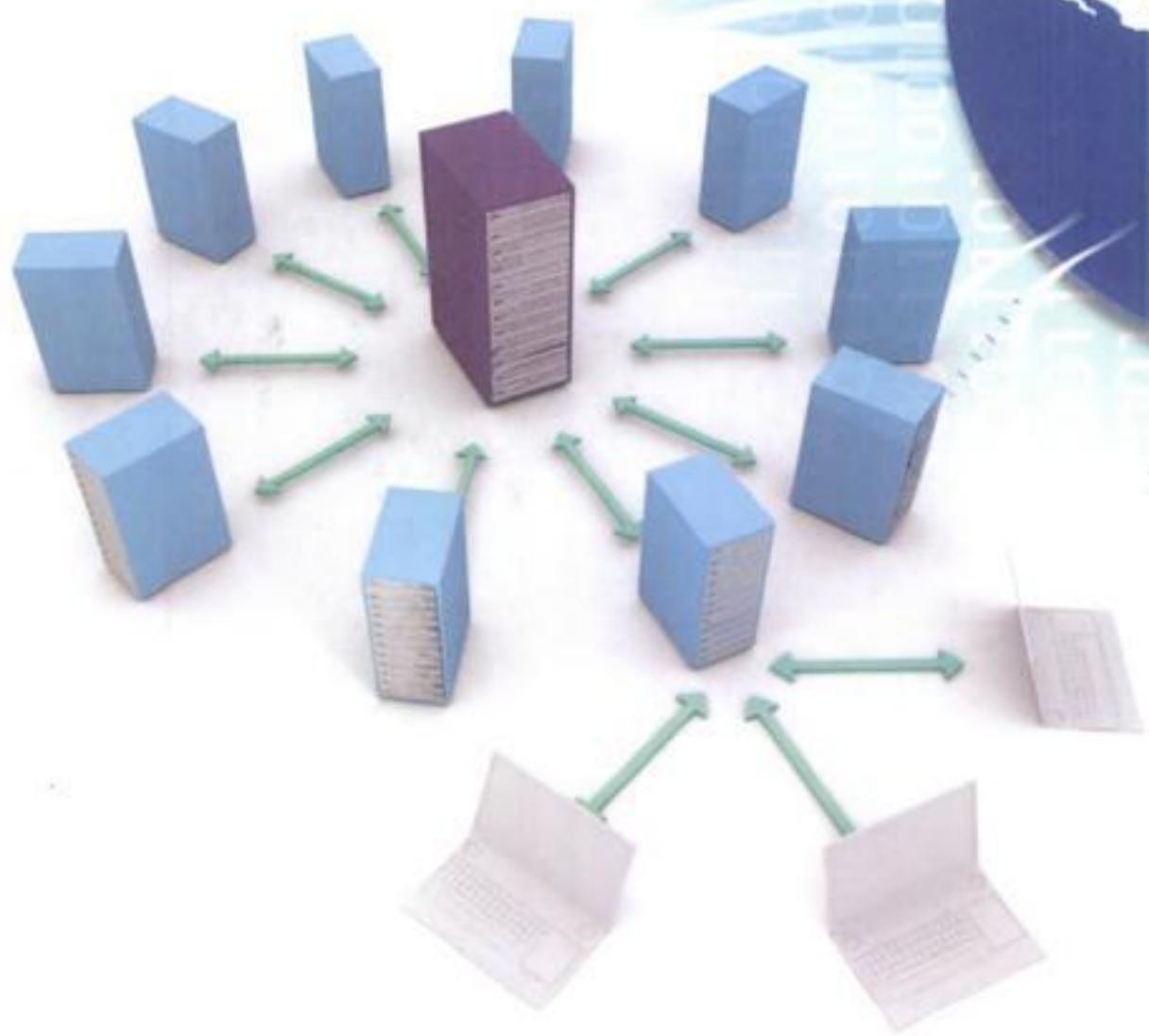


# 60

# Teknik Optimasi Jaringan Komputer

Router Linksys  
Remote IP Address  
WiFi  
wireless



Ali Zaki & SmitDeu Community

## **60 Teknik Optimasi Jaringan Komputer**

Ali Zaki dan SmitDev Community

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# Daftar Isi

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Kata Pengantar .....	v
Daftar Isi.....	vii

<b>1</b>	<b>Memperkuat Sinyal WiFi .....</b>	<b>1</b>
2	Membuat Kabel Jaringan .....	5
<b>3</b>	<b>Mengamankan Jaringan Wireless di Rumah.....</b>	<b>11</b>
4	Mengatur Wireless Network di Linux.....	15
5	Cara Mudah Setting up VPN.....	19
<b>6</b>	<b>Menambahkan Buku Alamat ke Spacelocker .....</b>	<b>29</b>
7	Menambahkan Printer ke Jaringan Wireless.....	33
8	Menghindari Kesalahan-Kesalahan dalam Jaringan.....	35
<b>9</b>	<b>Menjadi Teknisi Jaringan .....</b>	<b>39</b>
10	Meningkatkan Sinyal Router.....	41
11	Membangun Antenna WiFi Biaya Rendah .....	45
<b>12</b>	<b>Membeli Switch Jaringan .....</b>	<b>49</b>
<b>13</b>	<b>Menyalin Daftar Email dari Thunderbird .....</b>	<b>53</b>
<b>14</b>	<b>Mengubah Nama sebuah Wireless Network.....</b>	<b>57</b>
15	Chat Menggunakan LAN .....	61
<b>16</b>	<b>Konfigurasi DHCP di PC Anda .....</b>	<b>67</b>
<b>17</b>	<b>Konfigurasi Router Tanpa USB .....</b>	<b>69</b>
<b>18</b>	<b>Mengonfigurasi Router Linksys.....</b>	<b>71</b>
<b>19</b>	<b>Konfigurasi Router Menjadi DHCP Server .....</b>	<b>75</b>
20	Konfigurasi VPN Client di Windows 7 .....	79
21	Menghubungkan Satu Router dengan Lainnya untuk Perluasan Jaringan .....	81
22	Menghubungkan Dua Komputer dengan USB .....	83
<b>23</b>	<b>Setting Access Point Linksys WRT54G.....</b>	<b>93</b>
24	Membuat Mesin Penyaring Daftar Alamat di Home Router .....	99
25	Mengetahui Nama Pabrikan Asli LAN Card Anda .....	101
26	Membuat Jurnal Admin Jaringan .....	105
<b>27</b>	<b>Membuat Scope Baru di DHCP .....</b>	<b>109</b>



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# Memperkuat Sinyal WiFi

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WiFi atau jaringan nirkabel lazim ditemui di mana saja, dari mulai kafetaria, bengkel, kampus, hingga pom bensin. Kekuatan jaringannya tergantung kepada penerimaan sinyal oleh kartu jaringan wireless yang Anda miliki.



Gambar 1.1 Logo WiFi, wireless fidelity

Jika WiFi dipakai untuk hotspot untuk jaringan internet, sinyal yang menurun berkonsekuensi pada kecepatan browsing yang membuat stress. Karena itu jika sinyal WiFi Anda jelek, jangan putus asa dulu ada banyak cara yang bisa digunakan untuk memperkuat sinyal WiFi.

1. Apakah kartu jaringan wireless Anda mendukung antena eksternal atau dengan kata lain antena standarnya bisa dicopot dan diganti antena lain. Jika Ya, Anda bisa membeli antena omni dan



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dipakai di jaringan. Harganya bervariasi. Saat buku ini ditulis, misalnya kabel UTP satu box (biasanya 50 meter) dihargai 400 ribu hingga 1,1 juta rupiah. Mereknya bermacam-macam, dari mulai TP Link, Belden dan sebagainya.



Gambar 2.1 Satu box kabel UTP

- **Plug RJ-45:** Plug RJ ini adalah konektor yang menghubungkan kabel dengan ethernet atau dengan slot dari hub, switch, atau Access Point. RJ sendiri adalah singkatan dari *registered jack*. Harganya bervariasi, sekitar 50 ribu rupiah sampai 100 ribuan lebih per kotak. Satu kotak biasanya berisi 100 konektor.



Gambar 2.2 Plug jenis RJ 45



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# Mengamankan Jaringan Wireless di Rumah

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Jaringan wireless memang lebih rentan terhadap ancaman dibandingkan jaringan wired/berkabel. Karena jalur komunikasinya yang bebas, tiap orang bisa meng-interupsi koneksi dan bahkan bisa mendompleng koneksi wireless Anda. Akibatnya beragam, dari mulai pencurian data hingga mendompleng akses internet gratisan.

