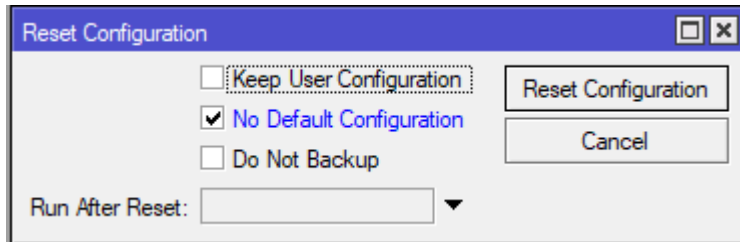


Nama : Aulia Rachmawati

Nim : L200160015

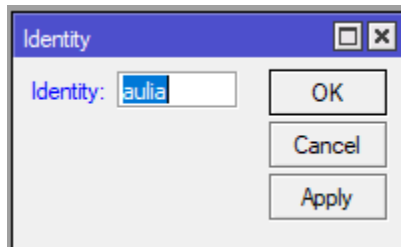
Kelas : A

MIKROTIK 3

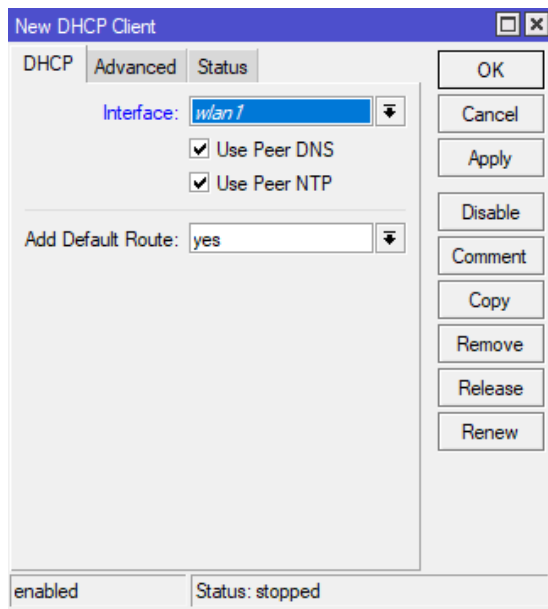


Reset konfigurasi terlebih dahulu

Kemudian cabut kabel dari pc dan reconnet-kan kembali.



Berikan identitas anda.



Setting dhcp client

Interface <wlan1>

General Wireless HT WDS Nstreme NV2 Advanced Status ...

Mode: station

Band: 2GHz-B/G

Channel Width: 20MHz

Frequency: 2412 MHz

SSID: MikroTik

Scan List: default

Wireless Protocol: any

Security Profile: default

☒ Default Authenticate

OK

Cancel

Apply

Enable

Comment

Advanced Mode

Torch

WPS Accept

WPS Client

Setup Repeater

Scan...

Freq. Usage...

Align...

Sniff...

Snooper...

Reset Configuration

SCAN

Scanner (Running)

Interface: wlan1

☐ Background Scan

Start

Stop

Close

Connect

New Window

	Address	SSID	Channel	Signa...	Noise...	Signa...	Radio Name	RouterO...
AP	D4:1A:3F:45:9F:07	istri sehun	2412/2...	-64	-97	33		
AP	00:EC:0A:77:34:36	ouyeah	2412/2...	-82	-97	15		
AP	56:27:58:6B:47:CD	Sir van B...	2412/2...	-74	-97	23		
AP	FC:DD:55:28:64:04		2432/2...	-73	-97	24		
AP	20:F7:7C:36:1B:8F	Rajawali ...	2437/2...	-66	-98	32		
AP	52:3C:EA:38:BB:BB	OPPO A83	2447/2...	-80	-99	19		
AP	A8:0C:63:FF:1E:EA	HUAWEI...	2447/2...	-70	-99	29		
AP	C0:87:EB:0C:15:65	Androis	2462/2...	-73	-100	27		
AP	20:AA:4B:44:84:CF	LAB FKI	2462/2...	-37	-100	63		
P	04:95:E6:64:67:00	Connecting	2462/2...	-83	-100	17		
AP	C0:87:EB:DE:AF:B3	\$	2462/2...	-78	-100	22		
AP	88:DC:96:4D:21:F5	UMS Wifi...	2437/2...	-88	-98	10		
AP	04:18:D6:AD:4B:C8	Rektorat	2412/2...	-80	-97	17		
AP	42:B0:76:5C:C7:BC	ASUS_X...	2462/2...	-80	-100	20		

