

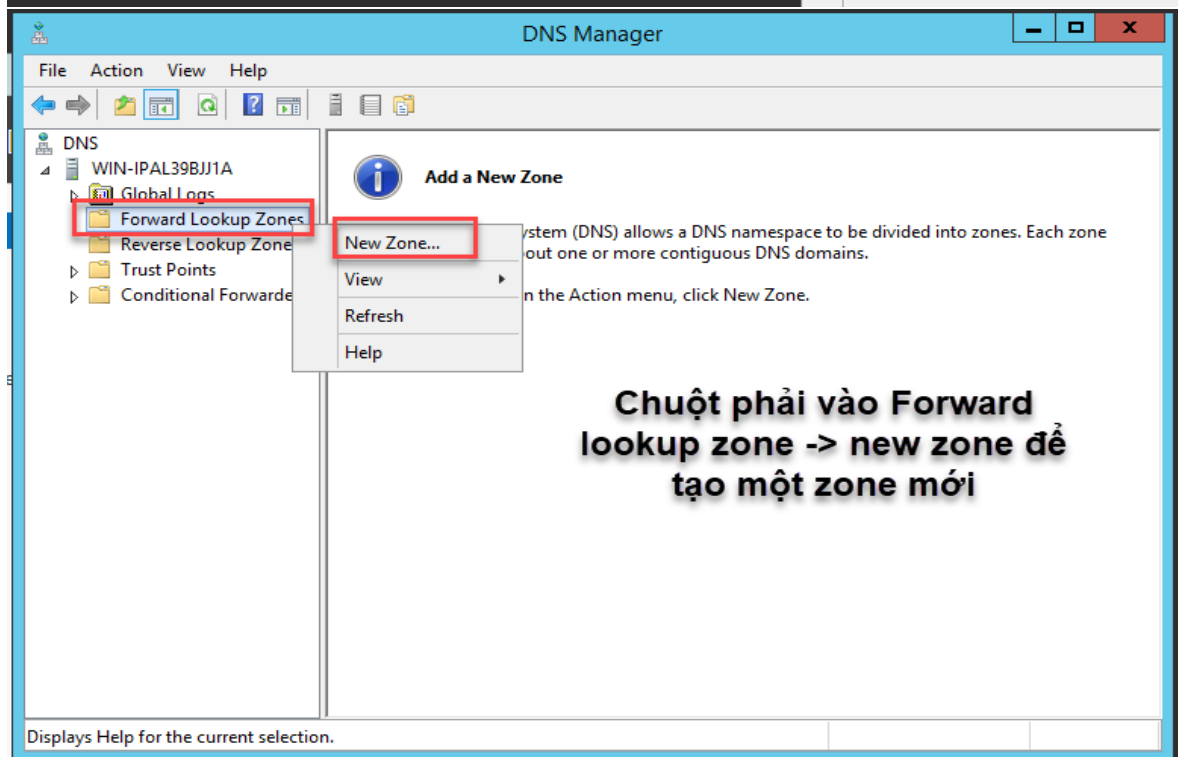
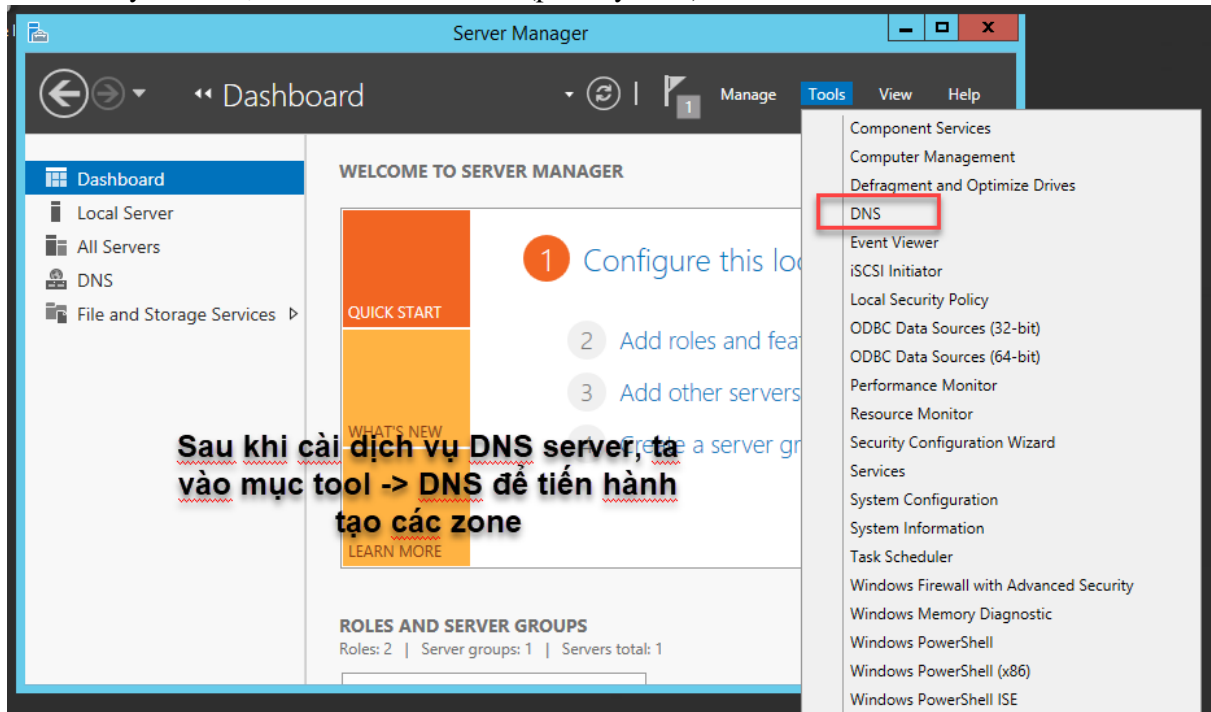
LAB 11 – DNS PRIMARY, SECONDARY

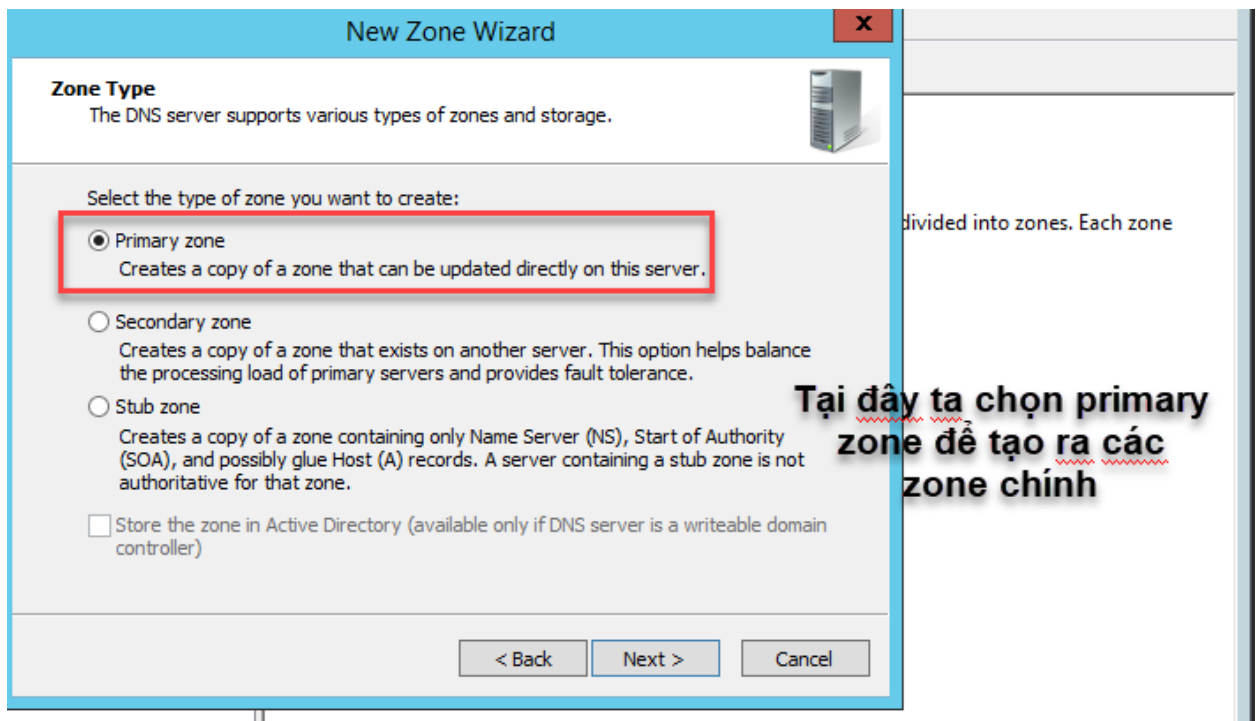
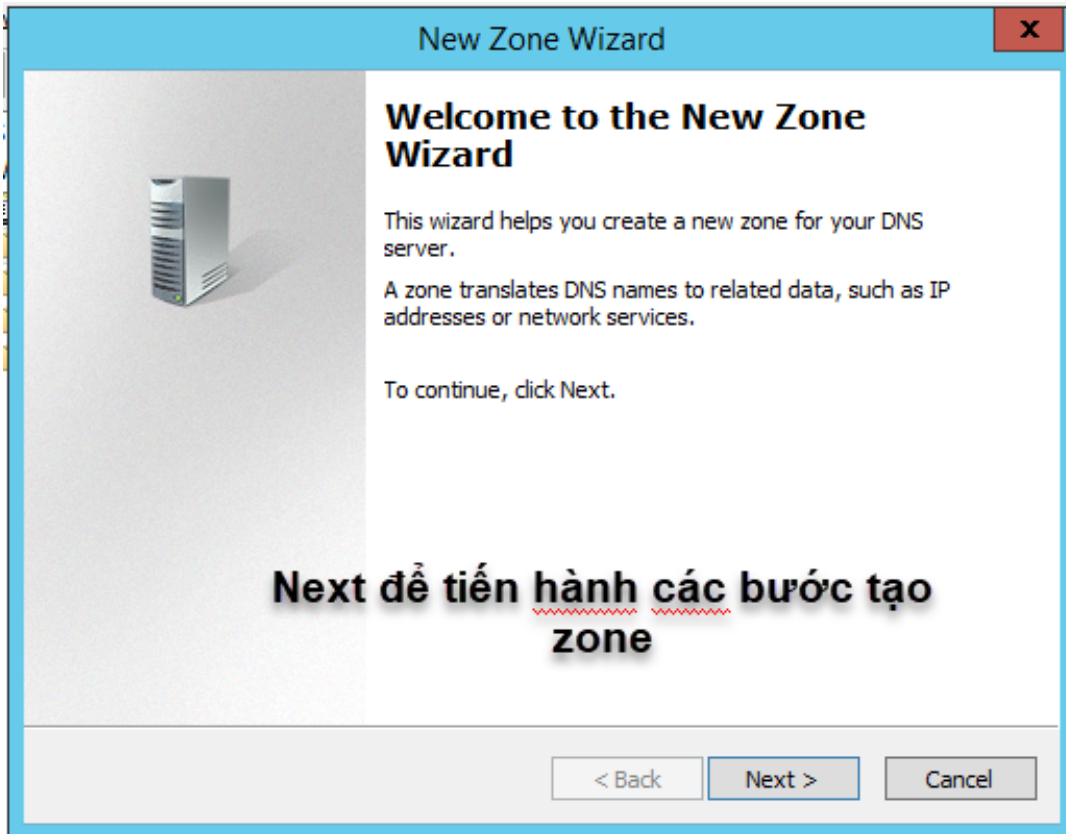
1. Chuẩn bị

