025-03-23 12:38:57 # If not running interactively, don't do anything
2025-03-23 12:38:57 [ -z "$PS1" ] && return
2025-03-23 12:38:57
2025-03-23 12:38:57 # don't put duplicate lines in the history. See bash(1) for more options
2025-03-23 12:38:57 # ... or force ignoredups and ignorespace
2025-03-23 12:38:57 HISTCONTROL=ignoredups:ignorespace
2025-03-23 12:38:57
2025-03-23 12:38:57 # append to the history file, don't overwrite it
2025-03-23 12:38:57 shopt -s histappend
2025-03-23 12:38:57
2025-03-23 12:38:57 # for setting history length see HISTSIZE and HISTFILESIZE in
bash(1)
2025-03-23 12:38:57 HISTSIZE=1000
2025-03-23 12:38:57 HISTFILESIZE=2000
2025-03-23 12:38:57
2025-03-23 12:38:57 # check the window size after each command and, if necessary,
2025-03-23 12:38:57 # update the values of LINES and COLUMNS.
2025-03-23 12:38:57 shopt -s checkwinsize
2025-03-23 12:38:57
2025-03-23 12:38:57 # make less more friendly for non-text input files, see lesspipe(1)
2025-03-23 12:38:57 [ -x /usr/bin/lesspipe ] && eval "$(SHELL=/bin/sh lesspipe)"
2025-03-23 12:38:57
2025-03-23 12:38:57 # set variable identifying the chroot you work in (used in the prompt
below)
2025-03-23 12:38:57 if [ -z "$debian_chroot" ] && [ -r /etc/debian_chroot ]; then
2025-03-23 12:38:57   debian_chroot=$(cat /etc/debian_chroot)
2025-03-23 12:38:57 fi
2025-03-23 12:38:57
2025-03-23 12:38:57 # set a fancy prompt (non-color, unless we know we "want" color)
2025-03-23 12:38:57 case "$TERM" in
2025-03-23 12:38:57   xterm-color) color_prompt=yes;;
2025-03-23 12:38:57   esac
2025-03-23 12:38:57
```



```

2025-03-23 12:38:57 # uncomment for a colored prompt, if the terminal has the capability;
turned
2025-03-23 12:38:57 # off by default to not distract the user: the focus in a terminal window
2025-03-23 12:38:57 # should be on the output of commands, not on the prompt
2025-03-23 12:38:57 #force_color_prompt=yes
2025-03-23 12:38:57
2025-03-23 12:38:57 if [ -n "$force_color_prompt" ]; then
2025-03-23 12:38:57     if [ -x /usr/bin/tput ] && tput setaf 1 >&/dev/null; then
2025-03-23 12:38:57 # We have color support; assume it's compliant with Ecma-48
2025-03-23 12:38:57 # (ISO/IEC-6429). (Lack of such support is extremely rare, and such
2025-03-23 12:38:57 # a case would tend to support setf rather than setaf.)
2025-03-23 12:38:57 color_prompt=yes
2025-03-23 12:38:57     else
2025-03-23 12:38:57 color_prompt=
2025-03-23 12:38:57     fi
2025-03-23 12:38:57 fi
2025-03-23 12:38:57
2025-03-23 12:38:57 if [ "$color_prompt" = yes ]; then
2025-03-23 12:38:57
PS1='${debian_chroot:+($debian_chroot)}\[\033[01;32m\]u@\h\[\033[00m\]:\[\033[01;34m\]\
w\[\033[00m\]\$ '
2025-03-23 12:38:57 else
2025-03-23 12:38:57     PS1='${debian_chroot:+($debian_chroot)}\u@\h:\w\$ '
2025-03-23 12:38:57 fi
2025-03-23 12:38:57 unset color_prompt force_color_prompt
2025-03-23 12:38:57
2025-03-23 12:38:57 # If this is an xterm set the title to user@host:dir
2025-03-23 12:38:57 case "$TERM" in
2025-03-23 12:38:57 xterm*|rxvt*)
2025-03-23 12:38:57     PS1="\[\e]0;${debian_chroot:+($debian_chroot)}\u@\h: \w\a\]$PS1"
2025-03-23 12:38:57     ;;
2025-03-23 12:38:57 *)
2025-03-23 12:38:57     ;;
2025-03-23 12:38:57 esac
2025-03-23 12:38:57
2025-03-23 12:38:57 # enable color support of ls and also add handy aliases
2025-03-23 12:38:57 if [ -x /usr/bin/dircolors ]; then
2025-03-23 12:38:57     test -r ~/.dircolors && eval "$(dircolors -b ~/.dircolors)" || eval
"$ (dircolors -b)"
2025-03-23 12:38:57     alias ls='ls --color=auto'
2025-03-23 12:38:57     #alias dir='dir --color=auto'
2025-03-23 12:38:57     #alias vdir='vdir --color=auto'
2025-03-23 12:38:57
2025-03-23 12:38:57     alias grep='grep --color=auto'
2025-03-23 12:38:57     alias fgrep='fgrep --color=auto'
2025-03-23 12:38:57     alias egrep='egrep --color=auto'
2025-03-23 12:38:57 fi
2025-03-23 12:38:57

```

```
2025-03-23 12:38:57 # some more ls aliases
2025-03-23 12:38:57 alias ll='ls -lF'
2025-03-23 12:38:57 alias la='ls -A'
2025-03-23 12:38:57 alias l='ls -CF'
2025-03-23 12:38:57
2025-03-23 12:38:57 # Alias definitions.
