

# IPV6 DNS設定解說

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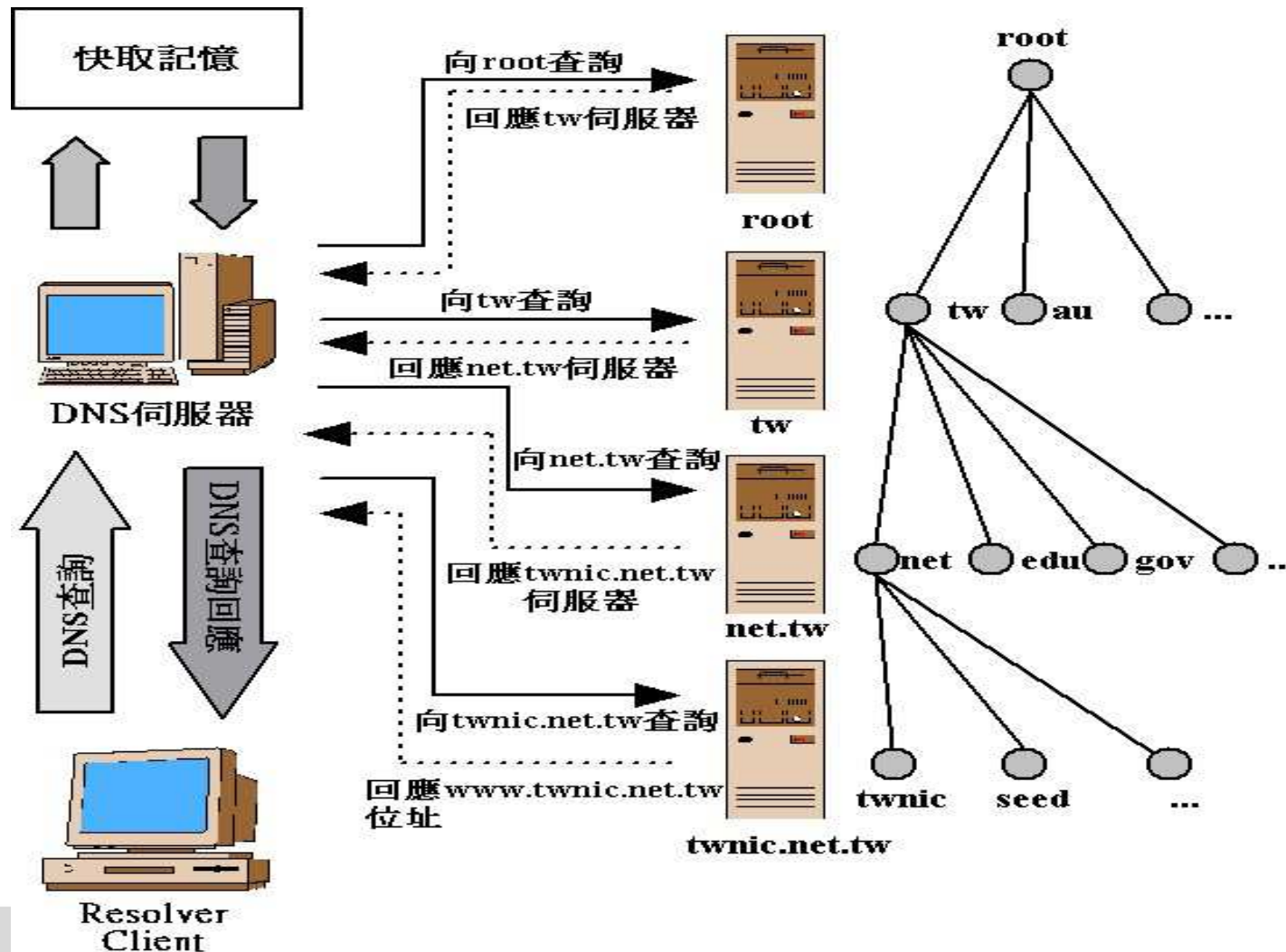
系統整合、資訊服務的第一選擇

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# DNS 運作 (正解範例)



# DNS 常見Type

Type	Description
A	address record
AAAA	IPv6 address record
CNAME	Canonical name record
MX	mail exchange record
NS	name server record
PTR	pointer record
SOA	start of authority record



# Server V6 IP 設定-Linux

- 假定原本V4 IP 爲 140.XXX.AAA.BBB
- 1.In /etc/sysconfig/network-scripts/ifcfg-eth0
- IPV6ADDR=2001:288:7XXX:AAA::BBB/64
- IPV6INIT=yes
- IPV6\_AUTOCONF=no
- 2.In /etc/sysconfig/network
- IPV6\_DEFAULTGW=2001:288:7XXX:AAA::CCC



