DT: (028) 35124257 | Hotline: 0933427079 Email: vnpro@vnpro.org



LAB : DNS

## CÀI ĐẶT VÀ CẤU HÌNH DNS



## A. YÊU CẦU:

- Cài đặt dịch vụ **DNS** trên máy *PC01* Cấu hình dịch vụ **DNS**:
  - + Cấu hình Primary Zone trong Forward Lookup Zone với tên: 23TH02.VNPRO
  - + Cấu hình Reverse Zone trong Reverse Lookup Zone với dải: 192.168.1.0

Cấu hình các bản ghi: A, PTR, CNAME.

- Khai báo DNS client và kiểm tra:
  - + Khai báo tên máy: PC01
  - + Dùng nslookup để kiểm tra phân giải

# B. CHUẨN BỊ:

- + PC01: Windows Server 2016 để cài DNS
- + PC02: Windows 10 để kiểm tra phân giải.



### THỰC HIỆN:

- B1. Cài đặt Domain Controller trên máy PC01.
- B2. Join máy PC02 vào Domain Controller.
- **B3.** Mở Control Panel  $\rightarrow$  Network and Sharing Center, chọn Change Adapter Settings.

Chuột phải lên card LAN, chọn Properties → Chọn Internet Protocol Version 4 (TCP/IPv4)

→ Nhấn Properties.

	L Gigabit Network Conne	ection
		Configure
This connection uses	the following items:	
Client for Mic	crosoft Networks	
File and Prin	ter Sharing for Microsoft	Networks
QoS Packet	Scheduler	
Microsoft Ne	stwork Adapter Multiplex	or Protocol
A Links I mumn T	Tanalam, Disasuna, Man	or Hotocor
Link-Layer	Copology Discovery Map	per I/O Driver
✓	Topology Discovery Map Topology Discovery Resp rocal Version 6 (TCP/IP)	per I/O Driver ponder v6)
✓	Topology Discovery Map Topology Discovery Resp cocol Version 6 (TCP/IPs cocol Version 4 (TCP/IPs	per I/O Driver ponder v6) v4)
✓	Topology Discovery Map Topology Discovery Resp tocol Version 6 (TCP/IPv ocol Version 4 (TCP/IPv	per I/O Driver ponder v6) r4)
✓	Topology Discovery Map Topology Discovery Res tocol Version 6 (TCP/IPv ocol Version 4 (TCP/IPv Uninstall	per I/O Driver ponder v6) v4) Properties
✓	Topology Discovery Map Topology Discovery Res tocol Version 6 (TCP/IPv tocol Version 4 (TCP/IPv Uninstall	Properties
✓	Topology Discovery Map Topology Discovery Res tocol Version 6 (TCP/IPv tocol Version 4 (TCP/IPv Uninstall rol Protocol/Internet Prot	per I/O Driver ponder (6) (4) Properties

**B4.** Ở mục Preferred DNS Server, trỏ về IP của chính mình  $\rightarrow$  OK



neral	
ou can get IP settings assigned a nis capability. Otherwise, you nee or the appropriate IP settings.	utomatically if your network supports ad to ask your network administrator
Obtain an IP address automa	tically
• Use the following IP address:	
IP address:	192 . 168 . 1 . 100
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	
O Obtain DNS server address a	utomatically
Use the following DNS server	addresses:
Preferred DNS server:	192.168.1.100
Alternate DNS server:	
Validate settings upon exit	Advanced

- **B5.** Mở Server Manager, vào menu Manage, chọn Add Roles and Features
- **B6.** Màn hình Welcome  $\rightarrow$  Next
- **B7.** Màn hình Select installation type  $\rightarrow$  Chọn Role-based or feature-based installation
- $\rightarrow$  Next

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**B8**. Màn hình Select destination server, giữ như mặc định  $\rightarrow$  Next

B9. Màn hình Select server roles, đánh dấu chọn vào ô DNS

B10. Tại cửa sổ Installation progress, click vào Close để kết thúc quá trình cài đặt

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Installation prog	ress	DESTINATION SER
Before You Begin Installation Type Server Selection	View installation progress	_
Server Koles Features DNS Server Confirmation Results	DNS Server Remote Server Administration Tools Role Administration Tools DNS Server Tools	
	You can close this wizard without interrupting running tasks. Vie page again by clicking Notifications in the command bar, and th	w task progress or open thi en Task Details.

