# CARA SETTING ROUTER, DHCP DAN PROXY SERVER PADA MIKROTIK

Langkah-langkah :

- 1. Hubungkan kabel straight dari mikrotik ke pc.
- 2. Lalu buka winbox, lalu klik connect. seperti gambar dibawah.

Connect To:	E4:8D:8C:DD:D1:1	E4:8D:8C:DD:D1:1D					
Login:	admin						
Password:				Save			
	<ul> <li>Keep Password</li> <li>Secure Mode</li> </ul>			Remove			
	I Load Previous 9	ession		Tools			
Note:	MikroTik						
Address	User 🔺	Note	1				

3. Lakukan reset. Klik menu system > reset configuration > klik reset configuration. Seperti gambar dibawah ini

-				
50	Safe Mod	le		🗹 Hide Passwords 🔳 🛱
1	Quick Set			
÷.	CAPSMAN			
/***	Interfaces			
÷	Wireless			
	Bridge			
	PPP			
Ŧ	Switch			
• 8	Mesh			
255	IP	1		
2	MPLS	1	Reset Configuration	
~	Routing	1		et Configuration
40 <sup>1</sup>	System	1		Cancel
-	Queues	_	Bun After Beset:	
	Files	_		
	Log			
õ 🖑	Tagla	N		
	New Terminal			
	MetaROUTER	_		
2	Partition	<u> </u>		
10	Make Supout	rif		
	Manual			
2	Exit	-		

4. Maka akan otomatis keluar, lalu masuk kembali pada winbox , lalu klik remove configuration. Seperti gambar dibawah.



5. Klik ip > addresses > klik + > isikan ip untuk ether 1 dan ether 2 > apply > ok . seperti gambar dibawah ini



Ether2 / Lan2

				1 miles	11-
2	ddress 192,168,2	/ Network 6/24 192.168.2	0	interface ather1	
4	Address <1	92.168.6.1/24>			
	Address:	192 168 6 1/24		ОК	
	Network:	192.168.6.0	•	Cancel	1
	Interface:	ether2	Ŧ	Apply	
				Disable	8
				Comment	
				Сору	
				Remove	

6. Klik ip > dns > isikan dns pada kolom server > centang pada "allow remote request" > apply > ok . seperti gambar dibawah

ONS Settings			
Servers:	202 169 224 3	<b>\$</b>	ОК
	202.169.224.4	•	Cancel
Dynamic Servers:			Apply
	Allow Remote Requ	lests	Static
Max UDP Packet Size:	4096		Cache
Query Server Timeout:	2.000	8	
Query Total Timeout:	10.000	s	
Cache Size:	2048	КВ	
Cache Max TTL:	7d 00:00:00		
Cache Used:	9		

7. Klik ip > firewall > nat > klik + > chain : srcnat , out.inter: ether1 > action : masquerade. > apply > ok. Seperti gambar dibawah ini

Filter Rules NAT Mangle Service Ports Connections Address Lists Layer7 Protocols		
🔹 🖃 🧭 😫 🗂 🍸 🔚 Reset Counters 00 Reset Al Counters Find al 🔻		
# Action Chain Src. Address Dst. Address Proto, Src. Port Dst. Port In. Inter Out. Int, B		
New NAT Flue		
General Advanced Extra Action Statistics		ОК
Chain: zcnst	Ŧ	Cancel
Src. Address:		Apply
Dat. Address:		Disable
Protocol:	-	Comment
Sec. Port:	-	Сору
Dist. Port:		Remove
Any. Port:		Reset Counters
in. Interface:	•	Reset All Counters
Out. Interface: Cether1	<b>T A</b>	•
Packet Mark:	-	
Connection Mater		

General Advanced Extra Action	Statistics	ок
Action: masquerade		T Cancel
		Apply
Log Prefix:		Disable
		Comment
		Сору
		Remove
		Reset Counters
		Reset All Counter