- + Chuẩn bị 2 máy win sv 2012 không join domain.
- + Cài dịch vụ DNS trên cả 2 máy.

2. Tiến hành tạo các zone DNS

- + Trên máy số 1 ta tạo các zone DNS chính (primary zone)






New Zone Wizard

Zone Name

What is the name of the new zone?



The zone name specifies the portion of the DNS namespace for which this server is authoritative. It might be your organization's domain name (for example, microsoft.com) or a portion of the domain name (for example, newzone.microsoft.com). The zone name is not the name of the DNS server.

Zone name:

jetking.local

Đặt tên cho zone có dạng *.*

< Back


Next >

Cancel

New Zone Wizard

Zone File

You can create a new zone file or use a file copied from another DNS server.



Do you want to create a new zone file or use an existing file that you have copied from another DNS server?

☒ Create a new file with this file name:

jetking.local.dns

☐ Use this existing file:

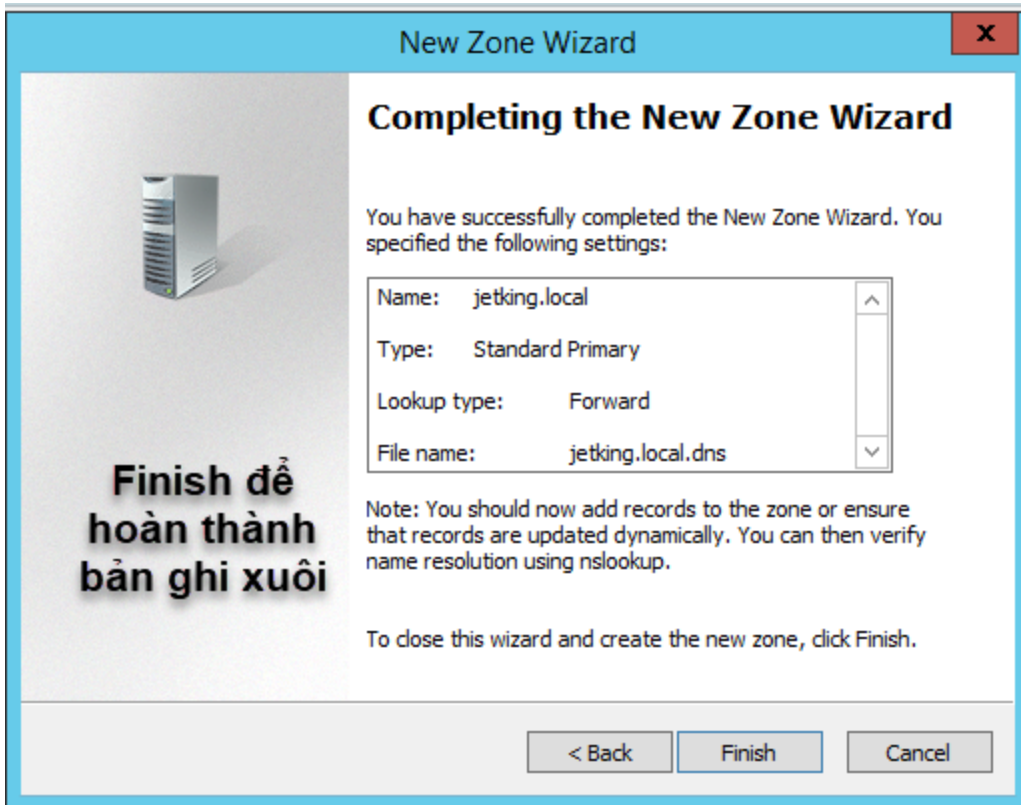
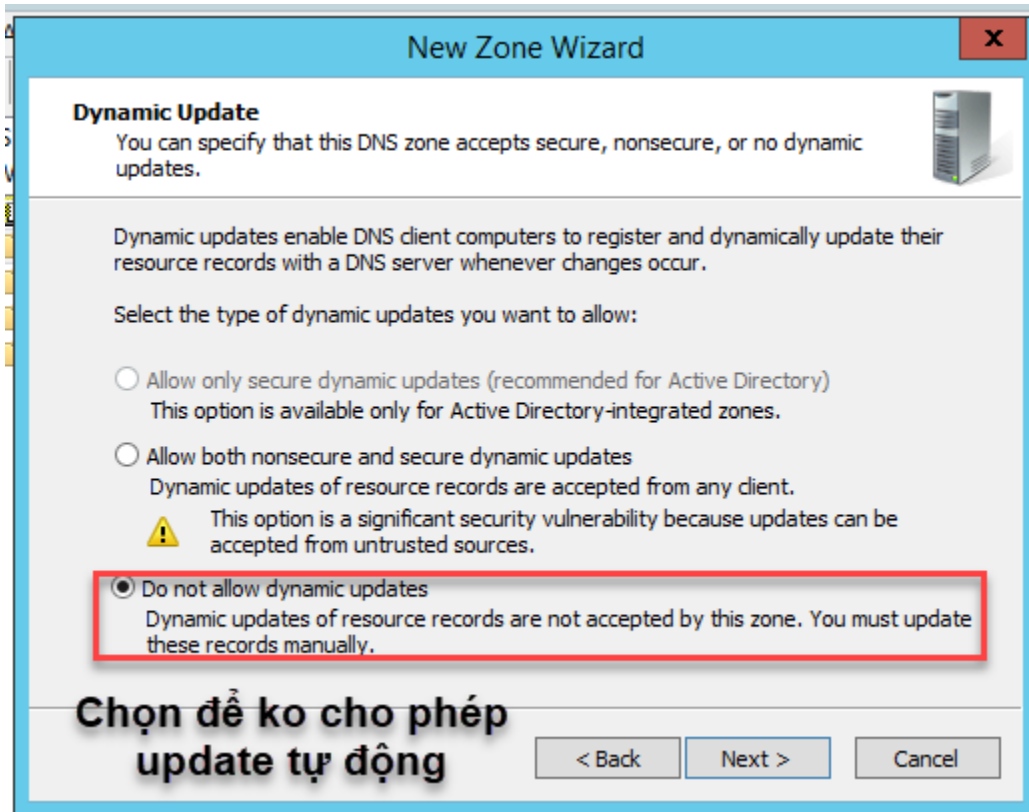
To use this existing file, ensure that it has been copied to the folder %SystemRoot%\system32\dns on this server, and then click Next.

