

RV130和RV130W VPN路由器上的一对一网络地址转换(NAT)

有关显示如何配置一对一NAT的视频，请访问<https://youtu.be/azt7b8hMXHs>

目标

一对一网络地址转换(NAT)将防火墙后的本地IP地址映射到全局IP地址。通过允许防火墙后配置有私有IP地址的系统看起来具有公有IP地址，这些地址对外部网络可见并且可用于入站连接。

本文档的目的是解释如何在RV130和RV130W路由器上配置一对一NAT。

适用设备

- RV130
- RV130W

软件版本

- v1.0.1.3

创建一对一NAT

添加新的一对一NAT规则

步骤1.登录Web配置实用程序并选择防火墙>一对一NAT。将打开“一对一NAT”页面：

One-to-One NAT

| One-to-One NAT Rule Table | | | | | |
|--|---------------------|--------------------|--------------|---------|--|
| <input type="checkbox"/> | Private Range Begin | Public Range Begin | Range Length | Service | |
| <input type="checkbox"/> No data to display | | | | | |
| <input type="button" value="Add Row"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="button" value="Configure Services"/> | | | | | |

步骤2.单击Add Row添加新的一对一NAT规则。

One-to-One NAT

| One-to-One NAT Rule Table | | | | | |
|--|---------------------|--------------------|--------------|---------|--|
| <input type="checkbox"/> | Private Range Begin | Public Range Begin | Range Length | Service | |
| <input type="checkbox"/> No data to display | | | | | |
| <input type="button" value="Add Row"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="button" value="Configure Services"/> | | | | | |

步骤3.在专用范围开始字段中，输入要可用于公共网络的专用(LAN)IP地址范围的起始IP地址

o

One-to-One NAT

You must save before you can edit or delete.

| One-to-One NAT Rule Table | | | | | |
|--|---------------------|--------------------|--------------|-------------------|--|
| <input type="checkbox"/> | Private Range Begin | Public Range Begin | Range Length | Service | |
| <input type="checkbox"/> | 192.168.1.5 | | | All Traffic [All] | |
| <input type="button" value="Add Row"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="button" value="Configure Services"/> | | | | | |

注意：注意：路由器的LAN IP地址不应包含在您指定的范围内。

步骤4.在Public Range Begin字段中，输入公共(WAN)IP地址范围的起始IP地址。此IP地址通常由您的Internet服务提供商提供。输入的第一个公有IP地址将与输入的第一个私有IP地址匹配，第二个公有IP地址将与第二个私有IP地址配对，以此类推。

One-to-One NAT

You must save before you can edit or delete.

| One-to-One NAT Rule Table | | | | | |
|--|---------------------|--------------------|--------------|-------------------|--|
| <input type="checkbox"/> | Private Range Begin | Public Range Begin | Range Length | Service | |
| <input type="checkbox"/> | 192.168.1.5 | 192.168.1.5 | | All Traffic [All] | |
| <input type="button" value="Add Row"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="button" value="Configure Services"/> | | | | | |

注意：路由器的WAN IP地址不应包含在您指定的范围内。

步骤5.在范围长度字段中，输入应映射到私有地址的公有IP地址的数量，前提是给定之前输入的私有和公有开始范围。范围长度不能超过有效IP地址的数量。要映射单个地址，请输入“1”。

One-to-One NAT

You must save before you can edit or delete.

| One-to-One NAT Rule Table | | | | |
|---------------------------|---------------------|--------------------|--------------|-------------------|
| <input type="checkbox"/> | Private Range Begin | Public Range Begin | Range Length | Service |
| <input type="checkbox"/> | 192.168.1.5 | | 3 | All Traffic [All] |

Add Row Edit Delete Configure Services

Save Cancel

第6步：在Service下拉列表中，选择将流量发送到相应的公有IP地址时，私有IP(LAN)地址将接受哪种服务。

One-to-One NAT

You must save before you can edit or delete.