**B11.** Vào Server Manager  $\rightarrow$  Tools  $\rightarrow$  chọn vào dịch vụ DNS

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2	DNS Manager				
File Action View Help					
🦛 🔿 📶 🖾 📰					
DNS PC01 Global Logs Forward Lookup Zones Reverse Lookup Zones Trust Points Conditional Forwarders	Add a New Zone         The Domain Name System (DNS) allows a DNS namespace to be divided into zones. Each zone stores information about one or more contiguous DNS domains.         To add a new zone, on the Action menu, click New Zone.				

B12. Click chuột phải tại Forward Lookup Zones chọn New Zone... Next



Website: www.vnpro.vn | Forum: www.vnpro.org | Video: https://www.youtube.com/c/VnProTrungTamTinHoc



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# **B13.** Tại cửa số Zone Type, chọn vào Primary zone $\rightarrow$ Next

New Zone Wizard	×
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.	
<ul> <li>Secondary zone</li> <li>Creates a copy of a zone that exists on another server. This option helps ball</li> </ul>	ance
Stub zone	
Creates a copy of a zone containing only Name Server (NS), Start of Authorit (SOA), and possibly glue Host (A) records. A server containing a stub zone is authoritative for that zone.	ty not
Store the zone in Active Directory (available only if DNS server is a writeable controller)	domain
< Back Next >	Cancel

**B14.** Tại cửa sổ Zone Name, nhập vào tên miền: 23th02.vnpro → Next

\$	DNS Managor	×
-	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.	e to be divided into zones. Each zone mains.
	Zone name:	
Н	23th02.vnpro	
	< Back Next > Cancel	

B15. Tại cửa sổ Dynamic Update, chọn vào Allow both nonsecure and secure dynamic updates

 $\rightarrow$  Next  $\rightarrow$  Finish





B16. Click chuột tại Reverse Lookup Zones, chọn vào New Zone -> Next



B17. Tại cửa sổ Zone Type, click chọn vào Primary zone → Next



New	Zone Wizard		×
Zone Type The DNS server supports various typ	oes of zones and stora	ge.	-
Select the type of zone you want to	create:		
Primary zone			
Creates a copy of a zone that ca	in be updated directly (	on this server.	
Secondary zone			
Creates a copy of a zone that ex the processing load of primary se	ists on another server ervers and provides fai	. This option help ult tolerance.	s balance
<ul> <li>Stub zone</li> </ul>			
Creates a copy of a zone contain (SOA), and possibly glue Host (A authoritative for that zone.	ning only Name Server ) records. A server cor	(NS), Start of Au Intaining a stub zo	thority ne is not
Store the zone in Active Directory controller)	y (available only if DNS	server is a writea	able domain

B18. Tại cửa sổ Reverse Lookup Zone Name, click chọn vào IPv4 Reverse Lookup Zone

 $\rightarrow$  Next

New Z	one Wizard	×
Reverse Lookup Zone Name A reverse lookup zone translates IP add	resses into DNS names.	The second second
Choose whether you want to create a r addresses.	everse lookup zone for IPv4 address	ses or IPv6
IPv4 Reverse Lookup Zone		
O IPv6 Reverse Lookup Zone		
	< Back Next >	Cancel

