

## How to Configure a Wi-Fi Network

<https://campus.barracuda.com/doc/41116117/>

This article provides step-by-step instructions on how to modify wireless LAN settings within the Barracuda NG Firewall configuration. A corresponding Wi-Fi service is preconfigured for the Barracuda NG Firewall F101, F201, F280, and F301 with the included Wi-Fi hardware and antenna.

### In this article:

#### Step 1. Enable the Wi-Fi Network

1. Go to **CONFIGURATION > Configuration Tree > Box > Network** .
2. In the left menu, expand **Configuration** and select **WIFI**.
3. Select **yes** from the **Wi-Fi Enabled** list.
4. From the **Location** list, select your location.
5. From the **Channel** list, select the desired channel.
6. From the **Transmission Power** list, select the applicable transmission power level.  
Do not select the highest transmission power level for the Barracuda NG Firewall F101 unless it is located in a cool and well ventilated location.
7. Click **Send Changes** and **Activate**.

#### Step 2. Configure the Wi-Fi Service Properties

1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > your virtual server > Assigned Services > WIFI > Service Properties** .
2. Click **Lock**.
3. In the **Service Definition** section, select **yes** from the **Enable Service** list.
4. In the **Description** field, enter an optional description of the Wi-Fi service.
5. Click **Send Changes** and **Activate** .

#### Step 3. Configure the Wi-Fi Default Routes

If your LAN and Wi-Fi connections are in two different networks, configure a default route for the Wi-Fi LAN by completing the following steps:

1. Go to **CONFIGURATION > Configuration Tree > Box > Network** .

2. In the left menu, expand **Configuration** and click **Routing**.
3. Click **Lock**.
4. In the **Main Routing Table** section, add a new entry to the **Routes** table.
5. Enter a **Name** for the route. For example, 1111. The **Routes** configuration window opens.
6. In the **Target Network Address** field, enter the target network address. For example, 192.168.1.0/24.
7. From the **Route Type** list, select **directly attached network**.
8. From the **Interface Name** list, select the interface the network is attached to.
9. Click **OK**.
10. Click **Send Changes** and **Activate**.

#### Step 4. Activate the Network Configuration

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1. Go to **CONTROL > Box**.
2. In the left menu, expand **Network** and click **Activate new network configuration**.
3. When the activation window opens, select **Failsafe** as the activation mode.
4. When the **Activation Succeeded** window opens, click **OK**.

#### Step 5. Configure the Wi-Fi Security Settings

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1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > your virtual server > Assigned Services > WIFI > WIFI AP Configuration**.
2. Click **Lock**.
3. In the **Network Name (SSID)** field, enter the network name.
4. In the **Preshared Key (PSK)** table, click + to add a new entry. The **Preshared Key (PSK) Combination** window opens.
5. In the **New** field, enter a new password.
6. In the **Confirm** field, re-enter the new password.  
The passwords must match in both fields and be at least eight characters long.
7. Click **OK**.
8. Click **Send Changes** and **Activate**.

After completing the configuration, go to the **CONTROL > Network** page and verify that the Wi-Fi interface is available. If the interface is available, a green square is displayed next to its name.

#### Troubleshooting

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If the Wi-Fi interface is not available (indicated by a red square),

1. Verify that you completed all the configuration steps.
2. Make sure that the system is up-to-date with firmware patches.

If the Wi-Fi interface is still not available after completing these two steps, reboot the system:

1. Open the **CONTROL > Box** page.
2. In the left menu, expand **Operating System** and click **Reboot Box** .
3. After rebooting the system, go to the **CONTROL > Server** page and check the **Server Status** table to make sure that the service is running.
4. To restart the service, right-click it in the table and and click **Restart Service** .

If Wi-Fi still is not enabled, contact [Barracuda Networks Technical Support](#) .

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