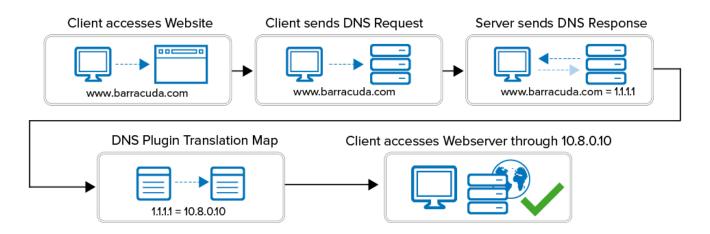


# **How to Configure DNS Translation Using the DNS Plugin Module**

https://campus.barracuda.com/doc/17470/

Use the DNS plugin module to replace the result of a DNS query, according to a predefined IP address translation table. A common use case is for users accessing resources that resolve to the public IP address of the firewall. Since the users are behind a NAT, they would not be able to access the resource using this address. The DNS plugin replaces the public IP address in the DNS response with the appropriate internal IP address that can be reached by the client.

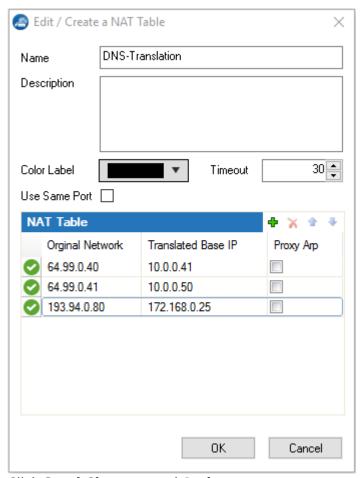


**Step 1. Create a New NAT Table** 

Create a NAT table to create a list of public IP addresses and the internal IP addresses the DNS query is translated to.

- Go to CONFIGURATION > Configuration Tree > Box > Assigned Services > Firewall >
  Forwarding Rules.
- 2. In the left menu, click on **Connections.**
- 3. Click Lock.
- 4. Create a NAT table mapping the external IP addresses to the internal IP addresses. For more information, see <a href="How to Create NAT Tables">How to Create NAT Tables</a> (Translation Maps).





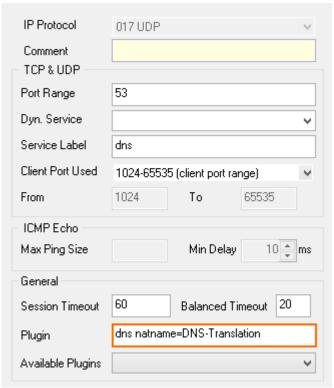
5. Click **Send Changes** and **Activate**.

### Step 2. Create or Edit a Service Object

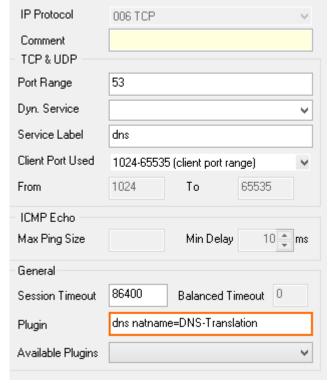
Create or edit a service object matching the DNS query of the client, and modify it to use the NAT table

- 1. Go to CONFIGURATION > Configuration Tree > Box > Assigned Services > Firewall > Forwarding Rules.
- 2. Click Lock.
- 3. In the left menu, click on **Services**.
- 4. Edit or create a new service object for DNS queries.
- 5. Double-click on the UDP port 53 entry. The **Service Entry Parameters** window opens.
- 6. From the Available Plugins list, select dns natname=Translation Map.
- 7. Add the name of the NAT table to the **Plugin** string in the following format: **dns natname=YOUR NAT TABLE NAME** E.g., dns natname=DNS-Translation





- 8. Click OK.
- 9. Double-click on the TCP port 53 entry. The **Service Entry Parameters** window opens.
- 10. From the Available Plugins list, select dns natname=Translation Map.
- 11. Add the name of the NAT table to the **Plugin** string in the following format: **dns natname=YOUR NAT TABLE NAME** E.g., dns natname=DNS-Translation



12. Click OK

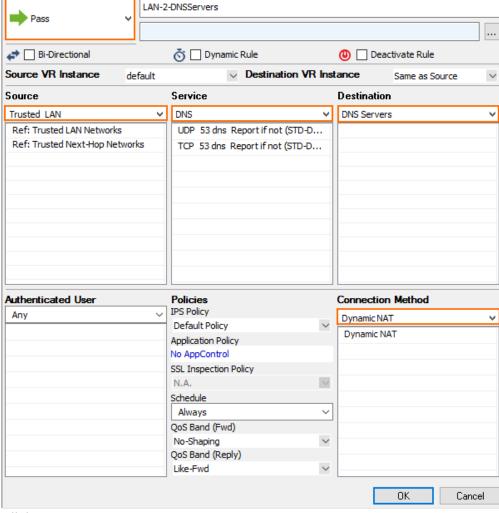


- 13. Click **OK**.
- 14. Click **Send Changes** and **Activate**.

### Step 3. Create an Access Rule to Intercept Client DNS Queries

Create an access rule that matches DNS queries of the client using the modified service object.

- Go to CONFIGURATION > Configuration Tree > Box > Assigned Services > Firewall >
  Forwarding Rules.
- 2. Click Lock.
- 3. Create an access rule:
  - Action Select PASS.
  - Source Select Trusted LAN
  - **Service** Select the modified DNS service object created in Step 2.
  - **Destination** Select **Internet** or enter the IP addresses of your DNS Servers.
  - Connection Method Select Dynamic NAT.



4. Click OK.

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- 5. Drag and drop the access rule so that no access rule above it matches DNS client traffic.
- 6. Click **Send Changes** and **Activate**.

DNS queries returning the **Original** IP address listed in the NAT table are now replaced by the corresponding **Translated** IP address.

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### **Figures**

- 1. dns translation.png
- 2. DNS\_Doctoring\_01.png
- 3. DNS\_Doctoring\_02.png
- 4. DNS\_Doctoring\_03.png
- 5. DNS\_Doctoring\_04.png

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