Berikut ini beberapa pedoman untuk melakukan pengamanan jaringan wireless:

1. Lakukan pengeditan di router/Access point yang Anda gunakan, buka browser Anda dan akses alamat administrasi router/AP. Masukkan password administrator hingga Anda bisa login ke jaringan wireless.
2. Aktifkan enkripsi di access point. Usahakan gunakan enkripsi 128 bit minimalnya, karena itu akan membuat jaringan wireless Anda lebih aman. Di bawah itu, akan beresiko.
3. Gunakan skema enkripsi WPA, karena WEP terbukti tidak aman. Enkripsi WPE mudah diterobos menggunakan tool-tool utility yang tersedia di internet secara gratis. Namun WPA kadang lebih sulit di-setting daripada WEP. Karena tidak semua access point mendukung WPA, maka saat membeli, pastikan AP Anda mendukung



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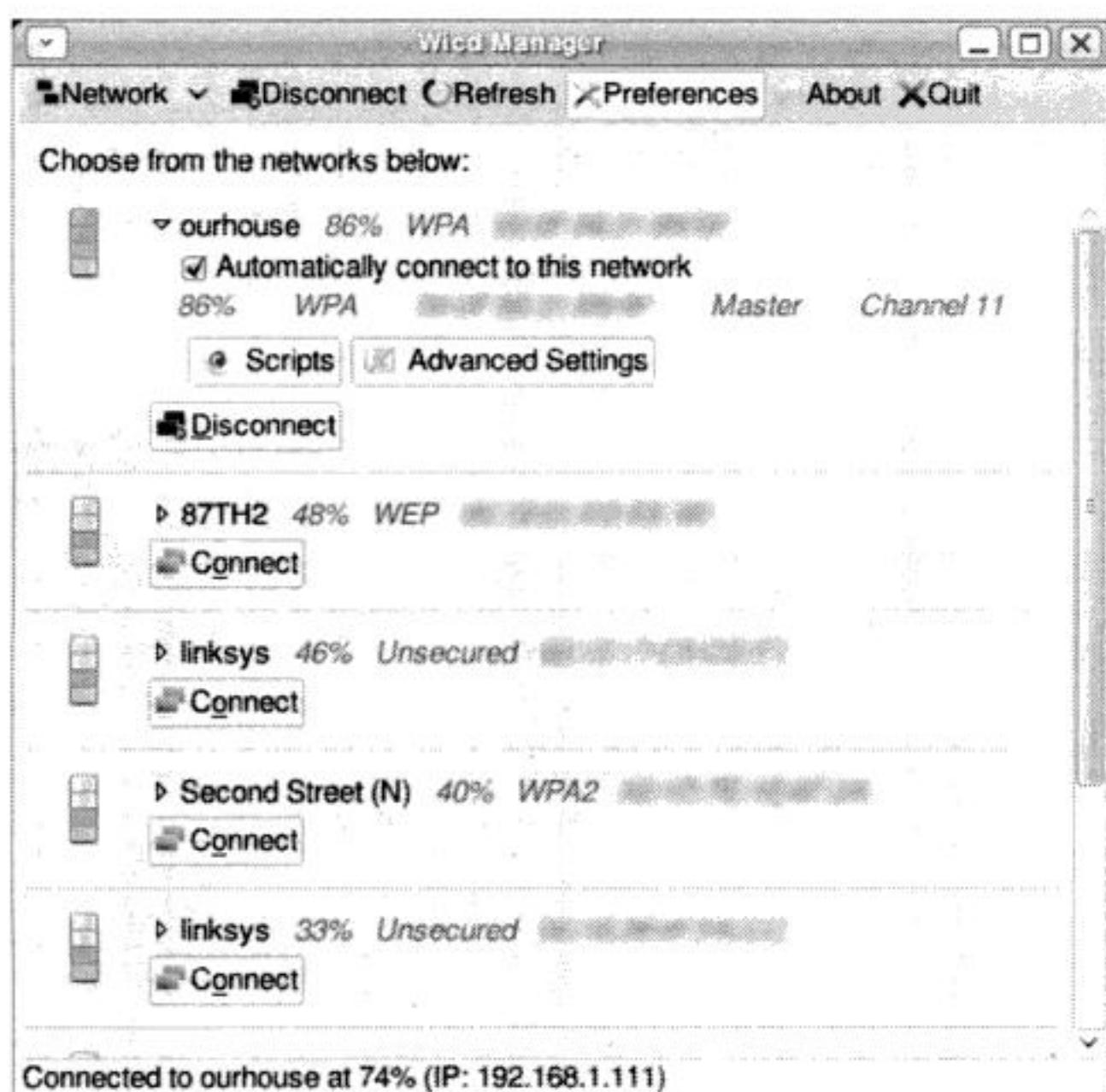
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Gambar 4.1 Memilih koneksi WiFi yang akan dihubungi



Gambar 4.2 Wicd memudahkan terhubung ke jaringan, bahkan yang menggunakan enkripsi WPA2



