

# DMZ Configuration Example

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## Application Examples

### Summary

This manual describes how to add DMZ hosts to a network.

### Description

Short for *demilitarized zone*, the term comes from military use, meaning a buffer area between two enemies. Applying it to IT sphere, it means computer or a small subnetwork that sits between a trusted internal network, such as corporate private LAN, and an untrusted external network, such as the public Internet.

Typically, the DMZ contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP(e-mail) servers and DNSservers.

### Example

Consider the network diagram below:

The router should have 3 NIC cards:

```
[admin@gateway] interface> print
Flags: X - disabled, D - dynamic, R - running
#   NAME           TYPE           RX-RATE   TX-RATE   MTU
0   R Public        ether          0          0         1500
1   R Local         ether          0          0         1500
2   R DMZ-zone     ether          0          0         1500
[admin@gateway] interface>
```

- Add all needed ip addresses to interfaces as is shown here:

```
[admin@gateway] ip address> print
Flags: X - disabled, I - invalid, D - dynamic
#   ADDRESS          NETWORK        BROADCAST  INTERFACE
0   192.168.0.2/24    192.168.0.0   192.168.0.255  Public
1   10.0.0.254/24    10.0.0.0     10.0.0.255    Local
2   10.1.0.1/32     10.1.0.2     10.1.0.2     DMZ-zone
3   192.168.0.3/24  192.168.0.0   192.168.0.255  Public
[admin@gateway] ip address>
```

- Add a static default route to the local router:

```
[admin@MikroTik] ip route> print
Flags: X - disabled, I - invalid, D - dynamic, J - rejected,
C - connect, S - static, r - rip, o - ospf, b - bgp
#   DST-ADDRESS      G GATEWAY      DISTANCE INTERFACE
0   S 0.0.0.0/0      r 10.0.0.254   1         ether1
1   DC 10.0.0.0/24   r 0.0.0.0      0         ether1
[admin@MikroTik] ip route>
```

- Configure DMZ server with the ip address of 10.1.0.2, network 10.1.0.1 and gateway address of 10.1.0.1.
- To make DMZ server accessible from the Internet at address **192.168.0.3** configure **dst-nat** rule like this:

```
[admin@gateway] ip firewall dst-nat> add action=nat \
\... dst-address=192.168.0.3/32 to-dst-address=10.1.0.2
[admin@gateway] ip firewall dst-nat> print
Flags: X - disabled, I - invalid, D - dynamic
0   dst-address=192.168.0.3/32 action=nat to-dst-address=10.1.0.2
[admin@gateway] ip firewall dst-nat>
```