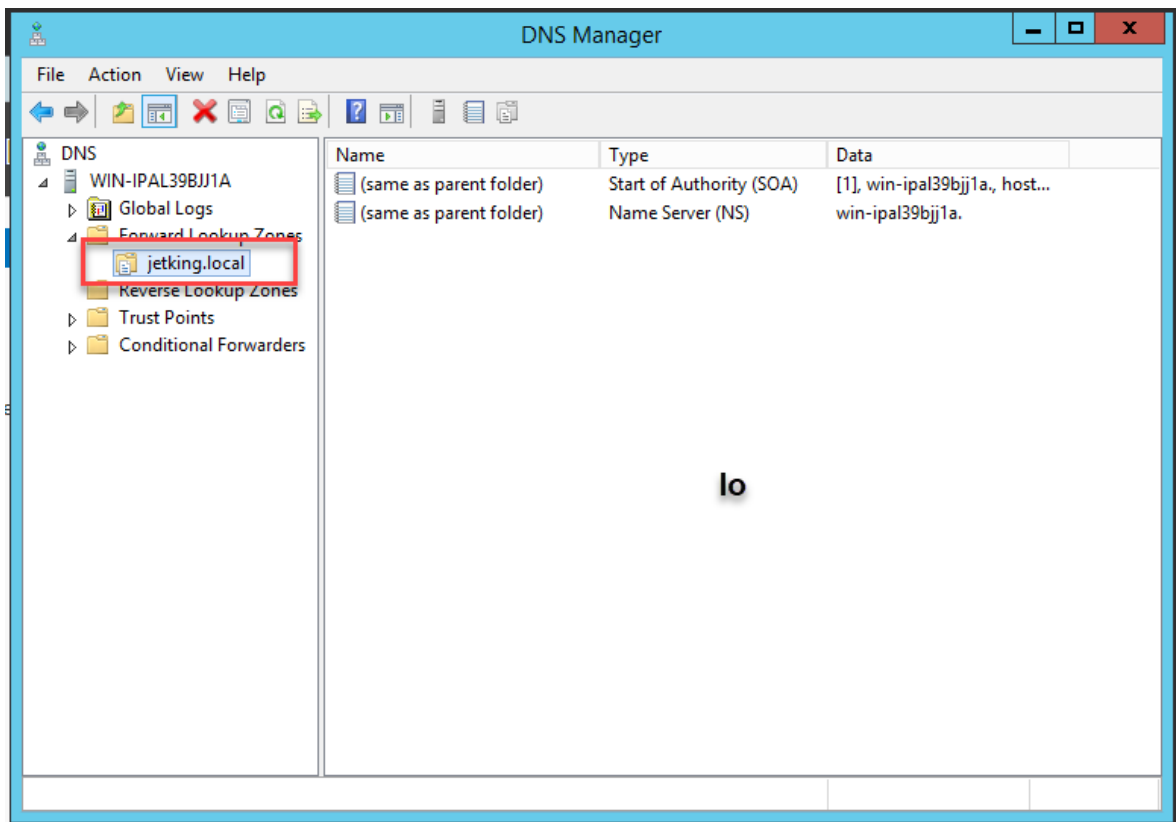
Next để tiếp tục

< Back

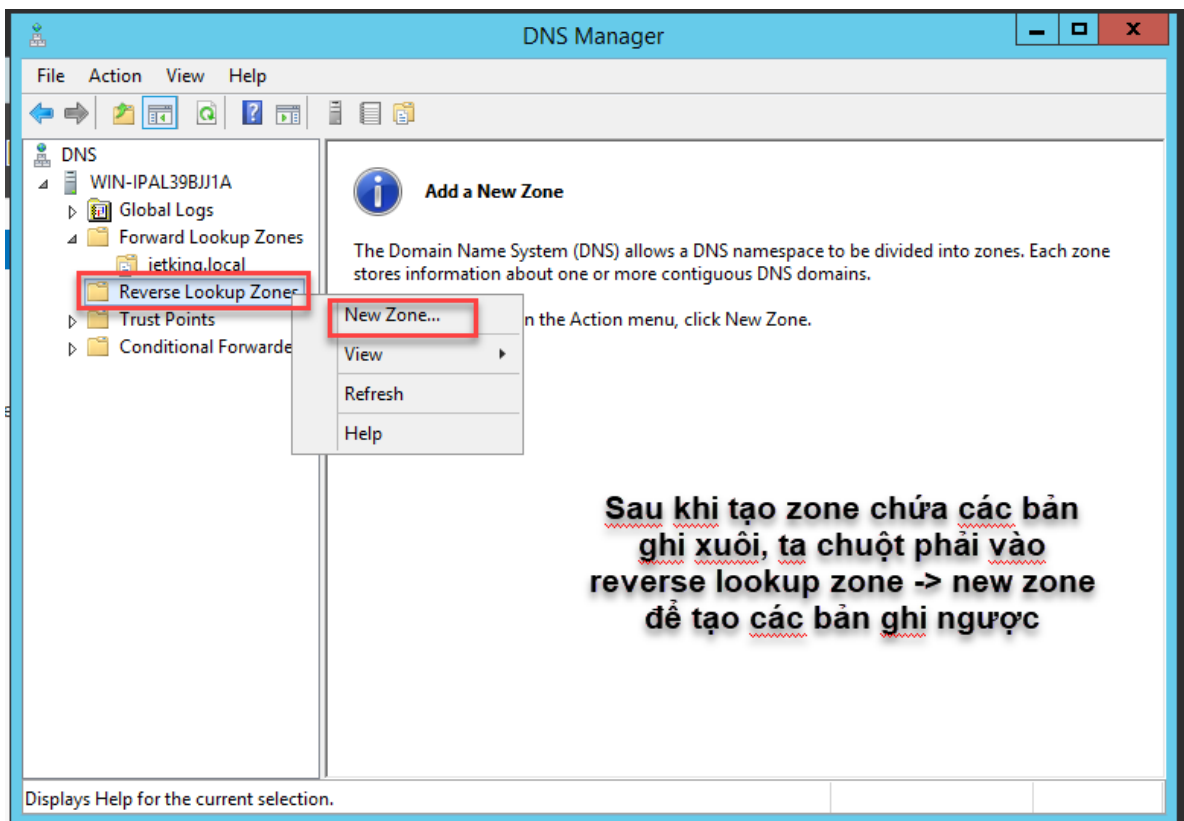
Next >

Cancel





lo



New Zone Wizard [X]

Zone Type
The DNS server supports various types of zones and storage.

Select the type of zone you want to create:

☒ Primary zone
Creates a copy of a zone that can be updated directly on this server.

☐ Secondary zone
Creates a copy of a zone that exists on another server. This option helps balance the processing load of primary servers and provides fault tolerance.

☐ Stub zone
Creates a copy of a zone containing only Name Server (NS), Start of Authority (SOA), and possibly glue Host (A) records. A server containing a stub zone is not authoritative for that zone.

☐ Store the zone in Active Directory (available only if DNS server is a writeable domain controller)

Chọn primary zone để tạo các bản ghi chính

< Back Next > Cancel

New Zone Wizard [X]

Reverse Lookup Zone Name
A reverse lookup zone translates IP addresses into DNS names.

Choose whether you want to create a reverse lookup zone for IPv4 addresses or IPv6 addresses.

☒ IPv4 Reverse Lookup Zone

☐ IPv6 Reverse Lookup Zone

Chọn IPv4 để phân giải địa chỉ IPv4

< Back Next > Cancel

New Zone Wizard

Reverse Lookup Zone Name
A reverse lookup zone translates IP addresses into DNS names.

To identify the reverse lookup zone, type the network ID or the name of the zone.

☒ Network ID:
10 .10 .10 .

The network ID is the portion of the IP addresses that belongs to this zone. Enter the network ID in its normal (not reversed) order.

If you use a zero in the network ID, it will appear in the zone name. For example, network ID 10 would create zone 10.in-addr.arpa, and network ID 10.0 would create zone 0.10.in-addr.arpa.

☐ Reverse lookup zone name:
10.10.10.in-addr.arpa

< Back Next > Cancel

Điền 3 octet của dải ip zone chính cần phân giải

New Zone Wizard

Zone File
You can create a new zone file or use a file copied from another DNS server.

Do you want to create a new zone file or use an existing file that you have copied from another DNS server?

☒ Create a new file with this file name:
10.10.10.in-addr.arpa.dns

☐ Use this existing file:

To use this existing file, ensure that it has been copied to the folder %SystemRoot%\system32\dns on this server, and then click Next.

Next để tiếp tục

< Back Next > Cancel

New Zone Wizard

Dynamic Update

You can specify that this DNS zone accepts secure, nonsecure, or no dynamic updates.

Dynamic updates enable DNS client computers to register and dynamically update their resource records with a DNS server whenever changes occur.

Select the type of dynamic updates you want to allow:

- ☐ Allow only secure dynamic updates (recommended for Active Directory)
This option is available only for Active Directory-integrated zones.
- ☐ Allow both nonsecure and secure dynamic updates
Dynamic updates of resource records are accepted from any client.
 This option is a significant security vulnerability because updates can be accepted from untrusted sources.
- ☒ Do not allow dynamic updates
Dynamic updates of resource records are not accepted by this zone. You must update these records manually.