2025-03-23 12:38:57 # You may want to put all your additions into a separate file like
2025-03-23 12:38:57 # ~/.bash_aliases, instead of adding them here directly.
2025-03-23 12:38:57 # See /usr/share/doc/bash-doc/examples in the bash-doc package.
2025-03-23 12:38:57
2025-03-23 12:38:57 if [ -f ~/.bash_aliases ]; then
2025-03-23 12:38:57     . ~/.bash_aliases
2025-03-23 12:38:57 fi
2025-03-23 12:38:57
2025-03-23 12:38:57 # enable programmable completion features (you don't need to enable
2025-03-23 12:38:57 # this, if it's already enabled in /etc/bash.bashrc and /etc/profile
2025-03-23 12:38:57 # sources /etc/bash.bashrc).
2025-03-23 12:38:57 #if [ -f /etc/bash_completion ] && ! shopt -oq posix; then
2025-03-23 12:38:57 #     . /etc/bash_completion
2025-03-23 12:38:57 #fi
2025-03-23 12:39:10 root@f189dff529dd:~# nano
2025-03-23 12:39:10
bash: nano: command not found
2025-03-23 12:39:27 root@f189dff529dd:~# cat /etc/hosts
2025-03-23 12:39:27
127.0.0.1localhost
2025-03-23 12:39:27 ::1localhost ip6-localhost ip6-loopback
2025-03-23 12:39:27 fe00::ip6-localnet
2025-03-23 12:39:27 ff00::ip6-mcastprefix
2025-03-23 12:39:27 ff02::1ip6-allnodes
2025-03-23 12:39:27 ff02::2ip6-allrouters
2025-03-23 12:39:27 172.17.0.3f189dff529dd
2025-03-23 12:40:01 root@f189dff529dd:~# apt install nano
2025-03-23 12:40:02
```

Reading package lists... 0%

Reading package lists... 0%

Reading package lists... 0%

Reading package lists... 6%

Reading package lists... 6%

Reading package lists... 71%

Reading package lists... 71%

Reading package lists... 72%

Reading package lists... 72%

Reading package lists... 73%

Reading package lists... 73%

Reading package lists... 77%

Reading package lists... 77%

Reading package lists... 83%

Reading package lists... 83%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 91%

Reading package lists... 91%

Reading package lists... 95%

Reading package lists... 95%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... Done

2025-03-23 12:40:02

Building dependency tree... 0%

Building dependency tree... 0%

Building dependency tree... 50%

Building dependency tree... 50%

Building dependency tree... Done

2025-03-23 12:40:02

Reading state information... 0%

Reading state information... 5%

Reading state information... Done

2025-03-23 12:40:02 Suggested packages:

2025-03-23 12:40:02 hunspell

2025-03-23 12:40:02 The following NEW packages will be installed:

2025-03-23 12:40:02 nano

2025-03-23 12:40:02 0 upgraded, 1 newly installed, 0 to remove and 18 not upgraded.

2025-03-23 12:40:02 Need to get 282 kB of archives.

2025-03-23 12:40:02 After this operation, 856 kB of additional disk space will be used.

2025-03-23 12:40:02

2000-01-01 00:00:00 [Working]

2001-01-01 00:00:00 [http://archive.ubuntu.com/ubuntu/noble-updates/main amd64 nano](http://archive.ubuntu.com/ubuntu/noble-updates/main/amd64/nano-amd64_7.2-2ubuntu0.1)
amd64 7.2-2ubuntu0.1 [282 kB]

2025-03-23 12:40:03

2000-01-01 00:00:00 [1 nano 1156 B/282 kB 0%]

0100-01-01 00:00:00 [Working]

Fetches 282 kB in 0s (765 kB/s)

2025-03-23 12:40:03 debconf: delaying package configuration, since apt-utils is not installed

2025-03-23 12:40:03 Selecting previously unselected package nano.