Connect
ke LAB
FKI

Security Profile <default>

General | **RADIUS** | EAP | Static Keys

Name: default

Mode: dynamic keys

Authentication Types: ☒ WPA PSK ☒ WPA2 PSK
☐ WPA EAP ☐ WPA2 EAP

Unicast Ciphers: ☒ aes ccm ☐ tkip

Group Ciphers: ☒ aes ccm ☐ tkip

WPA Pre-Shared Key:

WPA2 Pre-Shared Key:

Supplicant Identity: MikroTik

Group Key Update: 00:05:00

Management Protection: disabled

Management Protection Key:

default

OK
Cancel
Apply
Comment
Copy
Remove

Setting security profile

Interface <wlan1>

General | **Wireless** | HT | HT MCS | WDS | Nstreme | NV2 | ...

Mode: station

Band: 2GHz-B/G/N

Channel Width: 20MHz

Frequency: 2462 MHz

SSID: LAB FKI

Scan List: default

Wireless Protocol: any

Security Profile: default

☒ Default Authenticate

OK
Cancel
Apply
Disable
Comment
Advanced Mode
Torch
WPS Accept
WPS Client
Setup Repeater
Scan...
Freq. Usage...
Align...
Sniff...
Snooper...
Reset Configuration

Cek interface

Ping google.com

```
[admin@aulia] > ping google.com
```

SEQ	HOST	SIZE	TTL	TIME	STATUS
0	74.125.200.113	56	46	30ms	
1	74.125.200.113	56	46	26ms	
2	74.125.200.113	56	46	33ms	
3	74.125.200.113	56	46	113ms	
4	74.125.200.113	56	46	37ms	
5	74.125.200.113	56	46	37ms	
6	74.125.200.113	56	46	112ms	
7	74.125.200.113	56	46	54ms	
8	74.125.200.113	56	46	52ms	

Setting quick set

CPE

Quick Set

Info

WLAN MAC Address: 64:D1:54:E4:9A:7B

LAN MAC Address: 64:D1:54:E4:9A:76

Wireless

Status: connected to ess

AP MAC: 20:AA:4B:44:84:CF

Network Name: LAB FKI

Tx/Rx Signal Strength: -37 dBm

Tx/Rx CCQ: 78 %

Signal To Noise: 63 dB

Wireless Protocol: 802.11

Rx Signal: -37 dB

Tx Signal: 0 dB

Disconnect

Configuration

Mode: ☒ Router ☐ Bridge

Wireless Network

Address Acquisition: ☐ Static ☒ Automatic ☐ PPPoE

IP Address: 192.168.1.136 Renew Release

Netmask: 255.255.255.0 (/24)

Gateway: 192.168.1.1

Upload: unlimited bits/s

Download: unlimited bits/s

Local Network

IP Address: 192.168.2.8

Netmask: 255.255.255.0 (/24)

☒ DHCP Server

DHCP Server Range: 192.168.2.9-192.168.2.254

☒ NAT

☐ Bridge All LAN Ports

System

Router Identity: aulia

Check For Updates Reset Configuration

Password:

Confirm Password:

OK

Cancel

Apply

Cek ip client

```
Ethernet adapter Ethernet:  
  
    Connection-specific DNS Suffix  . :  
    Link-local IPv6 Address . . . . . : fe80::ac57:ed80:51d0:17a5%21  
    IPv4 Address. . . . . : 192.168.2.254  
    Subnet Mask . . . . . : 255.255.255.0  
    Default Gateway . . . . . : 192.168.2.8
```

Ping google.com

```
C:\Users\ASUS>ping google.com  
  
Pinging google.com [74.125.200.101] with 32 bytes of data:  
Reply from 74.125.200.101: bytes=32 time=28ms TTL=45  
Reply from 74.125.200.101: bytes=32 time=109ms TTL=45  
Reply from 74.125.200.101: bytes=32 time=45ms TTL=45  
Reply from 74.125.200.101: bytes=32 time=74ms TTL=45  
  
Ping statistics for 74.125.200.101:  
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
    Approximate round trip times in milli-seconds:  
        Minimum = 28ms, Maximum = 109ms, Average = 64ms  
  
C:\Users\ASUS>
```

