

## DAFTAR GAMBAR

---

Gambar 2- 1 Mikrotik Routerboard Wireless .....	7
Gambar 3- 1 Flowchart Akses Jaringan Hotspot.....	9
Gambar 3- 2 Topologi Jaringan Hotspot .....	10
Gambar 4- 1 Implementasi Sistem Hotspot.....	15
Gambar 4- 2 Menu Konfigurasi Winbox .....	16
Gambar 4- 3 Ether1 dan WLAN1 Address List .....	16
Gambar 4- 4 DHCP Server Interface.....	17
Gambar 4- 5 DHCP Address Space dan Server Gateway.....	17
Gambar 4- 6 IP Range DHCP Server .....	17
Gambar 4- 7 IP DNS Server dan Konfigurasi DHCP Server Berhasil .....	18
Gambar 4- 8 Konfigurasi DNS Server .....	18
Gambar 4- 9 Hotspot Interface .....	19
Gambar 4- 10 Local Address Hotspot .....	19
Gambar 4- 11 Address Pool Hotspot .....	19
Gambar 4- 12 IP DNS Server Hotspot .....	20
Gambar 4- 13 DNS Name Hotspot dan Konfigurasi Hotspot Berhasil .....	20
Gambar 4- 14 Konfigurasi Hotspot Profiles .....	20
Gambar 4- 15 Konfigurasi Login Hotspot Profiles.....	21
Gambar 4- 16 Konfigurasi Radius Hotspot Profiles.....	21
Gambar 4- 17 Konfigurasi Radius.....	22
Gambar 4- 18 Login Usermanager .....	22
Gambar 4- 19 Konfigurasi Router Usermanager.....	23
Gambar 4- 20 Profiles Unlimited-2Jam.....	23
Gambar 4- 21 Limitation Unlimited-2Jam.....	24
Gambar 4- 22 Hasil Profile Unlimited-2Jam.....	25
Gambar 4- 23 Konfigurasi SSID Mikrotik.....	26
Gambar 4- 24 USB Tethering Smartphone Android.....	26
Gambar 4- 25 DHCP Client Winbox.....	27
Gambar 4- 26 Menu General Values ReadyVoucher .....	27
Gambar 4- 27 Menu User-manager Profiles ReadyVoucher .....	28
Gambar 4- 28 Generate ReadyVoucher .....	28
Gambar 4- 29 Print ReadyVoucher .....	29
Gambar 4- 30 Save ReadyVoucher dan Hasil Generate ReadyVoucher .....	29
Gambar 4- 31 Koneksi Readyvoucher .....	30
Gambar 4- 32 Generate Voucher Unlimited-2Jam .....	30
Gambar 4- 33 Hasil Generate User .....	31
Gambar 4- 34 Voucher ReadyVoucher .....	32
Gambar 4- 35 Otentikasi Username dan Password Smartphone .....	32

Gambar 4- 36 Otentikasi Username dan Password Laptop.....	32
Gambar 4- 37 Status Login Smartphone.....	33
Gambar 4- 38 Status Login Laptop.....	33
Gambar 4- 39 Grafik Upload dan Download Unlimited-2Jam .....	34
Gambar 4- 40 Kecepatan Rata-rata Unlimited-2Jam.....	35
Gambar 4- 41 Grafik Upload dan Download Unlimited-4Jam .....	35
Gambar 4- 42 Kecepatan Rata-rata Unlimited-4Jam.....	36
Gambar 4- 43 Grafik Upload dan Download Unlimited-6Jam .....	36
Gambar 4- 44 Kecepatan Rata-rata Unlimited-6Jam.....	37
Gambar 4- 45 Grafik Upload dan Download Limited-100MB.....	37
Gambar 4- 46 Kecepatan Rata-rata Limited-100MB.....	38
Gambar 4- 47 Grafik Upload dan Download Limited-100MB.....	38
Gambar 4- 48 Kecepatan Rata-rata Limited-100MB.....	39
Gambar 4- 49 Grafik 3 User Streaming Unlimited User 1.....	40
Gambar 4- 50 Kecepatan Rata-rata 3 User Unlimited User 1.....	41
Gambar 4- 51 Grafik 3 User Streaming Unlimited User 2.....	41
Gambar 4- 52 Kecepatan Rata-rata 3 User Unlimited User 2.....	42
Gambar 4- 53 Grafik 3 User Streaming Unlimited User 3.....	42
Gambar 4- 54 Kecepatan Rata-rata 3 User Unlimited User 3.....	43
Gambar 4- 55 Grafik 3 User Streaming Limited User 1.....	44
Gambar 4- 56 Kecepatan Rata-rata 3 User Unlimited User 1.....	44
Gambar 4- 57 Grafik 3 User Streaming Limited User 2.....	45
Gambar 4- 58 Kecepatan Rata-rata 3 User Unlimited User 2.....	45
Gambar 4- 59 Grafik 3 User Streaming Limited User 3.....	46
Gambar 4- 60 Kecepatan Rata-rata 3 User Unlimited User 3.....	46
Gambar 4- 61 Grafik 5 User Streaming Unlimited User 1.....	48
Gambar 4- 62 Kecepatan Rata-rata 5 User Unlimited User 1.....	48
Gambar 4- 63 Grafik 5 User Streaming Unlimited User 2.....	49
Gambar 4- 64 Kecepatan Rata-rata 5 User Unlimited User 2.....	49
Gambar 4- 65 Grafik 5 User Streaming Unlimited User 3.....	50
Gambar 4- 66 Kecepatan Rata-rata 5 User Unlimited User 3.....	50
Gambar 4- 67 Grafik 5 User Streaming Unlimited User 4.....	51
Gambar 4- 68 Kecepatan Rata-rata 5 User Unlimited User 4.....	51
Gambar 4- 69 Grafik 5 User Streaming Unlimited User 5.....	52
Gambar 4- 70 Kecepatan Rata-rata 5 User Unlimited User 5.....	52
Gambar 4- 71 Grafik 5 User Streaming Limited User 1.....	53
Gambar 4- 72 Kecepatan Rata-rata 5 User Unlimited User 1.....	54
Gambar 4- 73 Grafik 5 User Streaming Limited User 2.....	54
Gambar 4- 74 Kecepatan Rata-rata 5 User Unlimited User 2.....	55
Gambar 4- 75 Grafik 5 User Streaming Limited User 3.....	55
Gambar 4- 76 Kecepatan Rata-rata 5 User Unlimited User 3.....	56
Gambar 4- 77 Grafik 5 User Streaming Unlimited User 4.....	56

Gambar 4- 78 Kecepatan Rata-rata 5 User Unlimited User 4.....	57
Gambar 4- 79 Grafik 5 User Streaming Unlimited User 5.....	57
Gambar 4- 80 Kecepatan Rata-rata 5 User Unlimited User 5.....	58