2025-03-23 12:40:03 (Reading database ...

(Reading database ... 5%

(Reading database ... 10%

(Reading database ... 15%

(Reading database ... 20%

(Reading database ... 25%

(Reading database ... 30%

```
(Reading database ... 35%
(Reading database ... 40%
(Reading database ... 45%
(Reading database ... 50%
(Reading database ... 55%
(Reading database ... 60%
(Reading database ... 65%
(Reading database ... 70%
(Reading database ... 75%
(Reading database ... 80%
(Reading database ... 85%
(Reading database ... 90%
(Reading database ... 95%
(Reading database ... 100%
(Reading database ... 4531 files and directories currently installed.)
2025-03-23 12:40:03 Preparing to unpack .../nano_7.2-2ubuntu0.1_amd64.deb ...
Progress: [ 20%] [##Unpacking nano (7.2-2ubuntu0.1) .....]
Progress: [ 40%] [##Setting up nano (7.2-2ubuntu0.1) .....]
Progress: [ 60%] [##update-alternatives: using /bin/nano to provide /usr/bin/editor (editor) in
auto mode
2025-03-23 12:40:03 update-alternatives: warning: skip creation of
/usr/share/man/man1/editor.1.gz because associated file /usr/share/man/man1/nano.1.gz (of
link group editor) doesn't exist
2025-03-23 12:40:03 update-alternatives: using /bin/nano to provide /usr/bin/pico (pico) in
auto mode
2025-03-23 12:40:03 update-alternatives: warning: skip creation of
/usr/share/man/man1/pico.1.gz because associated file /usr/share/man/man1/nano.1.gz (of
link group pico) doesn't exist
Progress: [ 80%] [##root@f189dff529dd:~# nano /etc/hosts
2025-03-23 12:41:31

root@f189dff529dd:~# cat /etc/hosts
2025-03-23 12:41:31
127.0.0.1localhost
2025-03-23 12:41:31 ::1localhost ip6-localhost ip6-loopback
2025-03-23 12:41:31 fe00::ip6-localnet
2025-03-23 12:41:31 ff00::ip6-mcastprefix
2025-03-23 12:41:31 ff02::1ip6-allnodes
2025-03-23 12:41:31 ff02::2ip6-allrouters
2025-03-23 12:41:31 172.17.0.3f189dff529dd
2025-03-23 12:41:31 8.8.8.8 google-dns
2025-03-23 12:42:10 root@f189dff529dd:~# telnet 8.8.8.8 53
2025-03-23 12:42:10
bash: telnet: command not found
2025-03-23 12:42:36 root@f189dff529dd:~# apt install telnet
2025-03-23 12:42:37
E: Invalid operation install
2025-03-23 12:42:45 root@f189dff529dd:~# apt install telnet
```

2025-03-23 12:42:46

Reading package lists... 0%

Reading package lists... 0%

Reading package lists... 0%

Reading package lists... 6%

Reading package lists... 6%

Reading package lists... 71%

Reading package lists... 71%

Reading package lists... 72%

Reading package lists... 72%

Reading package lists... 73%

Reading package lists... 73%

Reading package lists... 77%

Reading package lists... 77%

Reading package lists... 83%

Reading package lists... 83%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 91%

Reading package lists... 91%

Reading package lists... 95%

Reading package lists... 95%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... Done

2025-03-23 12:42:46

Building dependency tree... 0%

Building dependency tree... 0%

Building dependency tree... 50%

Building dependency tree... 50%

Building dependency tree... Done

2025-03-23 12:42:46

Reading state information... 0%

Reading state information... 5%

Reading state information... Done

2025-03-23 12:42:46 The following additional packages will be installed:

2025-03-23 12:42:46 inetutils-telnet netbase

2025-03-23 12:42:46 The following NEW packages will be installed:

2025-03-23 12:42:46 inetutils-telnet netbase telnet

2025-03-23 12:42:46 0 upgraded, 3 newly installed, 0 to remove and 18 not upgraded.

2025-03-23 12:42:46 Need to get 117 kB of archives.

2025-03-23 12:42:46 After this operation, 332 kB of additional disk space will be used.