Cek ip client melalui web

The screenshot displays the RouterOS v6.39.2 (stable) WebFig interface. The browser address bar shows "192.168.2.8/webfig/". The interface is divided into several sections:

- Info:** Displays WLAN MAC Address (64:D1:54:E4:9A:7B) and LAN MAC Address (64:D1:54:E4:9A:76).
- Wireless:** Shows the status as "connected to ess", AP MAC (20:AA:4B:44:84:CF), Network Name (LAB FKI), Tx/Rx Signal Strength (-58 dBm), Tx/Rx CCQ (82 %), Signal To Noise (42 dB), and Wireless Protocol (802.11). Below this is a signal strength graph showing Rx and Tx signals over time.
- Configuration:** Includes tabs for Mode (Router/Bridge), Wireless Network, and Local Network. The Wireless Network tab is active, showing Address Acquisition (Automatic), IP Address (192.168.1.136), Netmask (255.255.255.0 (/24)), Gateway (192.168.1.1), Upload/Download speeds (unlimited), and Local Network settings (IP Address 192.168.2.8, Netmask 255.255.255.0 (/24), DHCP Server checked, DHCP Server Range 192.168.2.9-192.168.2.254, and NAT checked).

Disable hotspot

Package List				
<div><div></div><div><div>Check For Updates</div><div>Enable</div><div>Disable</div><div>Uninstall</div><div>Unschedule</div><div>Downgrade</div><div>Check Installation</div><div>Find</div></div></div>				
Name	Version	Build Time	Scheduled	
routeros-mipsbe	6.39.2	Jun/06/2017 08:01:04		
advanced-t...	6.39.2	Jun/06/2017 08:01:04		
dhcp	6.39.2	Jun/06/2017 08:01:04		
hotspot	6.39.2	Jun/06/2017 08:01:04	scheduled for disable	
ipv6	6.39.2	Jun/06/2017 08:01:04		
mpls	6.39.2	Jun/06/2017 08:01:04		
ppp	6.39.2	Jun/06/2017 08:01:04		
routing	6.39.2	Jun/06/2017 08:01:04		
security	6.39.2	Jun/06/2017 08:01:04		
system	6.39.2	Jun/06/2017 08:01:04		
wireless	6.39.2	Jun/06/2017 08:01:04		
11 items (1 selected)				

Reboot

Reboot

Do you want to reboot the router?