**B19.** Tại cửa sổ Reverse Lookup Zone Name, nhập vào Network ID: 192.168.1. → Next → Next



New Zo	ne Wizard	x
Reverse Lookup Zone Name A reverse lookup zone translates IP addr	esses into DNS names.	
To identify the reverse lookup zone, type Network ID: 192 .168 .1 The network ID is the portion of the I network ID in its normal (not reversed If you use a zero in the network ID, it network ID 10 would create zone 10.1 zone 0.10.in-addr.arpa.	e the network ID or the name of the zone P addresses that belongs to this zone. En d) order. t will appear in the zone name. For examp in-addr.arpa, and network ID 10.0 would	iter the lle, create
Reverse lookup zone name:		
1.168.192.in-addr.arpa		
	< Back Next > C	Cancel

**B20.** Tại cửa sổ Dynamic Update, chọn vào Allow both nonsecure and secure dynamic updates  $\rightarrow$  Next  $\rightarrow$  Finish

New Zo	ne Wizard		×
Dynamic Update You can specify that this DNS zone accep updates.	ots secure, nonsec	cure, or no dynami	c .
Dynamic updates enable DNS client compo resource records with a DNS server when	uters to register a lever changes occ	and dynamically up tur.	date their
Select the type of dynamic updates you v	vant to allow:		
<ul> <li>Allow only secure dynamic updates (re This option is available only for Active</li> </ul>	commended for A Directory-integra	Active Directory) ated zones.	
<ul> <li>Allow both nonsecure and secure dyna Dynamic updates of resource records</li> </ul>	amic updates are accepted fro	m any client.	
This option is a significant secur     accepted from untrusted source	ity vulnerability b es.	ecause updates ca	in be
<ul> <li>Do not allow dynamic updates</li> <li>Dynamic updates of resource records these records manually.</li> </ul>	are not accepted	by this zone. You	must update
	< Back	Next >	Cancel

**B21.** Cấu hình tạo bản ghi cho máy PC01: Chọn tên miền 23th02.vnpro → Click chuột phải → New Host (A or AAAA)



👗 DNS Manager				-		x
File Action View Help	File Action View Help					
🗢 🜪 🖄 🖬 🗶 🖻 🍳 🖻						
🚊 DNs	Name	Туре	Data			
⊿ 📓 SRV	same as parent folder)	Start of Authority (SOA)	[1], srv., hostmaster.			
Isolation Second Logs	📗 🔚 (same as parent folder)	Name Server (NS)	srv.			
Forward Lookup Zones						
Reverse Lookup U	Jpdate Server Data File					
D Trust Points R	Reload					
Conditional Forv N	New Host (A or AAAA)					
N	New Alias (CNAME)					
N	New Mail Exchanger (MX)					
N	New Domain					
N	New Delegation					
	Other New Records					
D	DNSSEC +					
A	All Tasks 🕨					
V	/iew 🕨					
D	Delete					
R	Refresh					
E	xport List					
P	Properties		1			
Send command to server to	Help	1 .				1

**B22.** Tại cửa sổ New Host, Name: PC01, IP address:  $192.168.1.100 \rightarrow$  Click tại Create associated pointer (PTR) record. (để máy tự động tạo bản ghi PTR)  $\rightarrow$  Add Host  $\rightarrow$  OK

◆ ≞	DNS Manager	– 🗆 X
File Action View Help		
🗢 🔿 🖄 📰 🗙 🖻 🗟 🗟		
BDNS BSRV ▶  BGlobal Logs	New Host X	a srv., hostmaster.
<ul> <li>▲ ■ Forward Lookup Zones</li> <li>ⓐ 23th02.vnpro</li> <li>▷ ■ Reverse Lookup Zones</li> <li>▷ ■ Trust Points</li> <li>▷ ■ Sonditional Forwarders</li> </ul>	PC01         Fully qualified domain name (FQDN):         PC01.23th02.vnpro.         IP address:         192.168.1.100         I of Create associated pointer (PTR) record	

