

Install the Letsencrypt certbot tool on Ubuntu Server 22.04

Install this certbot tool and make the letsencrypt folder path architecture before setting up Apache2 Virtual Host for domains.

At this point, install the certbot tool and thereafter generate the SSL certificates for the Nextcloud installation.

We will be able to generate SSL Letsencrypts with the webroot plugin.

Run the following command to install the certbot tool for generating SSL Letsencrypt.

```
sudo apt install certbot
```

Type 'y' and press 'Enter' to continue the installation.

The installation will look like this:

```
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  python3-acme python3-certbot python3-configargparse python3-icu python3-
josepy python3-parsedatetime
  python3-requests-toolbelt python3-rfc3339 python3-zope.component python3-
zope.event python3-zope.hookable
Suggested packages:
  python-certbot-doc python3-certbot-apache python3-certbot-nginx python-
acme-doc
The following NEW packages will be installed:
  certbot python3-acme python3-certbot python3-configargparse python3-icu
python3-josepy python3-parsedatetime
  python3-requests-toolbelt python3-rfc3339 python3-zope.component python3-
zope.event python3-zope.hookable
0 upgraded, 12 newly installed, 0 to remove and 0 not upgraded.
Need to get 958 kB of archives.
After this operation, 4,915 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://us.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-
josepy all 1.10.0-1 [22.0 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 python3-requests-
toolbelt all 0.9.1-1 [38.0 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 python3-rfc3339
all 1.1-3 [7,110 B]
Get:4 http://us.archive.ubuntu.com/ubuntu jammy-updates/universe amd64
python3-acme all 1.21.0-1ubuntu0.1 [36.4 kB]
Get:5 http://us.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-
configargparse all 1.5.3-1 [26.9 kB]
```

```
Get:6 http://us.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-
parsedatetime all 2.6-2 [32.9 kB]
Get:7 http://us.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-
zope.hookable amd64 5.1.0-1build1 [11.6 kB]
Get:8 http://us.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-
zope.event all 4.4-3 [8,180 B]
Get:9 http://us.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-
zope.component all 4.3.0-3 [38.3 kB]
Get:10 http://us.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-
certbot all 1.21.0-1build1 [175 kB]
Get:11 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 python3-icu
amd64 2.8.1-0ubuntu2 [540 kB]
Get:12 http://us.archive.ubuntu.com/ubuntu jammy/universe amd64 certbot all
1.21.0-1build1 [21.3 kB]
Fetched 958 kB in 1s (1,338 kB/s)
Preconfiguring packages ...
Selecting previously unselected package python3-josepy.
(Reading database ... 82993 files and directories currently installed.)
Preparing to unpack .../00-python3-josepy_1.10.0-1_all.deb ...
Unpacking python3-josepy (1.10.0-1) ...
Selecting previously unselected package python3-requests-toolbelt.
Preparing to unpack .../01-python3-requests-toolbelt_0.9.1-1_all.deb ...
Unpacking python3-requests-toolbelt (0.9.1-1) ...
Selecting previously unselected package python3-rfc3339.
Preparing to unpack .../02-python3-rfc3339_1.1-3_all.deb ...
Unpacking python3-rfc3339 (1.1-3) ...
Selecting previously unselected package python3-acme.
Preparing to unpack .../03-python3-acme_1.21.0-1ubuntu0.1_all.deb ...
Unpacking python3-acme (1.21.0-1ubuntu0.1) ...
Selecting previously unselected package python3-configargparse.
Preparing to unpack .../04-python3-configargparse_1.5.3-1_all.deb ...
Unpacking python3-configargparse (1.5.3-1) ...
Selecting previously unselected package python3-parsedatetime.
Preparing to unpack .../05-python3-parsedatetime_2.6-2_all.deb ...
Unpacking python3-parsedatetime (2.6-2) ...
Selecting previously unselected package python3-zope.hookable.
Preparing to unpack .../06-python3-zope.hookable_5.1.0-1build1_amd64.deb ...
Unpacking python3-zope.hookable (5.1.0-1build1) ...
Selecting previously unselected package python3-zope.event.
Preparing to unpack .../07-python3-zope.event_4.4-3_all.deb ...
Unpacking python3-zope.event (4.4-3) ...
Selecting previously unselected package python3-zope.component.
Preparing to unpack .../08-python3-zope.component_4.3.0-3_all.deb ...
Unpacking python3-zope.component (4.3.0-3) ...
Selecting previously unselected package python3-certbot.
Preparing to unpack .../09-python3-certbot_1.21.0-1build1_all.deb ...
Unpacking python3-certbot (1.21.0-1build1) ...
Selecting previously unselected package python3-icu.
Preparing to unpack .../10-python3-icu_2.8.1-0ubuntu2_amd64.deb ...
```

```
Unpacking python3-icu (2.8.1-0ubuntu2) ...
Selecting previously unselected package certbot.
Preparing to unpack .../11-certbot_1.21.0-1build1_all.deb ...
Unpacking certbot (1.21.0-1build1) ...
Setting up python3-configargparse (1.5.3-1) ...
Setting up python3-requests-toolbelt (0.9.1-1) ...
Setting up python3-parsedatetime (2.6-2) ...
Setting up python3-icu (2.8.1-0ubuntu2) ...
Setting up python3-zope.event (4.4-3) ...
Setting up python3-zope.hookable (5.1.0-1build1) ...
Setting up python3-josepy (1.10.0-1) ...
Setting up python3-rfc3339 (1.1-3) ...
Setting up python3-zope.component (4.3.0-3) ...
Setting up python3-acme (1.21.0-1ubuntu0.1) ...
Setting up python3-certbot (1.21.0-1build1) ...
Setting up certbot (1.21.0-1build1) ...
Created symlink /etc/systemd/system/timers.target.wants/certbot.timer →
/lib/systemd/system/certbot.timer.
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning processor microcode...
Scanning linux images...

Running kernel seems to be up-to-date.

The processor microcode seems to be up-to-date.

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.
```

After the installation is complete, create a new directory for letsencrypt authorization using the following commands.

```
sudo mkdir -p /var/lib/letsencrypt/.well-known
sudo chgrp www-data /var/lib/letsencrypt
sudo chmod g+s /var/lib/letsencrypt
```

Before requesting a certificate from LetsEncrypt, first ensure that an apache2 virtual host domain file has been properly created and that its symlink is enabled.

Go To: [Setup Apache2 Virtual Host for your Domain](#)

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