

Manual:IP/Pools

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Applies
to



RouterOS: 2.9, v3,
v4 +

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
- Submenu 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.



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

Setup

Sub-menu: /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

- Submenu 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
```

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