B23. Tiếp tục tạo bản ghi host A cho máy PC02



New Host X
Name (uses parent domain name if blank):
PC02
Fully qualified domain name (FQDN):
PC02.23th02.vnpro.
IP address:
192.168.1.101
✓ Create associated pointer (PTR) record
Add Host Done

## B24. Tạo mới bản ghi CNAME

å	DNS	Manager		_ 🗆 X
File Action View Help				
🗢 🔿 🔁 📰 🗶 🖻 🍳 🖶	? 🖬 🗎 🗐 🖬			
DNS SRV SRV SIGODAL LOGS Convert Lookup Zones Convert Lookup Zones Condition New Host New Alias New Mail New Dom New Dele Other Nei DNSSEC All Tasks View Delete	Name Name Same as parent folder) Same as pare	Type Start of Authority (SOA) Name Server (NS) Host (A) Host (A)	Data [1], srv., hostmaster. srv. 192.168.1.100 192.168.1.101	
Refresh Export Lis	t			
Create a new alias res	5			

**B25.** Tại màn hình New Resource Record → nhập vào mục Alias: www, mục FQDN: chọn đến PC01.23th02.vnpro → OK

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Alize (C			source nee		L	
	NIAME)		Province		X	
			stowse			
Look i	n: 👔	23th02.vnpro		Ý	• 🞽	
Recor	ds:					,
Nam	ie 201	Type Host (A)	Data	Timestan	ιp	
	2C02	Host (A)	192.168.1.			
Solari	tion	PC01 23tb02	Vooro			
Deser	JON.		(i la			1
Recor	u types:	Hosts and Alla	ases (A and Ch	IAME Records)	*	
				ОК	Cancel	
				ОК	Cancel	
<i>i</i> 2		Now Por	ourco Po	cord		
Ŭ.		THEM INC.	source ne	cord		
lias (CNAI	ME)					
Alias nam	e (uses pa	rent domain if	f left blank):			
www						
	ifeed dome	in name (FOD	N):			
Fully qual	ineu uoma					
Fully qual	th02.vnpr	0.				
Fully qual www.23 Fully qual	th02.vnpr	o. in name (FQD	N) for target	host:		
Fully qual www.23 Fully qual PC01.23	ified doma	o. in name (FQD	N) for target	host:	Browse	
Fully qual www.23 Fully qual PC01.23	ified doma	o. in name (FQD o	N) for target	host:	Browse	
Fully qual www.23 Fully qual PC01.23	ified doma ified doma 3th02.vnpr	o. in name (FQD	N) for target	host:	Browse	
Fully qual www.23 Fully qual PC01.23	ified doma th02.vnpr	o. in name (FQD	N) for target	host:	Browse	
Fully qual www.23 Fully qual PC01.23	ified doma ified doma 3th02.vnpr	o. in name (FQD o	N) for target	host:	Browse	
Fully qual www.23 Fully qual PC01.23	ified doma ified doma 3th02.vnpr	o. in name (FQD o	N) for target	host:	Browse	
Fully qual www.23 Fully qual PC01.23	ified doma ified doma 3th02.vnpr	o. in name (FQD o	N) for target	host:	Browse	
Fully qual www.23 Fully qual PC01.23	iffed doma iffed doma 3th02.vnpr	o. in name (FQD o	N) for target	host:	Browse	
Fully qual www.23 Fully qual PC01.23	iffed doma iffed doma 3th02.vnpr	o. in name (FQD o	N) for target	host:	Browse	
Fully qual www.23 Fully qual PC01.23	iffed doma iffed doma 3th02.vnpr	o. in name (FQD o	N) for target	host:	Browse	
Fully qual www.23 Fully qual PC01.23	ified doma ified doma 3th02.vnpr	o. in name (FQD o	N) for target	host:	Browse	

B26. Qua PC02, kiểm tra phân giải IP sang tên miền



```
C:\Users\user>nslookup 192.168.1.100
Server: srv.23th02.vnpro
Address: 192.168.1.100
Name: srv.23th02.vnpro
Address: 192.168.1.100
C:\Users\user>nslookup 192.168.1.101
Server: srv.23th02.vnpro
Address: 192.168.1.100
Name: pc02.23th02.vnpro
Address: 192.168.1.101
C:\Users\user>
```

