Apache Webserver HTTPS + DDNS

1. Apache2, Certbot 설치

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

2. Apache2 설정

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

```
gamu.kr.conf

<VirtualHost *:443>
        ServerName  gamu.kr      ## 추가
        ServerAlias www.gamu.kr ## ServerAlias는 더 추가 가능

        ServerAdmin webmaster@localhost
        DocumentRoot /var/www/html

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

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

3. Certbot 설정

```
sudo certbot –apache    ## 실행후 질문에 선택사항 입력
sudo systemctl restart apache2
sudo systemctl status certbot.timer   ## 갱신 작동 확인
```

4. DDNS 자동 갱신

/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 등록, 실행

```
sudo systemctl enable gamu.timer   # 부팅시 타이머 실행 설정
sudo systemctl start gamu.timer    # 타이머 실행
sudo systemctl status gamu.kr      # 등록한 타이머 상태 확인
```

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