

# Working with DHCP Classes

## DHCP Class List

The screenshot shows the DHCP Class List page. At the top, there is a navigation bar with tabs for Dashboard, Resources, DNS, DHCP, Servers, IPAM, Peering, Reporting, and Global Commander. The DHCP tab is selected. Below the navigation bar, there is a sub-tab bar with buttons for DHCP, DHCP Groups, DHCP Servers, DHCP Pools, DHCP Classes (selected), and DHCP Logging. An 'Add Class' button is located on the right. The main content area is titled 'DHCP Class List' and contains a table with the following data:

Class Name	Class Match	IP Type	Parent Resource	Actions
<a href="#">TestClass</a>	none	IPv4	<a href="#">TLR</a>	<a href="#">Delete</a> <a href="#">Perms</a>
<a href="#">TestClass2</a>	none	IPv6	<a href="#">TLR</a>	<a href="#">Delete</a> <a href="#">Perms</a>
<a href="#">ApprovalsTestClass</a>	none	IPv4	<a href="#">TLR</a>	<a href="#">Delete</a> <a href="#">Perms</a>

The DHCP Class List is accessed from the **DHCP** tab, then clicking on the **DHCP Classes** subtab button. From this page, you may create, view, and edit DHCP Classes.

Clicking on the Class name from will open the Class Details page for the specific class.

- DHCP Class List
  - Add a DHCP Class
  - Edit a DHCP Class
    - Add / Edit a comment
    - Add / Remove Matching Type
    - Add / Remove a DHCP Subnet Option
  - Delete a DHCP Class
  - DHCP Subnet Pools and Classes
  - Additional Information

## Add a DHCP Class

Add a new DHCP Class to the Class List by clicking the "Add Class" button at the top of the page.

This screenshot is identical to the one above, but the 'Add Class' button in the top right corner is circled in red to highlight it.

In the "Create New Class" dialog, enter a name for the class and choose IPv4 or IPv6 and a parent resource.

IPAM Peering Reporting Settings Help

### Create New Class

Class Name:

IP Type:

Parent Resource:

## Edit a DHCP Class

Classes may be edited by clicking on the Class name. From this page, users may edit class options and matching.

### CiscoRouters

Some comment here.

Matching Type:

Class Options


Add Class Option :

Code	Name	Value	Actions
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## Add / Edit a comment

To add a comment to a pool, click anywhere inside the comment area and begin typing. The comment will be saved when an area outside of the comment box is clicked, deselecting the comment area.

## CiscoRouters

Some comment here.  Click & Type Inside Box

Matching Type No Matching

Save Matching

Class Options

Add Class Option : 1 - Subnet Mask (subnet-mask)

Add

Code Q	Name Q	Value Q	Actions ▼
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## Add / Remove Matching Type

Select a Matching Type for a class by selecting a type from the dropdown menu, entering in the type criteria, and clicking "Save Matching" when done. To remove matching, select "No Matching" from the dropdown and click "Save Matching".

## CiscoRouters

Some comment here.

Matching Type No Matching

Save Matching

Class Options

Add Class Option : 1 - Subnet Mask (subnet-mask)

Add

Code Q	Name Q	Value Q	Actions ▼
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## Add / Remove a DHCP Subnet Option

To add a DHCP Option, select one from the dropdown menu in the Class Options module and click "Add".

Class Options

Add Class Option : 12 - Hostname (host-name)

Add

Code Q	Name Q	Value Q	Actions ▼
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Enter a value for the Option and click "Save changes".

Servers
▼
IPAM
▼
DHCP
▼
Reporting
▼
Settings
▼
Help
▼

Add New Option

Name: 12 - Hostname

Option: host-name

Description: This option specifies the name of the client. The name may or may not be qualified with the local domain name (it is preferable to use the domain-name option to specify the domain name). See RFC 1035 for character set restrictions.

Value:

{string}

Close Save changes

To remove an Option, click the "delete" button in the Actions column. You can filter the Options list by code, name, or value by clicking the search icon (magnifying glass) over a column.

Class Options			
Add Class Option : 12 - Hostname (host-name) <span>Add</span>			
Code	Name	Value	Actions
12	host-name	"example"	<span>Delete</span>

## Delete a DHCP Class

Users with delete permissions over the class may delete it by clicking the "Delete" button under "Actions".

DHCP Class List				
Class Name	Class Match	IP Type	Parent Resource	Actions
<a href="#">TestClass</a>	none	IPv4	TLR	<span>Delete</span> <span>Perms</span>
<a href="#">TestClass2</a>	none	IPv6	TLR	<span>Delete</span> <span>Perms</span>
<a href="#">ApprovalsTestClass</a>	none	IPv4	TLR	<span>Delete</span> <span>Perms</span>

## DHCP Subnet Pools and Classes

Class options for DHCP pools are available in the "Advanced Settings" section of the pool details page.

Advanced Settings

Parent Resource:

TLR

The new pool resource will be a child of the Parent Resource.

Default Gateway:

ex. 192.168.3.1

The default router to be provided the the DHCP clients.

Routers (ISC DHCP Only):

ex. 192.168.3.1, 192.168.3.2

The routers option specifies a list of IP addresses for routers on the client's subnet. Routers should be listed in order of preference.

Domain Name Servers:

ex. 192.168.1.1, 192.168.1.2

(domain\_name\_servers) Specifies a list of Domain Name System (STD 13, RFC 1035) name servers available to the client.

Domain Name:

ex. example.com

(domain\_name) This option specifies the domain name that client should use when resolving hostnames via the Domain Name System.

Lease Time:

7200

(lease\_time) This option is used in a client request (DHCPDISCOVER or DHCPREQUEST) to allow the client to request a lease time for the IP address. In a server reply (DHCPOFFER), a DHCP server uses this option to specify the lease time it is willing to offer.

Relay Address:

ex. 192.168.8.2

Match the subnet if the request comes from certain Relay Address. Multiple relay addresses can be separated by ",".

Interface Id (Kea DHCP6):

vlan182

ISC Kea DHCP6 interface\_id setting for matching relays.

Client Class:

Restrict access to certain subnets only to clients that belong to a given class.

Require Classes:

Classes in these lists are marked as required and evaluated after selection of this specific subnet and before output-option processing.

Free Lines (Dangerous):

The content inside this field will be append to the subnet section of the server configuration. Please be very careful with this field as it can cause configuration errors ! They are currently valid only for ISC DHCP.

Save

## Additional Information

For more information on working with DHCP Pools, Groups, and Servers, see the following sections:

- [DHCP Tab](#)
- [Working with DHCP Groups](#)
- [Working with DHCP Gadgets](#)
- [DHCP Administration](#)
- [DHCP Settings](#)