

Using Cert Bot to get a Valid SSL certificate

This guide will detail how to get a valid SSL cert using certbot on Linux operating systems

[Certbot user guide](#)

[Commands for defining Key Type](#)

<https://www.onepagezen.com/letsencrypt-auto-renew-certbot-apache/>

Configuration file

<https://eff-certbot.readthedocs.io/en/stable/using.html#config-file>

Follow this guide to force Cerbot to use Elliptical Curve Diffe-Hellman Curves for all certificates. Any existing certs will be updated upon the next reboot.

Certbot accepts a global configuration file that applies its options to all invocations of Certbot. Certificate specific configuration choices should be set in the `.conf` files that can be found in `/etc/letsencrypt/renewal`.

By default no `cli.ini` file is created (though it may exist already if you installed Certbot via a package manager, for instance). After creating one it is possible to specify the location of this configuration file with `certbot --config cli.ini` (or shorter `-c cli.ini`). An example configuration file is shown below:

```

# This is an example of the kind of things you can do in a configuration file.
# All flags used by the client can be configured here. Run Certbot with
# "--help" to learn more about the available options.
#
# Note that these options apply automatically to all use of Certbot for
# obtaining or renewing certificates, so options specific to a single
# certificate on a system with several certificates should not be placed
# here.

# Use ECC for the private key
key-type = ecdsa
elliptic-curve = secp384r1

# Use a 4096 bit RSA key instead of 2048
rsa-key-size = 4096

# Uncomment and update to register with the specified e-mail address
# email = foo@example.com

# Uncomment to use the standalone authenticator on port 443
# authenticator = standalone

# Uncomment to use the webroot authenticator. Replace webroot-path with the
# path to the public_html / webroot folder being served by your web server.
# authenticator = webroot
# webroot-path = /usr/share/nginx/html

# Uncomment to automatically agree to the terms of service of the ACME server
# agree-tos = true

# An example of using an alternate ACME server that uses EAB credentials
# server = https://acme.sectigo.com/v2/InCommonRSAOV
# eab-kid = somestringofstuffwithoutquotes
# eab-hmac-key = yaddayaddahexhexnotquoted

```

If on the internal network set the DNS on the machine to use CloudFlared or Google. DNS will not resolve properly if using the internal DNS servers

1. install the package certbot `sudo apt install certbot -y`
2. navigate to the `/etc/letsencrypt` directory
3. Two types on install Manual and Auto
 1. `sudo certbot certonly --manual --preferred-challenges dns -d "*.coltscomputer.services"`
 1. this will pull a SSL cert from Let's Encrypt
 2. Go to the DNS hosted domain on [Route 53](#) and add the `_acme-challenge` text to the existing `_acme-challenge` TXT record
4. For the auto install
 1. [This guide shows how to configure a virtual host](#)
 1. `cd /etc/apache2/sites-enabled`

2. edit the .conf files there for the necessary domain name
 1. `sudo nano *.conf`
 2. edit the YOUR-DOMAIN-NAME line
 2. `sudo certbot certonly --apache --key-type ecdsa --preferred-challenges dns -d "*.coltscomputer.services"`
 1. This should auto renew
 2. use `sudo certbot renew --dry-run` to test if the renewal will work automatically
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