

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 ##
```

```
Unable to find corresponding HTTP vhost;  
Unable to create one as intended addresses conflict;  
Current configuration does not support automated redirection
```

```
certbot certonly --standalone -d gamu.kr,www.gamu.kr
```

4. DDNS

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

```
[Unit]  
Description=gamu.kr & www.gamu.kr DDNS(DnsZi) Renewal Service  
  
[Service]  
Type=oneshot  
## DNSZi  
ExecStart=$(type -p 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 #
```

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