SETING ACCESS POINT (WLAN) MIKROTIK (oleh : Badiyanto)

1. Intalasi alat

- Hubungkan Port ether1 ke DHCP Client, jaringan Laboratorium koneksi ke internet
- Seperti pada gambar berikut:



2. Membuat DHCP Client

- Port ether1 terhubung ke internet, bagian dari client jaringan, di Laboratorium
- Klik IP
- Pili DHCP Client
- Klik Tombol 🛨
- Pilih DHCP dan Interface Ether1
- Klik **OK** seperti pada Gambar berikut:

🎢 Quick Set	DHCP Client		
CAPsMAN	DHCP Client DHCP Client	Options	
Interfaces	+- ~ ~ 6	🝸 Release Renew	
🚊 Wireless	Interface	∠ Use Peer DNS	Add Default Rout
vvireless	nopulanunky		
📲 Bridge	Addresses	New DHCP Client	
📑 PPP	Cloud	DHCP Advanced Status	OK
🕎 Switch	●HCP Client	D Interface: ether1 ▼	Cancel
°t% Mesh	DHCP Relay	1 Use Peer DNS	Apply
፼ IP ♪	DHCP Server	B Use Peer NTP	
Ø MPLS ►	DNS		Disable
∰ System ♪		Add Default Houte: yes	Comment
Queues			Сору

• Akan mendapatkan ip seperti berikut:

DHCP Client						
DHCP Client	DHCP Client Option	IS				
+ - /	***	Relea	ase Renew			Find
Interface	∠ Use P	Add D	IP Address	Expires After	Status	•
ether1	yes	yes	172.18.100.16/24	2d 23:59:15	bound	
1 item						

- 3. Konfigurasi Kunci WLAN
 - Jalankan Winbox dan login ke router Mikrotik menggunakan MAC address.
 - Reset konfigurasi
 - Pilih Wireless
 - pilih Security Profile
 - Klik Add (+),
 - Klik Tab General
 - Name isikan WLAN_BADI
 - Mode dynamic kyes
 - Authentication Types : contreng
 - WPA PSK, dan
 - WPA2 PSK
 - WPA Pre-Shared Key : 12345678
 - WPA2 Pre-Shared Key : 12345678
 - Klik OK
 - seperti pada gambar berikut:

CAPSMAN		Wireless Table						
Interfaces		WiFi Interfac	es W60G Station N	Istreme Dual	Access List	Registration (Connect List	Security Profiles
2 Wireless	-	+	9 7					-
Bridge		Name	Mode A	uthenticatio	Unicast Ciph	ers Group Ciph	ers WPA P	re-Shared WP
et PPP		" default	None					
🛫 Switch			New Security Profile					×
18 Mesh			General RADIUS	EAP Static	Keys		OK	
AN IP	15			Manas Mu	ANI DAGU		Court	
Ø MPLS	۰¢		-	isame. III	AN DIALI	1020	Cancel	
Routing	r			Mode: dyn	amic keys		Apply	
💮 System	4		Authentication	n Types: 🗹 V	VPA PSK	WPA2 PSK	Comment	t
Queues			Ibicat	Cinham II a	en com	WPA2 EAP	Copy	
Eles			Uracdal		es com 🖂 i	up .	Copy	
Log			Group	Ciphers: (Y) a	es.ccm 🛄 tk	üp	Hemove	
RADIUS		1 item	WPA Pre-Sha	red Key:				
🗶 Tools	ŀ	MM	WPA2 Pre-Sha	red Key				VVV
Mew Termina	E.	MMMM						KKK
Dot 1X		MMM MMM	Supplicant	identity:				KKK KKK
MetaROUTE	R	MM	Cours Very	11-1-1-1 00.0	15.00			KKK KKK
Partition		1004	Group Key	update: [UU:t	10:00			KKK KKK
📑 Make Supout	of:	MikroTi	Management Pro	tection: allow	wed	Ŧ		com/
Manual			Management Protect	ion Key:				10000
S New WinBox		[7] command [1				
Ext				0	Asable PMKID			

4. Setting Nama SSID WLAN

- Piilih Wireless
- Klik WiFi Interface
- Klik di Tabel wlan1
- Pilih tab Wireless, isikan seperti pada gambar berikut:

