

JOB SHEET PRACTICE

LEARNING ACTIVITIES:1

Software :

Virtual Machine: VMware Player/VMware Workstation/VirtualBox

OS : Linux Debian 10/9, KaliLinux, Windows XP

all applications can be downloaded at : <http://202.180.21.17/download/>

Hardware Minimal :

Processor : Laptop i5

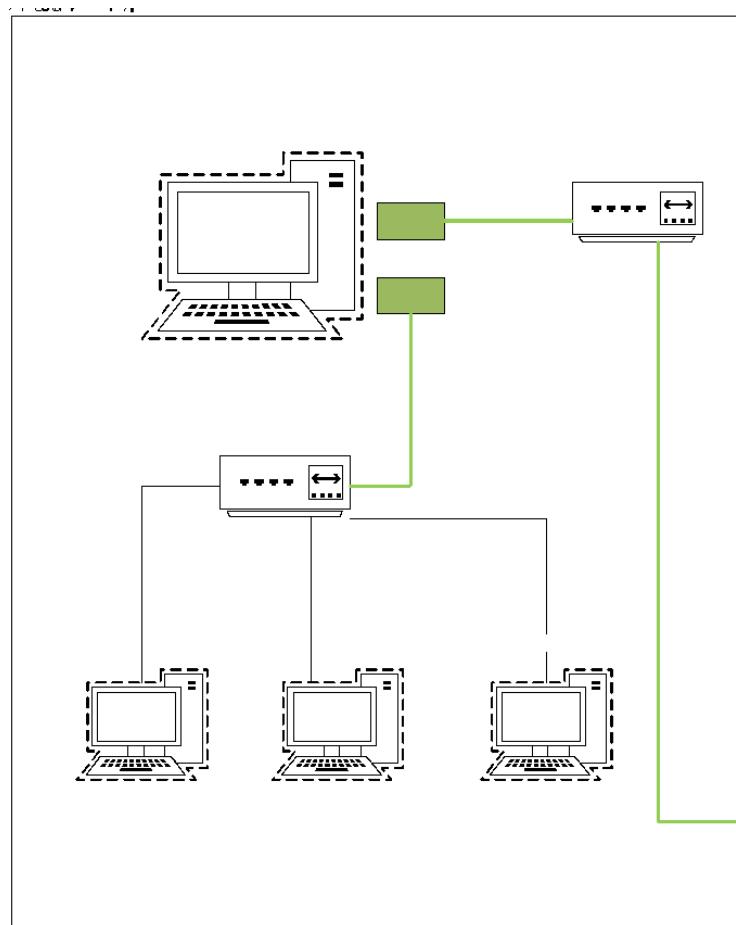
RAM : 4 GB

HOST OS : Windows 7

Internet

Work Steps

1. Install Virtual Machine
2. Create PC host, scheme :



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No	Steps	Information
1.	Install Debian	Version: 10 Codename : Buster
	Boot :	DVD/CD : ISO
	Type installation	<i>Install text</i>
	Instalasi language	<i>English</i>
	your location	<i>Other > Asia > Indonesia</i>
	keyboard	<i>American English.</i>
	Network	<i>Do not configure the network at this time</i>
	Hostname	<i>debian1</i>
	Root password	<i>root123 * case sensitive</i>
	Full name for new user	<i>guru tkj * case sensitive</i>
	Username for your account	<i>guru * case sensitive</i>
	Password new user	<i>guru123 * case sensitive</i>
	Time Zone	<i>based on your location exp : Jakarta</i>
	Partisi hardisk (partisi hardisk)	<i>Guide Partition. Sparate /home partition (recommend new users)</i>
	Configuration Packet manager. Scan Another CD or DVD	<i>No Survey : no</i>
	Software Selection	<i>1. Standar System Utility 2. ssh</i>
	install GRUB boot loader on Hardisk :	<i>Yes /dev/sda</i>
<i>configuration</i>		
2.	Login	<i>Root , password: root</i>
3.	show interfaces	<i>ls /sys/class/net</i>

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4.	Configure network .	<pre><code>nano /etc/network/interfaces #allow-hotplug ens33 auto ens33 iface ens33 inet static address 192.168.1.11 netmask 255.255.255.0 gateway 192.168.1.1 dns-nameservers 192.168.1.1 auto ens34 iface ens34 inet static address 192.168.100.254 netmask 255.255.255.0</code></pre> <hr/> <p><i>Note: all ip address adapted with your condition network.</i></p> <p><i>The configuration above is just an example</i></p>
5.	Check	<code>ip addr</code>
6.	Repository file	<pre><code>nano /etc/apt/sources.list Deactive all repository with # add configure below : deb http://kartolo.sby.datautama.net.id/debian/ buster main contrib non-free deb http://kartolo.sby.datautama.net.id/debian/ buster-updates main contrib non-free deb http://kartolo.sby.datautama.net.id/debian-security/ buster/updates main contrib non-free</code></pre>
7.	Update debian	<code>apt-get update</code>
8.	Install ifconfig	<code>apt-get install net-tools</code>
9.	Install iptables	<code>apt-get install iptables-persistent apt-get install netfilter-persistent</code>

