

## Example - DHCP Configuration for Two Networks

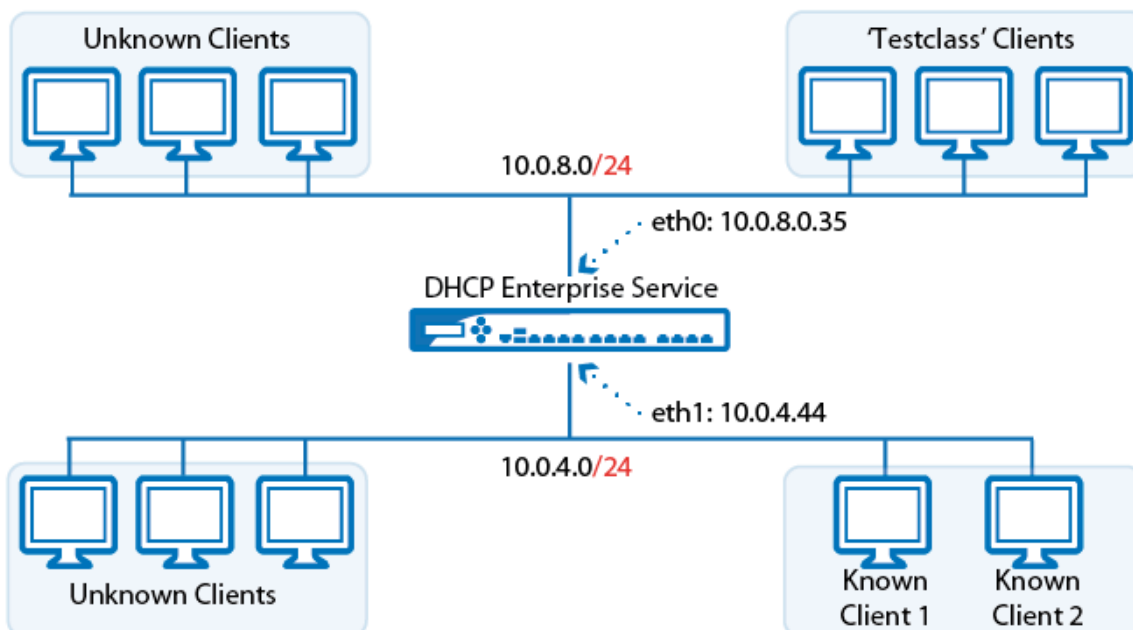
<https://campus.barracuda.com/doc/48202962/>

The following article provides an overview of how to configure DHCP for an example environment. It provides steps and example settings to configure a DHCP service for an environment that contains two networks with three different IP pools.

### Example environment

For the example environment that is displayed in the following figure, a DHCP service must be configured for two networks with three different IP pools:

- **Network 1** (10.0.8.0/24) – Contains two address pools: one pool for unknown clients and one pool for known clients (identified via their MAC addresses).
- **Network 2** (10.0.4.0/24) – Contains one address pool for unknown clients and two known clients.



### Example environment configuration

The DHCP service for the example environment can be configured with the following steps and

settings:

Step	Settings for Example Environment
<a href="#">Step 1: Create a virtual server.</a>	The virtual server is created with the following settings: <ul style="list-style-type: none"> <li>• <b>First-IP:</b> 10.0.8.35</li> <li>• <b>Second-IP:</b> 10.0.4.44</li> </ul>
<a href="#">Step 2: Create the DHCP service.</a>	By default, <b>Service Availability</b> for the DHCP service is set to <i>All-IPs</i> .
<a href="#">Step 3: Enable advanced DHCP settings.</a>	To enable the advanced DHCP settings, you must be in the Advanced Configuration Mode. On the <b>DHCP Enterprise Configuration - Operational Setup</b> page, click <b>Switch to Advanced View</b> from the Configuration Mode menu in the left navigation pane. Make sure that you select yes from the <b>Use Advanced Pool Configuration</b> list.
<a href="#">Step 4: Configure DHCP classes.</a>	A DHCP class named <i>testclass</i> is created with the following settings: <ul style="list-style-type: none"> <li>• <b>Match Type:</b> MAC</li> <li>•</li> <li>• <b>Match Value List:</b> 1:00:01:f3:34:44:2g and 1:00:01:f3:34:44:2e</li> </ul> For Ethernet interfaces, you must enter 1: before the MAC address

<p><a href="#">Step 5: Configure subnets and address pools.</a></p>	<p>Two separate subnets are created for Network 1 (10.0.8.0/24) and Network 2 (10.0.4.0/24).</p> <p>1. A subnet named <i>Subnet1</i> for 10.0.8.0/24 is created with the following settings:</p> <ul style="list-style-type: none"> <li>◦ <b>Subnet Type:</b> <i>explicit</i></li> <li>◦ <b>Network Address:</b> <i>10.0.8.0/24</i></li> <li>◦</li> </ul> <p><b>Address Pools:</b> The two address pools for Subnet1 are configured with the following settings:</p>						
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<p>2. A subnet named <i>Subnet2</i> for 10.0.4.0/24 is created with the following settings:</p> <ul style="list-style-type: none"> <li>◦ <b>Subnet Type:</b> <i>explicit</i></li> <li>◦ <b>Network Address:</b> <i>10.0.4.0/24</i></li> <li>◦</li> </ul> <p><b>Address Pools:</b> The subnet has one address pool which is configured with the following settings:</p>							
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<p>Two client groups are created:</p>							
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[Step 7: View real-time information for the DHCP service.](#)

To view and modify lease and IP range information for the DHCP service, click the **DHCP** tab.

## Figures

1. dhcp\_enterprise\_config.png

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