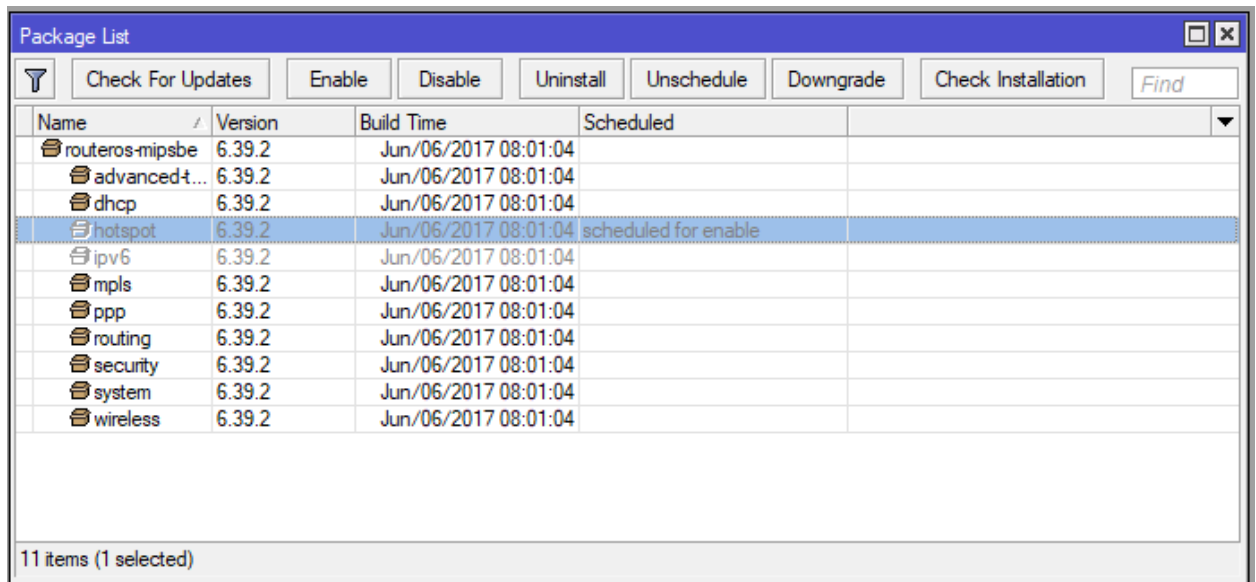
Yes

No

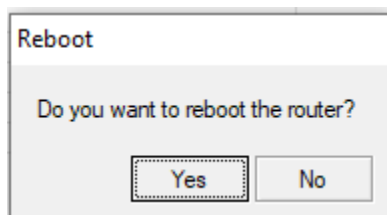
Cek status hotspot telah disable

Package List				
<div><div></div><div><div>Check For Updates</div><div>Enable</div><div>Disable</div><div>Uninstall</div><div>Unschedule</div><div>Downgrade</div><div>Check Installation</div><div>Find</div></div></div>				
Name	Version	Build Time	Scheduled	
routeros-mipsbe	6.39.2	Jun/06/2017 08:01:04		
advanced-t...	6.39.2	Jun/06/2017 08:01:04		
dhcp	6.39.2	Jun/06/2017 08:01:04		
hotspot	6.39.2	Jun/06/2017 08:01:04		
ipv6	6.39.2	Jun/06/2017 08:01:04		
mpls	6.39.2	Jun/06/2017 08:01:04		
ppp	6.39.2	Jun/06/2017 08:01:04		
routing	6.39.2	Jun/06/2017 08:01:04		
security	6.39.2	Jun/06/2017 08:01:04		
system	6.39.2	Jun/06/2017 08:01:04		
wireless	6.39.2	Jun/06/2017 08:01:04		
11 items				

