

**DOKUMENTASI LEMBAR KERJA PNETLAB-3****A. Hasil Konfigurasi Router2**

No	Konfigurasi	Screenshot Hasil Konfigurasi
1	Identity	<pre>[admin@MikroTik] &gt; system/identity/set name=RB2-15 [admin@RB2-15] &gt; </pre>
2	Password	<pre>old-password: ***** new-password: ***** confirm-new-password: *****</pre>
3	Interface	<pre>[admin@RB2-15] &gt; interface/print Flags: R - RUNNING Columns: NAME, TYPE, ACTUAL-MTU, MAC-ADDRESS # NAME TYPE ACTUAL-MTU MAC-ADDRESS ;;; R1 0 R ether1 ether 1500 50:30:8A:01:CB:00 ;;; LAB-MPLB 1 R ether2 ether 1500 50:30:8A:01:CB:01 ;;; LAB-PM 2 R ether3 ether 1500 50:30:8A:01:CB:02 3 R ether4 ether 1500 50:30:8A:01:CB:03</pre>
4	DNS	<pre>[admin@RB2-15] &gt; /ip dns/print servers: dynamic-servers: use-doh-server: verify-doh-cert: no allow-remote-requests: yes max-udp-packet-size: 4096 query-server-timeout: 2s query-total-timeout: 10s max-concurrent-queries: 100 max-concurrent-tcp-sessions: 20 cache-size: 2048KiB cache-max-ttl: 1w cache-used: 28KiB</pre>
5	IP Address	<pre>[admin@RB2-15] /ip/address&gt; print Columns: ADDRESS, NETWORK, INTERFACE # ADDRESS NETWORK INTERFACE ;;; R1 0 10.3.15.2/30 10.3.15.0 ether1 ;;; LAB-MPLB 1 10.3.15.65/28 10.3.15.64 ether2 ;;; LAB-PMN 2 10.3.15.81/28 10.3.15.80 ether3</pre>
6	DHCP Server	<pre>[admin@RB2-15] /ip/dhcp-server&gt; print Columns: NAME, INTERFACE, ADDRESS-POOL, LEASE-TIME # NAME INTERFACE ADDRESS-POOL LEASE-TIME ;;; LAB-MPLB 0 dhcp1 ether2 dhcp_pool0 1h ;;; LAB-PMN 1 dhcp2 ether3 dhcp_pool1 1h [admin@RB2-15] /ip/dhcp-server&gt; </pre>
7	Firewall Filter	<pre>[admin@RB2-15] /ip/dhcp-server&gt; /ip/firewall/filter/print Flags: X - disabled, I - invalid; D - dynamic 0 chain=forward action=accept</pre>
8	Firewall NAT	<pre>Flags: X - disabled, I - invalid; D - dynamic 0 chain=srcnat action=masquerade out-interface=ether1</pre>

**B. Hasil Konfigurasi Routing**



No	Konfigurasi	Screenshot Hasil Konfigurasi
1	Router1	<pre>[admin@RB2-15] /ip/dhcp-server&gt; /ip/route/print Flags: D - DYNAMIC; A - ACTIVE; c, s, y - COPY Columns: DST-ADDRESS, GATEWAY, DISTANCE #   DST-ADDRESS   GATEWAY   DISTANCE 0   As 0.0.0.0/0   10.3.15.1   1    DAc 10.3.15.0/30 ether1      0    DAc 10.3.15.64/28 ether2      0    DAc 10.3.15.80/28 ether3      0</pre>
2	Router2	<pre>[admin@RB2-15] /ip/dhcp-server&gt; /ip/route/print Flags: D - DYNAMIC; A - ACTIVE; c, s, y - COPY Columns: DST-ADDRESS, GATEWAY, DISTANCE #   DST-ADDRESS   GATEWAY   DISTANCE 0   As 0.0.0.0/0   10.3.15.1   1    DAc 10.3.15.0/30 ether1      0    DAc 10.3.15.64/28 ether2      0    DAc 10.3.15.80/28 ether3      0</pre>