2025-03-23 12:42:48 Do you want to continue? [Y/n] y

2025-03-23 12:42:48

2000-01-01 00:00:00 [Working]

2001-01-01 00:00:00 http://archive.ubuntu.com/ubuntu noble/main amd64 netbase all 6.4
[13.1 kB]

2025-03-23 12:42:48

2001-09-01 00:00:00 [1 netbase 13.1 kB/13.1 kB 100%]

16% [Working]

2001-02-01 00:00:00 http://archive.ubuntu.com/ubuntu noble/main amd64 inetutils-telnet
amd64 2:2.5-3ubuntu4 [100 kB]

2025-03-23 12:42:48

17% [2 inetutils-telnet 2612 B/100 kB 3%]

1991-01-01 00:00:00 [Waiting for headers]

2001-03-01 00:00:00 http://archive.ubuntu.com/ubuntu noble/main amd64 telnet all
0.17+2.5-3ubuntu4 [3684 B]

2025-03-23 12:42:48

1993-01-01 00:00:00 [3 telnet 2506 B/3684 B 68%]

0100-01-01 00:00:00 [Working]

Fetches 117 kB in 0s (428 kB/s)

2025-03-23 12:42:48 debconf: delaying package configuration, since apt-utils is not installed

2025-03-23 12:42:48 Selecting previously unselected package netbase.

2025-03-23 12:42:48 (Reading database ...

(Reading database ... 5%

(Reading database ... 10%

(Reading database ... 15%

(Reading database ... 20%

(Reading database ... 25%

(Reading database ... 30%

(Reading database ... 35%

(Reading database ... 40%

(Reading database ... 45%

(Reading database ... 50%

(Reading database ... 55%

(Reading database ... 60%

(Reading database ... 65%

(Reading database ... 70%

(Reading database ... 75%

(Reading database ... 80%

(Reading database ... 85%

(Reading database ... 90%

(Reading database ... 95%

(Reading database ... 100%

(Reading database ... 4604 files and directories currently installed.)

2025-03-23 12:42:48 Preparing to unpack .../archives/netbase_6.4_all.deb ...

Progress: [8%] [##Unpacking netbase (6.4)]


```
Progress: [ 15%] [##Selecting previously unselected package inetutils-telnet.....]
2025-03-23 12:42:49 Preparing to unpack .../inetutils-telnet_2%3a2.5-3ubuntu4_amd64.deb
...
Progress: [ 23%] [##Unpacking inetutils-telnet (2:2.5-3ubuntu4) .....]
Progress: [ 31%] [##Selecting previously unselected package telnet.....]
2025-03-23 12:42:49 Preparing to unpack .../telnet_0.17+2.5-3ubuntu4_all.deb ...
Progress: [ 38%] [##Unpacking telnet (0.17+2.5-3ubuntu4) .....]
Progress: [ 46%] [##Setting up netbase (6.4) ...#####.....]
Progress: [ 62%] [##Setting up inetutils-telnet (2:2.5-3ubuntu4) .....]
Progress: [ 69%] [##update-alternatives: using /usr/bin/inetutils-telnet to provide
/usr/bin/telnet (telnet) in auto mode
2025-03-23 12:42:49 update-alternatives: warning: skip creation of
/usr/share/man/man1/telnet.1.gz because associated file
/usr/share/man/man1/inetutils-telnet.1.gz (of link group telnet) doesn't exist
Progress: [ 77%] [##Setting up telnet (0.17+2.5-3ubuntu4)
...#####.....]
Progress: [ 92%] [##root@f189dff529dd:~# telnet 8.8.8.8 53
2025-03-23 12:42:54
Trying 8.8.8.8...
2025-03-23 12:42:54 Connected to 8.8.8.8.
2025-03-23 12:42:54 Escape character is '^]'.
2025-03-23 12:42:56 Connection closed by foreign host.
