

# 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
```

```
<VirtualHost *:443>
    ServerName gamu.kr    ##   가
        ServerAlias www.gamu.kr ## ServerAlias   가 가
    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined

    SSLEngine on

    SSLCertificateFile      /etc/ssl/certs/ssl-cert-snakeoil.pem
    SSLCertificateKeyFile   /etc/ssl/private/ssl-cert-snakeoil.key
    <FilesMatch "\.(?:cgi|shtml|phtml|php)$">
        SSLOptions +StdEnvVars
    </FilesMatch>
    <Directory /usr/lib/cgi-bin>
        SSLOptions +StdEnvVars
    </Directory>
</VirtualHost>
```

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

## 3. Certbot

```
sudo certbot --apache    ##           . !!Double Dash!!
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 #
```

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