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Let's Encrypt(CertBot) Wildcard Certificates

— 2020/12/13 14:36

Let's Encrypt

가



- *.koov.kr 가
- 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
```

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(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

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

DNS 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:
```

```
D1FHFn5avBVNyoMoQlNVuhrbhEheyaKyWwzm9rauW00
```

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
```

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TXT . . TXT . . TXT
_____.
TXT 가 가 . .
_____.

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-
SwzXrwJuTVQ1zDEJooI1gQ2pw"
_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>



wildcard

DNS

_acme-challenge TXT

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

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AWS Route53, CloudFlare, Google DNS

- <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>

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