Mikrotik - podłączenie do internetu

Podłączenie do internetu bez wykorzystania szybkiej konfiguracji

Przykład sieci



1. Konfiguracja karty sieciowej w systemie Windows 10



2. Stan routera po usunięciu domyślnej konfiguracji

Safe Mode	Session: 48:8F:5A:C6:AA:8F		
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T Mash			Static
Its IP			Allow Remote Requests Cache
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3 Routing			Query Server Timeout: 2,000 a
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		(♦) ether5 Ethemet 1500 1598 0 0pp 0 0pp 0 X (## who1 Wireless (Rhems ARS 1500 1600 0 bos 0 bos 0	
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3. Zmiana nazwy karty sieciowej do której jest podpięty Internet - z dopiskiem WAN

sion: 48:8	F:5A:C6:AA:8F								
	Interface List								
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4. Utworzenie nowego bridge na cele sieci LAN

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5. Dodanie portów które będą pracowały w Bridge

admin@48:8F:5A:C6:AA:8F (MikroTik) - WinBox (64bit) v6.47.1 on RB951Ui-2HnD Session Settions Databased	,mipsbe)	- 0 ×
Call Section Section 48:8F:5A:C6:AA:8F		
demin@48855AC6AA8F (MkroTik) - WinBox (MkroTik) - 4A7.1 on R8931Ui-2H:D Section Setting: Dathboad Constant Setting: Dathboad Constant Setting: Section (48875AC6AA8F) Constant Section (48875AC6AF) C	mipoli	
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6. Konfiguracja adresu IP dla wcześniej stworzonego bridge1-LAN - adres 192.168.200.1/24



7. Sprawdzenie poprawności adresu na bridge1-LAN

Session Settings D	:AA:8F (MikroTik) - WinBox (64bit) v6.47.1 on RB951Ui-2HnD (mips	be)		- o ×
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8. Statyczna konfiguracja karty sieciowej w systemie Windows 10 należącej do sieci LAN

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	G Serwer proxy	C Uzyskaj adres servera DNS automatycznie	
		Utyj następujących adresów serwerów DNS:	
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9. Testowanie połączenia z routerem Mikrotik z systemu Windows

Kosz	Nirrosoft Teams		
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CDBurnerXP		Ethernet - · · ×	
E	,		
FileZilla Client	Sieć i Internet	Organizy Microsoft Windows [Version 10.0.19042.1237] Organizy (c) Microsoft Corporation, Wszelkie prawa zastrzeżone.	
Thezhia Chenc	🖨 Stan		
	문 Ethernet	Zmień C:\Users\sala 23>ping 192.168.200.1	
Google Chrome		Zmied Pinging 192.168.200.1 with 32 bytes of data:	
	" Telefoniczne	Centru Reply from 192.168.200.1: bytes=32 time<1ms TTL=64	
, 1	% VPN	Reply from 192.168.200.1: bytes=32 time<1ms TTL=64	
LibreOffice 7.1	疗 Tryb samolotowy	Reply from 192.108.200.1: bytes=32 time<1ms TTL=64	
R	(ပု) Hotspot mobilny	P Ping statistics for 192.168.200.1:	
Microsoft Edge	Gerwer proxy	Approximate round trip times in milli-seconds:	
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10. Konfiguracja serwera DHCP

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11. Uruchomienie kreatora konfiguracji dla karty bridge1-LAN

admin@48:8F:5A:C6:	:AA-8F (MikroTik) - WinBox (64bit) v6.47.1 on RB951Ui-2HnD (mipsbe)	– o ×
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12. Ustawienie adresu sieci oraz maski sieciowej

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13. Ustawienie adresu IP routera dla sieci LAN w serwerze DHCP

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14. Określenie zakresu udostępniania adresów IP 192.168.200.10 - 192.168.200.20

