
How to Configure DHCP Subnets and Address Pools

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With advanced DHCP service settings enabled, you can configure DHCP subnets and address pools and assign policies for handling DHCP client groups and [Barracuda Network Access Clients](#).

Before You Begin

Before configuring DHCP address pools, enable advanced pool configuration in the DHCP service setup. For more information, see [How to Configure Advanced DHCP Settings](#).

Step 1. Configure Advanced Subnets

1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > your virtual server > Assigned Services > DHCP > DHCP Enterprise Configuration**.
2. In the left menu, expand **Configuration Mode** and click **Switch to Advanced View**.
3. In the left menu, click **Address Pools**.
4. Click **Lock**.
5. In the **Advanced Subnets** section, click **+** and add a subnet.
6. Enter a **Name** for the subnet and click **OK**. The **Advanced Subnets** window opens.
7. From the **Used Subnet** field, select a network that is configured on the Barracuda CloudGen Firewall. When configuring a relayed network, select *explicit* and enter the network address and mask in the **Network Address** field.
8. Enter the **DHCP Server Identifier** that should be included in DHCP OFFER messages to let clients distinguish between multiple lease offers.
9. From the **Perform DDNS Update** list, enable or deactivate DNS setting updates for subnets. You can select:
 - **true** - Enables DNS setting updates for subnets (The **DNS Zone** setting is activated) and enter the updating **DNS Zone** (configured within dynamic DNS).
 - **false** - Disables DNS setting updates for subnets.
 - **not-set** - (default) Enforces global DNS parameters to be used for subnets.
10. From the **Subnet Parameters** list, select the DHCP parameter template if configured, which settings should be used for this subnet. For more information, see [How to Configure DHCP Parameter Templates](#).
11. From the **Subnet DHCP Options** list, select the DHCP options template for the subnet if configured. For more information, see [How to Configure DHCP Option Templates](#).

Step 2. Configure Address Pools

Configure your address pools and define client policies.

1. In the **Address Pools** section, click **+** to add an entry.
2. Enter a **Name** for the address pool and click **OK**. The **Address Pools** window opens.
3. Enter the first and last IP address of the pool range in the **IP Begin** and **IP End** fields.
4. From the **All Clients Policy** list, select a policy for handling DHCP clients. You can select:
 - **none** – (Default) A global policy is not used. Instead, the policies that are specified by the **Known Clients**, **Unknown Clients**, **Allowed Classes**, and **Denied Classes** settings are used.
 - **allow** – All clients are allowed IP addresses from this pool.
 - **deny** – All clients are denied IP addresses from this pool.
5. From the **Network Access Clients Policy** list, select the policy for handling [Barracuda Network Access clients](#). You can select:
 - **none** – (Default) No Barracuda Network Access Clients policy is not used.
 - **Network Access Clients** – Barracuda Network Access Clients are allowed to receive IP addresses from the pool.
 - **guests** – Barracuda Network Access Clients are denied IP addresses from the pool.
6. In the **Allowed / Denied Classes** tables, add the DHCP classes that are allowed or denied to get leases from the address pool. For more information, see [How to Configure DHCP Classes](#).
7. From the **Known / Unknown Clients** list, select the policy for handling known and unknown clients if a global policy is not selected from the **All Clients Policy** list. You can select:
 - **allow** – (Default for known clients) Clients are allowed leases from the address pool.
 - **deny** – (Default for unknown clients) Clients are not allowed leases from the address pool.
 - **not-set** – This setting is deactivated.For more information on specifying known clients, see [How to Configure Known Clients](#).
8. From the **BOOTP Clients Policy** list, select the dynamic-bootp flag that specifies if the DHCP server dynamically assigns addresses to bootp clients if a global policy is not selected from the **All Clients Policy** list. You can select:
 - **allow_dynamic** – Dynamic BOOTP for IP addresses are allowed.
 - **deny_dynamic** – Dynamic BOOTP for IP addresses are denied.
 - **not-set** – This setting is deactivated.
9. Click **OK**.
10. If the subnet is shared, complete [Step 3](#).
11. Click **Send Changes** and **Activate**.

Step 3. Configure Shared/Multihomed Subnets

If multiple subnets have to be hosted on a single network interface, configure and specify additional subnets in the **Multi Subnet Configuration** section:

1. Enable **Shared Network Device** if the interface must host multiple subnets. This enables **Further Subnets**.
2. Select the desired parameter template from the **Shared Parameters** list.
3. From the **Shared DHCP Options** list, select the DHCP options for the additional network.
4. In the **Further Subnets** table, add any additional subnets. For each entry, you can specify settings that are similar to those in the **Subnet Configuration** section.
5. Click **OK**.
6. Click **Send Changes** and **Activate**.

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