8. Klik ip > routes > tanda " + " > isikan gateway ether 1 > apply > ok.

Poute List		
Routes Nexthons Bules VRF		
		Find at E
	Distance Roy	
S P0.0.0.0/0 192.168.2.1 L	nreachable 1	
DC ▶ 192.168.2.0/24 ether1 unreac DAC ▶ 192.168.6.0/24 ether2 reacha	hable 255 ble 0	192.168.2.6
Route <0.0	0.0/0>	
General	Attributes	ОК
Dst. Ac	dress: 0.0.0.0/0	Cancel
Ga	eway: 192.168.2.1 ∓ unreachable	
Check Ga	eway:	
	Type: unicast	▼         Comment
Dis	ance: 1	
3 items (1 selected)	cope: 30	Remove
Target S	соре: 10	
Routing	Mark:	
Pref. S		
9. Lalu sambungkan	kabel dari atas ke ether 1. Dan hasilnya	a seperti gambar dibawah.
Route List		
Routes Nexthops Rules VRF		
+ - <b>* * * *</b>		Find al 🗮
Dst. Address / Gatew	ay	Distance Routing Mark Pref. Source 🔻
AS P 0.0.0/0 192.1 DAC 192.168.2.0/24 ether1	8.2.1 reachable ether1 reachable	0 192 168 2 6
DAC 192.168.6.0/24 ether2	reachable	0 192.168.6.1
10. Lalu ubah in nada	oc. Isikan in dengan gateway ether? Se	eperti gambar dibawah ini
	Local Area Connection Status	
Control Panel +	Local Area Connection Properties	- 4 Search Control Panel P
Control Panel Home	Internet Protocol Version 4 (TCP/IPv4) Properties	9
Change adjuster cellings	General	See full man
Change advanced sharing	You can get IP settings assigned automatically if your ne this capability. Otherwise, you need to ask your network	etwork supports k administrator
settings	for the appropriate IP settings.	ternet
	Obtain an IP address automatically	Connect or disconnect
	IP address: 192.168.6	5 . 109
	Subnet mask: 255 - 255 - 25	is. 0
	Default gateway: 192 . 168 . 6	1.1
	Obtain DNS server address automatically	
	Use the following DNS server addresses:	a router or access point.
	Preferred DNS server: 202 . 169 . 22	NA . 3
	Automate Units server: 202 . 169 . 22	
	Validate settings upon exit	Advanced I tige sharing settings.
See also	Cox.	Cancel

11. Jika sudah tersambung maka hasilnya sudah bisa digunakan untuk browser. Caranya =

- Ngecek Klik Start-ketik CMD masuk di program CMD
- Ketik ping (alamat IP server), misal ping 192.168.2.1 (enter)
- Ketik ping (alamat IP DNS), misal ping 202.169.224.3 (enter)
- Ketik ping <u>www.google.com</u> atau bisa dengan ketik ping 8.8.8.8
- Apabila semua sudah = Replay from 8.8.8.8 dst, berarti sudah terhubung, selanjutnya lakuan browsing.

#### SETTING DHCP

12. Klik ip > dhcp client > interface : ether2 > apply > ok. Seperti gambar dibawah ini

DHCP Client			
DHCP Client D	HCP Client Options		
	😂 🚰 🍞 Release	Renew	Find
Interface	DHCP Client sether2>		
ether2	DHCP Status		ОК
	Interface:	ether2	Cancel
		Use Peer DNS	Apply
			Disable
	DHCP Options:		Comment
			Сору
	Add Default Route:	yes 🔻	Remove
	Default Route Distance:	0	Release
1 item			Renew

13. Klik ip > dhcp server > arahkan ke ether 2 > klik next seterusnya > untuk melakukan pembatasan yang di DHCP settingan ada disini.

DHCP Server	₩ Lo	Internet Protocol Version 4 (TCP/IPv4)	Properties
DHCP Networks Leases Options Option Sets Alerts	Netv	General Alternate Configuration	
+ - V 🙁 Y DHCP Config DHCP Setup	Co	You can get IP settings assigned autom	natically if your network supports
Name / Interface Relay Lease T	Time Address Pool Add AR	this capability. Otherwise, you need to for the appropriate IP settings.	ask your network administrator
DHCP :	Setup	Obtain an IP address automatical	у
Select	Interface to run DHCP server on	Subsetting Use the following IP address:	
DHCP	Server Interface: cther2	IP address:	
		Subnet mask:	
	Back Next Cancel	Default gateway:	• •
14. Lalu ubah ip pada pc menjad	di obtain. Seperti gambar	Obtain DNS server address autom	natically
disamning ini		O Use the following DNS server add	resses:
Vertex       Vertex       Vertex       Vertex       Vertex       General Alternate Configuration         Vertex       Vertex       Vertex       General Alternate Configuration         Vertex       Vertex       Vertex       General Alternate Configuration         Vertex       Vertex       Vertex       Vertex         Vertex       Vertex       Vertex <td></td>			
		Alternate DNS server:	

## SETTING WLAN

15. Tambahkan ip addres wlan klik ip > address > klik tanda "+" > isikan ip address > pada menu interface arahkan pada wlan > klik apply > ok seperti gambar dibawah ini.