	T DHCP Config	DHCP Set	up				Find
lame 4	Interface	Relay	Lease Time	Address Pool	Add AR		
		DHCP	Setun				
		Select	pool of ip address	es given out by DH	CP server		
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		Address		132.100.200.10-13	2.100.200.20	▼	
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15. Ustawienie adresów DNS

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16. Ustawienie czasu dzierżawy

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DHCP Networks	Leases Options O	ption Sets DHCP Se	Vendor Classes etup	Alerts				Find
Name	△ Interface	Relay	Lease Time	Address Pool	Add AR			
		DHCP	Setup					
		Lease	Time: 08:00:00					
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17. Zakończenie pracy kreatora DHCP

DHCP Server DHCP Networks Leases Option Sets Vendor Classes Alerts Image: Colspan="2">Mame Image: Colspan="2">Mame DHCP Config DHCP Setup Name / Interface Relay Lease Time Address Pool Add AR dhcp 1 bridge1-LAN 08:00:00 dhcp_pool1 no	[Find
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DHCP Setup	
Setup has completed successfully	
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18. Sprawdzenie poprawności konfiguracji serwera DHCP

DHCP Se	erver											[
DHCP	Networks	Leases	Options	Option Sets	Vendor C	lasses	Alerts					
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Address	200.0/24	- Gatew	ay	DNS Serv	vers 92.168	Domain		WINS Servers	Next Serve	r		
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19. Wyłączenie i ponowne włączenie karty sieciowej w celu pobrania nowych ustawień adresów IP



20. Sprawdzenie poprawności pobranych danych z serwera DHCP

Stan: Ethernet 2		×	Szczegóły połączenia sieci	owego	×		
Ogólne		an	Szczegóły połączenia siecio	owego:			
Połączenie Połaczenia IPv4:	Brak dostepu do Internetu	n :	Właściwość Sufiks DNS konkretneg	Wartość	^		
Połączenia IPv6: Stan pośnika	Brak dostępu do sieci Właczone	<i></i>	Opis Adres fizyczny	Realtek Gaming GbE Family Controll 18-C0-4D-82-9B-C1	er	enia siecio	we
Czas trwania:	00:00:16	ļ	DHCP włączone Adres IPv4	Tak 192.168.200.20		łączenie	Zmień na
Szybkość: Szczegóły	100,0 Mb/s	l	Maska podsieci IPv4 Dzierżawa uzyskana	255.255.255.0 czwartek, 7 paździemika 2021 12:54	6	WSL)	
		< ()	Dzierżawa wygasa Brama domyślna IPv4 Serwer DHCP IPv4	czwartek, 7 paździemika 2021 20:54 192.168.200.1 192.168.200.1	b	tual Ethern	iet Adapter
Aktywnosc	- 🚺 — Odebrano	e u :h az:	Serwery DNS IPv4	1.1.1.1 192.168.200.1 8.8.8.8			
Bajty: 11 64	6 637	ow nic	Serwer WINS IPv4 System NetBIOS przez T Adres IPv6 połaczenia I	Tak fe80::5481:e9fc:ad08:1206%17			
💎 Właściwości 🛛 💎 Wyłą	cz Diagnozuj	R	<)			
	Zambnii			Zamkr	nij		

