

IT 네트워크 시스템 *IT Network Systems* **Administration**

 Written by **Donghyun Choi (KGU)**

✦ - Worldskills Korea - Assessment Task (IT Network Systems) -  [Written by NullBins]

- By default, the commands are executed as a root user.

[Project-1] < Linux Environments >

3. DNS 서비스 구성 (DNS Service Configuration)

- ✦ DONG-SRV 및 DAE-SRV, DNS 도메인 네임서버 구성 구성 시 패키지 도구는 BIND9을 사용함.

< Configuration >

- [DONG-SRV1]

```
kinit Administrator
```

```
samba-tool dns add 192.168.1.1 donghyun.net www.donghyun.net CNAME DONG-SRV1.donghyun.net
samba-tool dns add 192.168.1.1 donghyun.net mail.donghyun.net CNAME DONG-SRV2.donghyun.net
samba-tool dns add 192.168.1.1 donghyun.net @ MX "mail.donghyun.net 10"
samba-tool dns query 192.168.1.1 donghyun.net @ ALL -U Administrator
```

```
cp /etc/bind/db.127 /var/cache/bind/192.rev
chown bind:bind -R /var/cache/bind/
sed -i "s/localhost/DONG-SRV1.donghyun.net/g" /var/cache/bind/192.rev
```

```
vim /var/cache/bind/192.rev
```

1	IN	PTR	DONG-SRV1.donghyun.net
2	IN	PTR	DONG-SRV2.donghyun.net

```
systemctl restart bind9
```

- [**DAE-SRV**]

```
apt install bind9 -y
```

```
vim /etc/bind/named.conf
```

```
// include "/etc/bind/named.conf.options";
// include "/etc/bind/named.conf.local";
// include "/etc/bind/named.conf.default-zones";

options {
    directory "/var/cache/bind";
    listen-on { any; };
    allow-query { any; };
    dnssec-validation no;
};

view int {
    match-clients { 192.168.1.0/24; 172.16.1.0/24; localhost; };
    include "/etc/bind/named.conf.default-zones";
    zone "daeseong.net" {
        type master;
        file "int-daeseong.zone";
        allow-update { 172.16.1.254; };
    };
    zone "donghyun.net" {
        type forward;
        forwarders { 192.168.1.1; };
    };
};

view ext {
    match-clients { 117.121.35.0/24; };
    include "/etc/bind/named.conf.default-zones";
    zone "daeseong.net" {
        type master;
        file "ext-daeseong.zone";
    };
};
```

```
cp /etc/bind/db.0 /var/cache/bind/int-daeseong.zone
cp /etc/bind/db.0 /var/cache/bind/ext-daeseong.zone
chown bind:bind -R /var/cache/bind/
sed -i "s/localhost/DAE-SRV.daeseong.net/g" /var/cache/bind/int-daeseong.zone
sed -i "s/localhost/DAE-SRV.daeseong.net/g" /var/cache/bind/ext-daeseong.zone
```

```
vim /var/cache/bind/int-daeseong.zone
```

```
DAE-SRV    IN  A    172.16.1.1
www        IN  CNAME DAE-SRV
```

```
vim /var/cache/bind/ext-daeseong.zone
```

```
DAE-SRV    IN  A    117.121.35.150
www        IN  CNAME DAE-SRV
```

```
systemctl restart bind9
```