Validate settings upon exit



**Wireless** T

16. Masuk pada menu wireless > double klik pada wlan > klik tanda centang > lalu klik dan masuk pada menu wireless ganti mode dengan ap bridge klik apply lalu ok. seperti gambar dibawah ini.

Interfaces Nstreme Dual Access List Registra	tion Connect List Security Profile	s Channels		
+ X 🖾 🍸 CAP	Scanner Freq. Usage Alig	gnment Wireless Sniffer	Wireless Snooper	
Name / Type	L2 MTU Interface <wlan1></wlan1>			K MAC Address
Wireless (Atheros AR9	General Wireless H"	T WDS Nstreme NV2		OK E4:8D:8C:DD L
	Mode:	ap bridge	<b>.</b>	Cancel
	Band:	2GHz-B/G		Apply
	Channel Width:	20MHz		Disable
	Frequency:	2412 ₹	MHz	Comment
	SSID:	TRN	_ ▲   ;	
	Scan List:	default	₹ 🗧 🛌	Torch
	Wireless Protocol:	anv	_,,	Scan
	Security Profile:	default	Fn	eq. Usage
	Bridge Mode:	enabled		Align
1 item out of 6 (1 selected)	blidge Mode.			Sniff
	VLAN Mode:	no tag		Spooper
	VLAN ID:	1		

17. Masuk pada menu hotspot ip > hotspot > hotspot setup > arahkan ke wlan lalu klik next sampai selesai seperti gambar dibawah ini.

Hotspot	5								[	
Servers	Server Profiles	Users	User Profiles	Active	Hosts	IP Bindings	Service Ports	Walled Garden	Walled Garden IP List	
+ -	🖉 🖾 🖪	R	eset HTML	Hotspot	Setup	]			Find	
Nam	e	/ Interf	асе	Address	Pool	Profile	Addresses			-
			Hots	pot Setup				×		
			Sele	ct interfac	ce to rur	1 HotSpot on				
			Hots	Spot Inter	face: 🚺	vlan 1	1	F		
					Rac	k Next	Cancel			
				20						

18. Klik pada menu hotspot user isikan password (bebas) klik apply ok.

Hotspot	_										١	
Server Profiles	Users	User Pro	files A	Active H	osts IP	Binding	s Service Ports	Walled Gar	den Walled	Garden IP List	Cookies	
+	*	0 7	00	Reset Co	ounters	00 R	eset All Counters				Find	
Server	T Nar	ne		Addres	s	MA	C Address	Profile	Uptime			-
(¶al	adn	in		Hote	not Llee	. cadmin		default	00:00			
				Ger	neral L	imits S	latistics			ж		
					Serv	er: 🔠			Ca	ncel		
					Nam	ne: adn	nin		A	opły		
					Passwo	rd:	•		Dis	able		
					Addres	ss:		<b>-</b>	Com	ment		
				MA	C Addres	ss:			0	ору		
					Profi	le: def	ault	¥	Re	nove		
					Route	ss:			Beent	Counters		
1 item (1 select	ed)				Ema	ail:		•	- neset (			
									meset A	Counters		_

19. Klik pada menu hotspot users profile ganti menu addres pool > shared users > klik apply > ok.



20. Klik pada menu DHCP server arahkan ke wlan lalu klik next dan setrusnya . seperti gambar dibawah ini

a talanta fabrica da antici				_	_			
DHCP Networks	Leases	Options	Option	Sets .	Alerts			
+ 8	8 7	DHCP	Config	DHC	P Setup			
Name	/ Interf	ace	Re	lay	Lease	Time	Address Pool	Add AR
dhcp1	ether	2				10:10	00 dhcp_pool2	no
dhcp2	man	1		D	HCP Set	up		
				1	elect inte	erface to n	in DHCP server on	
				C	HCP Se	rver interfa	ice: <mark>Indan 1</mark>	
						Ba	ck Next	Cancel