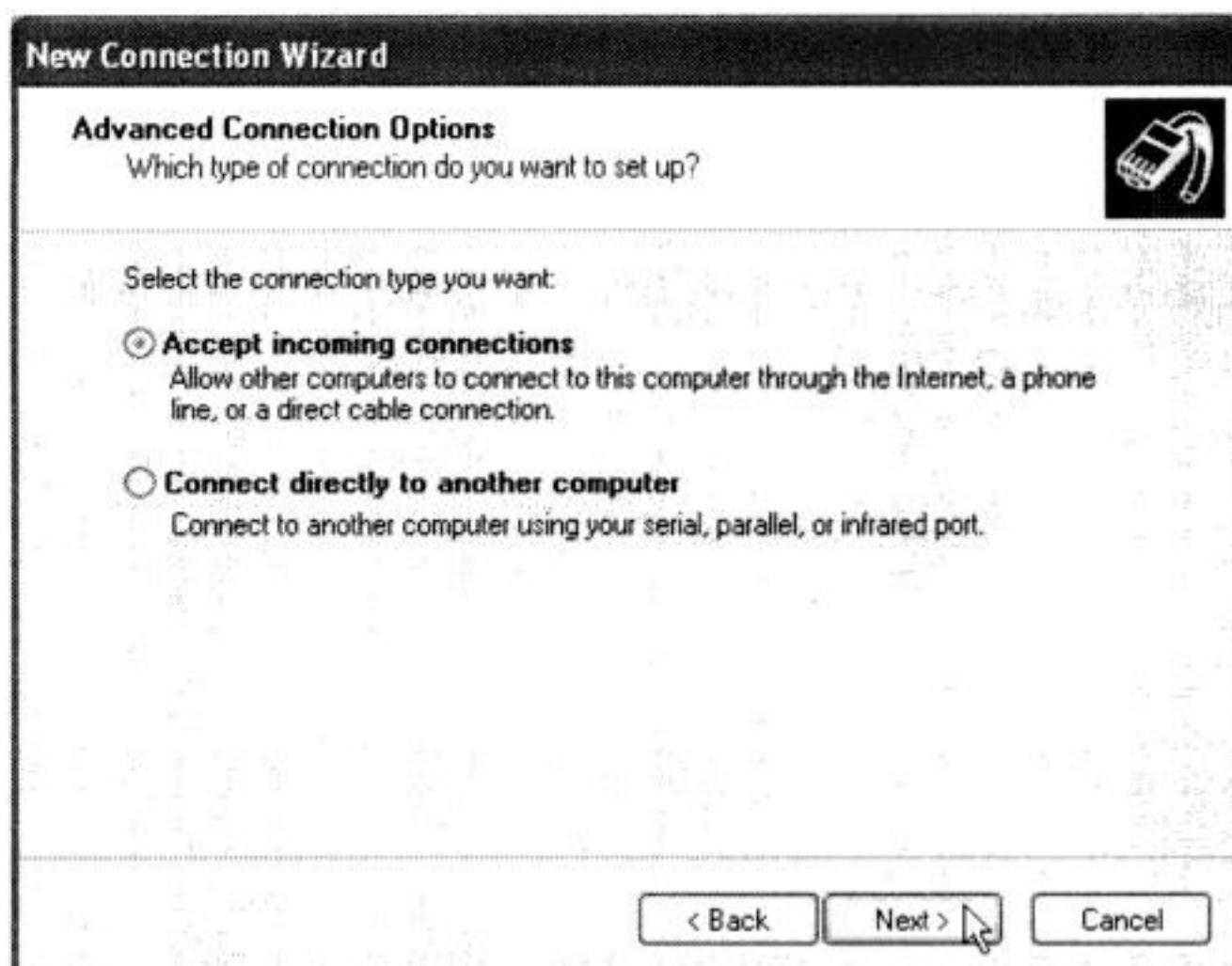
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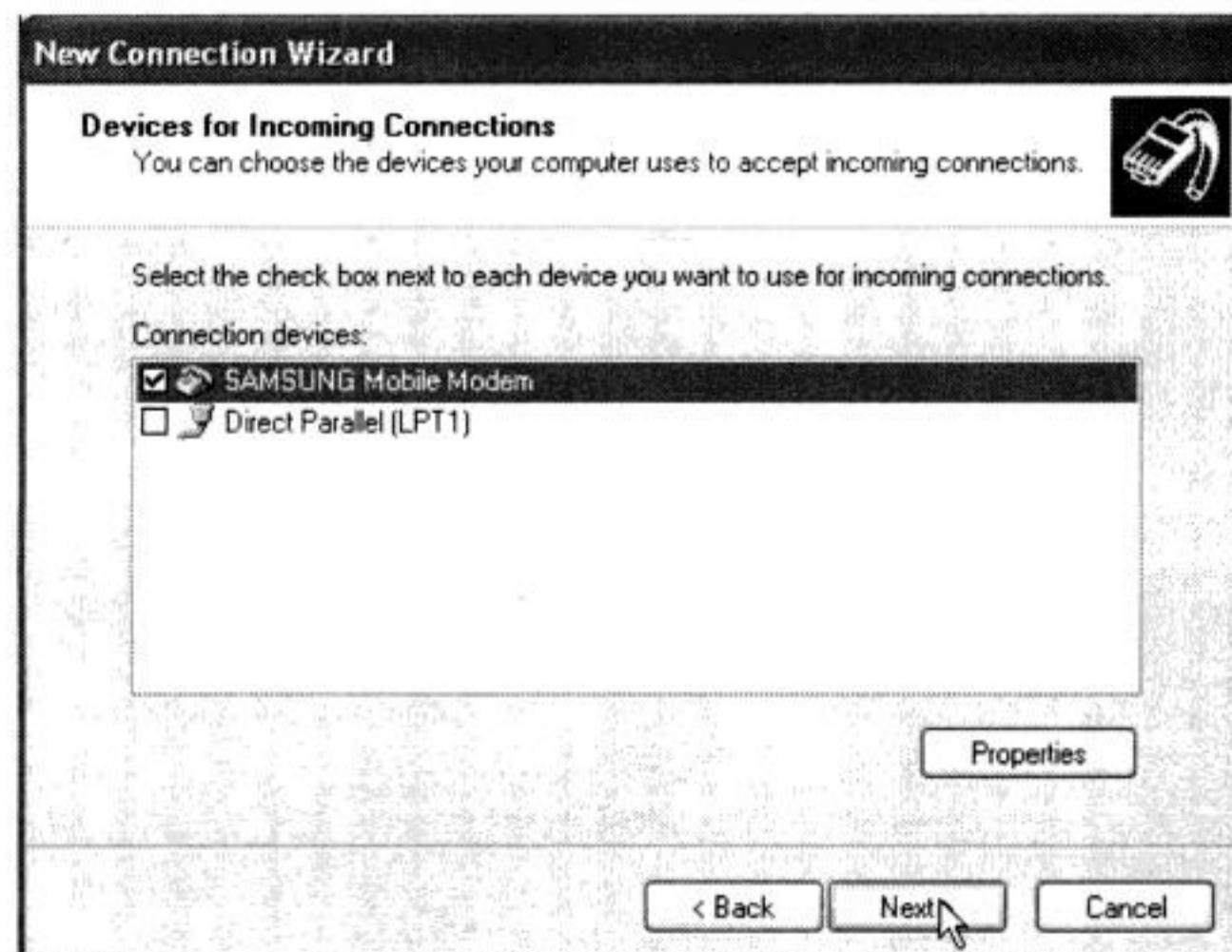


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Gambar 5.3 Opsi Accept Incoming connections

9. Muncul layar **Devices for Incoming Connections screen**. Anda tidak perlu mengubah apapun di layar ini, tinggal memilih koneksi yang akan dipilih. klik **Next**.



Gambar 5.4 Pemilihan koneksi untuk masuk ke server VPN



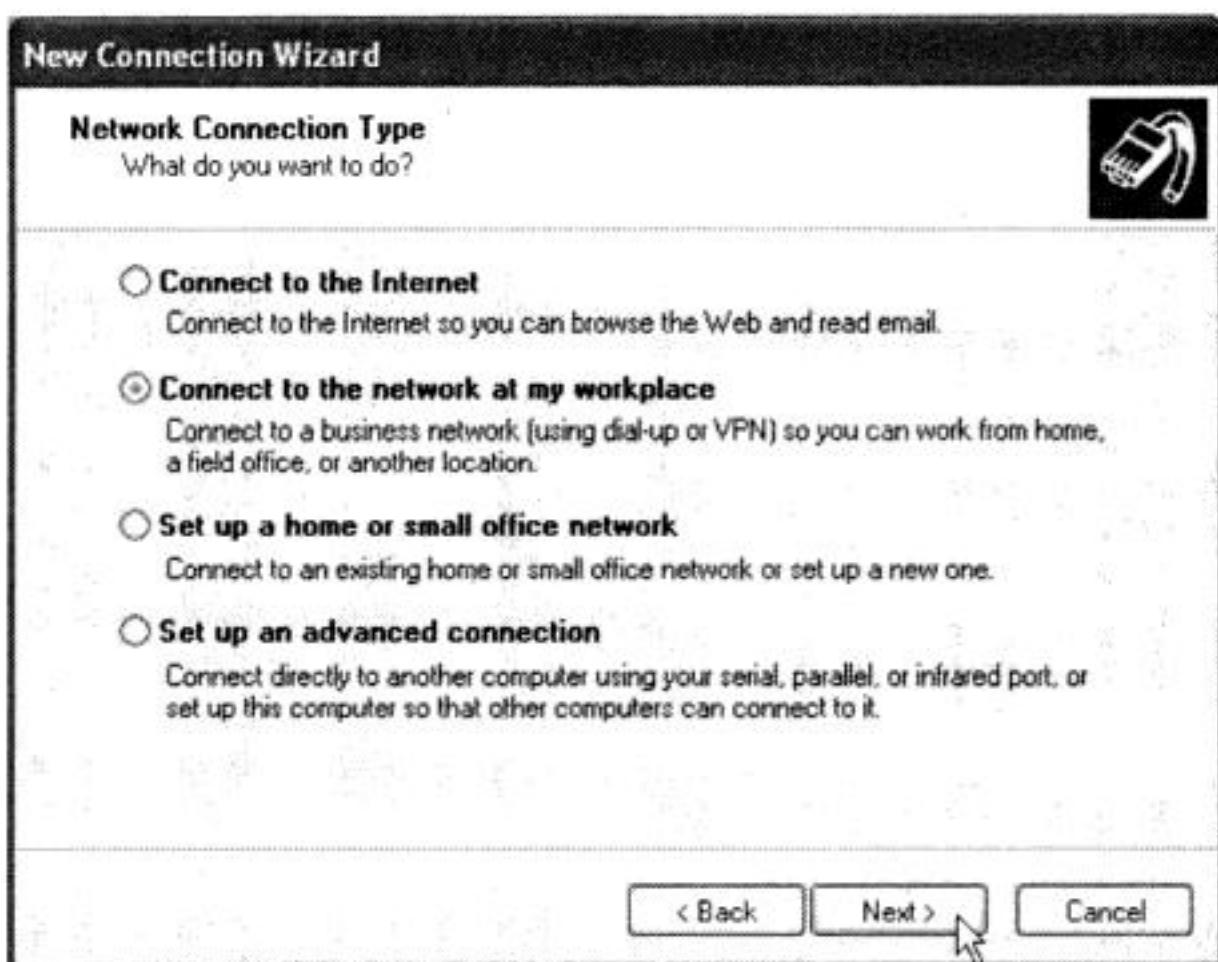
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Gambar 5.10 Pilih Connect to the network at my workplace

## 6. Pilih **Virtual Private Network** dan klik **Next**.



Gambar 5.11 Pemilihan Virtual Private Network untuk terkoneksi

## 7. Ketikkan nama network di kotak teks yang ada dan klik **Next**.



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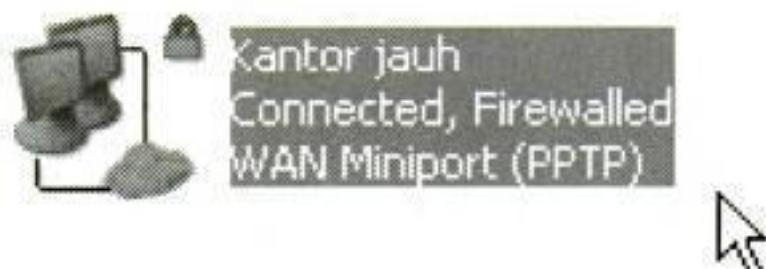


Gambar 5.15 Pengisian username dan password untuk VPN



Gambar 5.16 Pemberitahuan jika ada user terkoneksi ke VPN

### **Virtual Private Network**



Gambar 5.17 Koneksi di klien menunjukkan Connected

# 6

## Menambahkan Buku Alamat ke Spacelocker

---

Sebagai seorang yang berkecimpung di jaringan, Anda akan sering perlu menyimpan alamat email, seperti alamat email ISP, provider jaringan, supplier peralatan WiFi, dan sebagainya. Ada banyak tool yang bisa dimanfaatkan sebagai buku alamat. Tapi sebenarnya ada satu layanan yang bisa digunakan secara gratis dan dapat diakses online, sehingga Anda bisa mengakses buku alamat Anda di mana pun, tanpa harus membawa laptop.