21. Sprawdzenie na serwerze DHCP kto uzyskała dzierżawę o odpowiedniej konfiguracji

HCP Networks Leases Options Option Sets Vendor Classes Aldres Image: Check Status Address / MAC Address Is2:168:200:20 (Image: Check Status) Is2:168:200:20 IsC0:4D:82:9B:C1 (Image: Check Status) Is2:168:200:20 (Image: Check Status) Is2:168:200:20 (Image: Check Status) Is2:168:200:20 (Image: Check Status) Is2:168:200:20 (Image: Check Status) Is2:168:200:20 (Image: Check Status) Image: Check Status) (Image: Check Status) Is2:168:200:20 (Image: Check Status) Is2:168:200:20 (Image: Check Status) Is2:168:200:20 (Image: Check Status) Is2:168:200:20 (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check Status) (Image: Check	OHCP Server								
Image: Solution of the status Find Address / MAC Address Client ID Server Active Address Active Hos Expires After Statu Statu Image: Statu Statu Image: Statu I	DHCP Networks L	Leases Options Option Set	s Vendor Classes Ale	rts					
Address / MAC Address Client ID Server Active Address Active MAC Address Active Hos Expires After Stat/ 192.168.200.20 18:C0:4D:82:9B:C1 1:18:c0:4d:82:9b: dhcp1 192.168.200.20 18:C0:4D:82:9B:C1 DESKTOP 07:58:56 bound	+ - 🖉 💥 [Check Status						Fin	d
192.168.200.20 18:C0:4D:82:9B:C1 1:18:c0:4d:82:9b: dhcp1 192.168.200.20 18:C0:4D:82:9B:C1 07:58:56 bound	Address	△ MAC Address	Client ID	Server	Active Address	Active MAC Addre	Active Hos	. Expires After	Stati 🔻
em	192.168.200.20	18:C0:4D:82:9B:C1	1:18:c0:4d:82:9b:	dhcp1	192.168.200.20	18:C0:4D:82:9B:C1	DESKTOP	. 07:58:56	bound
em									
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	<u>'I</u>								•

22. Sprawdzenie czy przy obecnej konfiguracji system Windows ma dostęp do sieci Internet - jak widać NIE

```
Microsoft Windows [Version 10.0.19042.1237]
(c) Microsoft Corporation. Wszelkie prawa zastrzeżone.
C:\Users\sala 23>ping wp.pl
Ping request could not find host wp.pl. Please check the name and try ag
C:\Users\sala 23>ping 1.1.1.1
Pinging 1.1.1.1 with 32 bytes of data:
Reply from 192.168.200.1: Destination net unreachable.
C:\Users\sala 23>_
```

Conne	ection-s	speci	ifi	сĽ	DNS	S	uft	fi>	<	•	:	
Descr	ription			• •	•						:	Realtek Gaming GbE Family Contro
Physi	.cal Add	dress	5.	• •	•						:	18-C0-4D-82-9B-C1
DHCP	Enabled	1		• •	•						:	Yes
Autoc	onfigur	ratio	on I	Ena	abl	ed					:	Yes
🗧 Link-	local 1	[Pv6	Ado	dre	ess						:	fe80::b481:e9fc:ad08:1206%17(Pre
d IPv4	Address	5		• •	•						:	192.168.200.20(Preferred)
Subne	et Mask			• •							:	255.255.255.0
Lease	e Obtair	ned.		• •	•						:	czwartek, 7 października 2021 12
Lease	e Expire	es.		• •							:	czwartek, 7 października 2021 20
Defau	ilt Gate	eway		• •	•						:	192.168.200.1
DHCP	Server			• •							:	192.168.200.1
DHCP	6 IAID			• •	•						:	236503117
DHCPV	6 Clier	nt Dl	JID	• •							:	00-01-00-01-27-F5-C0-DD-00-15-5D
DNS S	Servers			• •	•						:	1.1.1.1
												192.168.200.1
												8.8.8
NetBI	OS over	r Tcp	pip	•							:	Enabled

23.Konfiguracja firewall na routerze w celu udostępnienia dostępu do internetu dla komputerów w sieci LAN

Safe Mode	Session: 48:8F:5A:C6:AA:8
🚀 Quick Set	
CAP\$MAN	
Interfaces	
Wireless	
Bridge	
늘 PPP	
🙄 Switch	
°T <mark>°</mark> Mesh	
🐺 IP 🗈 🗈	ARP
MPLS ▷	Accounting
🔀 Routing 🗈	Addresses
🔯 System 🗈	Cloud
🙅 Queues	DHCP Client
📄 Files	DHCP Relay
🗐 Log	DHCP Server
RADIUS	DNS
🗙 Tools 🛛 🗅	Firewall
🖾 New Terminal	Hotspot
Dot 1X	IPsec
💻 MetaROUTER	Kid Control
🦺 Partition	Neighbors
陷 Make Supout.rif	Packing
🔘 New WinBox	Pool
🛃 Exit	Routes
	SMB

