

# Apache Webserver HTTPS + DDNS

## 1. Apache2, Certbot

```
sudo apt install apache2 certbot python3-certbot-apache
```

## 2. Apache2

```
sudo a2enmod ssl
sudo cp /etc/apache2/sites-available/{default-ssl,gamu.kr}.conf
```

```
gamu.kr.conf
```

```
<VirtualHost *:443>
    ServerName gamu.kr      ## 가
    ServerAlias www.gamu.kr ## ServerAlias   가가

    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html

    #####          #####
    Include          /etc/letsencrypt/options-ssl-apache.conf
## Certbot
    SSLCertificateFile /etc/letsencrypt/live/gamu.kr/fullchain.pem
## 가
    SSLCertificateKeyFile /etc/letsencrypt/live/gamu.kr/privkey.pem
##
</VirtualHost>
```

```
sudo a2ensite gamu.kr.conf
sudo systemctl restart apache2
```

## 3. Certbot

```
sudo certbot --apache ##
sudo systemctl restart apache2
sudo systemctl status certbot.timer ##
```

## 4. DDNS

/usr/lib/systemd/system/gamu.service

```
[Unit]
Description=gamu.kr & www.gamu.kr DDNS(DnsZi) Renewal Service

[Service]
Type=oneshot
ExecStart=/usr/local/bin/wget -q -O -
'http://ddns.dnszi.com/set.html?user=<ddnzi-id>&auth=<dnszi-auth-key>&domain=gamu.kr&record='
```

/usr/lib/systemd/system/gamu.timer

```
[Unit]
Description=Run DDNS(https://dnszi.com) Service Renewal twice daily

[Timer]
OnCalendar=*-*-* 00,12:00:00
RandomizedDelaySec=43200
Persistent=true

[Install]
WantedBy=timers.target
```

systemd ,

```
sudo systemctl enable gamu.timer #
sudo systemctl start gamu.timer #
sudo systemctl status gamu.kr #
```

From:  
<https://www.gamu.kr/dokuwiki/> -

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<https://www.gamu.kr/dokuwiki/homeserverwithdebian/certbotandapache2?rev=1712072983>

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