Space locker adalah salah satu layanan aggregator online yang punya fitur bisa digunakan sebagai buku alamat untuk menyimpan alamat kontak teman-teman Anda. Dengan demikian, Anda akan bisa mengagregasi alamat email dan lain-lain dari beberapa akun secara tersentralisasi.

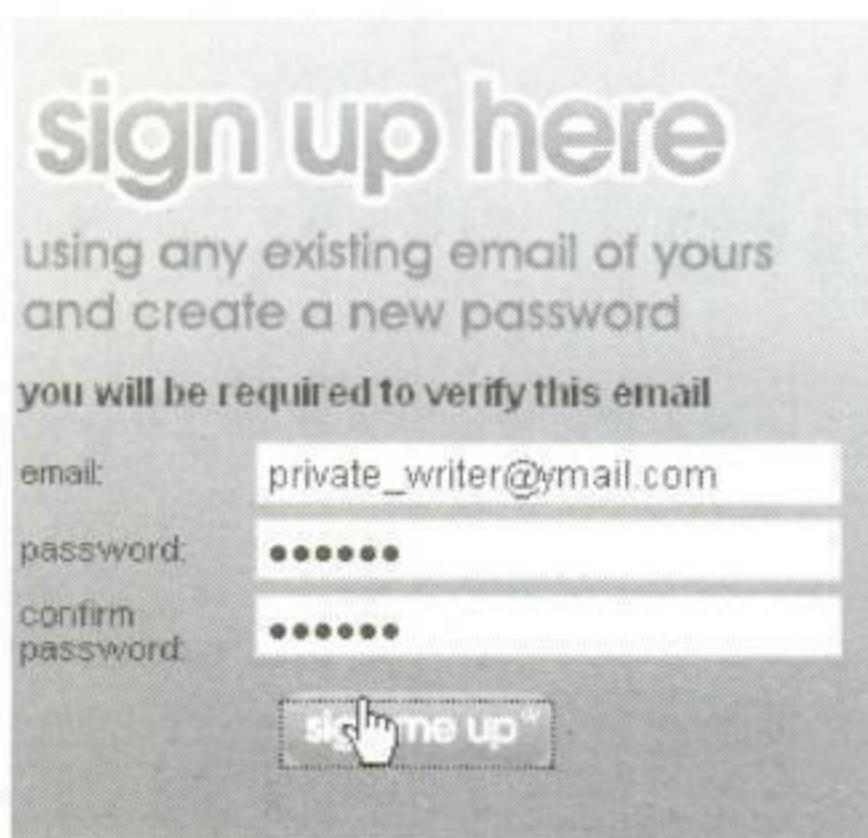
Berikut cara menambahkan buku alamat ke [spacelocker.com](http://spacelocker.com):

1. Daftarkan diri Anda terlebih dahulu dengan mengklik **Sign me up**.



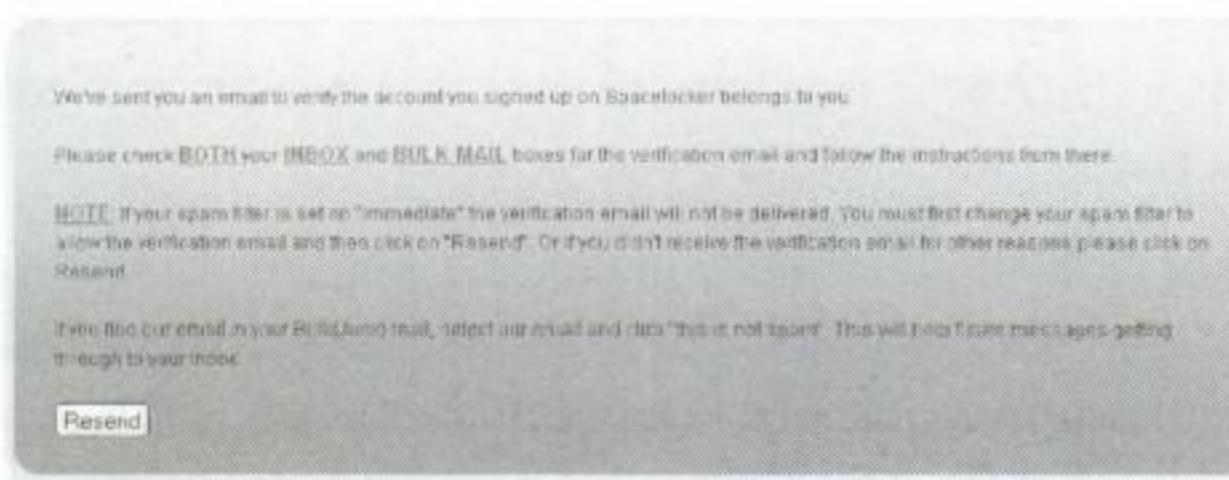
Gambar 6.1 Sign me up untuk menambahkan buku alamat ke spacelocker

2. Isikan alamat email dan password untuk login ke spacetlocker nantinya.



Gambar 6.2 Pengisian alamat email dan password untuk spacetlocker

3. Ada pemberitahuan pengiriman email untuk konfirmasi.



Gambar 6.3 Pemberitahuan email untuk konfirmasi

4. Klik pada link email konfirmasi tersebut.

Click on the link below to activate your account:

<http://www.spacetlocker.com/emailVerification.php?email=cHUpdmF0ZV93cmI0ZZJAcW1haWwuY29t&code=bjhT0GMr2DVFM3g&TzKNVA3tTdENnw0YjdINUE2TzZ3OU5=>

If the link is not clickable, copy and paste it into your browser's address bar.

Gambar 6.4 Klik pada email konfirmasi



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2. Jika Anda ingin langsung men-share printer tanpa meng-gunakan kabel, pastikan printer Anda mengandung kartu jaringan wireless juga. Namun jika tidak ada, dan hanya punya kartu jaringan kabel, Anda bisa langsung menancap-kannya ke Access point.
3. Hubungkan printer ke router/Access point. Hidupkan kedua-nya dan cek apakah router bisa mendeteksi printer. Jika printer tidak memiliki layar untuk menampilkan status, Anda harus mengaturnya di PC melalui slot USB printer. Jika printer Anda punya layar kecil, biasanya Anda bisa melihat status apakah printer Anda sudah dideteksi oleh access point, dan disebutkan nama wireless routernya, seperti airport, belkin, buffalo, d-link, linksys, netgear, verizon or zoom. Beberapa router/AP mensyaratkan adanya password, karena itu Anda harus melakukan setting tambahan di komputer untuk mem-perkenalkan printer ke AP/router.
4. Setelah printer terdeteksi di router, Anda bisa menghidupkan komputer, dan kemudian gabung ke jaringan wireless tempat printer tadi termasuk di dalamnya.
5. Printer Anda akan berstatus available dan bisa diakses di **Network Device > Network Printer > Print server**.
6. Jadi kesimpulannya, agar bisa melakukan sharing printer di jaringan wireless, Anda harus punya PC dengan WLAN adapter dan printer dengan kartu jaringan WLAN atau kartu jaringan biasa. Jika tidak ada keduanya, printer harus dihubungkan ke salah satu host komputer yang tergabung ke jaringan.