24. Dodanie nowej reguły w zakładce NAT

Safe Mode	Session: 48:8F:5A:C6:AA:8F
Quick Set	Finawall
CAPsMAN	newan
Interfaces	Filter Rules NAT Mangle Raw Service Ports Connections Address Lists Layer7 Protocols
Wireless	Find all
Bridge	# Action Chain Src. Address Dst. Address Proto Src. Port Dst. Port In. Inter Out. Int In. Inter Out. Int Src. Ad Dst. Ad
PPP	
Switch	
Mesh	
IP D	
MPLS N	
Routing D	
System D	
Queues	
Files	
Log	
RADIUS	
Tools D	
New Terminal	
Dot1X	
MetaROUTER	0 items
Partition	
Make Supout.rif	
New WinBox	
Exit	
Mindowa	

25. Ustawienie które interfejs jest interfejsem wyjściowym oraz dodanie akcji MASQUERADE

Safe Mode	Session: 48:8F:5A:C6:AA:8F			
Quick Set	Firewall			
CAPsMAN				
Interfaces	Filter Rules NAT Mangle Raw Service Ports Conr	ections Address Lists Layer7 Protocols	S	
Wireless	🛉 📼 🧭 💥 🖆 🍸 (© Reset Counters (©	Reset All Counters		Find all
Bridge	# Action Chain Src. Ad	dress Dst. Address Proto Src. Port	Dst. Port In. Inter Out. Int In. Inter	Out. Int Src. Ad Dst. Ad
PPP	New NAT Rule			
Switch	General Advanced Extra Action			
Mesh	Advanced Extra Action	OK		
IP D	Chain: srcnat	Cancel		
MPLS D	Src. Address:	Apply		
Routing	Dst. Address:			
System D		Disable		
Queues	Protocol:	Comment		
Files	Src. Port:	Сору		
Log	Dst. Port:			
RADIUS	Any. Port:	Remove		
Tools D	In. Interface:	Reset Counters		
New Terminal		Reset All Counters		
Dot1X				
MetaROUTER	0 items In. Interface List:			
Partition	Out. Interface List:			
Make Supout.rif				
New WinBox	Packet Mark:	•		
Exit	enabled			
Windows				

Safe Mode	Session: 48:8F	:5A:C6:AA:8F						
Safe Mode Quick Set CAPsMAN Interfaces Wireless Bridge PPP Switch Mesh IP MPLS N Routing System Queues Files Log RADIUS Tools New Terminal	Session: 49:8F	SA:C6:AA:8F	Service Ports Connection Reset Counters (© Reset Chain Src. Address tion Statistics rade	ns Address Lists Layer t All Counters Dst. Address Proto S Cancel Apply Disable Comment Copy Remove Reset Counters Reset All Counters	7 Protocols rc. Port Dst. Port	In. Inter Out. Int	In. Inter Out. Int.	Find all
Dot1X MetaROUTER	♦ 0 items			Reset All Counters				
Partition Make Supout.rif	L <u></u>							
New WinBox Exit		enabled						
Windows								

26. Sprawdzenie czy reguła została dodana

Safe Mode	Session: 48:8F:5A:C6:/	AA:8F												
Quick Set	Firewall													
CAPsMAN				C r	A.L. 1.		70.0							
Interfaces	Filter Rules 10/41	Mangle Ray	w Service Port	s Connection	ns Address Li	sts Lay	er / Protocol	s						
Wireless			O Reset Counter	ers (O Reset	All Counters								Find	all
Bridge	# Action		Chain	Src. Address	Dst. Address	Proto	Src. Port	Dst. Port	In. Inter	. Out. Int	In. Inter	Out. Int	Src. Ad	Dst. Ad
PPP	0 🚺 masqu	erade	srcnat							ether1				
Switch														
Mesh														
IP D														
MPLS D														
Routing														
System D														
Queues														
Files														
Log														
RADIUS														
Tools N														
New Terminal														
Dot1X	•													
MetaROUTER	1 item													
Partition														
Make Supout.rif														
New WinBox														
Exit														
Mindowa N														

