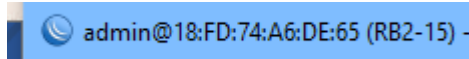
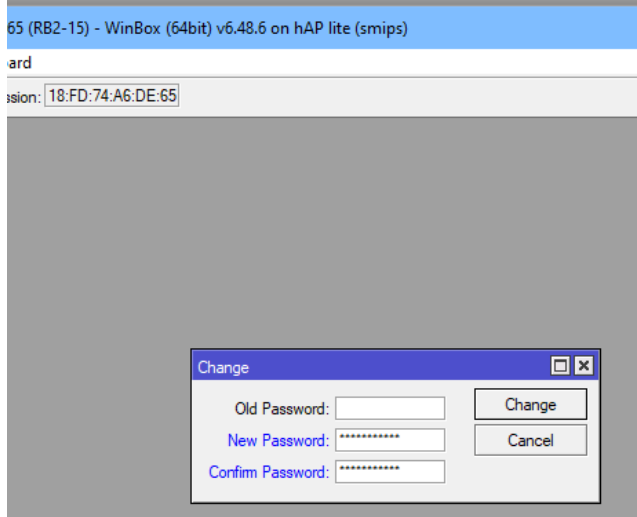

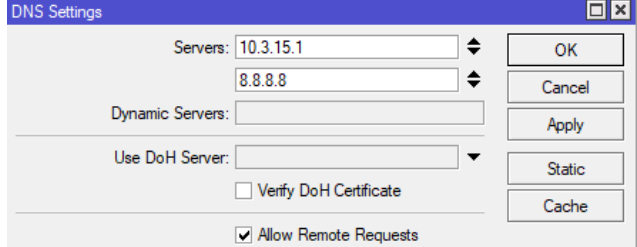
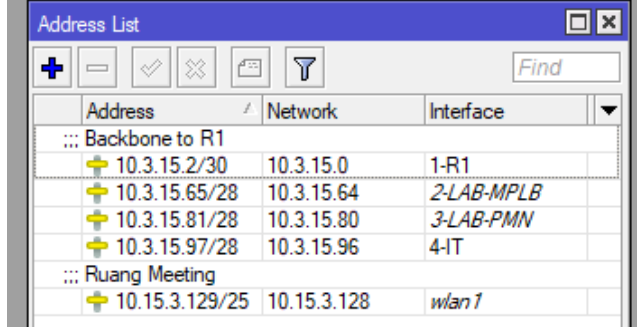
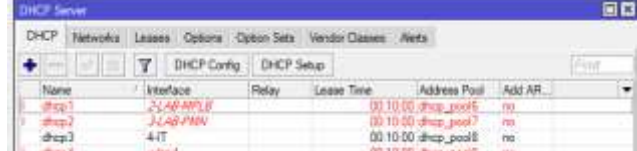


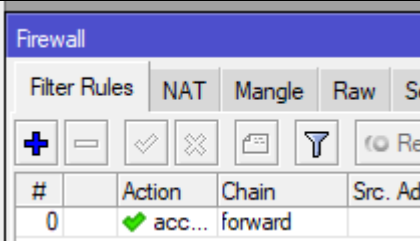
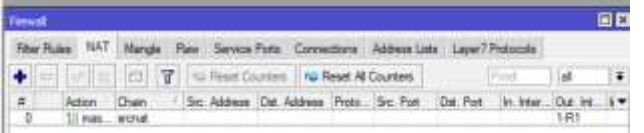


