

# IP Pools

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## General Information

### Summary

IP pools are used to define range of IP addresses that is used for DHCP server and Point-to-Point servers

### Specifications

Packages required: *system*

License required: *level1*

Home menu level: */ip pool*

Standards and Technologies: *none*

Hardware usage: *Not significant*

### Description

IP pools simply group IP addresses for further usage. It is a single configuration point for all features that assign IP addresses to clients.

### Notes

Whenever possible, the same ip address is given out to each client (OWNER/INFO pair).

### Setup

Home menu level: */ip pool*

## Property Description

**name** (*name*) - the name of the pool

**next-pool** (*name*) - when address is acquired from pool that has no free addresses, and next-pool property is set to another pool, then next IP address will be acquired from next-pool

**ranges** (*IP address*) - IP address list of non-overlapping IP address ranges in form of: from1-to1,from2-to2,...,fromN-toN. For example, 10.0.0.1-10.0.0.27,10.0.0.32-10.0.0.47

## Example

To define a pool named **ip-pool** with the **10.0.0.1-10.0.0.125** address range excluding gateway's address **10.0.0.1** and server's address **10.0.0.100**, and the other pool **dhcp-pool**, with the **10.0.0.200-10.0.0.250** address range:

```
[admin@MikroTik] ip pool> add name=ip-pool ranges=10.0.0.2-10.0.0.99,10.0.0.101
10.0.0.126
[admin@MikroTik] ip pool> add name=dhcp-pool ranges=10.0.0.200-10.0.0.250
[admin@MikroTik] ip pool> print
# NAME RANGES
0 ip-pool 10.0.0.2-10.0.0.99
10.0.0.101-10.0.0.126
1 dhcp-pool 10.0.0.200-10.0.0.250
[admin@MikroTik] ip pool>
```

## Used Addresses from Pool

Home menu level: */ip pool used*

## Description

Here you can see all used IP addresses from IP pools.

## Property Description

**address** (*read-only: IP address*) - IP address that is assigned to client from the pool

**info** (*read-only: name*) - name of the interface to which the client is connected to

**owner** (*read-only: MAC address*) - MAC address of the client

**pool** (*read-only: name*) - name of the IP pool

## Example

See used addresses from pool:

```
[admin@MikroTik] ip pool used> print
POOL ADDRESS OWNER INFO
local 192.168.0.100 00:0C:42:03:1F:60 test
local 192.168.0.99 00:0C:42:03:21:0F test
```