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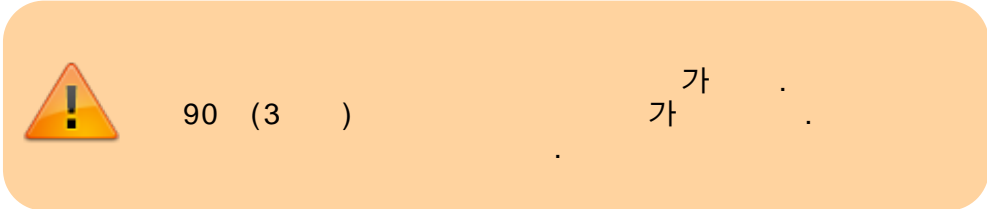
Let's Encrypt(CertBot) Wildcard Certificates

— 2020/12/13 14:36

Let's Encrypt

가

- DNS 가 DNS
- (:가 ,)
DNS 가 DNS



- *.koov.kr
- koov.kr 가 가

```
certbot certonly --manual --preferred-challenges dns -d "koov.kr" -d
"*.koov.kr"
```

```
root@proxy:~# certbot certonly --manual --preferred-challenges dns -d
"koov.kr" -d "*.koov.kr"
Saving debug log to /var/log/letsencrypt/letsencrypt.log
Plugins selected: Authenticator manual, Installer None
Obtaining a new certificate
Performing the following challenges:
dns-01 challenge for koov.kr
dns-01 challenge for koov.kr
-----
NOTE: The IP of this machine will be publicly logged as having requested
this
certificate. If you're running certbot in manual mode on a machine that is
not
```

your server, please ensure you're okay with that.

Are you OK with your IP being logged?

- - - - -
- -
(Y)es/(N)o: y

(Y)

- - - - -
- -
Please deploy a DNS TXT record under the name
_acme-challenge.koov.kr with the following value:

NFH7_ZDQmi_Kz4A_M-SWzXrwJuTVQ1zDEJooI1gQ2pw

Before continuing, verify the record is deployed.
- - - - -
- -
Press Enter to Continue

```

                                _acme-challenge.koov.kr
NFH7_ZDQmi_Kz4A_M-SWzXrwJuTVQ1zDEJooI1gQ2pw      TXT      가
.
      DNS          DNS          DNS
.

```

dig

```

root@proxy:~# dig _acme-challenge.koov.kr TXT

; <<>> DiG 9.11.5-P4-5.1+deb10u2-Debian <<>> _acme-challenge.koov.kr TXT
;; global options: +cmd
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 719
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
_acme-challenge.koov.kr.      IN      TXT

;; ANSWER SECTION:

```

```
_acme-challenge.koov.kr. 179      IN      TXT     "NFH7_ZDQmi_Kz4A_M-
SwzXrwJuTVQ1zDEJooI1gQ2pw"
```

```
;; Query time: 134 msec
;; SERVER: 8.8.8.8#53(8.8.8.8)
;; WHEN: Sun Dec 13 14:47:14 KST 2020
;; MSG SIZE rcvd: 164
```

host

```
root@proxy:~# host -t txt _acme-challenge.koov.kr
_acme-challenge.koov.kr descriptive text "NFH7_ZDQmi_Kz4A_M-
SwzXrwJuTVQ1zDEJooI1gQ2pw"
```

/ nslookup

```
Microsoft Windows [Version 10.0.19041.685]
(c) 2020 Microsoft Corporation. All rights reserved.
```

```
C:\Users\KooV>nslookup
: dns.google
Address: 8.8.8.8
```

```
> set type=TXT
> _acme-challenge.koov.kr
: dns.google
Address: 8.8.8.8
```

```
:
_acme-challenge.koov.kr text = "NFH7_ZDQmi_Kz4A_M-SwzXrwJuTVQ1zDEJooI1gQ2pw"
```

```
ANSWER SECTION      TXT
```

```
-----
--
```

Please deploy a DNS TXT record under the name
_acme-challenge.koov.kr with the following value:

D1FHFfn5avBVNyoMoQlNVuhrbhEheyaKyWwzm9rauW00

Before continuing, verify the record is deployed.
(This must be set up in addition to the previous challenges; do not remove, replace, or undo the previous challenge tasks yet. Note that you might be asked to create multiple distinct TXT records with the same name. This is

permitted by DNS standards.)