27. Wykonanie profilaktycznego restartu



28. Konfiguracji dostępu do sieci Internet z wykorzystaniem klienta DHCP.

ettings Dasi	snboard	
Safe Mode	Session: 48:8F:5A:C6:AA:8	
k Set		
sMAN		
faces		
less		
20		
- 6		
6		
	ADD	
s h	Accounting	
ing h	Addresses	
em h	Cloud	
ues	DHCP Client	
	DHCP Relay	
	DHCP Server	
IUS	DNS	
s P	Frewall	
Terminal	Hotspot	
х	IPeec	
ROUTER	Kid Control	
ion	Neighbors	
Supout.nf	Packing	
WinBox	Pool	
	Houtes	
	SMB	
	Sendoes	
	Settinge	
	Socks	
	TETP	
	Traffic Flow	
	UPnP	
	Web Proxy	
0		13:0
 vvpisz t 	tu wyszukiwane słowa	7.10

29. Podanie dla której karty sieciowej ether1-WAN

0	admir	@48:8F:5A	C6:AA:8F	(MikroTik) -	WinBox	(64bit)	v6.47.1	on RB	951Ui-2H	-InD ((mipsbe)
\$	crion	Cottings	Darbhoar	al.							

Safe Mode	Session, 48.8F.5A.C6.AA.8F
🖉 🗶 Quick Set	
CAP\$MAN	
Interfaces	
 Wireless 	
31 Bridge	DHCP Client DHCP Client Options
= PPP	New DHCP Clent
T Switch	DHCP Advanced Status OK Idees Finites After Status
T. Mesh	
BALLE N	
CI MPLS D	Use Peer DNS Apply
Regime D	Use Peer NTP
System 1	
Oueues	Aud Desault noue: yes Comment
Dir Files	Copy
	Prove
AP RADIUS	
X Tools	Release
IN New Terminal	Renew
Dot 1X	
MetaBOUTER	
Pattion	ensoled Jokaus sopped
Make Supput of	
New WinBox	
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Windows	
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- o ×

30. Pobranie prze klienta konfiguracji adres IP 192.168.4.192/24

Session Settings Dashboard	6.47.1 on RB951Uir-2HnD (mipsbe)	- 0 ×
C Safe Mode Session: 48:8F:5A:C6:AA:8F		
Calculate		
CAPSMAN		
Wireless	DHCP Clerk	
C Bridge	DHCP Clerit DHCP Client Options	
The PPP	🔶 🗁 🎸 🖄 🖾 🍸 Release Renew Find	
🙄 Switch	Interface / Use P, Add D, IP Address Expires After Status 💌	
*[, Mesh	ether1-WAN yes yes 192.168.4.192/24 11:59:56 bound	
🖳 🖳 🔍		
O MPLS P		
JR Routing		
See System 11		
Flag		
an RADIUS		
Tools		
D New Terminal		
Dot1X		
MetaROUTER	12m	
the Pattion	1.0511	
Make Supout of		
New WinBox		
E Dat		
Windows 1		
X		
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Wpisz tu wyszukiwane słowa	o 🛱 👩 🗮 🛱 🚔 🏘 🔼 💿 🔄 👘	🌔 12°C Przew, pochmur, 🔿 🛱 di) 13:01 🗔
/ mpile to mysed wate stowa		- 12 C 1722W. pocinital

31. Sprawdzenie działania dostępu do sieci na Windows 10





