# MODUL PRAKTIKUM 03 VIRTUALIZATION, DHCP, DNS

## TUJUAN

Setelah praktikum dilaksanakan, peserta praktikum diharapkan memiliki kemampuan

- 1. Membuat dan melakukan konfigurasi pada mesin virtual dengan menggunakan VirtualBox
- 2. Melakukan instalasi dan konfigurasi DHCP Server pada Windows Server 2008
- 3. Melakukan instalasi dan konfigurasi DNS Server pada Windows Server 2008

#### PERANGKAT

Perangkat yang digunakan untuk praktikum adalah sbb :

- 1. VirtualBox
- 2. CD Linux Ubuntu 8.10
- 3. Windows Server 2008
- 4. Kabel UTP Straight atau Cross
- 5. Switch

#### **PROSEDUR PRAKTIKUM**

- 1. Membuat mesin virtual dengan VirtualBox
  - a. Jalankan program VirtualBox
    - i. Mesin yang akan dibuat pada VirtualBox (Guest OS) adalah Ubuntu 8.10 LiveCD dengan menggunakan instalasi melalui CD
    - ii. Mesin yang menjalankan VirtualBox (Host OS) adalah Windows XP
    - iii. Berikut topologi yang akan dibuat



b. Buat Guest OS dengan menekan tombol New atau dari menu Machine---New...



c. Ikuti Wizard pembuatan Guest OS



S Create New Virtual Machine			5 ×	Gereate New Virtual	Machine	8	x
Memory				Virtual Hard Dis	sk		
Select the virtual ma The recon	e amount of base memory (RAM) in meg achine. mmended base memory size is <b>384</b> MB.	gabytes to be allo	ocated to the		Select a hard disk image to be used as the boo You can either create a new hard disk using th hard disk image from the drop-down list or by p invoke the Virtual Media Manager dialoo).	hard disk of the virtual machi <b>New</b> button or select an exis ressing the <b>Existing</b> button (	nine. isting (to
Base Me	lemory Size				If you need a more complicated hard disk setu	, you can also skip this step a	and
Sin 4MB		4096	384 MB MB	Sup	The recommended size of the boot hard disk is	alog. <b>8192</b> MB.	
					Boot Hard Disk (Primary Master)		
					<ul> <li><u>Create new hard disk</u></li> <li><u>Use existing hard disk</u></li> </ul>		
1001					BackTrack.vdi (Normal, 1.00 GB)	•	2
SAAP -				RAAP			
	< <u>B</u> ack	<u>N</u> ext >	Cancel		< Back	Next > Can	ncel
Create New Virtual Disk			? ×	Create New Virtual	Disk	8	×
Welcome to the Create	New Virtual Disk Wizard	1		Hard Disk Stora	аде Туре		
This wizar	rd will help you to create a new virtual h	hard disk for you	r virtual machine.		Select the type of virtual hard disk you want to	create.	
Use the N return to	Next button to go to the next page of t the previous page.	the wizard and th	ne <b>Back</b> button to		A <b>dynamically expanding storage</b> initially space on your physical hard disk. It will grow d	occupies a very small amount mamically (up to the size spec	t of cified)
					as the Guest OS daims disk space. A <b>fixed-size storage</b> does not grow. It is st	red in a file of approximately	r the
					same size as the size of the virtual hard disk. T may take a long time depending on the storage your barddick	ne creation of a fixed-size stor size and the write performan	orage nce of
					Storage Type		
					Dynamically expanding storage     Eixed-size storage		
				(2)			
	<u></u> ack	<u>N</u> ext >	Cancel		< <u>B</u> ack		icel
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S Create New Virtual Disk	and Size	fa fila ta atara ti		Create New Virtual Summary	Disk	ith the following according	<b>X</b>
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- d. Setting Guest OS yang baru dibuat
  - i. Pilih mesin yang akan dijalankan dan tekan tombol Settings



ii. Masukkan CD Ubuntu 8.10 serta atur agar Host Drive pada Storage agar diarahkan pada physical CD/DVD Drive

General	gs Storage	
<ul> <li>System</li> <li>Display</li> <li>Storage</li> <li>Audio</li> <li>Network</li> <li>Serial Ports</li> <li>USB</li> <li>Shared Folders</li> </ul>	Storage Tree	Attributes Slot: IDE Secondary Master  CD/DVD Device: Host Drive 'E:' Passtbrough Information Size: Location: Attached To:
	Select a settings category from the list on l item to get more information.	the left-hand side and move the mouse over a settings           OK         Cancel         Help

iii. Atur Network Adapter 1 agar terarah pada Host-only Adapter supaya Guest OS dapat berkomunikasi langsung dengan Host OS

General	Network
System Display Storage Audio Network Serial Ports USB Shared Folders	Adapter 1       Adapter 2       Adapter 3       Adapter 4
	Select a settings category from the list on the left-hand side and move the mouse over a settings item to get more information.