2025-03-23 12:45:20 root@f189dff529dd:~# nano /etc/resolv.conf
2025-03-23 12:45:33
```

```
root@f189dff529dd:~# nslookup cloudflare.com
2025-03-23 12:46:26
2008-08-08 00:00:00 Server:8.8.8.8
2025-03-23 12:46:26 Address:8.8.8.8#53
2025-03-23 12:46:26
2025-03-23 12:46:26 Non-authoritative answer:
2025-03-23 12:46:26 Name:cloudflare.com
2025-03-23 12:46:26 Address: 104.16.133.229
2025-03-23 12:46:26 Name:cloudflare.com
2025-03-23 12:46:26 Address: 104.16.132.229
2025-03-23 12:46:26 Name:cloudflare.com
2025-03-23 12:46:26 Address: 2606:4700::6810:84e5
2025-03-23 12:46:26 Name:cloudflare.com
2025-03-23 12:46:26 Address: 2606:4700::6810:85e5
2025-03-23 12:46:26
2025-03-23 12:47:08 root@f189dff529dd:~# apt install nginx
2025-03-23 12:47:08
```

Reading package lists... 0%

Reading package lists... 0%

Reading package lists... 0%

Reading package lists... 6%

Reading package lists... 6%

Reading package lists... 71%

Reading package lists... 71%

Reading package lists... 72%

Reading package lists... 72%

Reading package lists... 73%

Reading package lists... 73%

Reading package lists... 77%

Reading package lists... 77%

Reading package lists... 83%

Reading package lists... 83%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 87%

Reading package lists... 91%

Reading package lists... 91%

Reading package lists... 95%

Reading package lists... 95%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... 99%

Reading package lists... Done

2025-03-23 12:47:08

Building dependency tree... 0%

Building dependency tree... 0%

Building dependency tree... 50%

Building dependency tree... 50%

Building dependency tree... Done

2025-03-23 12:47:08

Reading state information... 0%

Reading state information... 4%

Reading state information... Done

2025-03-23 12:47:09 The following additional packages will be installed:

2025-03-23 12:47:09 iproute2 libatm1t64 libbbpf1 libcap2 libcap2-bin libelf1t64 libmnl0
libpam-cap libtirpc-common

2025-03-23 12:47:09 libtirpc3t64 libxtables12 nginx-common

2025-03-23 12:47:09 Suggested packages:

2025-03-23 12:47:09 iproute2-doc python3:any fcgiwrap nginx-doc ssl-cert

2025-03-23 12:47:09 The following NEW packages will be installed:

2025-03-23 12:47:09 iproute2 libatm1t64 libbbpf1 libcap2-bin libelf1t64 libmnl0 libpam-cap
libtirpc-common libtirpc3t64

2025-03-23 12:47:09 libxtables12 nginx nginx-common

2025-03-23 12:47:09 The following packages will be upgraded:

2025-03-23 12:47:09 libcap2

2025-03-23 12:47:09 1 upgraded, 12 newly installed, 0 to remove and 17 not upgraded.

2025-03-23 12:47:09 Need to get 2134 kB of archives.

2025-03-23 12:47:09 After this operation, 6048 kB of additional disk space will be used.

2025-03-23 12:47:13 Do you want to continue? [Y/n] y

2025-03-23 12:47:13

2000-01-01 00:00:00 [Working]

2001-01-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble-updates/main amd64 libcap2
amd64 1:2.66-5ubuntu2.2 [30.0 kB]
2025-03-23 12:47:13
2000-01-01 00:00:00 [1 libcap2 2614 B/30.0 kB 9%]

2001-03-01 00:00:00 [Working]

2001-02-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble-updates/main amd64 libelf1t64
amd64 0.190-1.1build4.1 [57.5 kB]
2025-03-23 12:47:13
2001-03-01 00:00:00 [2 libelf1t64 2614 B/57.5 kB 5%]

2001-06-01 00:00:00 [Waiting for headers]

2001-03-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble/main amd64 libbbpf1 amd64
1:1.3.0-2build2 [166 kB]
2025-03-23 12:47:14
2001-06-01 00:00:00 [3 libbbpf1 2898 B/166 kB 2%]

14% [Waiting for headers]

2001-04-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble/main amd64 libmnl0 amd64
1.0.5-2build1 [12.3 kB]
2025-03-23 12:47:14
14% [4 libmnl0 176 B/12.3 kB 1%]

16% [Waiting for headers]

2001-05-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble/main amd64 libtirpc-common
all 1.3.4+ds-1.1build1 [8094 B]
2025-03-23 12:47:14
16% [5 libtirpc-common 2135 B/8094 B 26%]

18% [Waiting for headers]

2001-06-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble/main amd64 libtirpc3t64
amd64 1.3.4+ds-1.1build1 [82.6 kB]
2025-03-23 12:47:14
18% [6 libtirpc3t64 2462 B/82.6 kB 3%]

23% [Waiting for headers]

2001-07-01 00:00:00 <http://archive.ubuntu.com/ubuntu> noble/main amd64 libxtables12