Như vậy ta đã truy vấn được các máy trong mạng local nhưng khi truy vấn hay ping tới một tên miền bên ngoài thì không được

```
Command Prompt
C:\Users\user>nslookup 192.168.1.100
Server: PC01.23th02.vnpro
Address: 192.168.1.100
Name: PC01.23th02.vnpro
Address: 192.168.1.100
C:\Users\user>nslookup google.com
Server: PC01.23th02.vnpro
Address: 192.168.1.100
**** PC01.23th02.vnpro can't find google.com: Server failed
C:\Users\user>ping google.com
Ping request could not find host google.com. Please check the name and try again.
C:\Users\user>_
```

Để thực hiện phân giải tên miền các địa chỉ ở bên ngoài mạng LAN ta sẽ cài đặt DNS recursive

**B27.** Vào Server Manager  $\rightarrow$  Tools  $\rightarrow$  chọn vào dịch vụ DNS

B28. Chuột phải vào Server DNS → Chọn Properties

Administrator: Co	mmand Prompt		
🎄 DNS Manager		-	Х
File Action Vi	iew Help		
🗢 🔿 🔁 🗖			
	Name		
	Configure a DNS Server		
	New Zone		
	Set Aging/Scavenging for All Zones		
	Scavenge Stale Resource Records		
	Update Server Data Files		
	Clear Cache		
	Launch nslookup		
	All Tasks		
	View >		
	Delete		
	Refresh		
	Export List		
	Properties		
	Help		
Opens the propertie	es dialog box for the current selection.		

**B29.** Chọn Tab Advanced  $\rightarrow$  Tích vào ô Enable automatic scavenging of stale records để tự động xóa các bản ghi DNS không còn sử dụng

Debug Loggir	ng	Ever	nt Logging		Monitori	ing
Interfaces	Forv	varders	Advance	ed	Root	Hints
Server version n	umber:					
10.0 14393 <b>(</b> 0x	3839)					
Server options:						
Disable recurs	ion (also	disables fo	rwarders)			
Enable BIND s	econdario	25				
∐Fail on load if	bad zone	data				
∐Fail on load if ☑Enable round	bad zone robin	data				
∐Fail on load if ☑Enable round ☑Enable netma	bad zone robin sk orderin against p	data Ig				
□Fail on load if ■Enable round ■Enable netmation ■Secure cache	bad zone robin sk orderin against p	data ng vollution				
∐Fail on load if ☑Enable round ☑Enable netma ☑Secure cache Name checking:	bad zone robin sk orderir against p	data ng pollution	ltibyte (UTF8)	1		~
UFail on load if Enable round Enable netma Secure cache Vame checking:	bad zone robin sk orderin against p	data ng vollution Mu	litibyte (UTF8)			~
☐Fail on load if @Enable round @Enable netma @Secure cache Name checking: .oad zone data c	bad zone robin sk orderin against p on startup	data ng iollution Mu D: Fr	Iltibyte (UTF8) om Active Dire	ctory a	nd registr	~ y ~
Fail on load if     Fail on load if     Fable round     Fable netma     Secure cache     Jame checking:     .oad zone data c     Fable autom	bad zone robin sk orderin against p on startup atic scave	data ng iollution Mu o: Fri enging of s	iltibyte (UTF8) om Active Dire tale records	ctory a	nd registr	~ y ~
Fail on load if Fail on load round fail on	bad zone robin sk orderin against p on startup atic scave eriod:	data ng iollution Mu p: Fr enging of s	litibyte (UTF8) om Active Dire tale records	ctory a	nd registr	→ y →
☐Fail on load if ☑Enable round ☑Enable netma ☑Secure cache Name checking: .oad zone data c ☑Enable autom Scavenging p	bad zone robin sk orderin against p on startup atic scave eriod:	data Ig Iollution ML D: Fr enging of s 7	litibyte (UTF8) om Active Dire tale records	ctory a days	nd registr	→ y → ~
☐ Fail on load if ØEnable round ØEnable netma ØSecure cache Name checking: .oad zone data c ØEnable autom Scavenging p	bad zone robin sk orderin against p on startup atic scave eriod:	data Ig iollution Mu enging of s 7	iltibyte (UTF8) om Active Dire tale records	ctory a days Res	nd registr	y v ault