DOKUMENTASI LEMBAR KERJA MIKROTIK-3

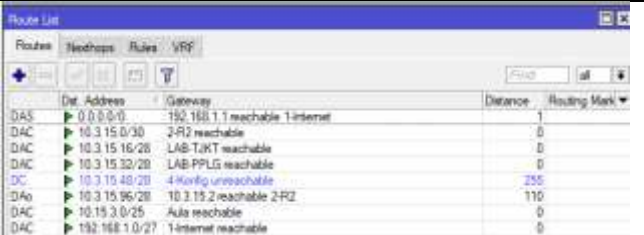
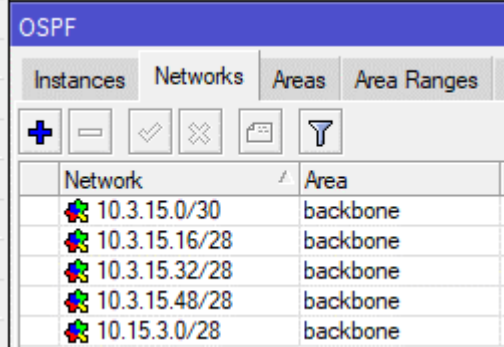

A. Hasil Konfigurasi Router2

No	Konfigurasi	Screenshot Hasil Konfigurasi																																																
1	Identity																																																	
2	Password																																																	
3	Interface	 <table><tr><th>Name</th><th>Type</th><th>Actual MTU</th><th>L2 MTU</th><th>Tx</th><th>Rx</th></tr><tr><td>1-R1</td><td>Ethernet</td><td>1500</td><td>1500</td><td>4.1 kbps</td><td>1.1 kbps</td></tr><tr><td>2-LAB-MPLB</td><td>Ethernet</td><td>1500</td><td>1500</td><td>0 bps</td><td>0 bps</td></tr><tr><td>3-LAB-PMN</td><td>Ethernet</td><td>1500</td><td>1500</td><td>0 bps</td><td>0 bps</td></tr><tr><td>4-IT</td><td>Ethernet</td><td>1500</td><td>1500</td><td>72.1 kbps</td><td>0 bps</td></tr><tr><td>ovn-line1</td><td>PWR</td><td>1500</td><td>1500</td><td>0 bps</td><td>0 bps</td></tr><tr><td>Ruang Meeting</td><td>Wireless (Atheros ARS...</td><td>1500</td><td>1500</td><td>0 bps</td><td>0 bps</td></tr><tr><td>wlan1</td><td>Wireless (Atheros ARS...</td><td>1500</td><td>1500</td><td>0 bps</td><td>0 bps</td></tr></table>	Name	Type	Actual MTU	L2 MTU	Tx	Rx	1-R1	Ethernet	1500	1500	4.1 kbps	1.1 kbps	2-LAB-MPLB	Ethernet	1500	1500	0 bps	0 bps	3-LAB-PMN	Ethernet	1500	1500	0 bps	0 bps	4-IT	Ethernet	1500	1500	72.1 kbps	0 bps	ovn-line1	PWR	1500	1500	0 bps	0 bps	Ruang Meeting	Wireless (Atheros ARS...	1500	1500	0 bps	0 bps	wlan1	Wireless (Atheros ARS...	1500	1500	0 bps	0 bps
Name	Type	Actual MTU	L2 MTU	Tx	Rx																																													
1-R1	Ethernet	1500	1500	4.1 kbps	1.1 kbps																																													
2-LAB-MPLB	Ethernet	1500	1500	0 bps	0 bps																																													
3-LAB-PMN	Ethernet	1500	1500	0 bps	0 bps																																													
4-IT	Ethernet	1500	1500	72.1 kbps	0 bps																																													
ovn-line1	PWR	1500	1500	0 bps	0 bps																																													
Ruang Meeting	Wireless (Atheros ARS...	1500	1500	0 bps	0 bps																																													
wlan1	Wireless (Atheros ARS...	1500	1500	0 bps	0 bps																																													
4	DNS																																																	