amd64 1.8.10-3ubuntu2 [35.7 kB]
2025-03-23 12:47:14
23% [7 libxtables12 3752 B/35.7 kB 11%]

25% [Waiting for headers]

2001-08-01 00:00:00 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
libcap2-bin amd64 1:2.66-5ubuntu2.2 [34.2 kB]
2025-03-23 12:47:14
26% [8 libcap2-bin 8414 B/34.2 kB 25%]

28% [Waiting for headers]

2001-09-01 00:00:00 http://archive.ubuntu.com/ubuntu noble/main amd64 iproute2 amd64
6.1.0-1ubuntu6 [1120 kB]
2025-03-23 12:47:14
29% [9 iproute2 8056 B/1120 kB 1%]

1972-01-01 00:00:00 [Waiting for headers]

2001-10-01 00:00:00 http://archive.ubuntu.com/ubuntu noble/main amd64 libatm1t64 amd64
1:2.5.1-5.1build1 [22.9 kB]
2025-03-23 12:47:14
1973-01-01 00:00:00 [10 libatm1t64 20.5 kB/22.9 kB 90%]

1974-01-01 00:00:00 [Waiting for headers]

2001-11-01 00:00:00 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
libpam-cap amd64 1:2.66-5ubuntu2.2 [12.5 kB]
2025-03-23 12:47:14
1975-01-01 00:00:00 [11 libpam-cap 12.5 kB/12.5 kB 100%]

1976-01-01 00:00:00 [Waiting for headers]

2001-12-01 00:00:00 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
nginx-common all 1.24.0-2ubuntu7.1 [31.2 kB]
2025-03-23 12:47:14
1977-01-01 00:00:00 [12 nginx-common 14.5 kB/31.2 kB 47%]

1979-01-01 00:00:00 [Waiting for headers]

Get:13 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64
1.24.0-2ubuntu7.1 [521 kB]
2025-03-23 12:47:14
1979-01-01 00:00:00 [13 nginx 1904 B/521 kB 0%]

0100-01-01 00:00:00 [Working]

Fetches 2134 kB in 1s (1508 kB/s)
2025-03-23 12:47:14 debconf: delaying package configuration, since apt-utils is not installed
2025-03-23 12:47:14 (Reading database ...
(Reading database ... 5%
(Reading database ... 10%

(Reading database ... 15%
(Reading database ... 20%
(Reading database ... 25%
(Reading database ... 30%
(Reading database ... 35%
(Reading database ... 40%
(Reading database ... 45%
(Reading database ... 50%
(Reading database ... 55%
(Reading database ... 60%
(Reading database ... 65%
(Reading database ... 70%
(Reading database ... 75%
(Reading database ... 80%
(Reading database ... 85%
(Reading database ... 90%
(Reading database ... 95%
(Reading database ... 100%
(Reading database ... 4626 files and directories currently installed.)
2025-03-23 12:47:14 Preparing to unpack .../libcap2_1%3a2.66-5ubuntu2.2_amd64.deb ...
Progress: [2%] [#Unpacking libcap2:amd64 (1:2.66-5ubuntu2.2) over (1:2.66-5ubuntu2)
.....]
Progress: [4%] [##Setting up libcap2:amd64 (1:2.66-5ubuntu2.2)]
Progress: [8%] [##Selecting previously unselected package
libelf1t64:amd64.....]
2025-03-23 12:47:14 (Reading database ...
(Reading database ... 5%
(Reading database ... 10%
(Reading database ... 15%
(Reading database ... 20%
(Reading database ... 25%
(Reading database ... 30%
(Reading database ... 35%
(Reading database ... 40%
(Reading database ... 45%
(Reading database ... 50%
(Reading database ... 55%
(Reading database ... 60%
(Reading database ... 65%
(Reading database ... 70%
(Reading database ... 75%
(Reading database ... 80%
(Reading database ... 85%
(Reading database ... 90%
(Reading database ... 95%
(Reading database ... 100%
(Reading database ... 4626 files and directories currently installed.)
2025-03-23 12:47:14 Preparing to unpack .../00-libelf1t64_0.190-1.1build4.1_amd64.deb ...

Progress: [9%] [##Unpacking libelf1t64:amd64 (0.190-1.1build4.1)]
Progress: [11%] [##Selecting previously unselected package
libbbpf1:amd64.....]
2025-03-23 12:47:14 Preparing to unpack .../01-libbbpf1_1%3a1.3.0-2build2_amd64.deb ...
Progress: [13%] [##Unpacking libbbpf1:amd64 (1:1.3.0-2build2)]
Progress: [15%] [##Selecting previously unselected package
libmnl0:amd64.....]
2025-03-23 12:47:14 Preparing to unpack .../02-libmnl0_1.0.5-2build1_amd64.deb ...
Progress: [17%] [##Unpacking libmnl0:amd64 (1.0.5-2build1)]
Progress: [19%] [##Selecting previously unselected package
libtirpc-common.....]
2025-03-23 12:47:14 Preparing to unpack .../03-libtirpc-common_1.3.4+ds-1.1build1_all.deb
...
Progress: [21%] [##Unpacking libtirpc-common (1.3.4+ds-1.1build1)]
Progress: [23%] [##Selecting previously unselected package
libtirpc3t64:amd64.....]
2025-03-23 12:47:14 Preparing to unpack .../04-libtirpc3t64_1.3.4+ds-1.1build1_amd64.deb
...