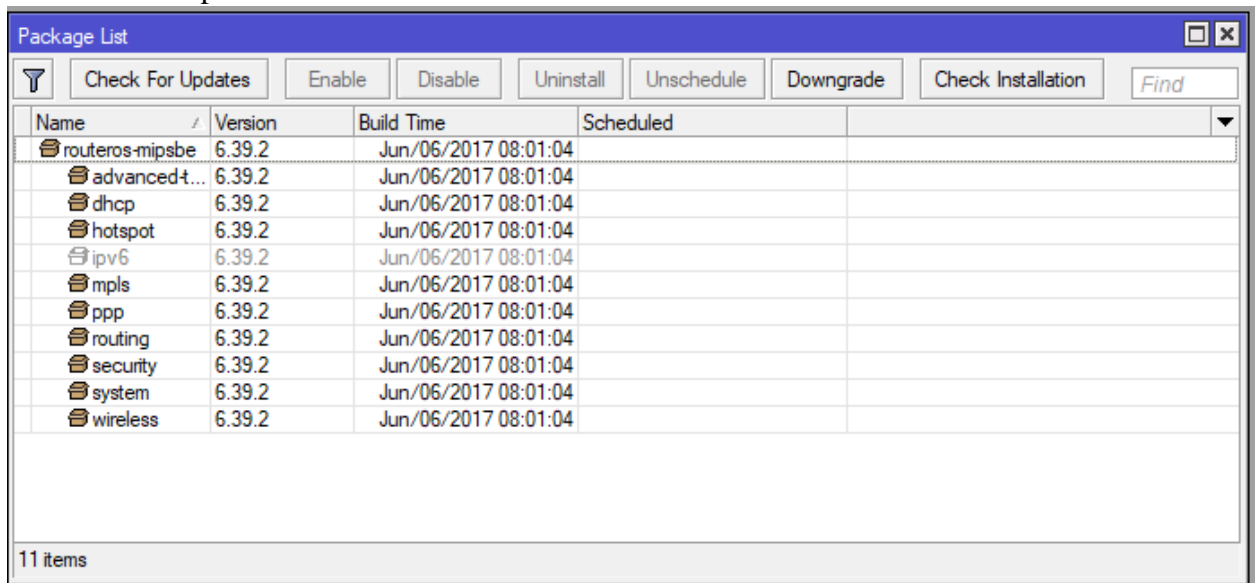
Kemudian enable kan kembali



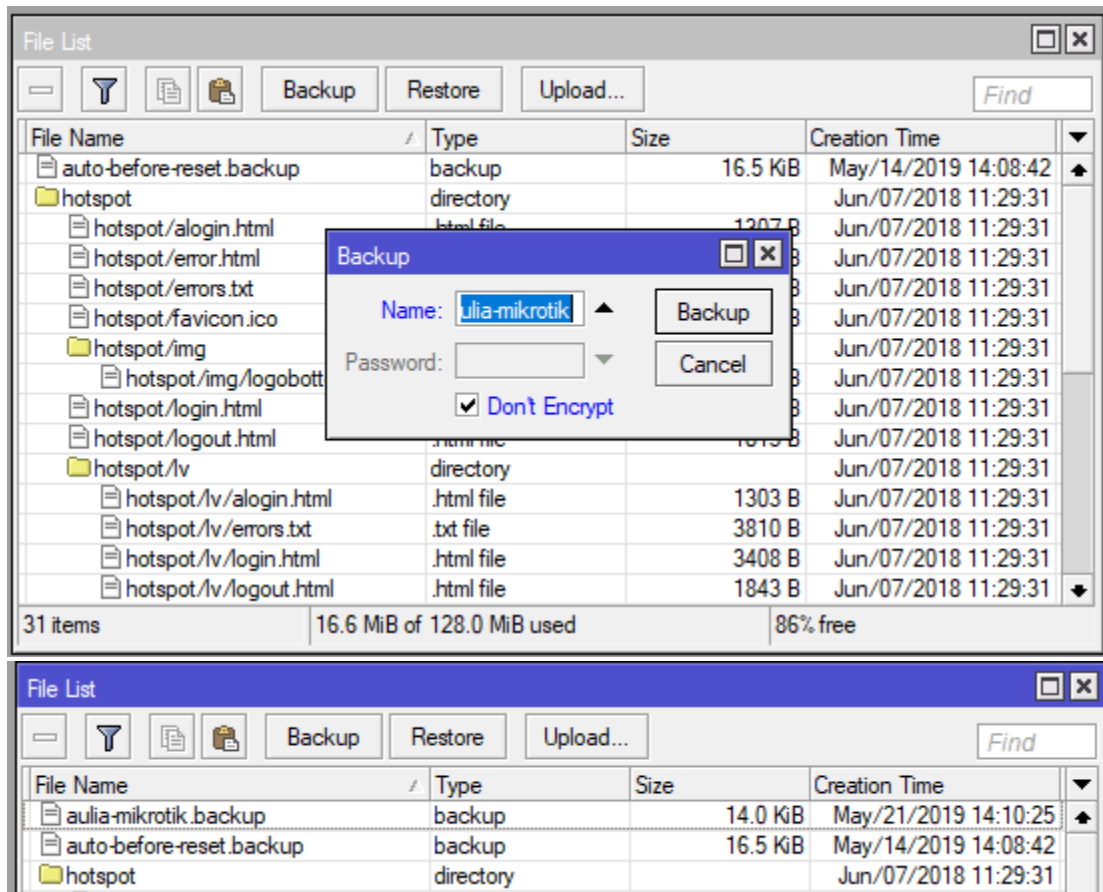
Kemudian reboot kembali



Cek status hotspot telah enable



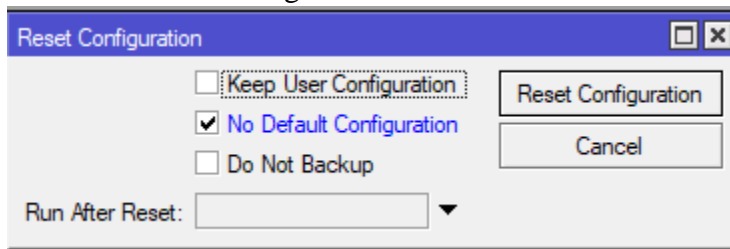
Melakukan backup



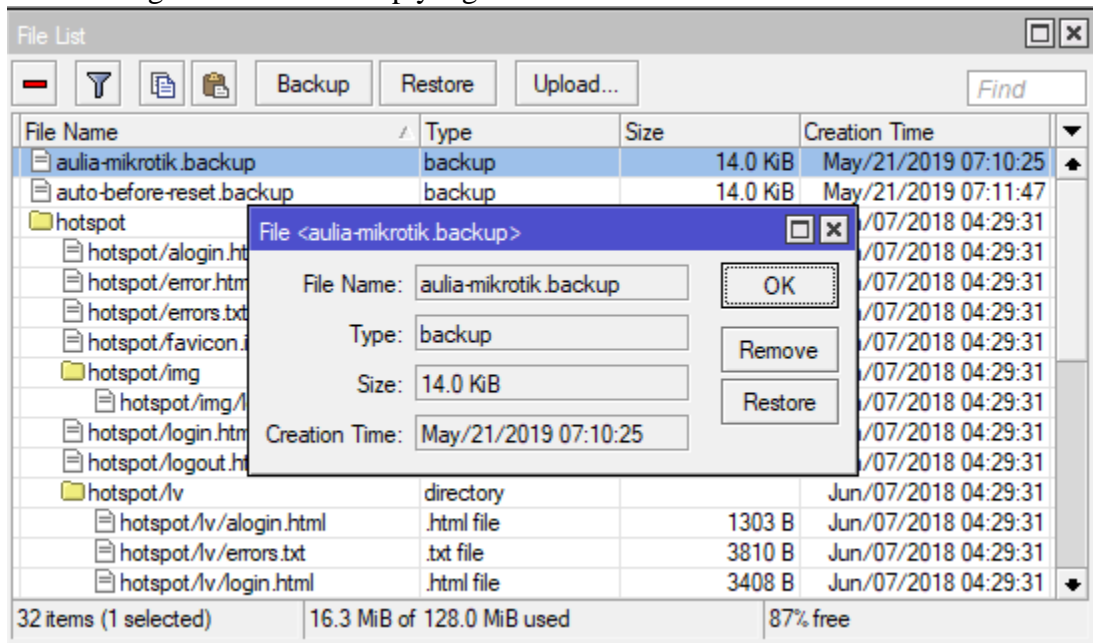
Backup dengan cara ini menyebabkan file yang dibackup tidak dapat di edit. Tampilan filenya seperti berikut.

[illegible]

Kemudian reset konfigurasi



Kemudian gunakan file backup yang tadi

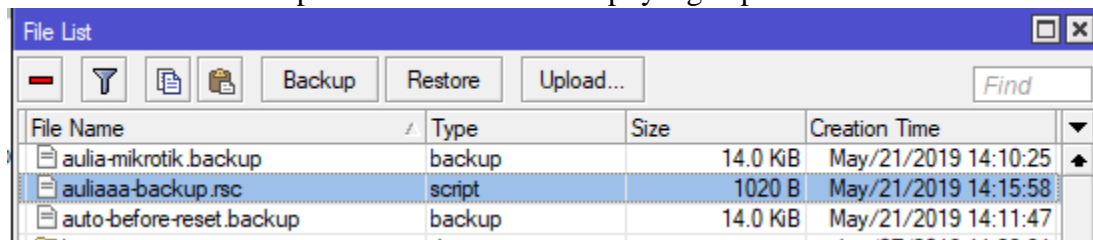


Kemudian klik restore dan akan automatic reboot.