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# Menjadi Teknisi Jaringan

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Menjadi teknisi jaringan adalah keahlian yang sangat diperlukan, terutama di jaman era jaringan sekarang ini. Akan tetapi, ternyata banyak orang yang bingung ketika ingin menjadi teknisi jaringan. Berikut ini beberapa panduan menjadi teknisi jaringan komputer:

- Pertama, pelajarilah arsitektur dan desain jaringan.
- Kedua, pelajari cara kerja TCP/IP versi 4 dan versi 6, versi 6 adalah versi TCP/IP yang lebih advanced.
- Diakui atau tidak, sekarang ini infrastruktur jaringan ada brand-brand khusus yang biasa digunakan. Oleh karena itu, tidak salah jika Anda mengikuti kursus untuk memperoleh sertifikasi dalam penggunaan merek brand tertentu, seperti sertifikasi CCNA (*Cisco Certified Network Associate*). Anda akan belajar cara membuat jaringan LAN, dan internet. Serta Anda akan tahu cara mengonfigurasi router Cisco.
- Belajar konsep-konsep khusus, seperti subnetting, Access Control List, traffic shaping dan Network load balancing.
- Pelajari perbedaan antara berbagai arsitektur wireless, seperti 802.11a, 802.11b, 802.11g dan 802.11n.
- Belajar membuat kabel jaringan sendiri, seperti telah dijelaskan di awal buku ini. Anda harus bisa membedakan skema kabel straight dan cross over.



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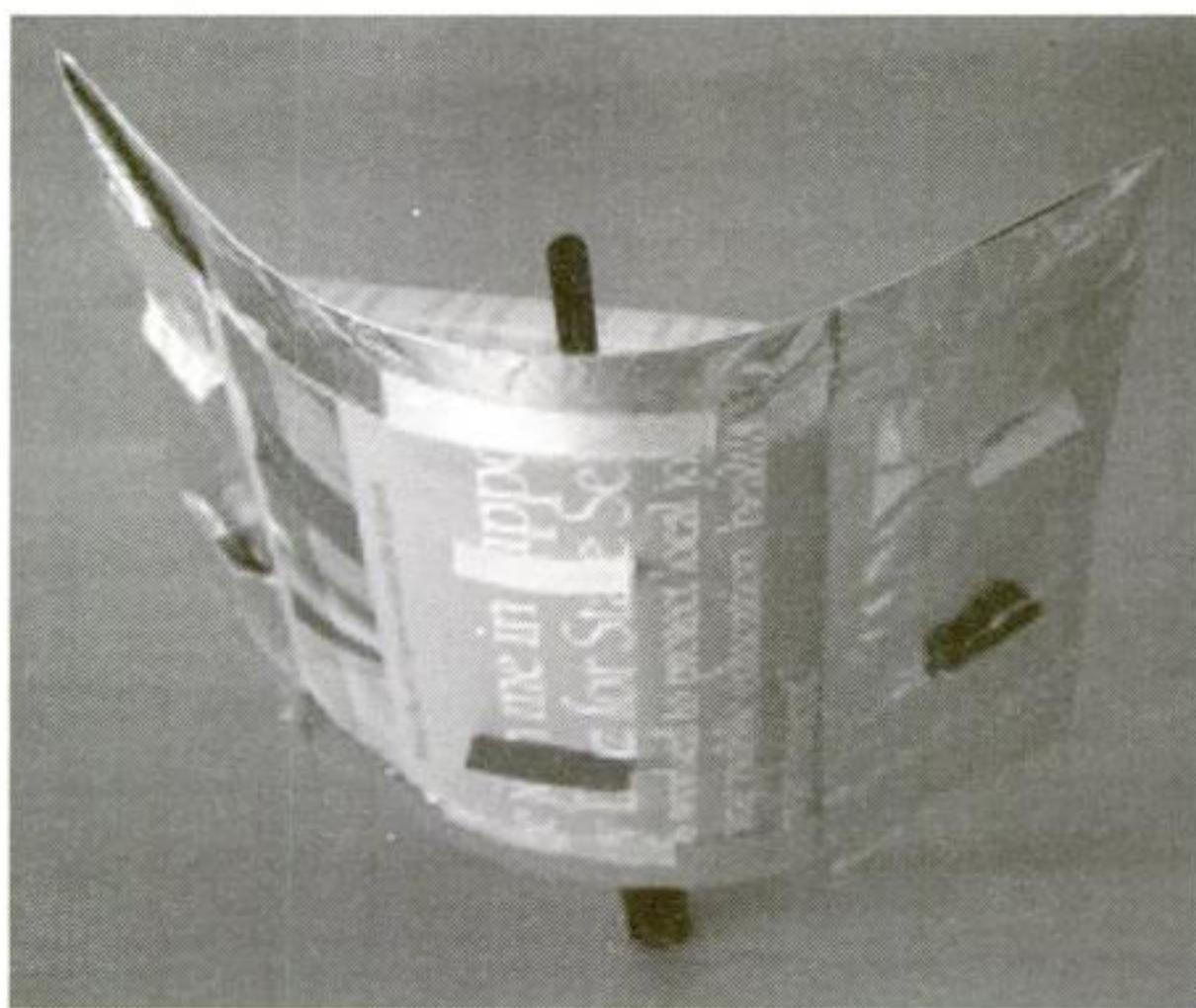


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11. Install Repeater, ini sama seperti teknik memperkuat sinyal WiFi.
12. Gunakan booster di router.
13. Buat parabolik kecil berbahan dari aluminium foil atau lapisan logam lainnya.
14. Letakkan parabolik di sekitar antena router, bagian dalamnya bisa diberi karton yang agak lebar agar bisa kaku.



Gambar 10.3 Parabolik buatan sendiri dengan karton dan aluminium foil



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# 12

## Membeli Switch Jaringan

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Switch jaringan adalah komponen yang cukup penting fungsinya, dan lazim diperlukan dalam jaringan berkabel. Harga switch bervariasi, dari mulai 100 ribu rupiah hingga ratusan juta untuk switch *high end* bermerek terkenal. Namun untuk kebutuhan standar, sepertinya switch tidak terlalu mahal.

Berikut ini beberapa hal yang perlu diperhatikan saat membeli switch jaringan:

- Pertimbangkan jumlah piranti yang akan didukung oleh jaringan. Jika misalnya di jaringan ada 5 atau 6 user saja, switch dengan jumlah port 8 biji sudah mencukupi. Menentukan jumlah port dari switch yang akan dibeli cukup penting karena jumlah port merupakan penentu harga switch yang cukup signifikan, semakin banyak jumlah port, harganya semakin mahal. Beberapa jumlah port standar di siwtch? Yang lazim adalah 5, 8, 10, 24, dan 48.
- Tentukan infrastruktur dasar jaringan. Untuk jaringan kecil dengan komputer sekitar 40 biji, sepertinya satu switch sudah cukup. Tapi jika jumlah piranti yang digabungkan semakin banyak, maka diperlukan switch tambahan.



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# 13

## Menyalin Daftar Email dari Thunderbird

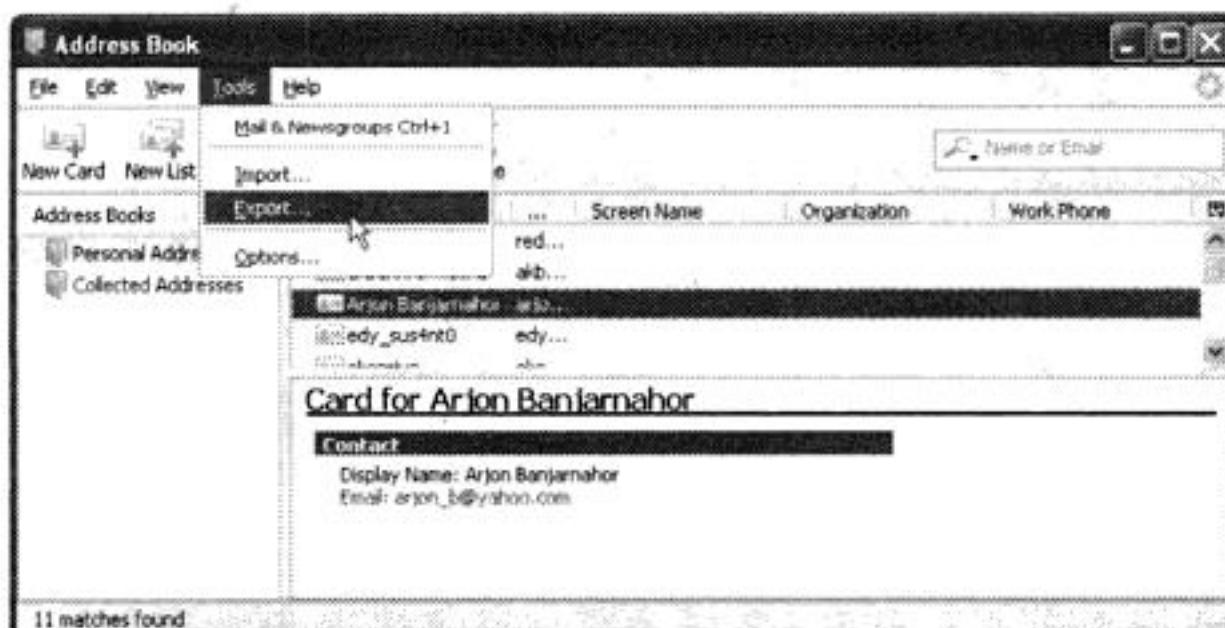
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Thunderbird adalah software yang sering digunakan sebagai email client dan kepopulerannya hampir menyamai Outlook. Saat ini Thunderbird sudah lazim digunakan sebagai pasangan Firefox untuk berinternet, jika berurusan dengan per-email-an.