5	IP Address	 <table><tr><th>Address</th><th>Network</th><th>Interface</th></tr><tr><td colspan="3">::: Backbone to R1</td></tr><tr><td>10.3.15.2/30</td><td>10.3.15.0</td><td>1-R1</td></tr><tr><td>10.3.15.65/28</td><td>10.3.15.64</td><td>2-LAB-MPLB</td></tr><tr><td>10.3.15.81/28</td><td>10.3.15.80</td><td>3-LAB-PMN</td></tr><tr><td>10.3.15.97/28</td><td>10.3.15.96</td><td>4-IT</td></tr><tr><td colspan="3">::: Ruang Meeting</td></tr><tr><td>10.15.3.129/25</td><td>10.15.3.128</td><td>wlan1</td></tr></table>	Address	Network	Interface	::: Backbone to R1			10.3.15.2/30	10.3.15.0	1-R1	10.3.15.65/28	10.3.15.64	2-LAB-MPLB	10.3.15.81/28	10.3.15.80	3-LAB-PMN	10.3.15.97/28	10.3.15.96	4-IT	::: Ruang Meeting			10.15.3.129/25	10.15.3.128	wlan1																								
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10.3.15.65/28	10.3.15.64	2-LAB-MPLB																																																
10.3.15.81/28	10.3.15.80	3-LAB-PMN																																																
10.3.15.97/28	10.3.15.96	4-IT																																																
::: Ruang Meeting																																																		
10.15.3.129/25	10.15.3.128	wlan1																																																
6	DHCP Server	 <table><tr><th>Name</th><th>Interface</th><th>Relay</th><th>Lease Time</th><th>Address Pool</th><th>Add AR...</th></tr><tr><td>dhcp1</td><td>2-LAB-MPLB</td><td></td><td>00:10:00</td><td>dhcp_pool5</td><td>no</td></tr><tr><td>dhcp2</td><td>3-LAB-PMN</td><td></td><td>00:10:00</td><td>dhcp_pool7</td><td>no</td></tr><tr><td>dhcp3</td><td>4-IT</td><td></td><td>00:10:00</td><td>dhcp_pool8</td><td>no</td></tr><tr><td>dhcp4</td><td>wlan1</td><td></td><td>00:10:00</td><td>dhcp_pool5</td><td>no</td></tr></table>	Name	Interface	Relay	Lease Time	Address Pool	Add AR...	dhcp1	2-LAB-MPLB		00:10:00	dhcp_pool5	no	dhcp2	3-LAB-PMN		00:10:00	dhcp_pool7	no	dhcp3	4-IT		00:10:00	dhcp_pool8	no	dhcp4	wlan1		00:10:00	dhcp_pool5	no																		
Name	Interface	Relay	Lease Time	Address Pool	Add AR...																																													
dhcp1	2-LAB-MPLB		00:10:00	dhcp_pool5	no																																													
dhcp2	3-LAB-PMN		00:10:00	dhcp_pool7	no																																													
dhcp3	4-IT		00:10:00	dhcp_pool8	no																																													
dhcp4	wlan1		00:10:00	dhcp_pool5	no																																													