**B30**. Chọn Tab Forwarders  $\rightarrow$  Edit  $\rightarrow$  Nhập địa chỉ DNS Google  $\rightarrow$  OK

Website: www.vnpro.vn | Forum: www.vnpro.org | Video: https://www.youtube.com/c/VnProTrungTamTinHoc



Edit Forwarders			х
IP addresses of forwarding	servers:		
IP Address	Server FQDN	Validated	Delete
Click here to add an IP / 8.8.8.8 8.8.4.4	Address or DNS Name> dns.google <unable resolve="" to=""></unable>	ок ок	Up D <u>o</u> wn
			6
Number of seconds before The server FQDN will not b configured.	forward queries time out: [ e available if the appropriate	3 reverse lookup zones and ent	 ries are not
		ОК	Cancel

**B31**. Chọn Tab Root Hints  $\rightarrow$  Remove các Root Server mặc định

lame servers:				
Server Fully Qu	ualified Domain Name	(FQDN)	IP Address	^
A.ROOT-SERV	ERS.NET.		[198.41.0.4	] [20
B.ROOT-SERVE	ERS.NET.		[192.228.79	.201.
C.ROOT-SERV	ERS.NET.		[192.33.4.1	2] [2
D.ROOT-SERVI	ERS.NET.		[199.7.91.1	3] [2
E.ROOT-SERVE	ERS.NET.		[192.203.23	0.10]
F.ROOT-SERVE	ERS.NET.		[192.5.5.24	1] [2
G.ROOT-SERV	ERS.NET.		[192.112.36	.4]
H.ROOT-SERVI	ERS.NET.		[198.97.190	.53] . 🗸
<				>
Add	Edit	Remove	Copy from	n Server

### **B32**. Chọn Apply $\rightarrow$ OK

B33. Mở CMD → Nhập lệnh net stop dns && net start dns để khởi động lại dịch vụ DNS

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Administrator: Command Prompt

```
C:\Users\Administrator≻net stop dns && net start dns
The DNS Server service is stopping.
The DNS Server service was stopped successfully.
The DNS Server service is starting.
The DNS Server service was started successfully.
C:\Users\Administrator≻_
```

**B34**. Qua PC02 Kiểm tra

```
Command Prompt
 ing request could not find host google.com. Please check the name and try again.
C:\Users\user>nslookup google.com
Server: PC01.23th02.vnpro
Address: 192.168.1.100
Non-authoritative answer:
Name: google.com
Addresses: 2404:6800:4005:81b::200e
          172.217.27.46
C:\Users\user>ping google.com
Pinging google.com [172.217.27.46] with 32 bytes of data:
Reply from 172.217.27.46: bytes=32 time=29ms TTL=56
Reply from 172.217.27.46: bytes=32 time=28ms TTL=56
Reply from 172.217.27.46: bytes=32 time=29ms TTL=56
Reply from 172.217.27.46: bytes=32 time=29ms TTL=56
Ping statistics for 172.217.27.46:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 28ms, Maximum = 29ms, Average = 28ms
                                                                     C:\Users\user>ping facebook.com
Pinging facebook.com [157.240.199.35] with 32 bytes of data:
Reply from 157.240.199.35: bytes=32 time=27ms TTL=53
Reply from 157.240.199.35: bytes=32 time=28ms TTL=53
```