Sebelumnya, Anda sudah belajar menyimpan email di spacetlocker. Untuk alamat-alamat email yang ada di thunderbird, Anda bisa menyalinnya dengan cara seperti berikut:

1. Buka Thunderbird.
2. Klik **Tools > Export**.



Gambar 13.1 Menu Tools > Export



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# 14

## Mengubah Nama sebuah Wireless Network

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Nama jaringan wireless atau SSID biasanya bawaan dari AP/router jika Anda belum menggantinya, dan hanya mengaktifkan AP/router saja. Untuk efektivitas jaringan, Anda bisa mengubah nama jaringan wireless ini agar anggota-anggota nanti bisa terhubung ke wireless.

Pengaturannya cukup mudah, hanya melalui perubahan settingan di AP/router. Berikut caranya:

1. Buka browser Anda, kemudian akses alamat ip dari router access point Anda. Yang normal misalnya 192.168.0.1, 192.168.1.1, 192.168.1.254, atau lainnya yang biasanya disebutkan di buku manual yang dibeli bersamaan dengan router.
2. Di halaman Basic Setup ini terdapat beberapa informasi tergantung kepada merek router AP yang Anda gunakan. Tapi kemungkinan besar terdapat rekap informasi-informasi penting seperti nama router, alamat ip dari router ini, dan informasi dasar lainnya.
3. Anda bisa membuka bagian **Wireless** yang biasanya meng-atur atribut wireless dari komputer. Di bagian Wireless inilah umumnya diletakkan fitur pengaturan SSID.



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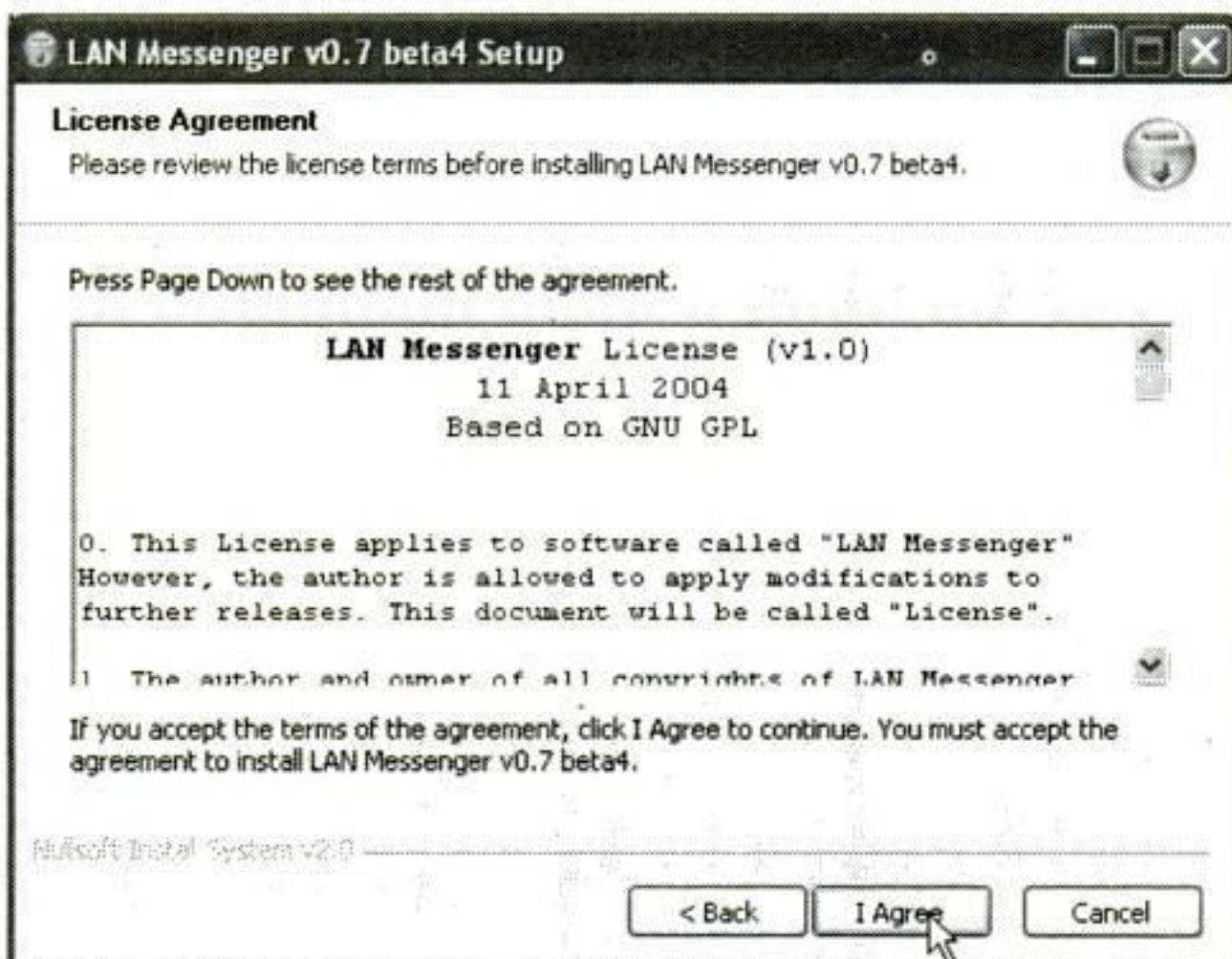


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Gambar 15.1 Welcome to the LAN Messenger Setup Wizard

2. Di **License agreement** terdapat lisensi yang dipakai untuk menggunakan software ini, yaitu **Open Source**. Klik saja **I agree**.



Gambar 15.2 Perjanjian lisensi LAN messenger



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# 16

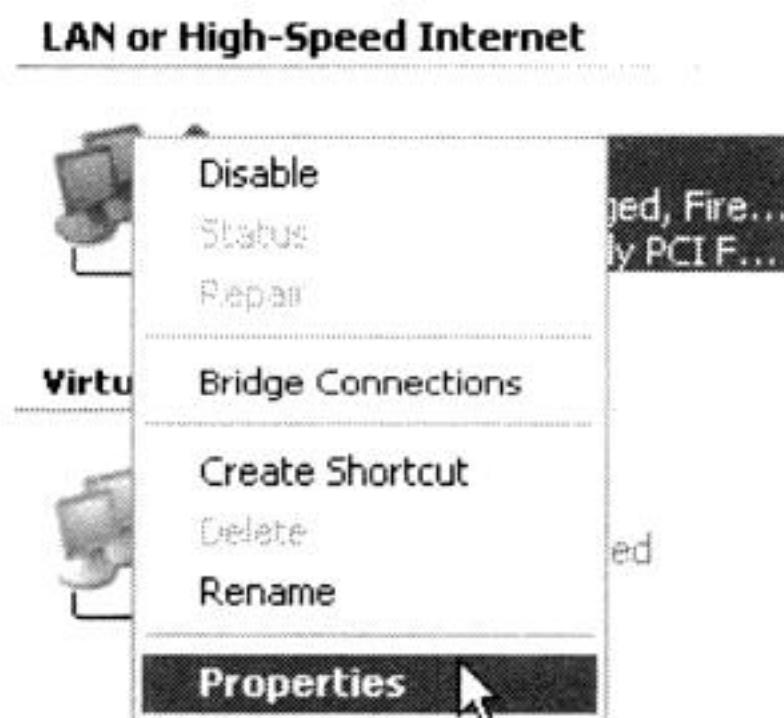
## Konfigurasi DHCP di PC Anda

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PC yang menjadi klien jaringan, baik jaringan kabel ataupun wireless bisa dikonfigurasi DHCP-nya agar nantinya bisa otomatis dipinjam/lease alamat ip oleh DHCP server. DHCP server ini bisa di komputer ataupun berupa firmware di router/Access point. Cara mengonfigurasi DHCP di PC adalah:

1. Buka **Control Panel > Network Connections**.
2. Klik kanan pada ethernet card atau WLAN card yang Anda gunakan untuk terkoneksi ke jaringan. Pilih menu **Properties**.



