

Rekkeviddeforlenger

1. Koble datamaskinen til ruteren med en nettverkskabel til **LAN-port 2, 3, 4 eller 5**.
2. Gå til <http://192.168.101.1> i en nettleser, og logg inn.

Pålogging: **admin**
Passord: **Cerebro7**

RouterOS v6.48.6
You have connected to a router. Administrative access only. If this device is not in your possession, please contact your local network administrator.

WebFig Login:
Login:
Password:

 Winbox

 Telnet

 Graphs

 License

 Help

3. Gå til **WebFig**

The screenshot shows the RouterOS v6.48.6 (long-term) WebFig interface. The 'WebFig' tab is highlighted with a red box. The interface displays the following configuration options:

	2GHz	5GHz
Network Name	ML_AIR_Duo_216658	ML_AIR_Duo_21665
Frequency	2432	5180
Band	2GHz-B/G/N	5GHz-A
Country	united states	
Use Access List (ACL)	☐	

4. Gå til *Wireless* -> *Security Profiles* og velg **Extender**.

Velg ved å klikke på navnet. Ikke trykk på [-]-knappen til venstre.

RouterOS v6.48.6 (long-term)

WiFi Interfaces W60G Station Nstreme Dual Access List

Wireless Tables

Registration

Connect List **Security Profiles** Channels Interworking Profiles

Add New

3 items

	Name	Mode	Authentica... Types	Unicast Ciphers	Group Ciphers	WPA Sha
-	Extender	dynamic keys	WPA PSK, WPA	aes ccm, tkip	aes ccm, tkip	
-	ML_AIR	dynamic keys	WPA2 PSK	aes ccm	aes ccm	
-	*	default	none			

192.168.101.1/webfig/#Wireless.Security_Profiles

5. Fyll inn **WPA Pre-Shared Key** og **WPA2 Pre-Shared Key** med passordet for nettverket du vil forlenge.

Klikk på **Apply** og deretter **OK**.

The screenshot shows the RouterOS v6.48.6 (long-term) web interface. The left sidebar contains a menu with various system components. The main content area is titled 'Security Profile <Extender>' and includes a 'General' tab. At the top of the main area, there are four buttons: 'OK', 'Cancel', 'Apply', and 'Remove'. The 'Apply' button is highlighted with a red box. Below the buttons, the 'General' tab is active, showing configuration fields. The 'Name' field is set to 'Extender'. The 'Mode' is set to 'dynamic keys'. Under 'Authentication Types', 'WPA PSK', 'WPA2 PSK', 'WPA EAP', and 'WPA2 EAP' are all checked. Under 'Unicast Ciphers', 'aes ccm' and 'tkip' are checked. Under 'Group Ciphers', 'aes ccm' and 'tkip' are checked. The 'WPA Pre-Shared Key' and 'WPA2 Pre-Shared Key' fields are both masked with dots and are highlighted with a red box. The 'Supplicant Identity' field is empty. At the bottom, the 'Group Key Update' interval is set to '00:05:00'.

RouterOS - Security Profile <Extender> x +

Not secure | 192.168.101.1/webfig/#Wireless.S...

Quick Set WebFig Terminal

RouterOS v6.48.6 (long-term)

Security Profile <Extender>

OK Cancel Apply Remove

General

Name Extender

Mode dynamic keys

Authentication Types ☒ WPA PSK ☒ WPA2 PSK ☒ WPA EAP ☒ WPA2 EAP

Unicast Ciphers ☒ aes ccm ☒ tkip

Group Ciphers ☒ aes ccm ☒ tkip

WPA Pre-Shared Key

WPA2 Pre-Shared Key

Supplicant Identity

Group Key Update 00:05:00

6. Gå til WiFi-grensesnitt.

Vær oppmerksom på at den neste delen er litt komplisert.

- Hvis du vil forlenge et 2,4 GHz-nettverk, trykker du på E ved siden av **wlan1 extender**.
- Hvis du vil forlenge et 5 GHz-nettverk, trykker du på E ved siden av **wlan2 extender**.

E bytter til D når du trykker på den.

En 2,4 GHz-forbindelse går lenger med lavere hastigheter, mens 5 GHz-frekvenser gir høyere hastigheter med kortere rekkevidde.

RouterOS v6.48.6 (long-term)

WiFi Interfaces

		Name	Type	Actual MTU	Tx	Rx
D	RS	wlan1 ap	Wireless (Atheros AR9	1500	24.9 kbps	172
- E	X	«» wlan1 extender	Virtual		0 bps	0 bps
D	RS	wlan2 ap	Wireless (Atheros AR9	1500	269.6 kbps	32.0
- E	X	«» wlan2 extender	Virtual		0 bps	0 bps

7. – Hvis du vil forlenge et 2,4 GHz-nettverk, velger du **wlan1 ap**.
– Hvis du vil forlenge et 5 GHz-nettverk, velger du **wlan2 ap**.