| One-to-One NAT Rule Table | | | | |
|---------------------------|---------------------|--------------------|--------------|-------------------|
| <input type="checkbox"/> | Private Range Begin | Public Range Begin | Range Length | Service |
| <input type="checkbox"/> | 192.168.1.5 | | 3 | All Traffic [All] |

Add Row Edit Delete Configure Services

Save Cancel

- All Traffic [All]
- DNS [UDP/53-53]
- FTP [TCP/21-21]
- HTTP [TCP/80-80]
- HTTP Secondary [TCP/8080-8080]
- HTTPS [TCP/443-443]
- HTTPS Secondary [TCP/8443-8443]
- TFTP [UDP/69-69]
- IMAP [TCP/143-143]
- NNTP [TCP/119-119]
- POP3 [TCP/110-110]
- SNMP [UDP/161-161]
- SMTP [TCP/25-25]
- TELNET [TCP/23-23]
- TELNET Secondary [TCP/8023-8023]
- TELNET SSL [TCP/992-992]
- Voice(SIP) [TCP & UDP/5060-5061]

注意：如果要更改此字段中的可用服务，请单击Configure Services按钮以打开Service Management页。有关详细信息，请参阅[RV130和RV130W上的服务管理](#)一文。

步骤7.单击Save保存一对一NAT规则的配置。

One-to-One NAT

You must save before you can edit or delete.

| One-to-One NAT Rule Table | | | | |
|---------------------------|---------------------|--------------------|--------------|-------------------|
| <input type="checkbox"/> | Private Range Begin | Public Range Begin | Range Length | Service |
| <input type="checkbox"/> | 192.168.1.5 | | 3 | All Traffic [All] |