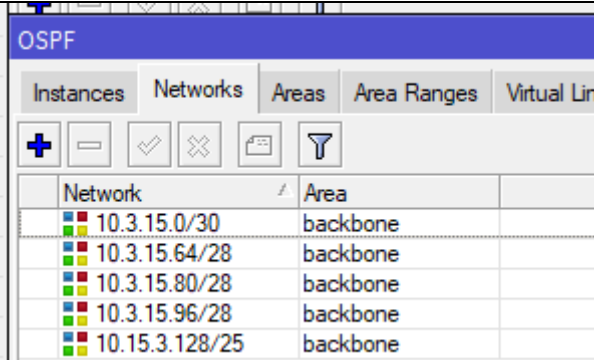




















No	Konfigurasi	Screenshot Hasil Konfigurasi
7	Firewall Filter	
8	Firewall NAT	

B. Hasil Konfigurasi Routing

No	Konfigurasi	Screenshot Hasil Konfigurasi
1	Router1	 
2	Router2	





No	Konfigurasi	Screenshot Hasil Konfigurasi																																							
		 <table><tr><th colspan="3">OSPF</th></tr><tr><th colspan="2">Instances</th><th>Networks</th><th>Areas</th><th>Area Ranges</th><th>Virtual Lin</th></tr><tr><td colspan="6"><div></div></td></tr><tr><th colspan="2">Network</th><th>Area</th><th></th></tr><tr><td colspan="2">10.3.15.0/30</td><td>backbone</td><td></td></tr><tr><td colspan="2">10.3.15.64/28</td><td>backbone</td><td></td></tr><tr><td colspan="2">10.3.15.80/28</td><td>backbone</td><td></td></tr><tr><td colspan="2">10.3.15.96/28</td><td>backbone</td><td></td></tr><tr><td colspan="2">10.15.3.128/25</td><td>backbone</td><td></td></tr></table>	OSPF			Instances		Networks	Areas	Area Ranges	Virtual Lin	<div></div>						Network		Area		10.3.15.0/30		backbone		10.3.15.64/28		backbone		10.3.15.80/28		backbone		10.3.15.96/28		backbone		10.15.3.128/25		backbone	
OSPF																																									
Instances		Networks	Areas	Area Ranges	Virtual Lin																																				
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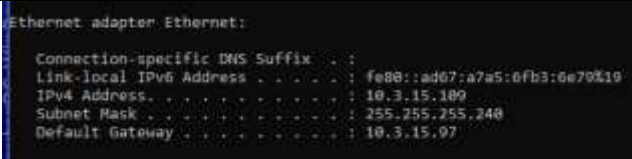
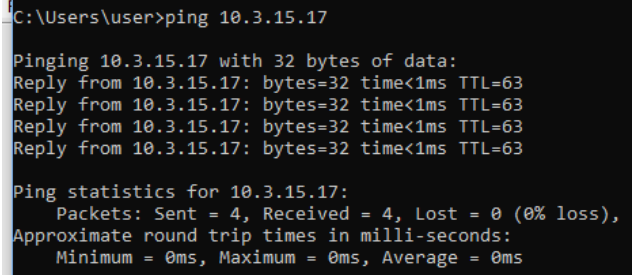
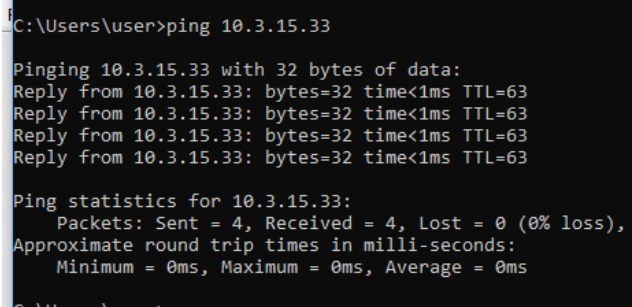
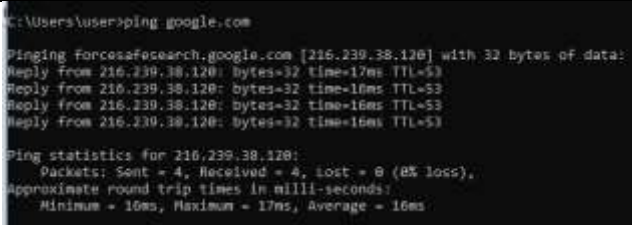
C. Hasil Ujicoba