Klikk på navnet for å velge enten **wlan1 ap** eller **wlan2 ap**.

1. Kopier **SSID**, du må lime den inn i et senere trinn.
2. Velg **Scan**.

The screenshot shows the RouterOS v6.48.6 (long-term) web interface. The left sidebar contains a menu with various system components. The main area displays the configuration for the 'wlan1 ap' interface. The 'Scan...' button is highlighted with a red box. The 'SSID' field is also highlighted with a red box and contains the text 'ML_AIR_Duo_216658'.

RouterOS v6.48.6 (long-term)

Interface <wlan1 ap>

OK Cancel Apply Advanced Mode WPS Accept WPS Client

Setup Repeater Scan... Freq. Usage... Align... Sniff... Snooper...

Reset Configuration Torch

running ap not invalid running slave

Enabled ☒

General

Name wlan1 ap

Type Wireless (Atheros AR9300)

MTU 1500

Actual MTU 1500

L2 MTU 1600

MAC Address DC:2C:6E:87:2B:6C

ARP enabled

ARP Timeout

Wireless

Mode ap bridge

Band 2GHz-B/G/N

Channel Width 20MHz

Frequency 2432 MHz

SSID ML_AIR_Duo_216658

Security Profile ML_AIR

- Trykk på Start, og finn nettverket du ønsker å forlenge.

Du velger nettverk ved å klikke på det.

RouterOS v6.48.6 (long-term)

Scanner (Running)

Start Stop Close

Interface: wlan1 ap

Background Scan ☐

	#	Address	SSID	Channel	Signal Stre...	Noise Floor	Signal To Noise
APR	0	08:55:31:F7:F5:E0		2412/20/	-63	-110	47
P	29	28:54:71:14:F0:40		2462/20/	-87	-114	27
AP	34	F0:2F:74:D7:50:70		2442/20/	-82	-110	28
AP	17	50:0F:F5:8C:F9:51		2437/20/	-48	-109	61
AP	16	F0:9F:C2:F1:53:76	LVI_AB	2437/20/	-48	-109	61
AP	30	1C:36:BB:05:F2:E0		2462/20/	-85	-114	29
AP	19	B8:27:EB:BF:C7:20		2437/20/	-91	-109	18
AP	3	A6:46:9D:1D:E9:D0		2412/20/	-81	-110	29
AP	11	A6:46:9D:1D:E9:F0		2412/20/	-86	-110	24
AP	25	F6:9E:28:73:C7:60		2462/20/	-82	-114	32

9. Trykk på **Connect**.

The screenshot shows the RouterOS WebFig interface for a Wireless AP configuration. The browser address bar shows the URL `192.168.101.1/webfig/#Wireless.S...`. The left sidebar contains a menu with various system components. The main content area displays the configuration for a Wireless AP with MAC address `<F0:9F:C2:F1:53:78>`. At the top of the configuration area are buttons for 'Quick Set', 'WebFig', and 'Terminal'. Below these are 'Close' and 'Connect' buttons, with the 'Connect' button highlighted by a red rectangle. A status bar shows the AP is 'active', has 'privacy' enabled, is 'not routers network', 'not wds', and 'not bridge'. Below this is a table of configuration parameters.

Parameter	Value
Interface	wlan1 ap
Address	F0:9F:C2:F1:53:78
SSID	LVI_AB
Channel	2437/20/gn(28dBm)
Signal Strength	-49
Noise Floor	-111
Signal To Noise	62
Radio Name	
RouterOS Version	

10. Gå tilbake til grensesnittet du valgte i trinn 7.

Det blir enten...

- **wlan1 ap** for 2,4 GHz.

eller

- **wlan2 ap** for 5 GHz.

1. Lim inn SSID

2. Sett modus til **ap bridge**.

Klikk på **Apply** og deretter **OK**.

The screenshot shows the RouterOS web interface for configuring the **wlan1 ap** interface. The interface is titled "Interface <wlan1 ap>". The left sidebar contains a menu with various configuration options. The main content area is divided into sections: "General" and "Wireless".

In the "General" section, the "Enabled" checkbox is checked. The "Name" field is set to "wlan1 ap". The "Type" is "Wireless (Atheros AR9300)". The "MTU" is set to 1500. The "Actual MTU" is 1500. The "L2 MTU" is set to 1600. The "MAC Address" is "DC:2C:6E:87:2B:6C". The "ARP" is set to "enabled". The "ARP Timeout" is set to a default value.

In the "Wireless" section, the "Mode" is set to "ap bridge". The "Band" is set to "2GHz-B/G/N". The "Channel Width" is set to "20MHz". The "Frequency" is set to "2432" MHz. The "SSID" is set to "ML_AIR_Duo_216658". The "Security Profile" is set to "ML_AIR".

Red boxes highlight the "OK" and "Apply" buttons at the top, the "Mode" dropdown menu, and the "SSID" text field.

11. Nettverket du har valgt, skal nå være forlenget.

12. Nå kan du koble ruterer fra datamaskinen.