### Lembar Kerja Peserta Didik

Nama : Muhamad Dzakwan Ar Efendi

Nis : 12209161 Kelas : TJKT XI-1

Judul Materi : DHCP Server

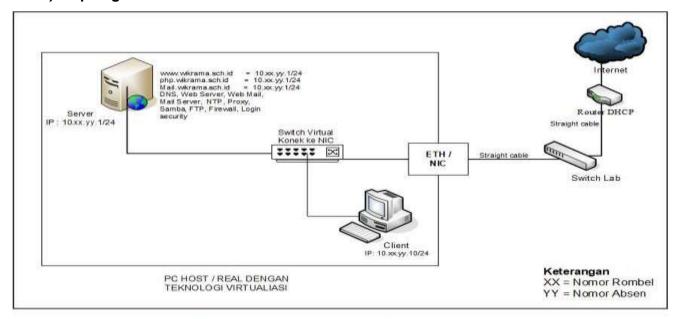
**NILAI** 

#### Kegiatan 1:

#### a) Petunjuk Kerja:

- Menyiapkan Software aplikasi pendukung
- Menyiapkan Laptop / PC
- Menyiapkan Koneksi Internet
- Menyiapkan peralatan Praktek
- Menyiapkan Modul Panduan kerja Jobsheet Konfigurasi DHCP Server

#### b) Topologi



DESAIN LKPD ADMINISTRASI SISTEM JARINGAN 2022

# Buatlah Konfigurasi DHCP Server pada Sisi Linux Server

#### Pra-Install

Berdasarkan topologi diatas terdiri dari 1 VM Server Linux dan 1 PC/Laptop CLient yang sudah terinstal pada aplikasi virtualbox atau vmware workstation

Keterangan

xx: Nomor Rombel

yy: Nomor Absen

1. Create VM

VM Name : Server\_Nama Siswa

Memory : 512 MB

Sistem Operasi : Linux – Debian 11 (Virtual) Net Adapter : Bridge and LAN Segment

IP Address : DHCP Client & static 10.xx.yy.1/24

Domain : <u>namakalian.net</u>

2. PC/Laptop (Client)

Sistem Operasi : Windows / Linux Network Adapter : LAN Segment IP Address : DHCP-Client

Pastikan Pada Sisi Client mendapatkan Ip dari Server

## Langkah Kerja

1. Instalasi dan konfigurasi DHCP server

No	Konfigurasi	Hasil (Screenshot)	Keterangan
1	Berikan Ip addres sesuai Keterangan diatas	2: ens33: cBROADCAST,MULTICAST,UP,LOADR_LP) mtu 1500 qdisc en 1000 link/ether 00:00:23:23:03:88 brd ff:ff:ff:ff:ff:ff altrame emp2s1 inet 172.16.247.170/24 brd 172.16.247.255 scope global valid_lft 3595sac preferred_lft 3595sac inet6 fe00:200:291f:fc23:0398/64 scope lin valid_lft forever preferred_lft forever 3: ens36: cBROADCAST,MULTICAST,UP,LOMER_LP) mtu 1500 qdisc 00 link/ether 00:00:33:23:03:03 brd ff:ff:ff:ff:ff:ff: altrame emp2s4 inet 10.1.18.1/24 ord 10.1.18.255 scope global ens36 valid_lft forever preferred_lft forever inet5 fe80:200:291f:fe23:e932/64 scope lin. valid_lft forever preferred_lft forever root0srv-avan51:*/	IP telah di set Ens33: 172.16.247.170/24 (IP dari DHCP Server internet) Ens36: 10.1.18.1/24
2	Konfigurasi Repository	With the Control of t	Repo sudah ditambahkan menggunakan datautama surabaya