- iv. 5 mode pada Network Adapter : (sumber : Sun VirtualBox Help)
  - 1. Not attached

In this mode, VirtualBox reports to the guest that a network card is present, but that there is no connection -- as if no Ethernet cable was plugged into the card. This way it is possible to "pull" the virtual Ethernet cable and disrupt the connection, which can be useful to inform a guest operating system that no network connection is available and enforce a reconfiguration.

- Network Address Translation (NAT) If all you want is to browse the Web, download files and view e-mail inside the guest, then this default mode should be sufficient for you, and you can safely skip the rest of this section. Please note that the ping utility does not work over NAT, and that there are certain limitations when using Windows file sharing
- 3. Bridged networking This is for more advanced networking needs such as network simulations and running servers in a guest. When enabled, VirtualBox sets up an additional, software-based network interface on the host to which the virtual machine is connected.
- 4. Internal networking This can be used to create a different kind of software-based network which is visible to selected virtual machines, but not to applications running on the host or to the outside world.
- 5. Host-only networking

This can be used to create a network containing the host and a set of virtual machines, without the need for the host's physical network interface. Instead, a virtual network interface (similar to a loopback interface) is created on the host, providing connectivity among virtual machines and the host.

v. Jalankan Guest OS



- vi. Tunggu sampai Guest OS masuk ke Desktop dan mulai lakukan pengaturan IP Address - Gunakan Right-Ctrl untuk mengalihkan fokus antara Host OS dan Guest OS
  - Gunakan Right-Ctrl + F untuk ON/OFF tampilan full-screen Guest OS



vii. Konfigurasi IP Address pada VirtualBox Host-Only Network di Host OS (Windows XP) agar bisa tersambung dengan Guest OS



viii. Uji sambungan Host OS dan Guest OS dengan perintah ping

- 2. Melakukan instalasi dan konfigurasi DHCP Server pada Windows Server 2008
  - a. Berikut topologi yang akan dibuat



- b. Jalankan Windows Server 2008 pada VirtualBox (atur Network Adapter pada VirtualBox Setting agar terarah pada Bridged Adapter)
- c. Pasang IP Address pada Windows Server 2008

Internet Protocol Version 4 (TCP/IF	v4) Proparties	? X
General	45	
You can get IP settings assigned auto this capability. Otherwise, you need t for the appropriate IP settings.	matically if your network suppor to ask your network administrate	rts or
C Obtain an IP address automatic	ally	
• Use the following IP address:		
IP address:	192 . 168 . 1 . 1	
S <u>u</u> bnet mask:	255 . 255 . 255 . 0	
Default gateway:		
C Obtain DNS server address auto	omatically	
Use the following DNS server ad	dresses:	
Preferred DNS server:	· · ·	
<u>A</u> lternate DNS server:		
	Ad <u>v</u> anced.	
	OK Car	ncel

		0	
Recycle Bin			
Server Manager Command Prompt Windows Update Co Internet Explorer Notepad	Administrator Documents Computer Network Control Panel Administrative Tools Help and Support Run		
Start Search	○ ▲ ▶		
27 Start			🗍 🛃 🕕 4:07 PM

d. Instalasi DHCP Server melalui Server Manager

e. Tambahkan peran Server agar menjadi DHCP Server



### f. Ikuti Wizard instalasi DHCP Server

Add Roles Wizard		×
Before You Begi	n	48
Before You Begin Server Roles	This wizard helps you install roles on this server. You determine want this server to perform, such as sharing documents or hosti	which roles to install based on the tasks you ng a Web site.
Confirmation	Before you continue, verify that:	
Progress Results	The Administrator account has a strong password     Network settings, such as static IP addresses, are configured     The latest security updates from Windows Update are installed	i
	If you have to complete any of the preceding steps, cancel the wizard again.	wizard, complete the steps, and then run the
	To continue, click Next.	
	Skip this page by default	
	< <u>P</u> revious	Next > Install Cancel
Add Roles Wizard		×
Select Server Ro	les	
Before You Begin Server Roles	Select one or more roles to install on this server. Roles:	Description:
DHCP Server Network Connection Bindings IPv4 DNS Settings	Active Directory Certificate Services     Active Directory Domain Services     Active Directory Federation Services     Active Directory Lightweight Directory Services	Dynamic Host Configuration Protocol (DHCP) Server enables you to centrally configure, manage, and provide temporary IP addresses and related information for client

