

# JOB SHEET PRACTICE

## LEARNING ACTIVITIES:4

Software :

1. iptables
2. apache
3. ssh
4. proftpd

Tabel :1

No	Steps	Information
1.	Login to serverdebian	Root , password: root
2.	Configuration web server content	Nano /var/www/html <pre> &lt;html&gt; &lt;head&gt;   &lt;title&gt;     default web classroom networking  &lt;/title&gt;   &lt;/head&gt;   &lt;body&gt;     &lt;h1&gt; welcome to classroom network&lt;/h1&gt;   &lt;/body&gt; &lt;/html&gt; </pre>
3.	Check web server from pc host (write results in table 2 )	<a href="http://11.X.Y.1">http://11.X.Y.1</a> Note: all ip address adapted with your condition network. The configuration above is just an example
4.	Check service router from pc host (write results in table 2 )	<a href="http://192.168.1.11">http://192.168.1.11</a> Note: all ip address adapted with your condition network. The configuration above is just an example
5.	Login to router debian	Root , password: root
6.	Configuration IPTABLES DMZ (HTTP server)	<pre> iptables -A INPUT -p tcp -m multiport -d 192.168.1.11 --dport 80 -j ACCEPT iptables -A FORWARD -p tcp -m multiport -d 11.X.Y.1 --dport 80 -j ACCEPT iptables -t nat -A PREROUTING -p tcp -m multiport -d 192.168.1.11 --dport 80 -j DNAT --to 11.X.Y.1:80 </pre>
7.	Check service router from pc host (write results in table 2 )	<a href="http://192.168.1.11">http://192.168.1.11</a> Note: all ip address adapted with your condition network. The configuration above is just an example

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8.	Configuration IPTABLES DMZ (SSH)	iptables -A INPUT -p tcp -m multiport -d 192.168.1.11 --dport 22 -j ACCEPT
		iptables -A FORWARD -p tcp -m multiport -d 11.X.Y.1 --dport 22 -j ACCEPT
		iptables -t nat -A PREROUTING -p tcp -m multiport -d 192.168.1.11 --dport 222 -j DNAT --to 11.X.Y.1:22
9.	Check ssh 1 (write results in table 2 )	check using putty on port 22
		Check ip using ifconfig or ip addr
10.	Check ssh 2 (write results in table 2 )	check using putty on port 222
		Check ip using ifconfig or ip addr
11.	Show iptables	Iptables -nvL
12.	Save iptables	iptables-save
		netfilter-persistent save
13.	Install FTP server (server debian) (write results in table 2 )	whatever you now .....
14.	Configuration IPTABLES DMZ (FTP server) (write results in table 2 )	whatever you now .....
15.	Install FTP	apt-get install vsftpd
16.		nano /etc/vsftpd.conf cari baris dengan ctrl + w  <i>#write_enable=YES</i> <b>Ubah jadi</b> <i>write_enable=YES</i>  <i>#chroot_local_user=YES</i> <b>Ubah jadi</b> <i>chroot_local_user=YES</i>  <i>#chroot_list_enable=YES</i> <b>Ubah jadi</b> <i>chroot_list_enable=YES</i>  <i>#chroot_list_file=/etc/vsftpd.chroot_list</i> <b>Ubah jadi</b> <i>chroot_list_file=/etc/vsftpd.chroot_list</i>  ssl_enable=NO (tetap tidak usah dirubahh), jika default ada tanda # dibuang  <b>User yang boleh ftp :</b>  echo guru >> /etc/vsftpd.chroot_list




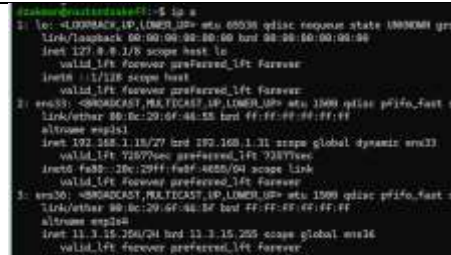

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No	Steps	Information
17.	Iptables DMZ untuk FTP	<code>iptables -A INPUT -p tcp -m multiport -d 192.168.1.11 --dport 21 -j ACCEPT</code>
18.		<code>iptables -A FORWARD -p tcp -m multiport -d 11.X.Y.1 --dport 21 -j ACCEPT</code>
19.		<code>iptables -t nat -A PREROUTING -p tcp -m multiport -d 192.168.1.11 --dport 21 -j DNAT --to 11.X.Y.1:21</code>

Upload this file to LMS after completed with name

Tabel 2

No	testing	steps	Result	Cature screen (minimize pic)
1.	web server from pc host	<a href="http://11.X.Y.1">http://11.X.Y.1</a>	Disini membuka http dengan menggunakan ip server tidak berhasil karena pc host tidak berada di dalam jaringan web server	
2.	Check service router from pc host	<a href="http://192.168.1.11">http://192.168.1.11</a>	Berhasil membuka web Debian server dengan menggunakan ip internet Debian router	
3.	Check ssh 1	check using putty on port 22	Berhasil ssh ke Debian router menggunakan port 22	
		Check ip using ifconfig or ip addr	IP Debian router Ens33 = bridge Ens36 = LAN Segment	
4.	Check ssh 1	check using putty on port 222	Berhasil ssh ke Debian server dengan meneruskan port 222 ke port 22 debian server	

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		Check ip using ifconfig or ip addr	IP Debian server Ens33 = LAN Segment	<pre> dialuang@server00k:~\$ ip a 1: lo: &lt;LOOPBACK,UP,LOWER_UP&gt; mtu 65536 qdisc noqueue state     link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00     inet 127.0.0.1/8 scope host lo         valid_lft forever preferred_lft forever     inet6 ::1/128 scope host noprefixroute         valid_lft forever preferred_lft forever 2: ens33: &lt;BROADCAST,MULTICAST,UP,LOWER_UP&gt; mtu 1500 qdisc     link/ether 00:0c:29:c8:76:84 brd ff:ff:ff:ff:ff:ff     altname ssp2s1     inet 11.3.15.1/24 brd 11.3.15.255 scope global ens33         valid_lft forever preferred_lft forever     inet6 fe80::20c:29ff:fec8:7684/64 scope link         valid_lft forever preferred_lft forever </pre>
5.	Check FTP		Berhsail memanggik ftp Debian server dengan meneruskan port 21 dari IP internet menuju port 11.3.15.1:21	