3	Install paket dhcpd	Description (ALCOHOLDS) of the companion of the content average stated with some content average content and the content average stated with some content average content and the content average and the content average cont	Isc-dhcp-server berhasil terpasang (hiraukan text merah)
4	Edit file dhcp.conf	e H siightiy different configuration for an internal mulmet.  subnet 10.1,18.0 netwask 255.255.255.0   rense 10.1,18.101 10.1,18.200;  option down-name-tervers nst_internal.example:  option down-name "internal.example.org";  option down-name "internal.example.org";  option broadcast-address 10.5,5.1;  default-lesse-line 500;  max-lesse-line 500;	Dhcp sudah di set menggunakan IP yang akan dibagikan
			10.1.18.1
			255.255.255.0
			10.1.18.101 – 10.1.18.200
5	Buat range IP untuk client	e A slightly different configuration for an internal magnet. subset 10.1.18.0 setwask 255.255.255.0 i range 10.1.18.101 10.1.18.200; aption domain-name-servers asi_internal.example: aption domain-name "internal.example.org";	Range sudah di set sesuai ketentuan
	10.xx.yy.101 sampai 10.xx.yy.200	<pre>option domain-mame "internal,exemple.org"; option routers 10.5.5.1; option broadcast-address 10.5.5.31; default-lesse-time 600; nux-lease-time 7200;</pre>	10.1.18.101 – 10.1.18.200
6	Edit file /default/isc-dhcp-server	pass to december (dispress by /occ/britis/sec-shockerver)  Pass to december the file (default) reconfractions conf).  Section 1000-2005 decembers to the file (default) reconfractions conf).  Seen to december Pin (lie (default) reconfractions conf).  Seen to december Pin (lie (default) reconfractions).  Seen to december to the file (default) reconfractions.  Seen to december to the file (default) reconfractions.  Seen the december of the file (default) reconfractions.  See the december of the file (default) reconfractions and the december of the file (default) reconfractions.  See the december of the file (default) reconfractions and the december of the file (default) reconfractions.  See the december of the file (default) reconfractions and the december of the file (default) reconfractions.  See the december of the file (default) reconfractions and the december of the file of the file (default) reconfractions.  See the file of the file (default) reconfractions and the december of the file of the file (default) reconfractions.	/default/isc-dhcp- server sudah di set ke ens36 yang menggunakan adapter LAN segment
7	Restart service DHCP	Protesry-manosise /wto/prit.d/isc-duce-server restart Restarting inc-duce-server (via systemati): inc-duce-server.service: root@sry-manosis <sup>18</sup> #	DHCP server berhasil di restart

No	Konfigurasi	Hasil (Screenshot)	Keterangan
1	Tampilkan hasil Ip address yang didapat dari server	Ethernet infugter Local free Connection:  Connection-specific DMS Enffire: : interval.commule.org [fine-local live Address : : fe88::3467:8572:de70:e636cit [Fod Shifters : : 19,1.19.181 Cobnet Hark : : 1255.255.8  Default Garrony : : : 181.1.18.1	IP berhasil di dapat dari DHCP server debian
2	Ping dari Client ke IP Server	C:\Uners\Drakeff)ping 18.1.18.1  Pinging 18.1.18.1 with 32 bytes of data: Skeply from 18.1.18.11 bytes-32 time(ine IIL-64  Reply from 18.1.18.1: bytes-32 time(ine IIL-64  Pring statistics for 18.1.18.1:  Perhots! Sent = 4. Bucskydd = 4. Last = 8 (%c lass),  Ryprovincte round trip times in milli-seconds:  Minimum = She, Maximum = Ber, Serrage = Shen  C:\Usero\Drakeff)	Ping berhasil ke DHCP Server debian

3. Soal Tantangan – Lakukan konfigurasi IP Reservasi untuk Client Windows (Wajib)

No	Konfigurasi	Hasil (Screenshot)	Keterangan
1	Konfigurasi IP Reservasi untuk Windows Client. IP yang di berikan kepada Client:	host fantasia {    hardware ethernet 00:0C:29:8D:0A:3F;    fixed—address 10.1.18.61; }	Range khusus untuk windows client berhasil di set dengan menggunakan MAC address windows Client
	10.XX.YY.XY/24		
	Keterangan : XX-rombel		
	YY-absen		
	XY-2 digit terakhir NIS		
2	Restart services DHCP	rootdarv-aweri'' / /stc/init.dvisc-dhop-server restint Hestarting lic-dhop-server (via systemotil) isc-dhop-server.service. Pontdorv-aweri''	DHCP server berhasil di restart

Jl. Raya Wangun Kel. Sindangsari Kota Bogor Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website : www.smkwikrama.net

3	Uji-Coba (Tampilkan IP reservasi yang sudah di dapatkan di Client Windows)	Ethernet edapter Local Grea Connection:  Convertion-specific BMS Suffix : internal example are taken becall Pts Andrews	IP sudah di dapat sesuai dengan keinginan
	Windows).		

😊 Selamat Mengerjakan 😊