Progress: [25%] [##Adding 'diversion of /lib/x86_64-linux-gnu/libtirpc.so.3 to
/lib/x86_64-linux-gnu/libtirpc.so.3.usr-is-merged by libtirpc3t64'
2025-03-23 12:47:15 Adding 'diversion of /lib/x86_64-linux-gnu/libtirpc.so.3.0.0 to
/lib/x86_64-linux-gnu/libtirpc.so.3.0.0.usr-is-merged by libtirpc3t64'
2025-03-23 12:47:15 Unpacking libtirpc3t64:amd64 (1.3.4+ds-1.1build1) ...
Progress: [26%] [##Selecting previously unselected package
libxtables12:amd64.....]
2025-03-23 12:47:15 Preparing to unpack .../05-libxtables12_1.8.10-3ubuntu2_amd64.deb
...
Progress: [28%] [##Unpacking libxtables12:amd64 (1.8.10-3ubuntu2)]
Progress: [30%] [##Selecting previously unselected package libcap2-bin.....]
2025-03-23 12:47:15 Preparing to unpack
.../06-libcap2-bin_1%3a2.66-5ubuntu2.2_amd64.deb ...
Progress: [32%] [##Unpacking libcap2-bin (1:2.66-5ubuntu2.2)]
Progress: [34%] [##Selecting previously unselected package iproute2.....]
2025-03-23 12:47:15 Preparing to unpack .../07-iproute2_6.1.0-1ubuntu6_amd64.deb ...
Progress: [36%] [##Unpacking iproute2 (6.1.0-1ubuntu6)]
Progress: [38%] [##Selecting previously unselected package
libatm1t64:amd64.....]
2025-03-23 12:47:15 Preparing to unpack
.../08-libatm1t64_1%3a2.5.1-5.1build1_amd64.deb ...
Progress: [40%] [##Unpacking libatm1t64:amd64 (1:2.5.1-5.1build1)]
Progress: [42%] [##Selecting previously unselected package
libpam-cap:amd64.....]
2025-03-23 12:47:15 Preparing to unpack
.../09-libpam-cap_1%3a2.66-5ubuntu2.2_amd64.deb ...
Progress: [43%] [##Unpacking libpam-cap:amd64 (1:2.66-5ubuntu2.2)
.....]
Progress: [45%] [##Selecting previously unselected package
nginx-common.....]

2025-03-23 12:47:15 Preparing to unpack .../10-nginx-common_1.24.0-2ubuntu7.1_all.deb

...

Progress: [47%] [##Unpacking nginx-common (1.24.0-2ubuntu7.1)]

Progress: [49%] [##Selecting previously unselected package nginx.....]

2025-03-23 12:47:15 Preparing to unpack .../11-nginx_1.24.0-2ubuntu7.1_amd64.deb ...

Progress: [51%] [##Unpacking nginx (1.24.0-2ubuntu7.1)]

Progress: [53%] [##Setting up libatm1t64:amd64 (1:2.5.1-5.1build1)]

Progress: [57%] [##Setting up libtirpc-common (1.3.4+ds-1.1build1)]

Progress: [60%] [##Setting up libelf1t64:amd64 (0.190-1.1build4.1)]

Progress: [64%] [##Setting up libcap2-bin (1:2.66-5ubuntu2.2) ..####.....]

Progress: [68%] [##Setting up libmnl0:amd64 (1.0.5-2build1) ..#####.....]

Progress: [72%] [##Setting up libxtables12:amd64 (1.8.10-3ubuntu2)

...#####.....]

Progress: [75%] [##Setting up libpam-cap:amd64 (1:2.66-5ubuntu2.2)

...#####.....]

Progress: [77%] [##debconf: unable to initialize frontend:

Dialog#####.....]

2025-03-23 12:47:15 debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 79.)

2025-03-23 12:47:15 debconf: falling back to frontend: Readline

2025-03-23 12:47:15 debconf: unable to initialize frontend: Readline

2025-03-23 12:47:15 debconf: (Can't locate Term/ReadLine.pm in @INC (you may need to install the Term::ReadLine module) (@INC entries checked: /etc/perl

/usr/local/lib/x86_64-linux-gnu/perl/5.38.2 /usr/local/share/perl/5.38.2

/usr/lib/x86_64-linux-gnu/perl/5.38 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl-base

/usr/lib/x86_64-linux-gnu/perl/5.38 /usr/share/perl/5.38 /usr/local/lib/site_perl) at

/usr/share/perl5/Debconf/FrontEnd/Readline.pm line 8.)