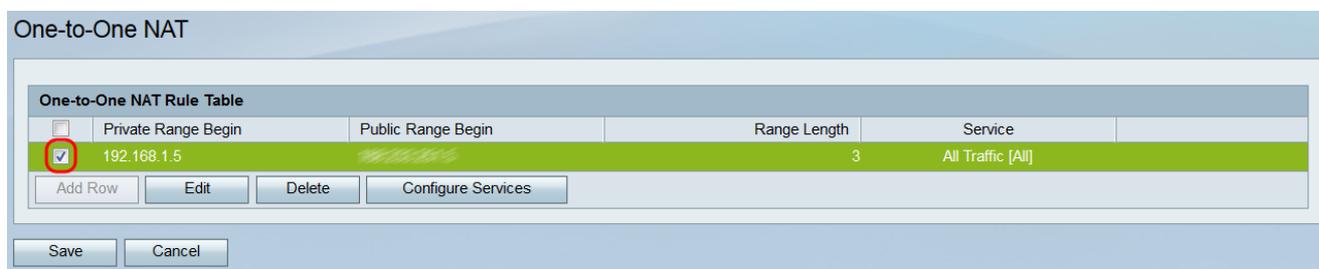
Add Row Edit Delete Configure Services

Save Cancel

注意：最多可以制定10个规则。

编辑/删除一对一NAT规则

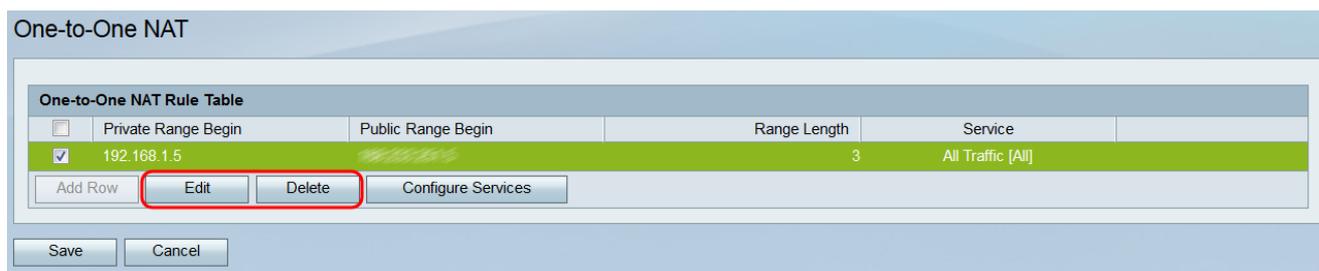
步骤1.选中与要编辑或删除的所需规则对应的复选框。



The screenshot shows the "One-to-One NAT" configuration window. At the top, there is a "One-to-One NAT Rule Table" with the following columns: Private Range Begin, Public Range Begin, Range Length, and Service. The first row is selected, with a checkmark in the first column and the value "192.168.1.5" in the second column. Below the table are buttons for "Add Row", "Edit", "Delete", and "Configure Services". At the bottom of the window are "Save" and "Cancel" buttons.

| | Private Range Begin | Public Range Begin | Range Length | Service |
|-------------------------------------|---------------------|--------------------|--------------|-------------------|
| <input checked="" type="checkbox"/> | 192.168.1.5 | | 3 | All Traffic [All] |

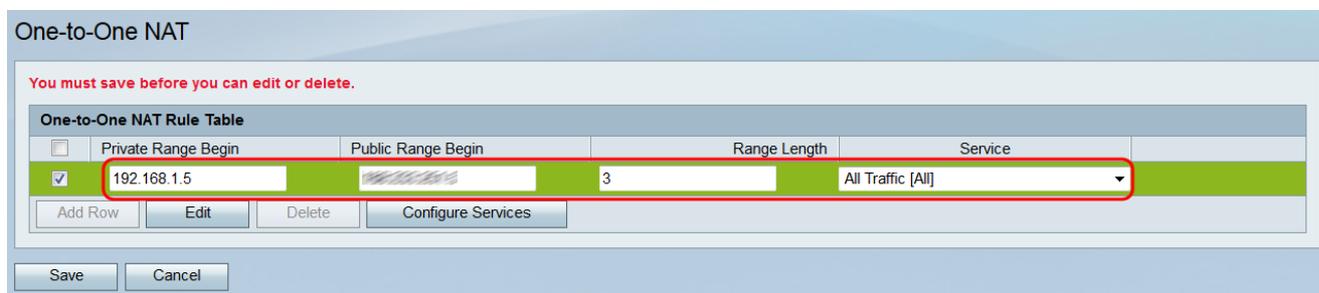
步骤2.如果要编辑所选规则，请单击Edit。如果要删除选定的规则，请单击Delete。如果单击Delete，请跳至[步骤4](#)。



This screenshot is identical to the previous one, but the "Edit" and "Delete" buttons are highlighted with a red box, indicating they are the focus of the next step.

注意：单击Delete将会出现警告，提示您必须单击Save才能保存更改。

步骤3.如果单击Edit，则所选规则的字段将变为可用。进行所有必要的更改。



This screenshot shows the "One-to-One NAT" configuration window after the "Edit" button was clicked. A red message at the top states: "You must save before you can edit or delete." The fields in the table are now active and highlighted with a red box. The "Private Range Begin" field contains "192.168.1.5", the "Public Range Begin" field is empty, the "Range Length" field contains "3", and the "Service" field is a dropdown menu set to "All Traffic [All]".

You must save before you can edit or delete.

| | Private Range Begin | Public Range Begin | Range Length | Service |
|-------------------------------------|---------------------|--------------------|--------------|-------------------|
| <input checked="" type="checkbox"/> | 192.168.1.5 | | 3 | All Traffic [All] |

步骤4.单击保存以应用更改或删除指定的规则。

One-to-One NAT

You must save before you can edit or delete.

One-to-One NAT Rule Table

| <input type="checkbox"/> | Private Range Begin | Public Range Begin | Range Length | Service | |
|-------------------------------------|---------------------|---|--------------|-------------------|--|
| <input checked="" type="checkbox"/> | 192.168.1.5 |  | 3 | All Traffic [All] | |

Add Row Edit Delete Configure Services

Save

Cancel

关于此翻译

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