

How to Configure DHCP with Dynamic DNS

<https://campus.barracuda.com/doc/73719088/>

Configure dynamic DNS updates for the Barracuda CloudGen Firewall DHCP service. The DDNS update style is evaluated once after reading the dhcpd.conf file, not each time a client is assigned an IP address. As a result, the same DNS update style is used for all clients.

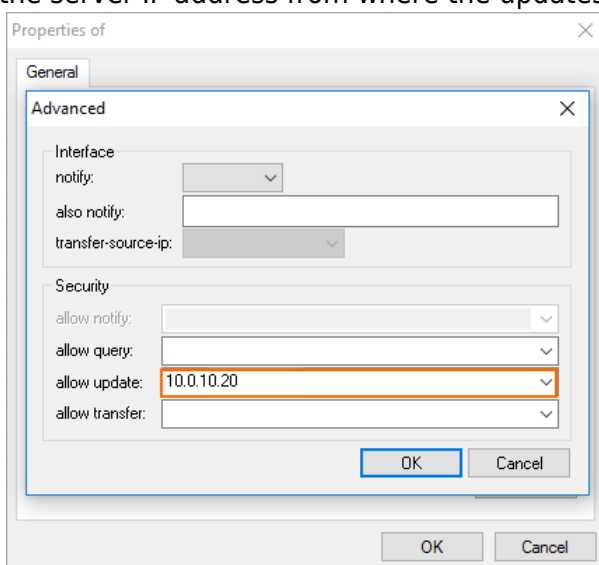
Before You Begin

- Before configuring dynamic DNS, enable advanced pool configuration in the DHCP service setup. For more information, see [How to Configure Advanced DHCP Settings](#).
- Make sure that a DNS service is created and configured on your firewall. For more information, see [How to Configure the DNS Service](#).

Step 1. Configure the DNS Zones

Configure DNS zones for your clients. If a forward and a reverse lookup must be done, a valid zone must be configured where updates are allowed. A reverse zone is not required if only a forward lookup should be done.

- In the advanced zone properties of the DNS zones used, set the parameter **Allow updates** to the server IP address from where the updates are performed.



For more information, see [How to Configure DNS Zones](#).

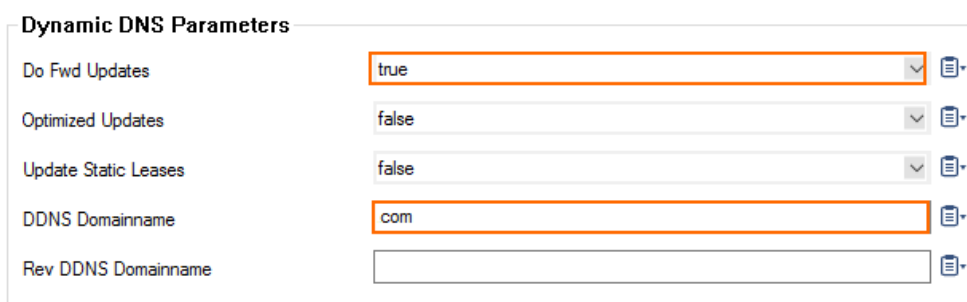
Step 2. Create a DHCP Subnet

Create a DHCP subnet for the clients that should receive DDNS updates. For more information, see [How to Configure DHCP Subnets and Address Pools](#).

Step 3. Create a Parameter Template

Create a DHCP parameter template for the subnet the clients reside in:

- In the **Dynamic DNS Parameters** settings, set **Do Fwd Updates** to **true**.
- For dynamic DNS to work, you must also enter the **DDNS Domainname**.



Dynamic DNS Parameters	
Do Fwd Updates	true
Optimized Updates	false
Update Static Leases	false
DDNS Domainname	com
Rev DDNS Domainname	

For more information, see [How to Configure DHCP Parameter Templates](#).

Step 4. Configure Dynamic DNS

1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > your virtual server > Assigned Services > DHCP > DHCP Enterprise Configuration**.
2. In the left menu, expand the **Configuration Mode** section and click **Advanced View**.
3. In the left menu, select **Dynamic DNS**.
4. Click **Lock**.
5. Select whether to use a **DNS Update Scheme**.

- When selecting **interim**, choose an option from the **Client Updates** list.

The DHCP server does not necessarily always update both the A and the PTR records. The FQDN (fully qualified domain name) option includes a flag that, when sent by the client, indicates that the client wishes to update its own A record. In that case, the server can be configured either to honor the client's intentions or ignore them. This is done with either statement "allow client-updates" or "ignore client-updates". By default, client updates are ignored.

6. (optional) In the **Zone Keys** table, click + and add the HMAC-MD5 keys for the DNS zones.

7. In the **DNS Zones** table, click **+** and add the DNS zones.
8. Specify the **Zone Type**. You can select:
 - **Forward** – (default) The hostname is looked up.
 - Enter the network of the forward lookup in the **Forward Zone Name** field.
 - **Reverse** – The IP address is looked up.
 - Enter the network of the reverse lookup in the **Reverse Lookup Net/Netmask** fields.
 - **Both** – IP address and hostname are looked up.
 - Enter the network of the forward and reverse lookup in the **Forward Zone Name** and **Reverse Lookup Net/Netmask** fields.
9. Enter the **DNS Server IP** address.
10. Select the **Authentication Key** for the zone that was entered in the **Zone Keys** table.
11. (optional) Click **+** and add additional DNS zones.
12. Click **OK**.
13. Click **Send Changes** and **Activate**.

Figures

1. dns_allow.png
2. param_temp.png

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