- - - - -
- -

Press Enter to Continue

```
          TXT                      TXT      가                      TXT
-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
          TXT                      TXT      가                      TXT
          가
```

```
root@proxy:~# dig _acme-challenge.koov.kr TXT

; <<>> DiG 9.11.5-P4-5.1+deb10u2-Debian <<>> _acme-challenge.koov.kr TXT
;; global options: +cmd
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 719
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
_acme-challenge.koov.kr.  IN      TXT

;; ANSWER SECTION:
_acme-challenge.koov.kr. 179    IN      TXT      "NFH7_ZDQmi_Kz4A_M-
SwzXrwJuTVQ1zDEJooIlgQ2pw"
_acme-challenge.koov.kr. 179    IN      TXT      "D1FHFn5avBVNyoMoQLNVuhrbhEheyakyWwzm9rauW00"

;; Query time: 134 msec
;; SERVER: 8.8.8.8#53(8.8.8.8)
;; WHEN: Sun Dec 13 14:47:14 KST 2020
;; MSG SIZE rcvd: 164
```

```
2      TXT      가
```

Waiting for verification...
Cleaning up challenges

IMPORTANT NOTES:

- Congratulations! Your certificate and chain have been saved at:
/etc/letsencrypt/live/koov.kr/fullchain.pem
Your key file has been saved at:

```

/etc/letsencrypt/live/koov.kr/privkey.pem
Your cert will expire on 2021-03-13. To obtain a new or tweaked
version of this certificate in the future, simply run certbot
again. To non-interactively renew *all* of your certificates, run
"certbot renew"

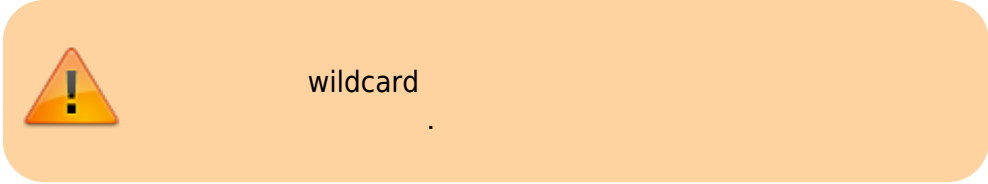
```

- If you like Certbot, please consider supporting our work by:

```

Donating to ISRG / Let's Encrypt:  https://letsencrypt.org/donate
Donating to EFF:                   https://eff.org/donate-le

```



```

_acme-challenge TXT          DNS
                               TXT          DNS

certbot          TXT

• Cloudflare DNS plugin
• DigitalOcean DNS plugin
• DNSimple DNS plugin
• Gehirn DNS plugin
• Google DNS plugin
• Linode DNS plugin
• OVH DNS plugin
• RFC 2136 DNS plugin
• Route53 DNS plugin
• SakuraCloud DNS plugin

DNS          가          DNS          가          AWS Route53, CloudFlare, Google

DNS          DNS (bind )          rfc2136          가

```

Cloudflare DNS

[:https://certbot-dns-cloudflare.readthedocs.io/en/stable/](https://certbot-dns-cloudflare.readthedocs.io/en/stable/)

Cloudflare DNS API
certbot cloudflare plugin

```
$ apt install python3-certbot-dns-cloudflare
```

```
Cloudflare DNS API API Token  
→ API → ( DNS )  
cloudflare.ini  
~/.secrets/certbot/cloudflare.ini
```

```
# Cloudflare API token used by Certbot  
dns_cloudflare_api_token = AABBCCDDEEFF..XXYYZZ
```

cloudflare plugin

```
$ certbot certonly --dns-cloudflare --dns-cloudflare-credentials  
~/.secrets/certbot/cloudflare.ini -d "koov.kr" -d "*.koov.kr"
```

- <https://hiseon.me/server/letsencrypt-wildcard-certificate/>
- <https://certbot.eff.org/docs/using.html>
- <https://blog.realsangil.net/2018/10/letsencrypt-wildcard-certification-renew/>
- <https://darkstart.tistory.com/109?category=871909>
- <https://linux.m2osw.com/setting-bind-get-letsencrypt-wildcards-work-your-system-using-rfc-2136>
- <https://skorotkiewicz.github.io/techlog/automated-lets-encrypt-wildcard-certificates-with-local-bind/>

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