Gambar 16.1 Menu Properties untuk mengatur atribut dari LAN



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# Mengonfigurasi Router Linksys

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Ada banyak merek Router Access Point di pasaran, dan salah satu yang cukup bagus, bermerek dan terjangkau adalah Linksys. Linksys ini cukup berkualitas karena disertifikasi oleh Cisco.

Berikut ini contoh cara mengatur konfigurasi router Linksys WRT160N, salah satu access point produksi Linksys.

1. Tancapkan colokan listrik dari router, kemudian buka browser dan akses alamat router seperti biasa.
2. Linksys biasanya memiliki halaman Basic Setup untuk melaku-kan pengaturan dasar. Anda bisa menentukan ke mana IP router akan diforward.
3. Di **Basic Setup**, Anda bisa menentukan apakah ingin menjadikan Access point ini dengan konfigurasi otomatis (DHCP) atau tidak di bagian **Internet Connection Type**.
4. Di **Network Setup** Anda bisa mengatur beberapa aspek jaringan, seperti alamat ip dari router ini. Anda bisa meng-ganti alamat sesuai dengan kebutuhan. Jika Anda ganti, berarti alamat pengaksesan ip akan menjadi berbeda.
5. Anda bisa menentukan subnet mask-nya juga di bagian **Subnet mask**.
6. Pengaturan DHCP server dapat Anda ikuti di bahasan berikutnya.



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# 19

## Konfigurasi Router Menjadi DHCP Server

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Banyak orang tidak ingin kerepotan mengalokasikan alamat ip address di tiap PC yang tergabung ke dalam jaringan WiFi. Oleh karena itu, Anda dapat mengonfigurasi router menjadi DHCP server sehingga router langsung mengalokasikan alamat ip secara otomatis bagi setiap komputer yang tergabung ke dalam jaringan wireless.

Anda bisa mengatur banyak batasan seperti alamat ip minimal, maksimal dan jumlah klien di router, tapi ini juga tergantung kepada fitur router Access point Anda.

Apakah DHCP itu? DHCP (*Dynamic Host Control Protocol*) adalah protokol yang berbasis arsitektur client/server yang dipakai untuk memudahkan pengalokasian alamat IP dalam satu jaringan. Sebuah jaringan lokal yang tidak menggunakan DHCP harus memberikan alamat IP kepada semua komputer secara manual. Jika DHCP dipasang di jaringan lokal, maka semua komputer yang tersambung di jaringan akan mendapatkan alamat IP secara otomatis dari server DHCP.

Cara pengaturan router agar bisa menjadi DHCP server seperti berikut ini:



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5. Ketikkan IP address di **Internet Address** atau nama komputer yang ingin Anda hubungi, atau nama koneksi di **Type the internet address to connect to**.



Gambar 20.2 Pengisian internet address di jendela Type the internet address to connect to

6. Masukkan username dan password yang digunakan untuk menghubungi ke komputer host.
7. Untuk mengakses koneksi ini, klik kanan ikon **Network** di system tray, kemudian klik **Network and Sharing Center** atau bisa via **Control Panel > Network and Sharing Center**, dan kemudian klik **Connect to a network**.
8. Jendela **VPN Connection** akan muncul.



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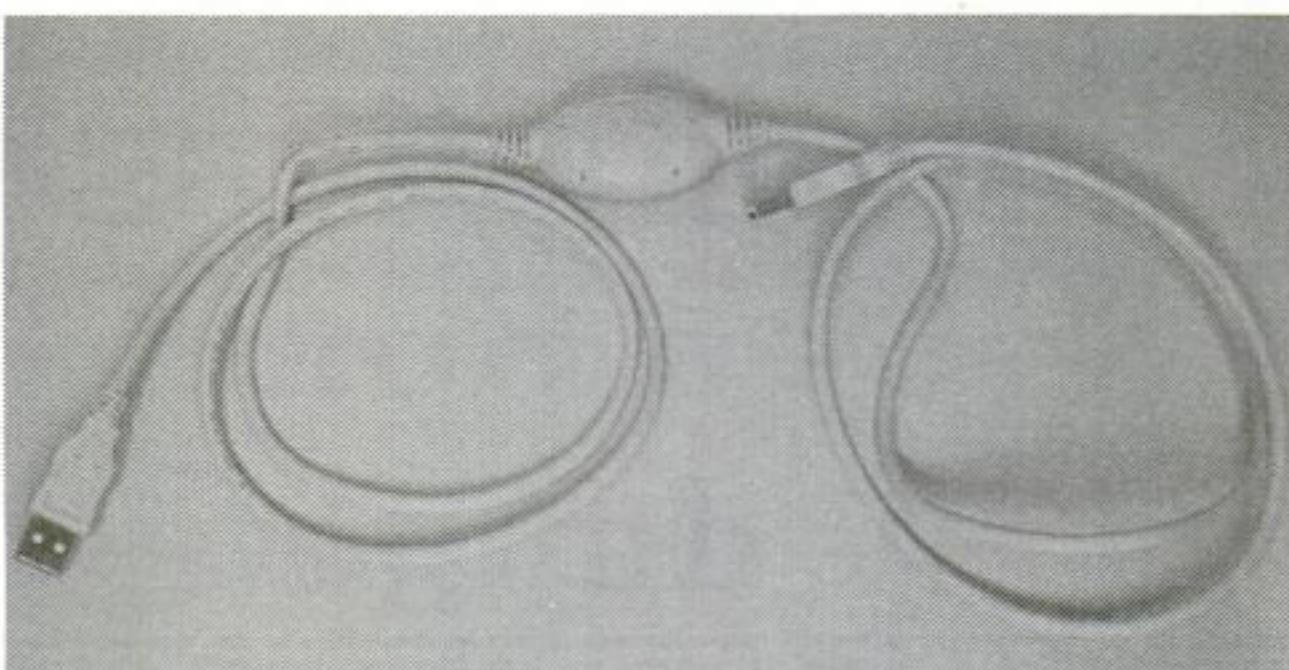


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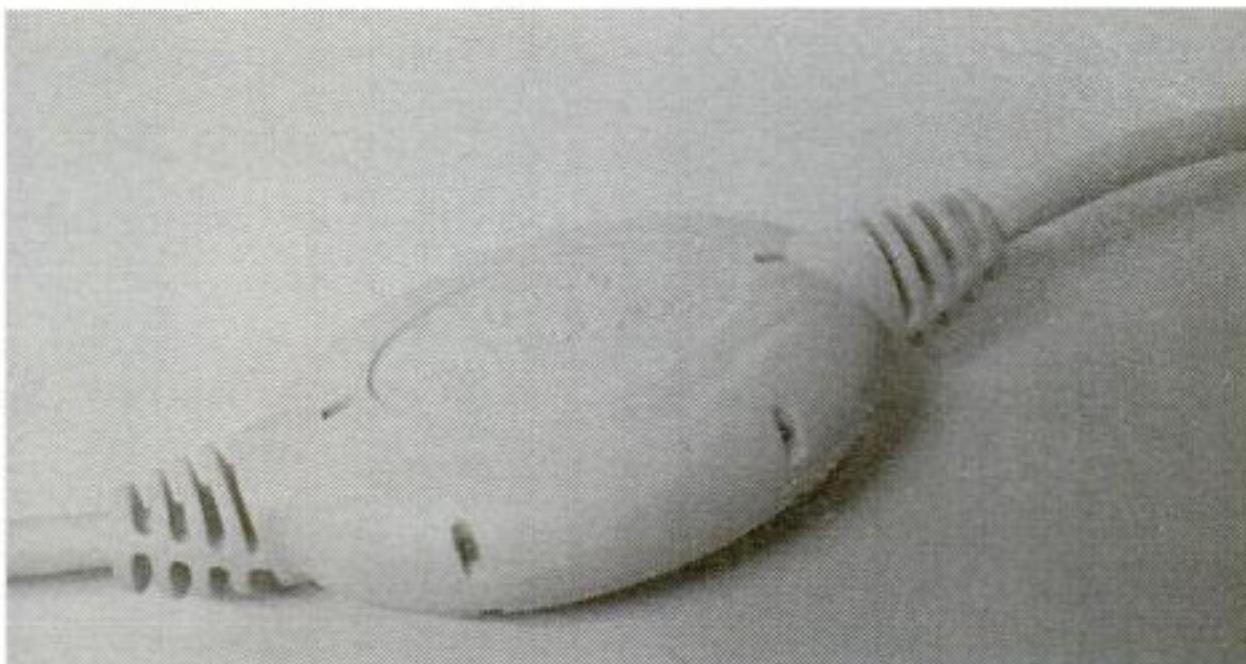
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membuat jaringan seandainya tidak punya chip bridge dan bahkan bisa menimbulkan konslet karena jika ditancapkan di kedua PC akan menjadi arus pendek.