Chọn ko cho update tự động

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Next >
Cancel

DNS Manager

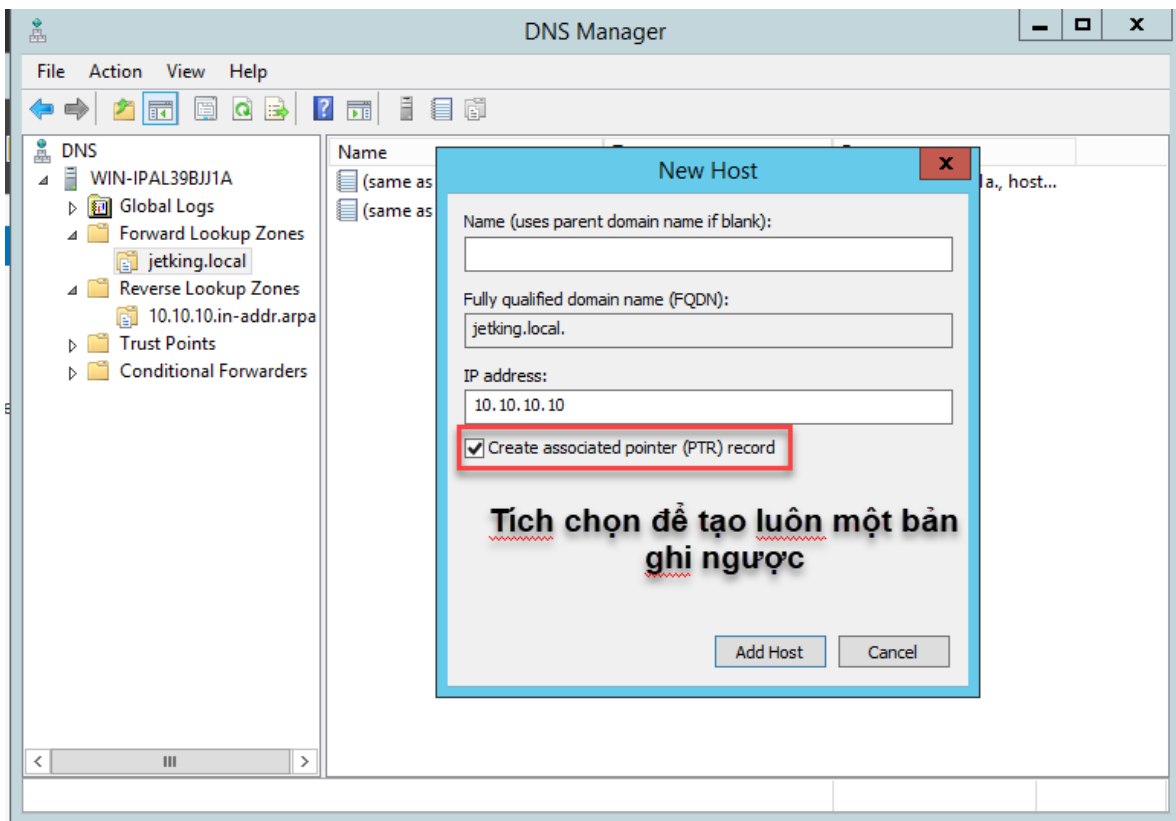
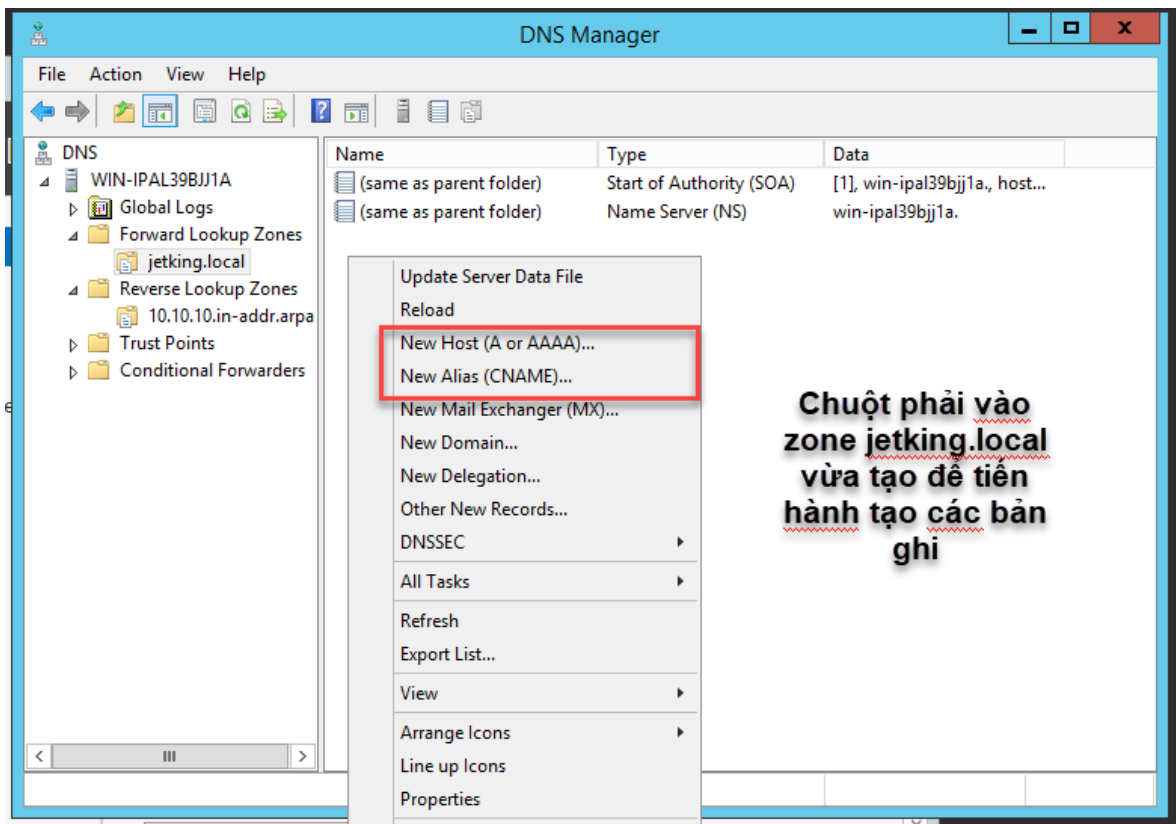
File Action View Help

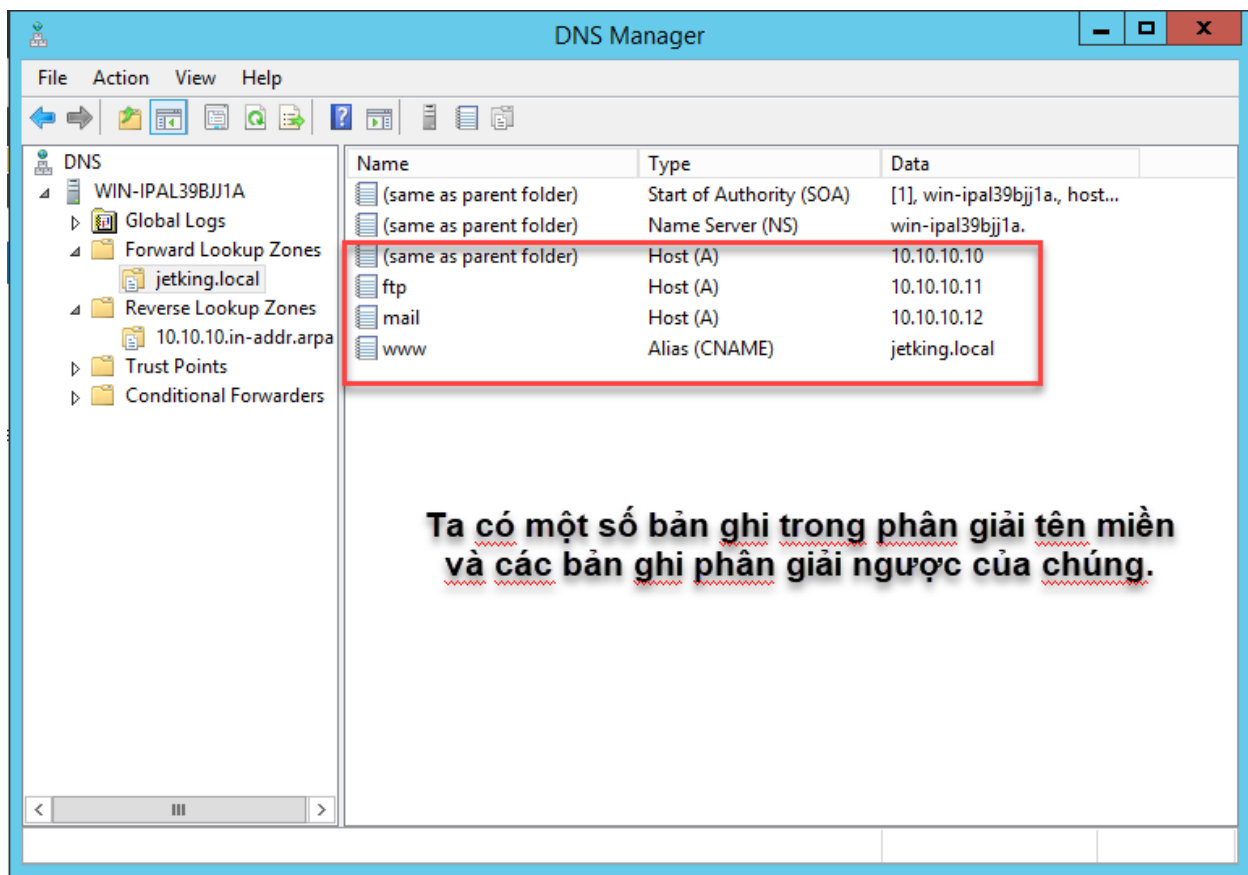
DNS

- WIN-IPAL39BJ1A
 - Global Logs
 - Forward Lookup Zones
 - jetking.local
 - Reverse Lookup Zones
 - 10.10.10.in-addr.arpa
 - Trust Points
 - Conditional Forwarders