No	Ujicoba	Screenshot Hasil Ujicoba
1	IP Address LAB-MPLB	 <pre>Ethernet adapter Ethernet: Connection-specific DNS Suffix . : Link-local IPv6 Address : fe80::ad67:a7a5:6fb3:6e79%19 IPv4 Address. : 10.3.15.78 Subnet Mask : 255.255.255.240 Default Gateway : 10.3.15.65</pre>
2	Ping ke IP 10.xx.yy.17	 <pre>C:\Users\user>ping 10.3.15.17 Pinging 10.3.15.17 with 32 bytes of data: Reply from 10.3.15.17: bytes=32 time<1ms TTL=63 Reply from 10.3.15.17: bytes=32 time<1ms TTL=63 Reply from 10.3.15.17: bytes=32 time<1ms TTL=63 Reply from 10.3.15.17: bytes=32 time<1ms TTL=63 Ping statistics for 10.3.15.17: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 0ms, Average = 0ms</pre>
3	Ping ke IP 10.xx.yy.33	 <pre>C:\Users\user>ping 10.3.15.33 Pinging 10.3.15.33 with 32 bytes of data: Reply from 10.3.15.33: bytes=32 time<1ms TTL=63 Reply from 10.3.15.33: bytes=32 time<1ms TTL=63 Reply from 10.3.15.33: bytes=32 time<1ms TTL=63 Reply from 10.3.15.33: bytes=32 time<1ms TTL=63 Ping statistics for 10.3.15.33: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 0ms, Average = 0ms</pre>
4	Ping ke google.com	 <pre>C:\Users\user>ping google.com Pinging forcesafesearch.google.com [216.239.38.120] with 32 bytes of data: Reply from 216.239.38.120: bytes=32 time=16ms TTL=53 Reply from 216.239.38.120: bytes=32 time=16ms TTL=53 Reply from 216.239.38.120: bytes=32 time=16ms TTL=53 Reply from 216.239.38.120: bytes=32 time=16ms TTL=53 Ping statistics for 216.239.38.120: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 16ms, Maximum = 16ms, Average = 16ms</pre>



No	Ujicoba	Screenshot Hasil Ujicoba
5	Hasil browsing	
6	IP Address LAB-PMN	<pre>Ethernet adapter Ethernet: Connection-specific DNS Suffix . : Link-local IPv6 Address : fe80::ad67:a7a5:6fb3:6e79%19 IPv4 Address. : 10.3.15.94 Subnet Mask : 255.255.255.240 Default Gateway : 10.3.15.81</pre>
7	Ping ke IP 10.xx.yy.17	<pre>Pinging 10.3.15.17 with 32 bytes of data: Reply from 10.3.15.17: bytes=32 time<1ms TTL=63 Reply from 10.3.15.17: bytes=32 time<1ms TTL=63 Reply from 10.3.15.17: bytes=32 time<1ms TTL=63 Reply from 10.3.15.17: bytes=32 time<1ms TTL=63 Ping statistics for 10.3.15.17: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 0ms, Average = 0ms C:\Users\User></pre>
8	Ping ke IP 10.xx.yy.33	<pre>C:\Users\User>ping 10.3.15.33 Pinging 10.3.15.33 with 32 bytes of data: Reply from 10.3.15.33: bytes=32 time<1ms TTL=63 Reply from 10.3.15.33: bytes=32 time<1ms TTL=63 Reply from 10.3.15.33: bytes=32 time<1ms TTL=63 Reply from 10.3.15.33: bytes=32 time=1ms TTL=63 Ping statistics for 10.3.15.33: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 1ms, Average = 0ms</pre>
9	Ping ke google.com	<pre>C:\Users\User>ping google.com Pinging forcesafesearch.google.com [216.239.38.120] with 32 bytes of data: Reply from 216.239.38.120: bytes=32 time=10ms TTL=53 Reply from 216.239.38.120: bytes=32 time=10ms TTL=53 Reply from 216.239.38.120: bytes=32 time=10ms TTL=53 Reply from 216.239.38.120: bytes=32 time=10ms TTL=53 Ping statistics for 216.239.38.120: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 10ms, Maximum = 10ms, Average = 10ms</pre>
10	Hasil browsing	



No	Ujicoba	Screenshot Hasil Ujicoba
11	IP Address IT	
12	Ping ke IP 10.xx.yy.17	
13	Ping ke IP 10.xx.yy.33	
14	Ping ke google.com	
15	Hasil browsing	