Select Server Roles

Server Roles

DHCP Server

Network Connection Bindings

N=V4 DNIS Settings

DHCP Scopes

DHCP Stateless Mode

Progress

Results

Metwork Policy and Services

DHCP Server

Network Connection Bindings

DHCP Scopes

DHCP Stateless Mode

DHCP Server

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DHCP Scopes

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Add Roles Wizard	×
	20 - 0 - W
Specify IPv4 DN	S Server Settings
Before You Begin Server Roles DHCP Server Network Connection Bindings IPv4 DNS Settings IPv4 WINS Settings	When clients obtain an IP address from the DHCP server, they can be given DHCP options such as the IP addresses of DNS servers and the parent domain name. The settings you provide here will be applied to clients using IPv4. Specify the name of the parent domain that clients will use for name resolution. This domain will be used for all scopes you create on this DHCP server. Parent Domain: Latkme com
DHCP Scopes DHCPv6 Stateless Mode IPv6 DNS Settings Confirmation Progress Results	Specify the IP addresses of the DNS servers that clients will use for name resolution. These DNS servers will be used for all scopes you create on this DHCP server. Preferred DNS Server IPv4 Address: I92.168.1.2 Validate
	Alternate DNS Server IPv4 Address: Validate
	< Previous Next > Install Cancel
Add Roles Wizard	×
Specify IPv4 WI	INS Server Settings
Before You Begin Server Roles	When clients obtain an IP address from the DHCP server, they can be given DHCP options such as the IP addresses of WINS servers. The settings you provide here will be applied to clients using IPv4.
DHCP Server Network Connection Bindings	WINS is not required for applications on this network
IPv4 DNS Settings IPv4 WINS Settings DHCP Scopes DHCPv6 Stateless Mode IPv6 DNS Settings Confirmation Progress Results	WINS is required for applications on this network Specify the IP addresses of the WINS servers that dients will use for name resolution. These WINS servers Preferred WINS Server IP Address: Alternate WINS Server IP Address: More about WINS server settings
	CHICANUS INCKLOS BIOLON CONCEN







g. Pengaturan DHCP Server lebih lanjut dapat dilakukan melalui **Control Panel --- Administrative Tools --- DHCP** 



LO DHCP	N		_O×
<u>Eile Action View H</u> elp	N		
🗢 🔿 🖄 📅 🙆 🗟 🖥	≣   <del>×</del>		
	Address Pool		
	Start IP Address	End IP Address	Description
(i) IPV     (ii) Address Pool     (iii) Address Pool     (iii) Address Leases     (iii) Reservations     (iii) Scope Options     (iii) Server Options     (iii) IPV6	192. 168. 1. 100	192, 168, 1, 200	Address range for distrib
<u> </u>	<b>▲</b>		

3. Melakukan instalasi dan konfigurasi DNS Server pada Windows Server 2008

- a. Instalasi DNS Server melalui Server Manager (langkah detail sama dengan instalasi DHCP Server)
- b. Pengaturan DHCP Server lebih lanjut dapat dilakukan melalui **Control Panel --- Administrative Tools --- DNS**



c. Buat Zone baru melalui Forward Lookup Zones --- New Zone ...