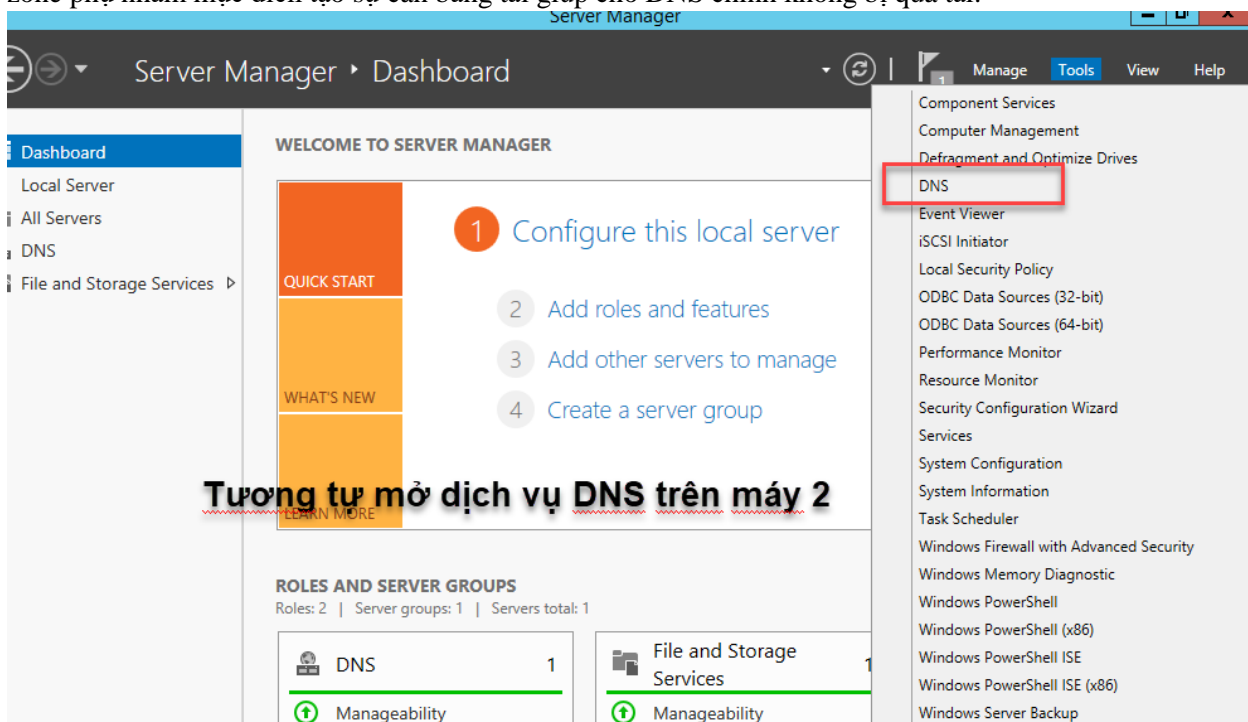
Name	Type	Data
(same as parent folder)	Start of Authority (SOA)	[1], win-ipal39bj1a., host...
(same as parent folder)	Name Server (NS)	win-ipal39bj1a.

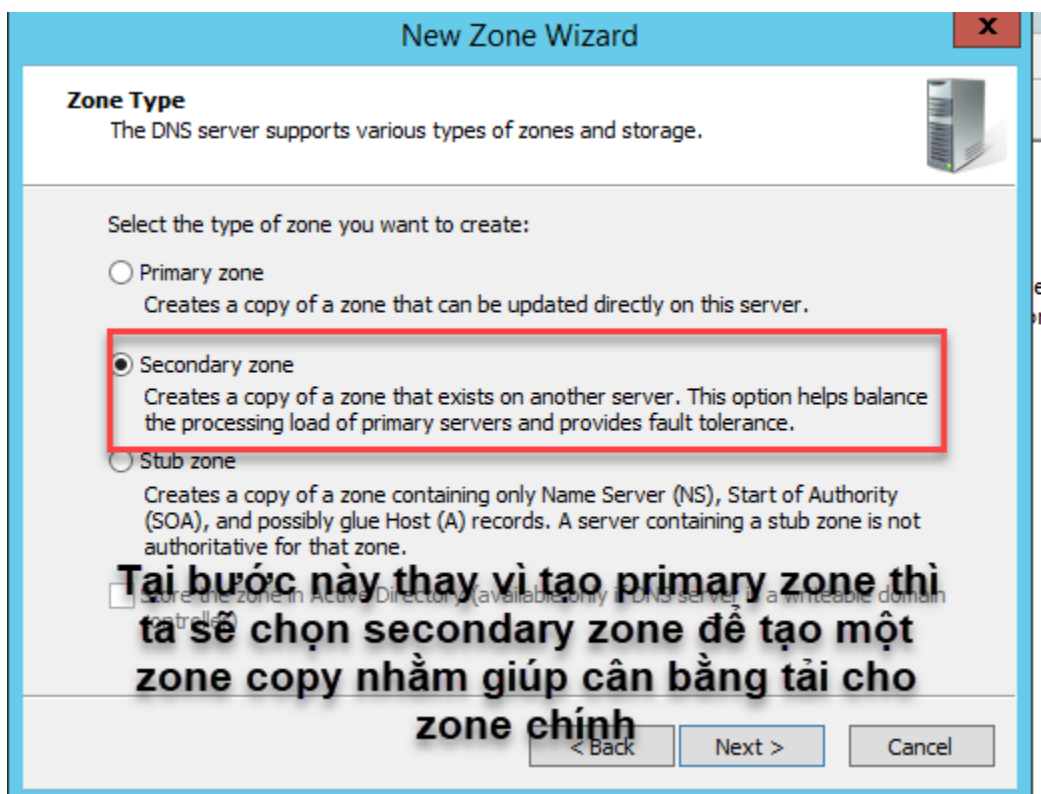
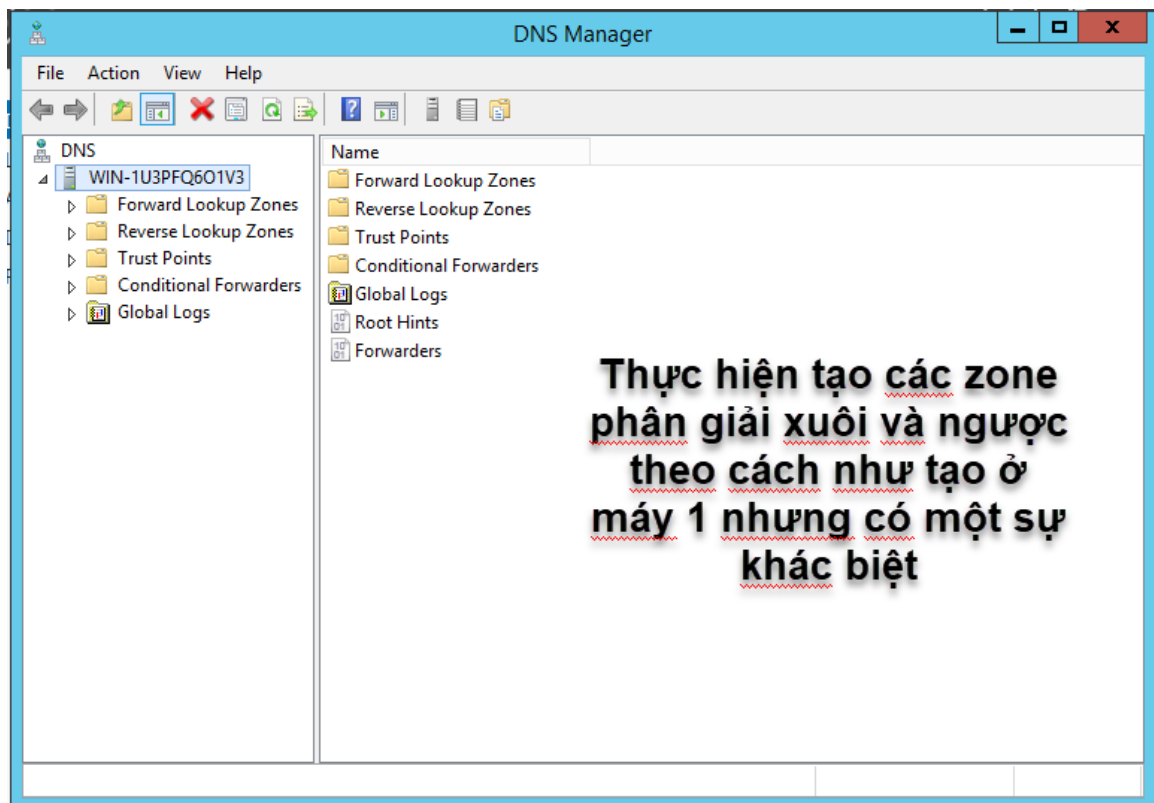
Xuất hiện zone phân giải địa chỉ IP dài 10.10.10.0 (nơi chưa các bản ghi phân giải ngược địa chỉ IP ra tên miền)





+ Sau khi tạo các zone chính và các bản ghi trên máy thứ 1, ta sang máy thứ 2 để tiến hành tạo zone phụ nhằm mục đích tạo sự cân bằng tải giúp cho DNS chính không bị quá tải.





New Zone Wizard

Zone Name
What is the name of the new zone?

The zone name specifies the portion of the DNS namespace for which this server is authoritative. It might be your organization's domain name (for example, microsoft.com) or a portion of the domain name (for example, newzone.microsoft.com). The zone name is not the name of the DNS server.

Zone name:
jetking.local

Điền tên zone

< Back Next > Cancel

New Zone Wizard

Master DNS Servers
The secondary zone is copied from one or more DNS servers.

Specify the DNS servers from which you want to copy the zone. Servers are contacted in the order shown.