Gambar 22.1 Kabel USB host-to-host yang untuk jaringan

4. Yang menyebabkan USB host-to-host ini bisa berkomunikasi adalah bagian tengahnya yang mengandung chip khusus.



Gambar 22.2 Bagian tengah dari kabel host-to-host yang memiliki chip khusus

5. Mengenai kecepatannya, sebuah chip bridge USB 1.1 bisa mencapai kecepatan 12 Mbps, sementara untuk USB 2.0 bisa mencapai 480 Mbps. Karena kecepatannya yang lebih besar, Anda disarankan menggunakan kabel USB 2.0.



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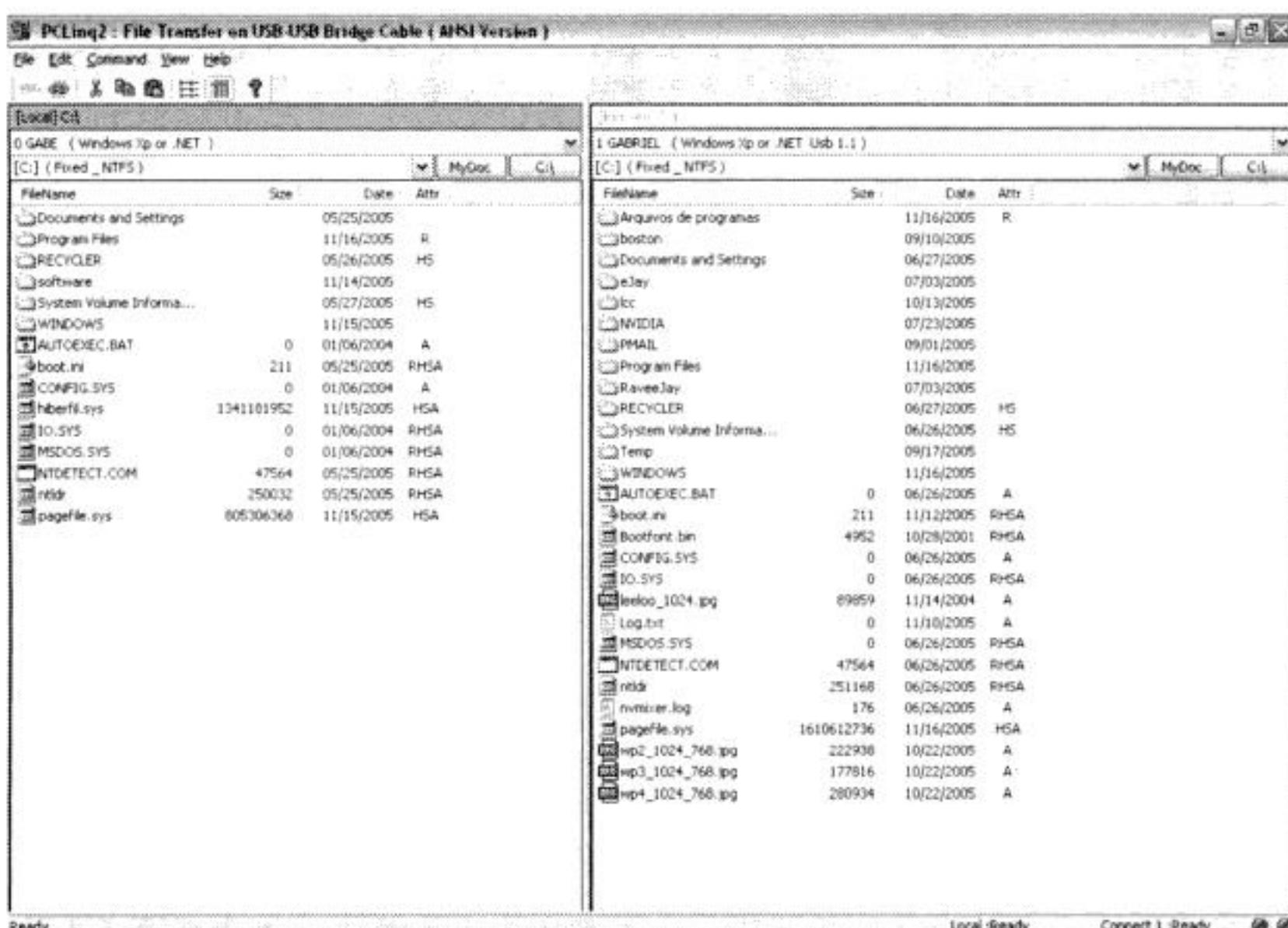


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- Piranti akan dikenali di bawah tulisan **Universal Serial Bus controllers**. Dalam contoh tutorial ini, piranti dikenali dengan nama **Hi-Speed USB Bridge Cable**, tapi nama ini bisa berubah tergantung merek yang Anda gunakan.
- Untuk melakukan transfer file, Anda bisa membuka program yang digunakan untuk mentransfer. Biasanya ini juga diserta-kan saat menginstal driver. Salah satu program untuk ini adalah PCLinq2. Agar bisa mentransfer file, program ini harus diinstal di kedua komputer.
- Penggunaan program transfer file ini cukup mudah, di sebelah kiri terlihat komputer lokal Anda, sementara di sebelah kanan terlihat komputer remote. Penggunaannya seperti Windows Commander, yaitu Anda membuka folder yang akan dipindah-kan, kemudian melakukan drag and drop ke lokasi yang diinginkan.



Gambar 22.7 Software PCLinq untuk melakukan transfer file



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# Setting Access Point Linksys WRT54G

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Linksys WRT54G adalah router yang juga bisa mengakomodasi fungsi access point. Linksys yang memiliki situs resmi di <http://www.linksys.com> termasuk produsen piranti WiFi ter-favorit di dunia, bahkan disertifikasi oleh Cisco juga. Salah satu produknya WRT54G Wireless-G Broadband Router adalah router yang juga bisa digunakan sebagai AP.



Gambar 23.1 Linksys WRT54G Wireless-G Broadband Router



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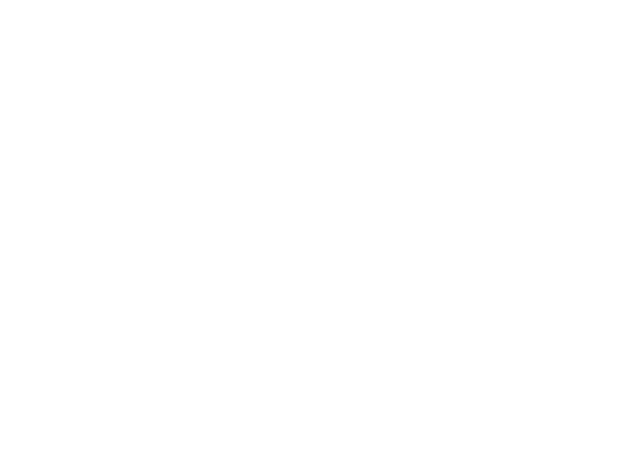
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# 60

## Teknik Optimasi Jaringan Komputer

Berbagai hal bisa terjadi dengan jaringan komputer Anda. Banyak hal pula yang bisa dioptimalkan dalam menggunakan jaringan komputer.

Buku *60 Teknik Optimasi Jaringan Komputer* mengulas berbagai kiat untuk mengoptimalkan jaringan komputer. Mulai dari sisi teknis, infrastruktur jaringan, hingga tip dan trik yang bisa dilakukan di jaringan komputer.

Materi yang dibahas antara lain:

- Memperkuat Sinyal WiFi
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- Mengamankan Jaringan Wireless di Rumah
- Mengatur Wireless Network di Linux
- Cara Mudah Setting up VPN
- Menambahkan Buku Alamat ke Spacelocker
- Menambahkan Printer ke Jaringan Wireless
- Menghindari Kesalahan-Kesalahan dalam Jaringan
- Menjadi Teknisi Jaringan
- Meningkatkan Sinyal Router
- Dan masih banyak lagi

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