d. Ikuti New Zone Wizard



<ul> <li>Type The DNS server supports various types of</li> <li>Select the type of zone you want to create</li> <li>Primary zone Creates a copy of a zone that can be u</li> <li>Secondary zone Creates a copy of a zone that exists or the processing load of primary servers</li> </ul>	zones and storage. :: pdated directly on this serve	er.
<ul> <li>Select the type of zone you want to create</li> <li>Primary zone Creates a copy of a zone that can be u</li> <li>Secondary zone Creates a copy of a zone that exists or the processing load of primary servers</li> </ul>	pdated directly on this serve	er.
<ul> <li>Primary zone Creates a copy of a zone that can be u</li> <li>Secondary zone Creates a copy of a zone that exists or the processing load of primary servers</li> </ul>	pdated directly on this serve	er.
<ul> <li>Secondary zone</li> <li>Creates a copy of a zone that exists or the processing load of primary servers</li> </ul>		
	another server. This optior and provides fault tolerance	helps balance
Stub zone Creates a copy of a zone containing or (SOA), and possibly glue Host (A) recor authoritative for that zone.	ly Name Server (NS), Start ( ds. A server containing a st	of Authority ub zone is not
Store the zone in Active Directory (ava controller)	ilable only if DNS server is a	writeable domain
	< Back Next >	Cance
one Wizard		_
<b>What is the name of the new zone?</b>		TH ANNOL
The zone name specifies the portion of the authoritative. It might be your organization or a portion of the domain name (for exame not the name of the DNS server.	DNS namespace for which t n's domain name (for exampl ple, newzone.microsoft.com	his server is e, microsoft.com ). The zone name
Zone name:		-
jarkom.com		

20ne	Wizard
one Yo	File ou can create a new zone file or use a file copied from another DNS server.
Do fro	you want to create a new zone file or use an existing file that you have copied om another DNS server?
•	Create a new file with this file name:
L	jarkom.com.dns
C	Use this existing file:
	To use this existing file, ensure that it has been copied to the folder
	soystem coers system 2 pins on and servery and a chertext
	< <u>B</u> ack <u>N</u> ext > Cancel
Zon	e Wizard
<b>yna</b> Ye uj	mic Update ou can specify that this DNS zone accepts secure, nonsecure, or no dynamic pdates.
D' re	ynamic updates enable DNS client computers to register and dynamically update their source records with a DNS server whenever changes occur.
Se	elect the type of dynamic updates you want to allow:
C	Allow only secure dynamic updates (recommended for Active Directory) This option is available only for Active Directory-integrated zones.
0	<ul> <li>Allow only secure dynamic updates (recommended for Active Directory)</li> <li>This option is available only for Active Directory-integrated zones.</li> <li>Allow both nonsecure and secure dynamic updates</li> </ul>

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. < Back</td> Next >

New Zone Wizard		×
	Completing the New Zone Wiz	ard
	You have successfully completed the New Zone Wizard specified the following settings:	l. You 🔓
	Name: jarkom.com	
	Type: Standard Primary	
	Lookup type: Forward	
	×	
	Note: You should now add records to the zone or ensu that records are updated dynamically. You can then ve name resolution using nslookup.	re erify
	To close this wizard and create the new zone, click Fini	sh.
	< Back Finish	Cancel

e. Tambahkan Host Baru (A) dengan menu (klik kanan) pada layar Zone yang baru dibuat

🛔 DNS Manager					
File Action View Help					
듣 🐟   📶 🛅 🔂 😹 🛛					
DNS   WIN-LNJ97F0CNRV   Global Logs   Forward Lookup Zones   jarkom.com   Reverse Lookup Zones   Conditional Forwarders	Name (same as parent folde (same as parent folde	Type           r)         Start of Authority           r)         Start of Authority           r)         Name Server (NS           Update Server Data File         Reload           New Host (A or AAAA)         New Alias (CNAME)           New Mail Exchanger (MX)         New Domain           New Delegation         Other New Records           All Tasks         Refresh           Export List         View           Arrange Icons         Line un Icons	(SOA) ) •	Data [1], win-Inj97f0cnrv., hostm win-Inj97f0cnrv.	
	-	Properties Help	_		
	_	Properties Help	_		

🛔 DNS Manager				
File Action View Help				
DNS DNS Global Logs Forward Lookup Zones Sarkom.com Reverse Lookup Zones Conditional Forwarders	Name (same as parent folder) (same as parent folder) New Ho Name ( pc1 Fully q pc1.jz IP add 192.1	Type Start of Authority (SOA) Name Server (NS) st (uses parent domain name if blank): ualified domain name (FQDN): arkom.com. ress: 168.1.3 eate associated pointer (PTR) record	Data [1], win-Inj97f0cnrv., hostm win-Inj97f0cnrv.	
		Add <u>H</u> o	Cancel	

f. Uji penambahan Host Baru dengan perintah **nslookup** ataupun **ping** 