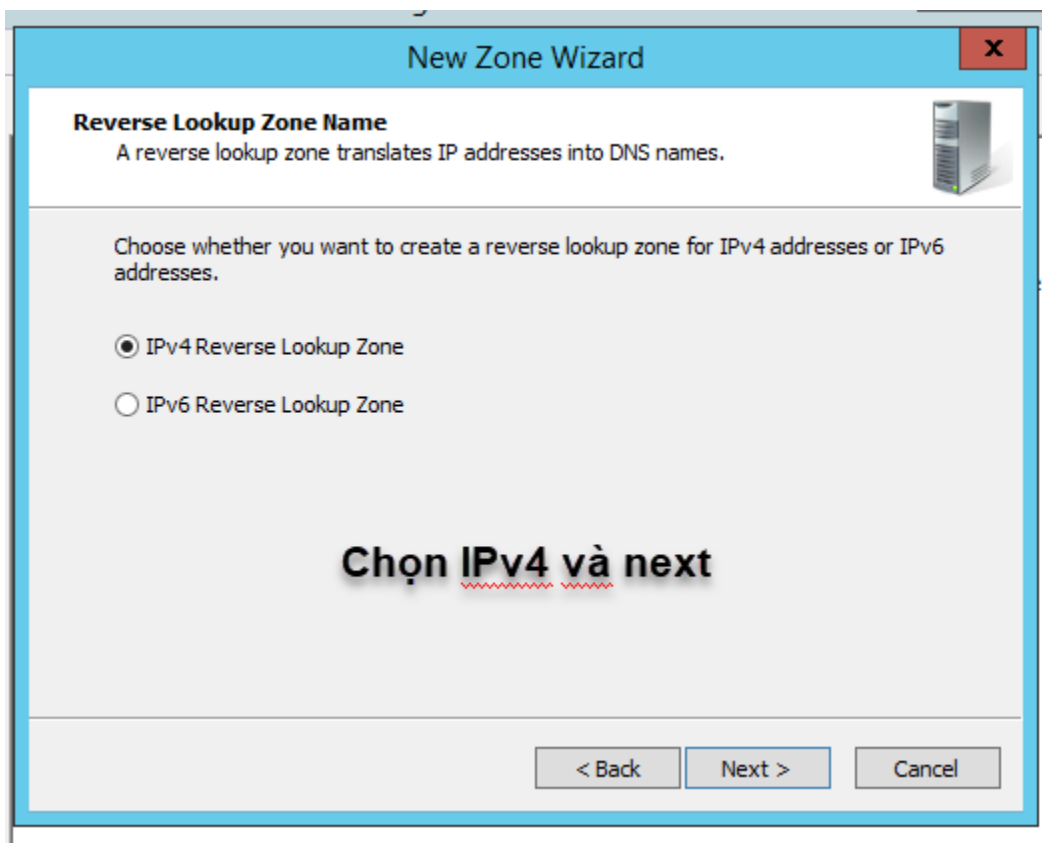
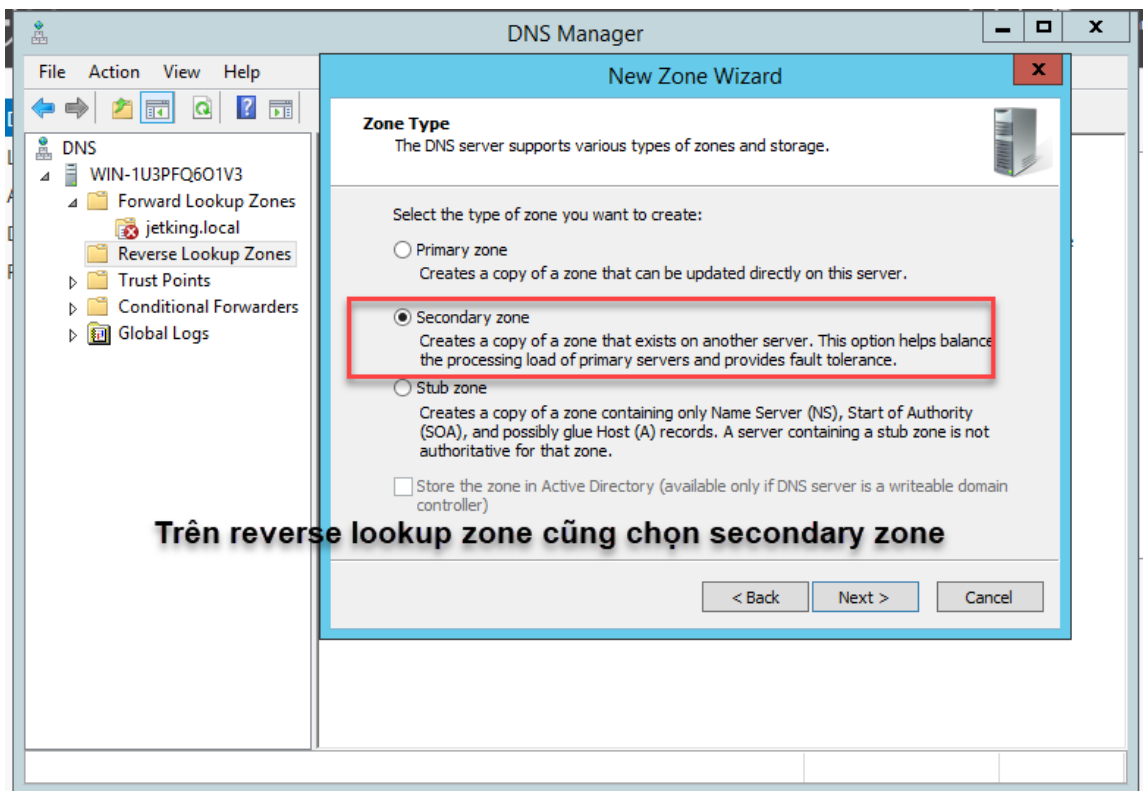
Master Servers:

IP Address	Server FQDN	Validated
<Click here to add an IP Address or DNS Name>		
✓ 10.10.10.10	jetking.local	OK

Delete
Up
Down

Nhập địa chỉ của máy sv 1 chứa zone primary

< Back Next > Cancel



New Zone Wizard

Reverse Lookup Zone Name

A reverse lookup zone translates IP addresses into DNS names.

To identify the reverse lookup zone, type the network ID or the name of the zone.

☒ Network ID:

10 .10 .10 .

The network ID is the portion of the IP addresses that belongs to this zone. Enter the network ID in its normal (not reversed) order.

If you use a zero in the network ID, it will appear in the zone name. For example, network ID 10 would create zone 10.in-addr.arpa, and network ID 10.0 would create zone 0.10.in-addr.arpa.

☐ Reverse lookup zone name:

10.10.10.in-addr.arpa

Điền 3 octet mạng đầu tiên của zone chính

< Back Next > Cancel

New Zone Wizard

Master DNS Servers

The secondary zone is copied from one or more DNS servers.

Specify the DNS servers from which you want to copy the zone. Servers are contacted in the order shown.

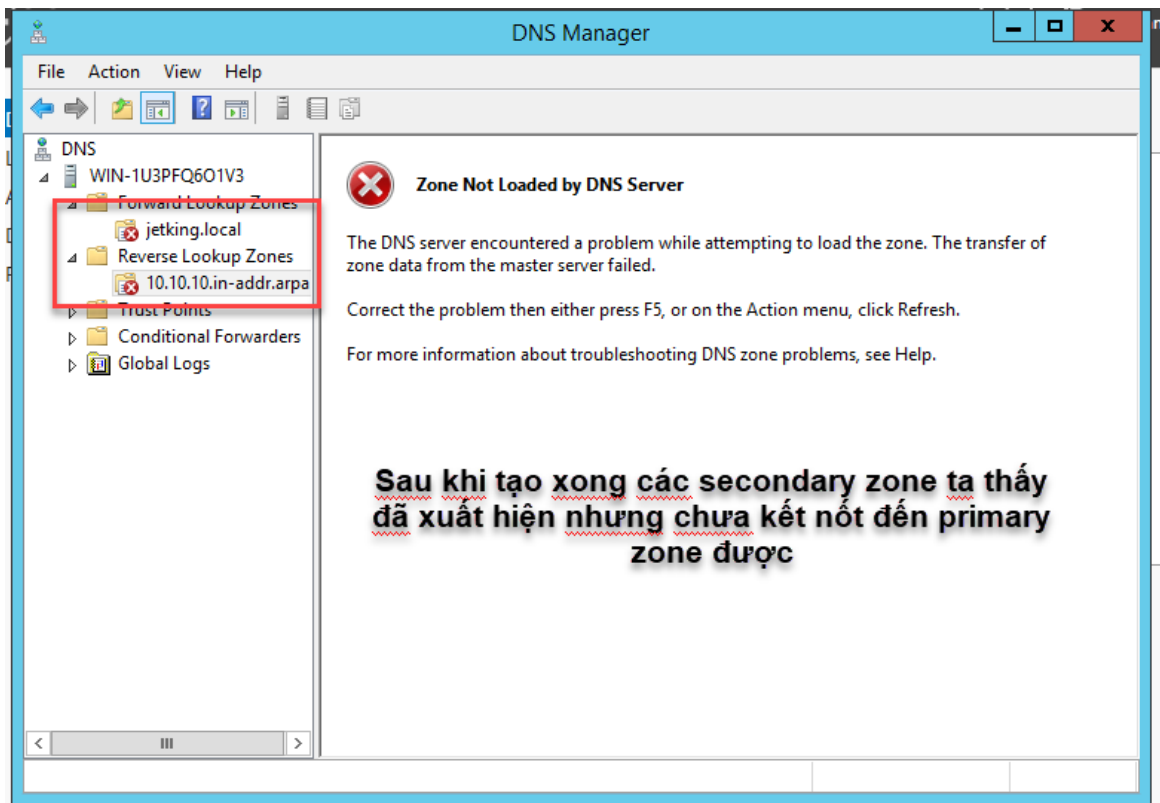
Master Servers:

IP Address	Server FQDN	Validated
<Click here to add an IP Address or DNS Name>		
✓ 10.10.10.10	jetking.local	OK