Hasil = Client menggunakan kabel dan Wifi bisa terkoneksi dengan internet (browsing)

• Lakukan tes di Client seperti langkah no.11

### PROXY SERVER

 untuk blokir langkah pertama adalah klik ip > web proxy > general > centang pada kolom enabled, cache on disk, serialize conections, always from cache > ganti nama pada cache administrator (bebas) > klik apply. Seperti gambar dibawah ini

ieneral	Status	Lookups	Inserts	Refreshes			OK
			Enable	d			Cancel
	Src. A	Vddress:				] ≑	Apply
		Port: 8	080			\$	Clear Cache
		L_		nous		1	Reset HTML
-	Parer	nt Proxy:					Access
Р	arent Pro	oxy Port:				· ·	Cache
Cac	he Admir	nistrator:	RN			] 🔺	Direct
r	Max. Cac	he Size: u	nlimited		₹	KiB	Connections
Max Ca	iche Obje	ect Size: 2	048			KiB	Cache Contents
			Cache	On Disk			
Max. Cli	ent Conn	ections:	00				
Max. Ser	ver Conn	ections:	00				
	Max Free	h Time: 3	d 00:00:0	00			
			Serializ Always	e Connection From Cache	IS		
Cache	Hit DSCF	<mark>е (тоѕ</mark> ): 4	k.				
	Cach	ne Path: v	eb-proxy	Ŷ		Ŧ	

2. Masih di web proxy > klik accses > isikan dst.port > dst.host > action seperti gambar dibawah

					1		1	1-	-	
# Src. Address	Dst. Address	Dst. Port	Dst. Host	Path		Method	Action	Redirect	ToHits	- 23
	New Web Proxy	Rule						4		
	Src. Address:				•	OK		]		
	Dst. Address:				•	Canc	el	]		
	Dst. Port:	80				Appl	у	]		
	Local Port:				-	Disab	le	1		
	Dst. Host:	www.youtu	be.com		•	Comm	ent	i		
	Path:				-	Cop	y	1		
	Method:				•	Remo	ve	]		
) items	Action:	leny			<b>I</b>	Reset Co	unters	1		
ricina	Redirect To:				•	Reset All C	ounters	i 🗕 🚽		
	Hits: (	)				. <del></del>				
	enabled							-		

ini.

3. Masuk pada menu ip > firewall > nat > klik tanda "+" > general > chain > protocol > dst.port seperti gambar dibawah ini.

Modul Praktik Setting Mikrotik Router, By : Pardiyanta tata'

Filter Rules NAT Mangle	Service Ports C	onnections	Address List	s Layer7	Protocols				
• - 🕫 🖾	🍸 🔚 Reset	Counters	oo Reset A	I Counters	-	Find	al ∓		
# Action Chain	Src. Address	Dst. Address	Proto Sr	c. Port	Dat. Port	In. Inter	Out. Int B		
0 = mas srcnat							ether1		
	NAT Rule <80>								
	General Advanc	ced Extra	Action Sta	tistics					ОК
	Chain	dstnat						Ŧ	Cancel
	Src. Address	:							Apply
	Dst. Address							-	Disable
	Protocol	6 (cp)						•	Comment
	Src. Port	:						-	Сору
	Dst. Port	80						•	Remove
tems	Any. Port	:						]▼	Reset Counters
	In. Interface:	:							Reset All Counter
	Out. Interface:	:						-	
	Packet Mark							-	
	Connection Mark	:						-	
	Routing Mark:							-[	
	Routing Table:	:						-	
								-	

Firewall					,		-				
Filter F	lules NAT	Mangle	Service Ports	Connections	Address	Lists Laye	r7 Protocols	1			
+ -	- 1	3 🖾	🍸 🖾 Rese	t Counters	oo Res	et All Counte	15	Find	al	•	
# 0	Action	Chain srcnat	Src. Address	Dst. Address	Proto.	Src. Port	Dst. Port	In. Inter.	Out. Int ether1	BV	
1	=I redir	dstnat	NAT Rule <80>		<u> </u>		-00				
			General Advar	nced Extra	Action	Statistics					ОК
			Action:	redirect						Ŧ	Cancel
			-	Log							Apply
			Log Prefix:							•	Disable
			To Ports:	8080							Comment
											Сору
											Remove
tems	N										Reset Counters
											Reset All Counters

5. cek web yang diblokir pada IE atau GOOGLE CHROME. Jika berhasil akan forbidden seperti gambar dibawah ini.