### C. Hasil Ujicoba

No	Ujicoba	Screenshot Hasil Ujicoba
1	IP Address LAB-MPLB	<pre>VPCS&gt; dhcp -r DORA IP 10.3.15.78/28 GW 10.3.15.65</pre>
2	Ping ke IP 10.xx.yy.17	<pre>VPCS&gt; ping 10.3.15.17 84 bytes from 10.3.15.17 icmp_seq=1 ttl=63 time=8.019 ms 84 bytes from 10.3.15.17 icmp_seq=2 ttl=63 time=4.857 ms 84 bytes from 10.3.15.17 icmp_seq=3 ttl=63 time=4.067 ms 84 bytes from 10.3.15.17 icmp_seq=4 ttl=63 time=4.830 ms 84 bytes from 10.3.15.17 icmp_seq=5 ttl=63 time=4.220 ms VPCS&gt;</pre>
3	Ping ke IP 10.xx.yy.33	<pre>VPCS&gt; ping 10.3.15.33 84 bytes from 10.3.15.33 icmp_seq=1 ttl=63 time=4.584 ms 84 bytes from 10.3.15.33 icmp_seq=2 ttl=63 time=4.043 ms 84 bytes from 10.3.15.33 icmp_seq=3 ttl=63 time=3.778 ms 84 bytes from 10.3.15.33 icmp_seq=4 ttl=63 time=4.216 ms 84 bytes from 10.3.15.33 icmp_seq=5 ttl=63 time=4.086 ms</pre>
4	Ping ke IP 10.yy.xx.1	<pre>VPCS&gt; ping 10.3.15.1 84 bytes from 10.3.15.1 icmp_seq=1 ttl=63 time=4.522 ms 84 bytes from 10.3.15.1 icmp_seq=2 ttl=63 time=3.695 ms 84 bytes from 10.3.15.1 icmp_seq=3 ttl=63 time=3.827 ms 84 bytes from 10.3.15.1 icmp_seq=4 ttl=63 time=3.920 ms 84 bytes from 10.3.15.1 icmp_seq=5 ttl=63 time=3.471 ms</pre>
5	Ping ke google.com	<pre>VPCS&gt; ping google.com google.com resolved to 74.125.130.101 84 bytes from 74.125.130.101 icmp_seq=1 ttl=103 time=21.528 ms 84 bytes from 74.125.130.101 icmp_seq=2 ttl=103 time=22.148 ms 84 bytes from 74.125.130.101 icmp_seq=3 ttl=103 time=21.981 ms 84 bytes from 74.125.130.101 icmp_seq=4 ttl=103 time=46.399 ms 84 bytes from 74.125.130.101 icmp_seq=5 ttl=103 time=44.734 ms</pre>
6	IP Address LAB-PMN	<pre>VPCS&gt; dhcp -r DORA IP 10.3.15.94/28 GW 10.3.15.81</pre>
7	Ping ke IP 10.xx.yy.17	<pre>VPCS&gt; ping 10.3.15.17 84 bytes from 10.3.15.17 icmp_seq=1 ttl=63 time=3.112 ms 84 bytes from 10.3.15.17 icmp_seq=2 ttl=63 time=4.021 ms 84 bytes from 10.3.15.17 icmp_seq=3 ttl=63 time=3.722 ms 84 bytes from 10.3.15.17 icmp_seq=4 ttl=63 time=3.491 ms 84 bytes from 10.3.15.17 icmp_seq=5 ttl=63 time=3.607 ms</pre>