2025-03-23 12:47:15 debconf: falling back to frontend: Teletype

Progress: [79%] [##Setting up libbpf1:amd64 (1:1.3.0-2build2)

...#####.....]

Progress: [83%] [##Setting up libtirpc3t64:amd64 (1.3.4+ds-1.1build1)

...#####.....]

Progress: [87%] [##Setting up iproute2 (6.1.0-1ubuntu6)

...#####.....]

Progress: [89%] [##debconf: unable to initialize frontend:

Dialog#####.....]

2025-03-23 12:47:15 debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 79.)

2025-03-23 12:47:15 debconf: falling back to frontend: Readline

2025-03-23 12:47:15 debconf: unable to initialize frontend: Readline

2025-03-23 12:47:15 debconf: (Can't locate Term/ReadLine.pm in @INC (you may need to install the Term::ReadLine module) (@INC entries checked: /etc/perl

/usr/local/lib/x86_64-linux-gnu/perl/5.38.2 /usr/local/share/perl/5.38.2

/usr/lib/x86_64-linux-gnu/perl/5.38 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl-base

/usr/lib/x86_64-linux-gnu/perl/5.38 /usr/share/perl/5.38 /usr/local/lib/site_perl) at

/usr/share/perl5/Debconf/FrontEnd/Readline.pm line 8.)

2025-03-23 12:47:15 debconf: falling back to frontend: Teletype


```
Progress: [ 91%] [##Setting up nginx (1.24.0-2ubuntu7.1)
...#####.....]
Progress: [ 92%] [##invoke-rc.d: unknown initscript, /etc/init.d/nginx not
found.#####.....]
2025-03-23 12:47:15 invoke-rc.d: could not determine current runlevel
Progress: [ 94%] [##Setting up nginx-common (1.24.0-2ubuntu7.1)
...#####.....]
Progress: [ 96%] [##debconf: unable to initialize frontend:
Dialog#####....]
2025-03-23 12:47:16 debconf: (No usable dialog-like program is installed, so the dialog
based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 79.)
2025-03-23 12:47:16 debconf: falling back to frontend: Readline
2025-03-23 12:47:16 debconf: unable to initialize frontend: Readline
2025-03-23 12:47:16 debconf: (Can't locate Term/ReadLine.pm in @INC (you may need to
install the Term::ReadLine module) (@INC entries checked: /etc/perl
/usr/local/lib/x86_64-linux-gnu/perl/5.38.2 /usr/local/share/perl/5.38.2
/usr/lib/x86_64-linux-gnu/perl5/5.38 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl-base
/usr/lib/x86_64-linux-gnu/perl/5.38 /usr/share/perl/5.38 /usr/local/lib/site_perl) at
/usr/share/perl5/Debconf/FrontEnd/Readline.pm line 8.)
2025-03-23 12:47:16 debconf: falling back to frontend: Teletype
Progress: [ 98%] [##Processing triggers for libc-bin (2.39-0ubuntu8.3)
...#####..]
2025-03-23 12:47:16 root@f189dff529dd:~# systemctl start nginx
2025-03-23 12:47:36
bash: systemctl: command not found
2025-03-23 12:48:00 root@f189dff529dd:~# systemctl status nginx
2025-03-23 12:48:00
bash: systemctl: command not found
2025-03-23 12:48:47 root@f189dff529dd:~# service nginx status
2025-03-23 12:48:47
* nginx is not running
2025-03-23 12:48:55 root@f189dff529dd:~# service nginx start
2025-03-23 12:48:55
* Starting nginx nginx
[ OK ]
2025-03-23 12:48:59 root@f189dff529dd:~# service nginx status
2025-03-23 12:48:59
* nginx is running
2025-03-23 12:49:38 root@f189dff529dd:~# netstat -tuln | grep nginx
2025-03-23 12:49:38
bash: netstat: command not found
2025-03-23 12:50:17 root@f189dff529dd:~# service netstat -tulpn | grep nginx
2025-03-23 12:50:17
netstat: unrecognized service
2025-03-23 12:50:38 root@f189dff529dd:~# ss -tuln | grep nginx
2025-03-23 12:50:44
root@f189dff529dd:~# ss -tuln
2025-03-23 12:50:44
```

Netid	State	Recv-Q	Send-Q	Local Address:Port	Peer Address:Port
Process					
2025-03-23 12:50:44	tcp	LISTEN	0	511	0.0.0.0:80
2025-03-23 12:50:44	tcp	LISTEN	0	511	:::80
2025-03-23 12:51:53	root@f189dff529dd:~# ^C				

2025-03-23 12:51:54 root@f189dff529dd:~# ^C

2025-03-23 12:52:03 root@f189dff529dd:~# exit
2025-03-23 12:52:03
exit