Backup menggunakan export

```
[admin@aulia] > export file=auliaaaa-backup.rsc  
[admin@aulia] >
```

Kemudian akan tersimpan kedalam bentuk script yang dapat diedit



Tampilan nya seperti berikut

```
1 # may/21/2019 14:15:55 by RouterOS 6.39.2
2 # software id = AKPW-U2ZB
3 #
4 /interface wireless
5 set [ find default-name=wlan1 ] band=2ghz-b/g/n disabled=no frequency=2462 \
6     ssid="LAB FK1"
7 /interface wireless security-profiles
8 set [ find default=yes ] authentication-types=wpa-psk,wpa2-psk eap-methods="" \
9     mode=dynamic-keys supplicant-identity=MikroTik wpa-pre-shared-key=\
10     wifibersama wpa2-pre-shared-key=wifibersama
11 /ip pool
12 add name=dhcp ranges=192.168.2.9-192.168.2.254
13 /ip dhcp-server
14 add address-pool=dhcp disabled=no interface=ether1 name=dhcp1
15 /ip address
16 add address=192.168.2.8/24 interface=ether1 network=192.168.2.0
17 /ip dhcp-client
18 add dhcp-options=hostname,clientid disabled=no interface=wlan1
19 /ip dhcp-server network
20 add address=192.168.2.0/24 gateway=192.168.2.8 netmask=24
21 /ip firewall nat
22 add action=masquerade chain=srcnat out-interface=wlan1
23 /system clock
24 set time-zone-name=Asia/Jakarta
25 /system identity
26 set name=aulia
27 /system routerboard settings
28 set init-delay=0s
29
```

Membuat backup file firewall

```
[admin@aulia] > ip firewall
[admin@aulia] /ip firewall> export file=auliafirewall.rsc
[admin@aulia] /ip firewall>
```

Kemudian akan tersimpan di File

File List				
<div><div><div></div><div></div><div></div><div></div></div><div>BackupRestoreUpload...</div><div>Find</div></div>				
File Name	Type	Size	Creation Time	
aulia-mikrotik.backup	backup	14.0 KB	May/21/2019 14:10:25	
auliaaaa-backup.rsc	script	1020 B	May/21/2019 14:15:58	
auliafirewall.rsc	script	147 B	May/21/2019 14:18:44	
auto-before-reset.backup	backup	14.0 KB	May/21/2019 14:11:47	

Tambahkan Bridge

The screenshot displays the Mikrotik WinBox interface. On the left, the 'Bridge' tab is active, showing a table with one entry: 'bridge1' of type 'Bridge' with an L2 MTU of 1598. On the right, the 'Interface <bridge1>' configuration dialog is open, showing the 'General' tab. The configuration includes the name 'bridge1', type 'Bridge', MTU settings (Actual: 1500, L2: 1598), MAC Address '64:D1:54:E4:9A:79', ARP 'enabled', and ARP Timeout.

Bridge Table:

Name	Type	L2 MTU	Tx
bridge1	Bridge	1598	0

Interface <bridge1> Configuration:

- Name: bridge1
- Type: Bridge
- MTU: [Dropdown]
- Actual MTU: 1500
- L2 MTU: 1598
- MAC Address: 64:D1:54:E4:9A:79
- ARP: enabled
- ARP Timeout: [Dropdown]
- Admin. MAC Address: [Dropdown]

Buttons: OK, Cancel, Apply, Disable, Comment, Copy, Remove, Torch.

Kemudian masukan port 4, dan 5 kedalam bridge 1

The screenshot shows the 'Bridge' configuration window with the 'Ports' tab selected. A table lists the ports assigned to 'bridge1':

Interface	Bridge	Priority (h...)	Path Cost	Horizon	Role
ether4	bridge1	80	10		disabled port
ether5	bridge1	80	10		disabled port

Below the table, it says '2 items (1 selected)'. To the right, the 'Bridge Port <ether4>' dialog is open, showing configuration for the selected port. The 'General' tab is active, showing 'Interface: ether4', 'Bridge: bridge1', 'Priority: 80', 'Path Cost: 10', 'Horizon: auto', 'Edge: auto', 'Point To Point: auto', 'External FDB: auto', and an unchecked 'Auto Isolate' checkbox. The 'Status' tab shows 'enabled' and 'inactive' buttons.

This screenshot is similar to the one above, but the 'Bridge Port <ether5>' dialog is open instead. The 'General' tab shows 'Interface: ether5', 'Bridge: bridge1', 'Priority: 80', 'Path Cost: 10', 'Horizon: auto', 'Edge: auto', 'Point To Point: auto', 'External FDB: auto', and an unchecked 'Auto Isolate' checkbox. The 'Status' tab shows 'enabled' and 'inactive' buttons.