I CAPSMAN	Western Tables		
Interfaces	WIFI Interfaces W60G St. General Wireless I	Data Bates Advanced HT HTMCS WDS	
I Wireless	+ × × 4		ОК
Bridge	Name / 1 Mode	: ap bodge	Cancel
PPP	R Www.an1 Band	2GHz-B/G/N ▼	Apoly
≝ Switch	Channel Width	20/40MHz XX	
S Mesh	Frequency	: 2412 🛛 🗐 MHz	Disable
j≝ IP	SSID	WLAN_BADI	Comment
MPLS	Radio Name	: 744D28ED23E9	Simple Mode
Conting	Scan List	efault 🖛 🕈	Torch
g System Queues	Wreless Protocol	802.11	WPS Accept
Files	Security Profile	WLAN_BADI	WPS Client
Log	WPS Mode	: push button	Setup Repeater
RADIUS	1 item out of 7 (1 selected) Frequency Mode	manualtxpower	Scan
Tools	S 49ether5 E Country	indonesia ¥	Freq. Usage
New Terminal	Installation	indoar ¥	Alian
MetaROUTER	Antenna Gain	0 dB	Sniff
Partition			Snooper
Make Supout rf	WMM Support	disabled	Reset Configuration
Manual	Bridge Mode	enabled 🛛	neset consignation
New WithBox	/ tems	- E	

- 5. Berilah alamat IP pada interface wlan1.
 - Pilih menu IP
 - Pilih dan Klik Address
 - Klik add (+)
 - Klik tomnol OK, seperti gambar berikut:

Bridge PPP Switch	ARP Accountin	ng			
*© Mesh	Cloud DHCIAd	s / / / / / / / / / / / / / / / / / / /			
Routing System		Address 172.18.100.16/2 192.168.10.1/24 192.168.30.1/24 192.168.40.1/24	Network 172 18 100 0 192 168 10 0 192 168 30 0 192 168 40 0	Interface ether1 ether2 ether3 ether4	
		New Add	ress 192.160.3.1/24		ОК
	- 1	Network		-	Cancel
	_	Interface	n wan t	Ŧ	Apply
					Disable
					Comment
					Сору
					Remove

- 6. Konfigurasi DHCP server Untuk WLAN
 - Pilih IP
 - Klik DHCP Server
 - Klik Tab DHCP Setup
 - DHCP Server Interface : wlan1, seperti gambar berikut:

255 IP	1	Cloud		1
D MPLS	1	DHCP Client		
× Routing		DHCP Relay		
System	L.	DHCP Server		
🙊 Queues	1	DHCP Setup		
		Select interface to DHCP Server Inter	face:	P server on
		E	Back	Next Cancel

- Klik Next
- DHCP Address space 192.168.3.0/24 (isi alamat jaringan), seperti gambar berikut:

DHCP Setup	<
Select network for DHCP addresses	ų
DHCP Address Space: 192.168.3.0/24]
Back Next Cancel]

• Klik Next

Gateway for DHCP Network : 192.168.3.1 (client akan menggunakan ip getaway/ip router), seperti pada gambar berikut

DHCP Setup
Select gateway for given network
Gateway for DHCP Network: 192.168.3.1
Back Next Cancel

• Klik Next

• Address to Give Out: 192.168.3.2 – 192.168.3.254 (untuk menentukan ip yang di berikan ke client antara 192.168.10.2 sampai 192.168.10.254) seperti pada gambar berikut:

DHCP Setup	
Select pool of ip addresses given out by DHCP server	
Addresses to Give Out: 192.168.3.2-192.168.3.254	\$
Back Next	Cancel

- Klik Next
- **DNS Server : 172.18.100.254** (mengikuti dns jaringan setempat), atau bisa gunakan ip router, lihat gambar berikut:

DHCP Setup			
Select DNS se	ervers		
DNS Servers:	172.18.100.25	54	\$
	Back	Next	Cancel

• Klik Next

DHCP Setup		
Select lease time		
Lease Time: 00:10	0:00	
Ba	ack Next	Cancel

• Klik **Next** Untuk mengakhiri hingga seperti gambar berikut:



7. Uji Koneksi

- Klik WLAN_BADI
- Masukkan Key:: hingga bisa koneksi seperti gambar berikut:



• Cek IP di PC (menggunakan CMD) **ipconfig**, hasilnya, seperti gambar berikut:

🔤 Command Prompt	-	×
Default Gateway : 192.168.10.1		^
Wireless LAN adapter Wi-Fi:		
Connection-specific DNS Suffix . :		
Link-local 1rv6 Address : fe80::2012:69da:2629:7850%5	1	
IDv4 Address		
Subnet Mask		
Dafault Gateway : 192.168.3.1		
Ethernet adapter Bluetooth Network connection:		
Media State Media disconnected		
1		*

• Ujikan dengan cara akses ke Internet