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10.	Router Configuration	<code>nano /etc/sysctl.conf</code>
11.		<i>Change line : net.ipv4.ip_forward=0 to net.ipv4.ip_forward=1</i>
12.		<code>nano /proc/sys/net/ipv4/ip_forward</code>
13.		<i>Change 0 To 1</i>
14.	Iptables command	<code>iptables -t nat -A POSTROUTING -o ens33 -j MASQUERADE</code>
15.	Save iptable	<code>iptables-save</code> <i>or</i> <code>netfilter-persistent save</code>
16.	Show location iptables save	<code>nano /etc/iptables/rules.v4</code>
17.	Install Debian 10 Confifuration	<i>PC Guest 2 : server, do as steps 1</i>
18.	Login	<i>Root , password: root</i>
19.	show interfaces	<code>ls /sys/class/net</code>
20.	Configure network file	<code>nano /etc/network/interfaces</code> <code>#allow-hotplug ens33</code> <code>auto ens33</code> <code>iface ens33 inet static</code> <code>address 192.168.100.1</code> <code>netmask 255.255.255.0</code> <code>gateway 192.168.100.254</code> <code>dns-nameservers 192.168.1.1</code> <hr/> <i>Ctr x</i> <i>Save : Y</i> <hr/> <p>Note: all ip address adapted with your condition network.</p> <p>The configuration above is just an example</p>
21.	Check	<code>ip addr</code>
22.	Repository file	<code>nano /etc/apt/sources.list</code> <code>Deactive all repository with #</code> <code>add configure below :</code> <code>deb http://kartolo.sby.dataautama.net.id/debian/</code> <code>buster main contrib non-free</code>

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		<i>deb http://kartolo.sby.datautama.net.id/debian/ buster-updates main contrib non-free</i> <i>deb http://kartolo.sby.datautama.net.id/debian-security/ buster/updates main contrib non-free</i>
23.	Update debian	<i>apt-get update</i>
24.	Install ifconfig	<i>ipip</i>
25.	Install http	<i>apt-get install apache2 * configuration and testing later</i>
26.	Install FTP	<i>apt-get install proftpd * configuration and testing later</i>
27.	Install Windows XP/windows 7	<i>PC Guest 3 : client,</i>
28.	Boot	<i>DVD/CD : ISO</i>
	Computer Name	<i>Client XP</i>
	Partition	<i>NTFS single partition, drive C:</i>
	Username	<i>Client</i>
	Password	<i>Admin</i>
	Ip address	<i>192.168.100.2 netmask 255.255.255.0 Gateway : 192.168.100.254 Dns : 192.168.1.1 (sesuaikan dengan internet dns , bisa dengan 8.8.8.8)</i> <i>Note: all ip address adapted with your condition network. The configuration above is just an example</i>
29.	Install 10 Kalilinux	<i>PC Guest 3 : testing NMAP, do as steps 1</i>
	Configuration	
30.	Login	<i>Root , password: root</i>
	show interfaces	<i>ls /sys/class/net</i>
	Configure network file	<i>nano /etc/network/interfaces</i>
	<i>Note: all ip address adapted with your condition network. The configuration above is just an example</i>	<i>#allow-hotplug ens33 auto ens33 iface ens33 inet static address 192.168.100.3 netmask 255.255.255.0 gateway 192.168.100.254 dns-nameservers 192.168.1.1</i>
31.	Testing NMAP and capture screen your results	<i>nmap -sP 192.168.100.1-254</i>

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	All testing adapted with your ip address condition	nmap -sS -A -O 192.168.100.254 nmap -sS -A -O 192.168.100.1 nmap -sS -A -O 192.168.100.2
32.	Paste capture screen in tables belows	Table 2
33.	Upload this file	LMS your account

Tabel 2 your result

No	Nmap	explanation	capture screen
1	nmap -sP 192.168.100.1-254		
2	nmap -sS -A -O 192.168.100.254 nmap -sS -A -O 192.168.100.1 nmap -sS -A -O 192.168.100.2		

**Note change with your ip address condition