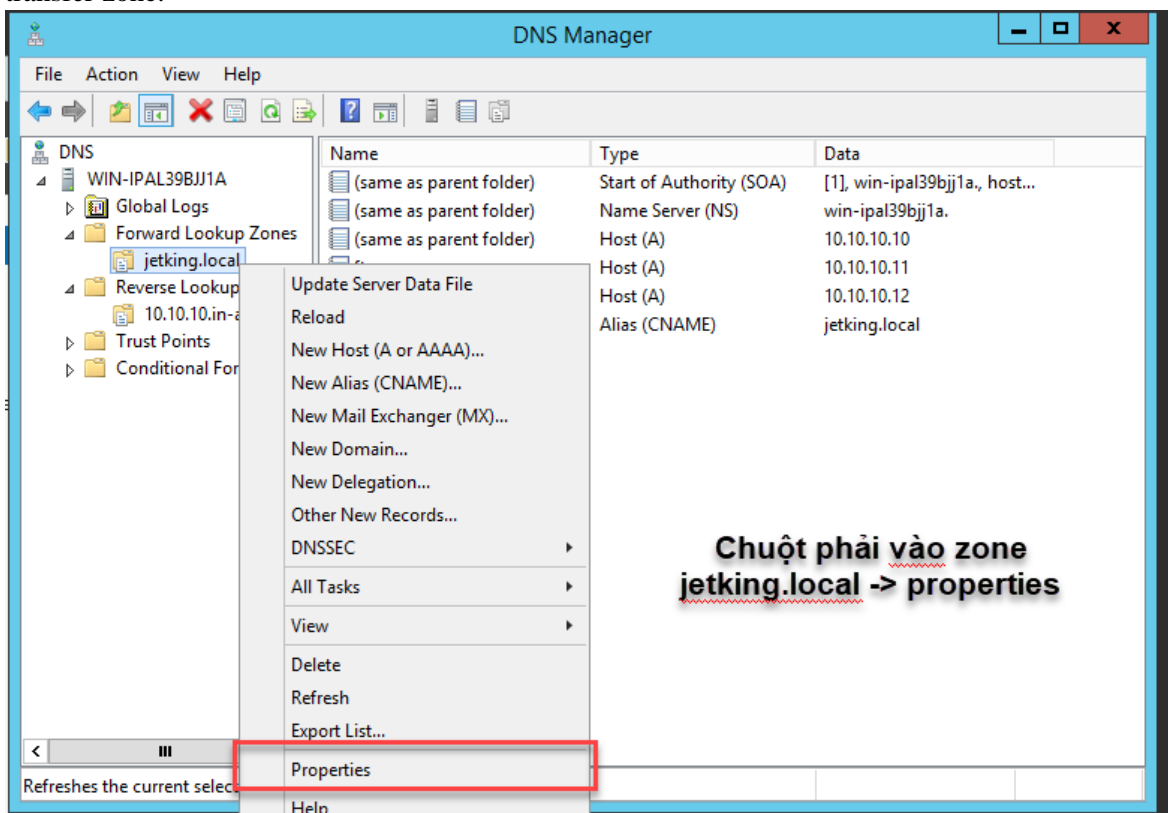
Delete
Up
Down

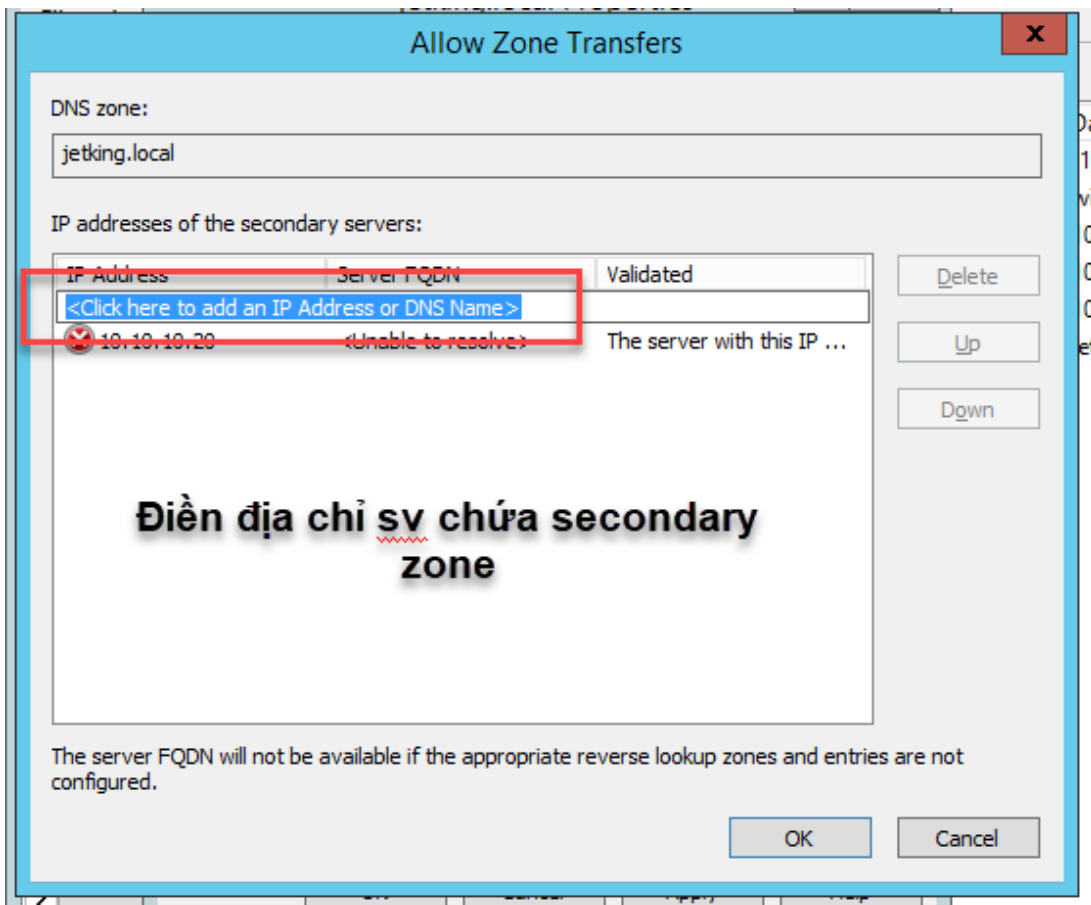
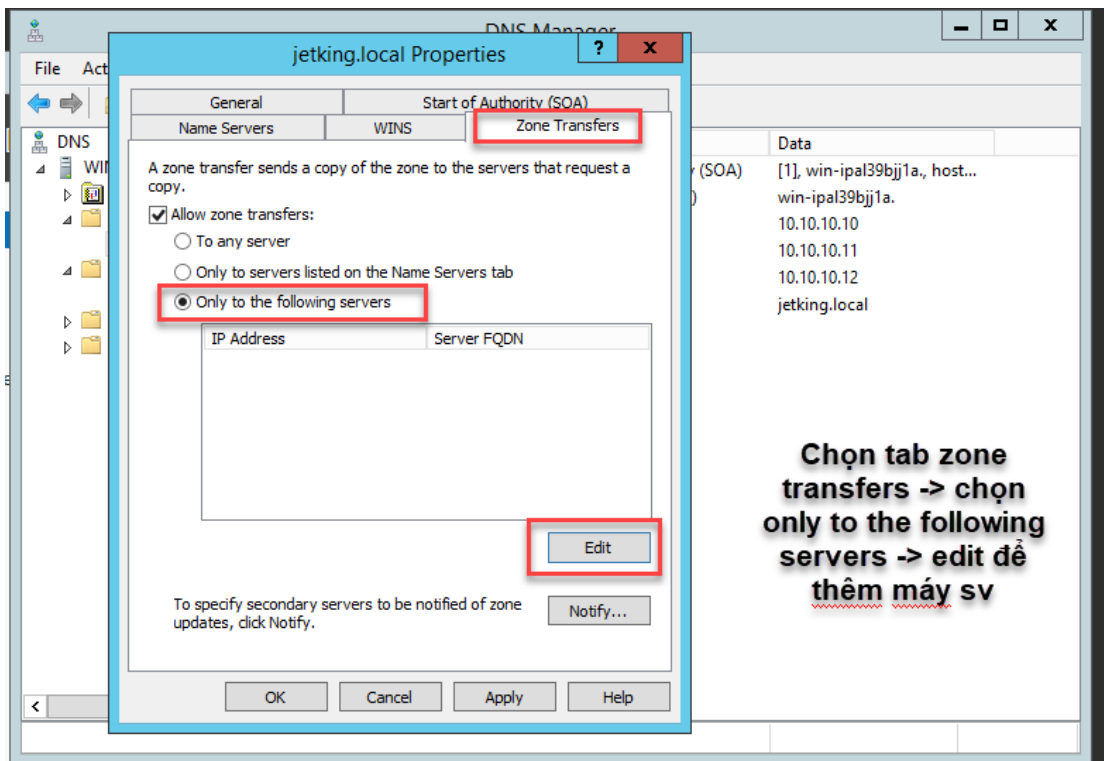
Điền địa chỉ ip máy sv chứa primary zone