No	Ujicoba	Screenshot Hasil Ujicoba
8	Ping ke IP 10.xx.yy.33	<pre>VPCS&gt; ping 10.3.15.33  84 bytes from 10.3.15.33 icmp_seq=1 ttl=63 time=4.920 ms 84 bytes from 10.3.15.33 icmp_seq=2 ttl=63 time=24.452 ms 84 bytes from 10.3.15.33 icmp_seq=3 ttl=63 time=3.737 ms 84 bytes from 10.3.15.33 icmp_seq=4 ttl=63 time=3.822 ms 84 bytes from 10.3.15.33 icmp_seq=5 ttl=63 time=52.284 ms</pre>
9	Ping ke IP 10.yy.xx.1	<pre>VPCS&gt; ping 10.3.15.1  84 bytes from 10.3.15.1 icmp_seq=1 ttl=63 time=17.940 ms 84 bytes from 10.3.15.1 icmp_seq=2 ttl=63 time=8.749 ms 84 bytes from 10.3.15.1 icmp_seq=3 ttl=63 time=16.723 ms 84 bytes from 10.3.15.1 icmp_seq=4 ttl=63 time=73.714 ms 84 bytes from 10.3.15.1 icmp_seq=5 ttl=63 time=5.013 ms</pre>
10	Ping ke google.com	<pre>VPCS&gt; ping google.com google.com resolved to 74.125.130.113  84 bytes from 74.125.130.113 icmp_seq=1 ttl=55 time=27.184 ms 84 bytes from 74.125.130.113 icmp_seq=2 ttl=55 time=44.635 ms 84 bytes from 74.125.130.113 icmp_seq=3 ttl=55 time=37.224 ms 84 bytes from 74.125.130.113 icmp_seq=4 ttl=55 time=30.680 ms 84 bytes from 74.125.130.113 icmp_seq=5 ttl=55 time=270.602 ms</pre>
Buka terminal workstation 1		
11	Ping ke IP 10.xx.yy.65	<pre>VPCS&gt; ping 10.3.15.65  84 bytes from 10.3.15.65 icmp_seq=1 ttl=63 time=10.785 ms 84 bytes from 10.3.15.65 icmp_seq=2 ttl=63 time=15.042 ms 84 bytes from 10.3.15.65 icmp_seq=3 ttl=63 time=4.073 ms 84 bytes from 10.3.15.65 icmp_seq=4 ttl=63 time=49.514 ms 84 bytes from 10.3.15.65 icmp_seq=5 ttl=63 time=4.266 ms</pre>
12	Ping ke IP 10.xx.yy.81	<pre>VPCS&gt; ping 10.3.15.81  84 bytes from 10.3.15.81 icmp_seq=1 ttl=63 time=4.302 ms 84 bytes from 10.3.15.81 icmp_seq=2 ttl=63 time=4.520 ms 84 bytes from 10.3.15.81 icmp_seq=3 ttl=63 time=4.465 ms 84 bytes from 10.3.15.81 icmp_seq=4 ttl=63 time=4.146 ms 84 bytes from 10.3.15.81 icmp_seq=5 ttl=63 time=3.848 ms</pre>
Buka terminal workstation 4		
13	Ping ke IP 10.xx.yy.65	<pre>VPCS&gt; ping 10.3.15.65  84 bytes from 10.3.15.65 icmp_seq=1 ttl=63 time=3.928 ms 84 bytes from 10.3.15.65 icmp_seq=2 ttl=63 time=4.002 ms 84 bytes from 10.3.15.65 icmp_seq=3 ttl=63 time=3.758 ms 84 bytes from 10.3.15.65 icmp_seq=4 ttl=63 time=3.411 ms 84 bytes from 10.3.15.65 icmp_seq=5 ttl=63 time=4.088 ms</pre>
14	Ping ke IP 10.xx.yy.81	<pre>VPCS&gt; ping 10.3.15.81  84 bytes from 10.3.15.81 icmp_seq=1 ttl=63 time=3.733 ms 84 bytes from 10.3.15.81 icmp_seq=2 ttl=63 time=3.782 ms 84 bytes from 10.3.15.81 icmp_seq=3 ttl=63 time=3.842 ms 84 bytes from 10.3.15.81 icmp_seq=4 ttl=63 time=3.488 ms 84 bytes from 10.3.15.81 icmp_seq=5 ttl=63 time=4.357 ms</pre>