# V6 DNS設定(正查)

## 僅需增加Record

In named.conf

```
options {listen-on-v6 { any; };
```

```
};
```

- V4 DNS Record “IN A”
- V6 DNS Record “IN AAAA”
- EX: ns.example.edu.tw

```
ns IN A 192.168.10.1
```

```
ns IN AAAA 2001:288:7AAA:1::1
```



# V6 DNS設定(反查)

## 需增加zone file

1. EX 2001:288:7AAA:1::/64
2. In named.conf

```
zone "1.0.0.0.A.A.A.7.8.8.2.0.1.0.0.2.ip6.arpa." {  
    type master;  
    file "ipv6.rev";  
    allow-query { any; };  
};
```







# V6 DNS設定(授權)

## ipv6-rev/ipv6.rev

\$TTL 36000

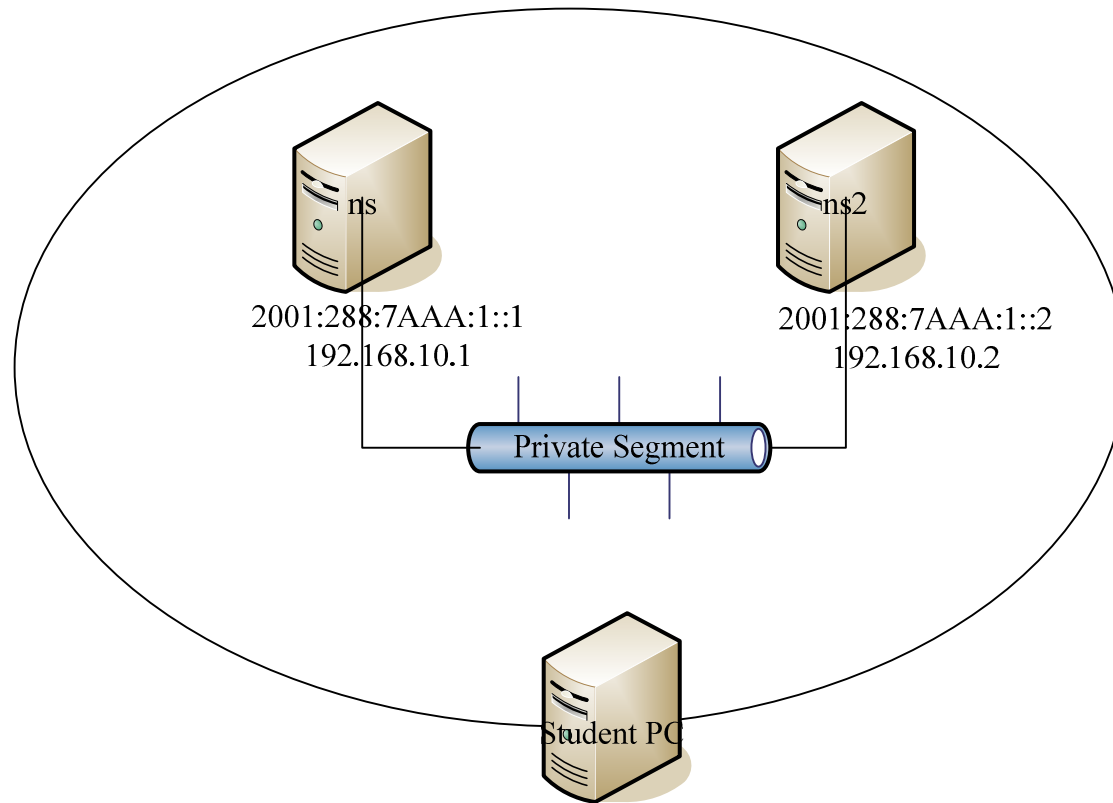
```
@      IN      SOA      ns.example.edu.tw.  admin.example.edu.tw. (
                2009102205 ; Serial
                21600   ; Refresh  6 hours
                3600    ; Retry   1 hour
                1209600 ; Expire  14 days
                172800) ; Minimum  2 days
      IN      NS      ns.example.edu.tw.
```

\$ORIGIN 1.0.0.0.1.A.A.7.8.8.2.0.1.0.0.2.ip6.arpa.

```
9.9.9.9      IN      NS      ns2.example.edu.tw.
```



# LAB



# 參考資料

## 1. TWNIC DNS建置參考

<http://dns-learning.twnic.net.tw/bind/toc.html>

## 2. Linux IPv6 HOWTO

<http://tldp.org/HOWTO/Linux+IPv6-HOWTO/>

## 3. Wiki about DNS

[http://en.wikipedia.org/wiki/Domain\\_Name\\_System](http://en.wikipedia.org/wiki/Domain_Name_System)

[http://en.wikipedia.org/wiki/List\\_of\\_DNS\\_record\\_types](http://en.wikipedia.org/wiki/List_of_DNS_record_types)