		Ser and
C Thttp://www.youtube.com/	👻 😒 🔿 🗙 🚺 Bing	0.
🚖 Favorites 🛛 🚕 🐌 Suggested Sites 👻 🔊 Web Slice Gallery 👻		
Ø ERROR: Forbidden	🚵 👻 🖾 👻 🚍 👘 👻 Page 👻 Safety 🖤	Tools 🕶 🔞 🕶 🁌
ERROR: Forbidden While trying to retrieve the URL <u>http://www.youtube.com/</u> : • Access Denied		
17 1 1 1 1 1 1 mp 1		

# SETTING PEMBATASAN PENGGUNAAN (SETTING WAKTU)

6. Masuk pada menu ip>firewall>nat>double klik pada dstnat> lalu tambahkan in interface arahkan ke wlan > klik aply ok. 

rewai				_							
Filter Ru	ules N	AT	Mangle	Service	e Ports Connections	Address Lists Layer7	Protocols		_		
+ -	- 🗸		: 🗖	7	00 Reset Counters	00 Reset Al Counters	Find	al	Ŧ		
#	Action	-	Chain	Src.	NAT Rule <80>		I.				0
7 D		np L	hotspot		General Advance	ed Extra Action Stat	istics				ок
9 D	=l rec	ir	hs-unauth		Chain:	dstnat	111			₹	Cancel
11 D	=1 rec	ir	hs-unauth		Src. Address:					-	Apply
13 D	=l rec	ф Яг	hs-auth		Dst. Address:	L				-	Disable
14 U pla	sce hots	pot r	ules here		Protocol:	6 (top)				-[	Comment
15 X 16	pa =  ma	S	unused-hs srcnat	haa.	Src. Port:					-[	Сору
17 ma	squerad	ie ha	dstnat otspot netw	vork	Dst. Port:	<b>80</b>				-	Remove
18	=I ma	\$	srcnat	192	Any. Port:					<b>_</b>	Reset Counters
9 Kems	(1 sele	ded	)		Out. Interface:	wian 1			J.	] <b>↓</b>	Reset All Counters
					Packet Mark:	[				]•	
				21	Connection Mark:					]•	
					Routing Mark:					-	
					Routing Table:					]-	
					Connection Type:	Ĩ.				1-	

7. Klik pada menu filter rules. Klik tanda "+" ubah chain menjadi output dan isikan ip wlan seprti gambar dibawah ini

		Contraction of the second s
		Ingle Service Ports Connections Address Lists Layer7 Pr
	all ∓	The Reset Counters 00 Reset All Counters
	In Inter. Out Int. Byte -	in Src. Address Dst. Address Proto Src. Port Ds
		New Firewall Rule
		General Advanced Fider Advice Statistics
OK	1	Advanced Data Action Statistics
Cancel	<b>=</b>	Chain: output
A		Sto. Address: 192 168 29 0/24
Apply		JC. Address. [] [152.166.25.0/24
Diezbla	▼	Dst. Address:
Disable		
Comment	<b>•</b>	Protocol:
Come		C
Сору	<b>`</b>	Src. Port:
Remove	-	Dst. Port:
-		A B-t
Reset Counters	• [	Any. Polt:
Reset All Counters	<b>•</b>	P2P:
		he headance.
	• •	
	▼	Out. Interface:
	• •	
	▼	Connection Mark:
	<b></b>	Routing Mark:
	<b></b>	Routing Table:

2.