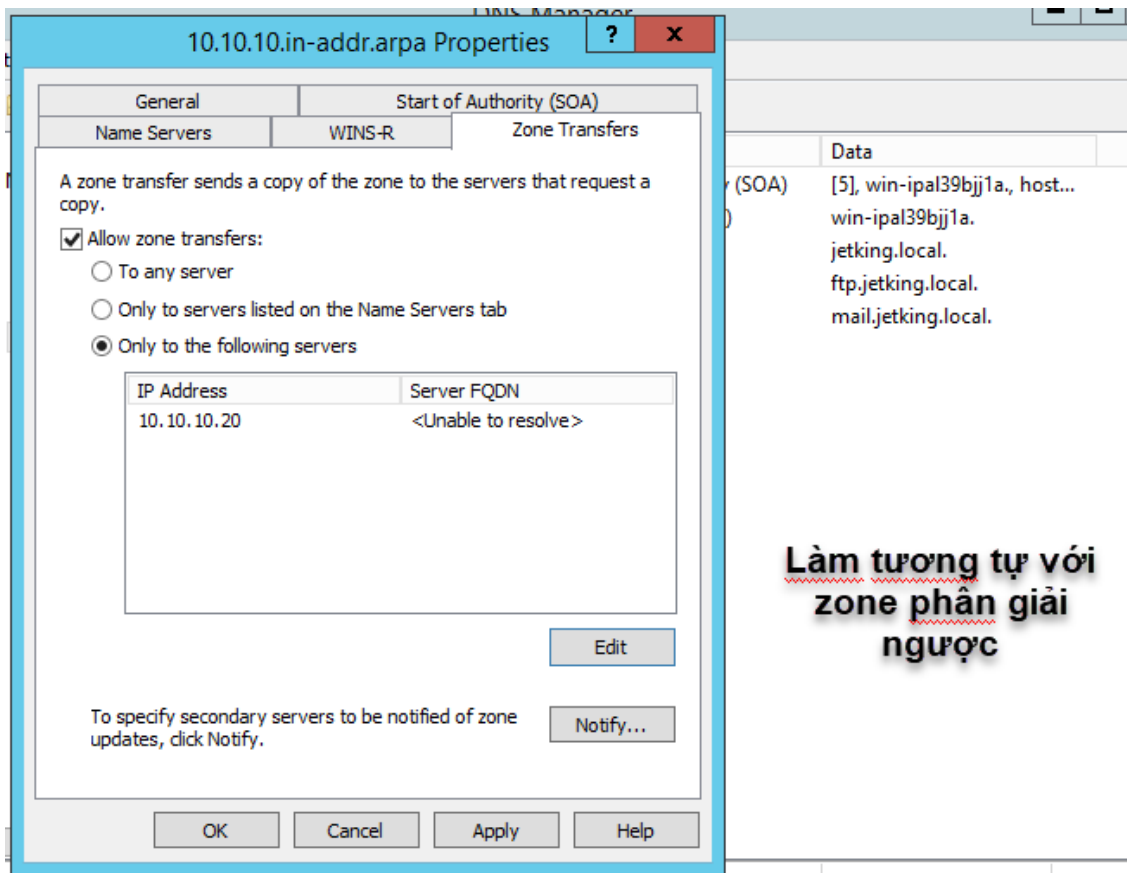
< Back Next > Cancel



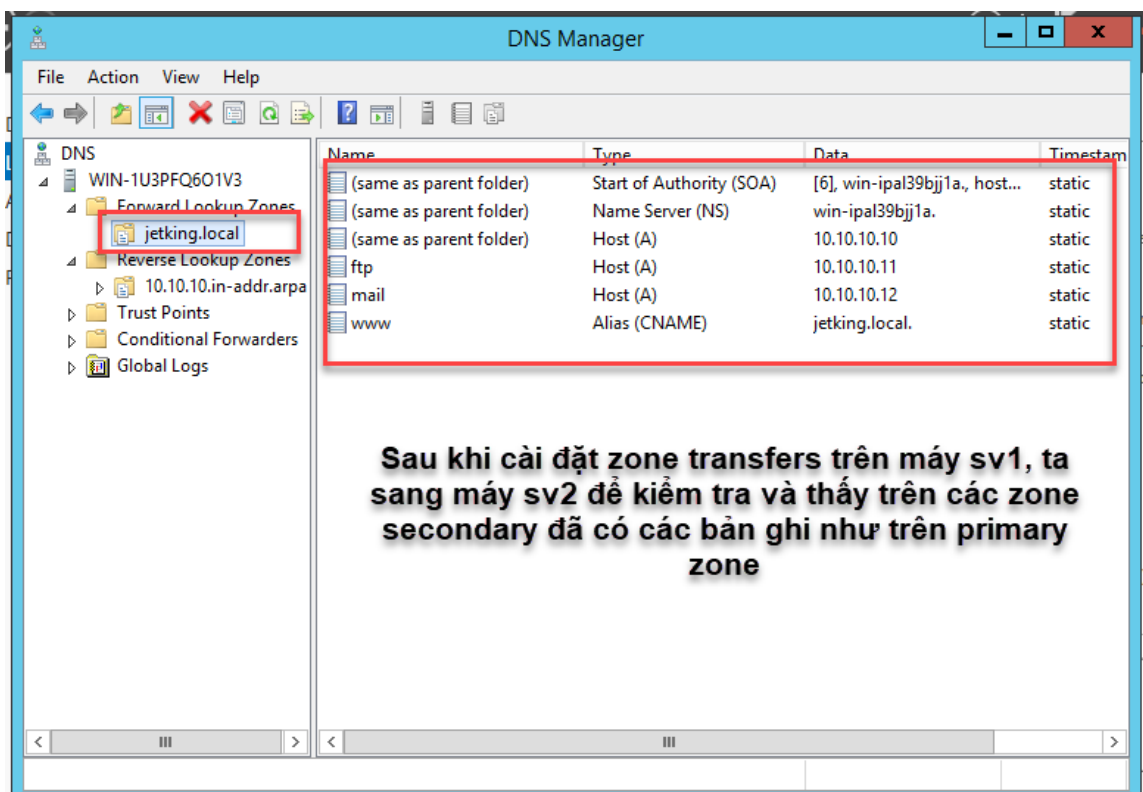
+ Sau khi các secondary zone được tạo trên máy sv thứ 2, ta quay lại máy sv 1 để thiết lập transfer zone.



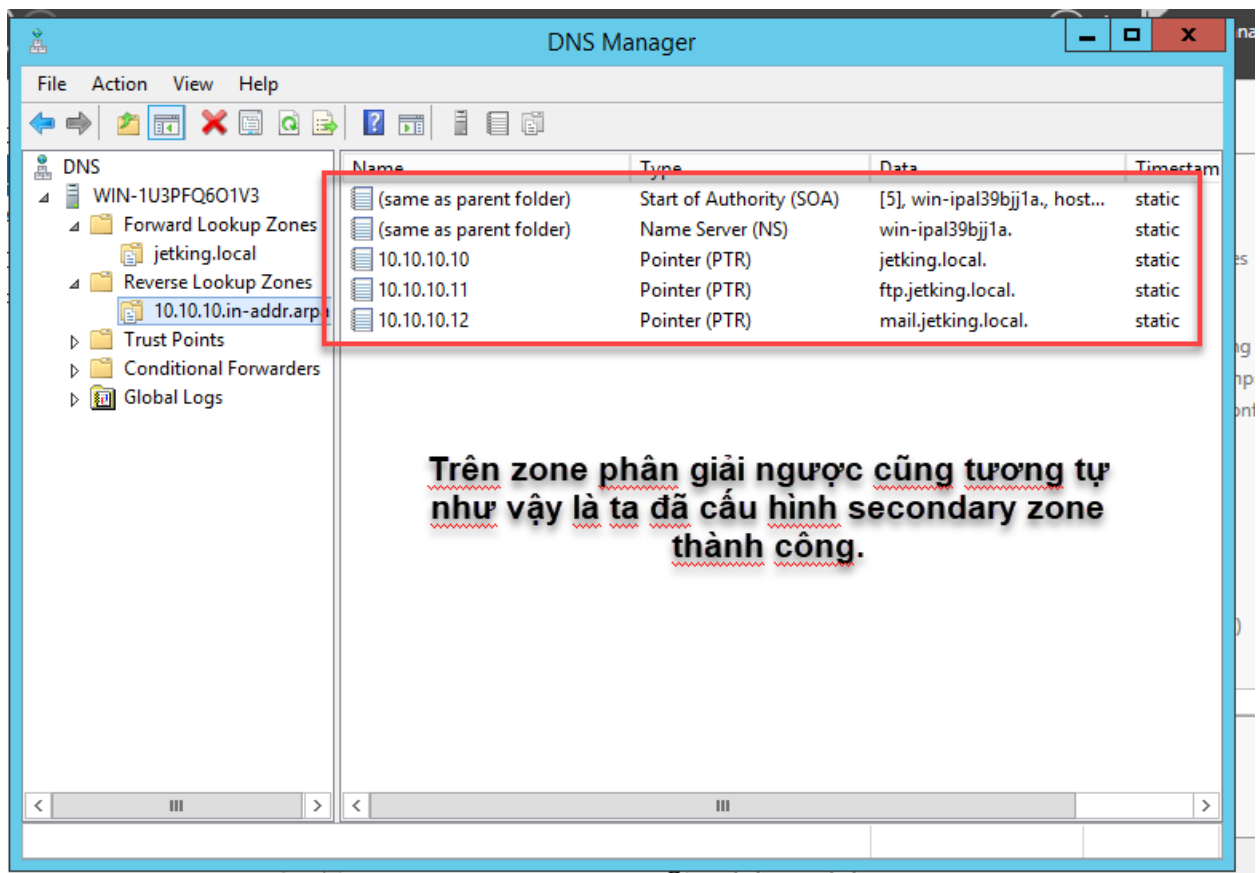




**Làm tương tự với
zone phân giải
ngược**



**Sau khi cài đặt zone transfers trên máy sv1, ta
sang máy sv2 để kiểm tra và thấy trên các zone
secondary đã có các bản ghi như trên primary
zone**



- + Sau khi tạo secondary zone và cài đặt zone transfers trên primary zone thành công, ta tiến hành lấy một máy win 7 hoặc 10 cho cùng mạng với 2 máy DNS sv. Nhưng DNS server chính của máy win 7 sẽ chỉ về địa chỉ IP của máy sv chứa secondary zone, DNS server phụ sẽ chỉ về địa chỉ IP của máy chứa primary zone.
- + Mở cmd trên máy win 7 hoặc 10, dùng câu lệnh nslookup để tiến hành kiểm tra sự phân dải tên miền và địa chỉ IP