

1:1 NAT

For cPanel & WHM version 68

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Overview

Warning:

We **strongly** recommend that you **only** perform these actions on a new installation of cPanel & WHM. **Do not** attempt a 1:1 NAT configuration on an existing production server.

When you install cPanel & WHM, the installer will detect whether your server is on a NAT-configured network. If the installer detects a NAT-configured network, your server will configure itself for NAT mode and attempt to automatically map local IP addresses to public IP addresses.

Notes:

- If you use a NAT environment, your server **must** reside in a 1:1 NAT configuration to install cPanel & WHM.
- For a list of ports that you must open to allow cPanel & WHM services to function on your server, read our [How to Configure Your Firewall for cPanel Services](#) documentation.

The mapping process

The system attempts to map all non-loopback IP addresses bound to any network interface on the server to a public IP address.

To complete this process, the system performs the following actions:

1. Your server will send an outgoing connection from each local IP address to the `http://myip.cpanel.net/v1.0/ server`.
2. The `http://myip.cpanel.net/v1.0/ server` responds with the public IP address from which it received the request.
3. The system maps the local IP address to this public IP address.

Warning:

We do **not** recommend that you map more than one local IP map address to a single public IP address.

Manage IP addresses

You can manage the maps for local and remote IP addresses with the following WHM interfaces:

- [Add a New IP Address](#) (WHM >> Home >> IP Functions >> Add a New IP Address)
- [Show or Delete Current IP Address](#) (WHM >> Home >> IP Functions >> Show or Delete Current IP Address)

Each interface displays the warning notice *NAT mode enabled* if NAT is enabled on your server.

Warning:

If multiple local IP addresses match the same public IP address, the system will only map the first local IP address in the `/var/cpanel/cpnat` file.

The build_cpnat script

The `build_cpnat` script uses the `http://myip.cpanel.net/v1.0/ server` to map local IP addresses to public IP addresses. However, if you wish to use a different IP address lookup service, open the `/etc/cpsources.conf` file with a text editor and add the following line:

```
MYIP=http://myip.cpanel.net/v1.0/
```

For more information about the `build_cpnat` script, run the following command:

```
/scripts/build_cpnat --man
```

Notes:

- If you accidentally delete your `cpnat` file or the file becomes corrupted, rebuild it with the `/scripts/build_cpnat` script.
- The `/var/cpanel/cpnat` file acts as a flag file for NAT mode. If the installer mistakenly detects a NAT-configured network, delete the `/var/cpanel/cpnat` file to disable NAT mode.

Additional documentation

[Suggested documentation](#) [For cPanel users](#) [For WHM users](#) [For developers](#)

Content by label

There is no content with the specified labels



Content by label

There is no content with the specified labels



Content by label

There is no content with the specified labels



- [WHM API 1 Functions - nat_checkip](#)
- [WHM API 1 Functions - nat_set_public_ip](#)