8. Masuk pada menu action> ubah menu action menjadi drop.

	ngle Service Ports Connections Address Lists Layer7 Protocols	Mar	IS NAT	r Rul	Filte
	🗇 🍸 🔚 Reset Counters 00 Reset Al Counters Find al 🖛	3	8		÷
	in Src. Address Dst. Address Proto Src. Port Dst. Port In. Inter Out. Int Byter 🔻	Chai	Action	11.0	#
	New Firewall Rule	fon	iump	D	0
	recommendation and a second seco	fon	Mjump	D	1
OK	General Advanced Extra Action Statistics	inp	Mjump	D	2
Creat	Antonio 1999	inp	🗙 drop	D	3
Cancel	Action: [200]	hs-	Mjump	D	4
Apply		hs-	<b>√</b> acc	D	5
		hs-	✓acc	D	6
Disable	Log Prefix:	hs-	Mjump	D	7
		hs-	× reject	D	8
Comment		hs-	reject	D	9
	i i i i i i i i i i i i i i i i i i i	hs-	× reject	U	10
Сору		rule	e hotspot	; plac	
Bemove		uni	pas	~	11
		TUN	al dummy	spe	12
Reset Counters		ion	• acc	U	12
Reset All Counter	Ī	-		ems	131

9. Masuk pada menu firewall> extra> atur jam akses seprti gambar dibawah ini

Firewall Rule <192.168.29.0/24>	
General Advanced Edtra Action Statistics	ОК
-▼- Connection Limit	Cancel
-▼- Limit -▼- Dst. Limit	Apply
- <b>-</b> - Nth	Disable
- Time - 06:20:00	Comment
✓ sun ✓ mon ✓ tue ✓ wed ✓ thu ✓ fri ✓ sat	Сору
-▼- Src. Address Type	Remove
	Reset Counters
-▼- Hotspot -▼- IP Fragment	Reset All Counters

10. Jika belum masuk waktunya tulisannya berwarna merah , jika sudah masuk waktu akan berubah hitam , dan jika waktunya sudah habis akan kembali merah.

Filter Ru	ules NAT	Mangle S	ervice Ports	Connections	Address L	ists Layer	7 Protocols			
-	•	K 🗂 🛯	00 Res	et Counters	00 Reset	All Counte	rs Find	all		•
#	Action	Chain	Src. Address	Dst. Address	Proto	Src. Port	Dst. Port	In. Inter	Out. Int	Byte:
::: pla	ce hotspot	rules here								
0 X	pas	unused-hs								
::: sp	ecial dumm	y rule to show	fasttrack cour	nters						
1 D	✓acc	forward		4						
ina	ctive time									
		COMPANY AND INC.	100 100 00							363

## SETTING CLIENT

1. Konekan client pada hospot yang sudah dibuat dan masuk pada ie> masukan user name dan password. oke

No Internet access		n	
Wineless Network Connection 2			
SMICT NGLIPAR	Connecting 🛃		
ITDepartment			
TRN	2		
Information sent over this network	ork might be visible to		
Connect automatically	Connect		
KELOMPOKPOKPOK	2	1.0	
munikaskasna	*		
Open Network and Sh	ering Center		
		9 - C	
1	login a	Imin	
	login a	Imin	
passv	login a	lmin •••• OK	
passv HOT	login a word •		
passv HOT	login a word •	OK GATEV	VAY

2. Jika berhasil akan bisa terhubung seperti gambar dibawah ini.

# You are logged in

If nothing happens, click here

3. Jika sudah masuk pada waktunya tidak bisa terkoneksi pada jaringan seperti gambar dibawah.



#### This site can't be reached

The webpage at https://www.google.co.id/search? q=ayam&oq=ayam&aqs=chrome..69i57.6547j0j7&sourceid=chrome&ie=UTF-8 might be temporarily down or it may have moved permanently to a new web address.

ERR\_TUNNEL\_CONNECTION\_FAILED

4. Jika waktunya sudah habis akan kembali bisa terkoneksi

Google	ayam
Google	All Images Videos Books More - Search tools
	About 91,400,000 results (0.36 seconds)
	Ayam ayam.com/ Ayam is committed to providing high quality, authentic Asian products with superior taste and flavour since 1892.
	Ayam - Start www.ayam3d.org/ ▼ A free 3D modeling environment for the RenderMan interface.
	Ayam vs Kambing   Pertarungan Hewan Lucu dan Unik   Chicken and https://www.youtube.com/watch?v=nuowF61CfTE Mar 2, 2016 - Uploaded by Nol Tujuh Ayam vs Kambing   Pertarungan Hewan Lucu dan Unik   Chicken and Goat Fight

\*\*\*\*\*\*\*\*\* SELAMAT MENCOBA \*\*\*\*\*\*\*\* GOOD LUCK