How to enable the HAProxy statistics page in OPNsense

Step 1: Edit Global Settings

In the left-hand menu, go to **Services** , select **HAPproxy** and then and then **Settings**.

- Under the **Settings** tab, locate the **Global Parameters**
- Enable ' **Advanced Mode**' on the top left of the page
- Add or modify the following configuration line in the “**Custom Options**” field (on the bottom of the picture):

```
stats socket /var/run/haproxy.socket group proxy mode 775 level admin
```

This enables a UNIX socket for administrative purposes.

Global Parameters

Run as root

☐

Enable or disable HAProxy running as user root. Enabling this option is strongly discouraged.
NOTE: Running as user root could be a security issue but it may be required by some features.

HAProxy threads

4

Number of threads to create for each HAProxy process.

Maximum connections

5000

Sets the maximum number of concurrent connections per HAProxy process.
NOTE: Consider raising the settings for kern.maxfiles and kern.maxfilesperproc in System: Settings: Tunables, otherwise HAProxy will fail to open the specified number of connections.

DNS prefer IP family

IPv4

This option allows to choose which IP family is preferred when resolving DNS names. This is useful when IPv6 or IPv4 is not available. It solves a common issue with OCSP updates.

Verify SSL Server Certificates

no preference [default]

This enforces a certain behavior for SSL verify on servers, ignoring per-server settings. If set to 'enforce verify', server certificates are verified. If set to 'disable verify', server certificates are not verified. The default is 'no preference' to only use per-server configurations and not enforce a global default for all servers.

Maximum SSL DH Size

4096

Sets the maximum size of the Diffie-Hellman parameters used for generating the ephemeral/temporary Diffie-Hellman key in case of DHE key exchange (default is 1024).
NOTE: Higher values will increase the CPU load. For more information about the "tune.ssl.default-dh-param" option please see the HAProxy Documentation.

Buffer size

16384

Change the buffer size (in bytes). Lower values allow more sessions to coexist in the same amount of RAM, and higher values allow some applications with very large cookies to work. The default value is 16384.
NOTE: It is strongly recommended not to change this from the default value, as very low values will break some services such as statistics, and values larger than default size will increase memory usage, possibly causing the system to run out of memory.

Maximum RAM per LUA process

0

Sets the maximum amount of RAM in megabytes per process usable by Lua. By default it is zero which means unlimited. It is important to set a limit to ensure that a bug in a script will not result in the system running out of memory.

Spread checks

2

Add some randomness in the check interval between 0 and +/- 50%. A value between 2 and 5 seems to show good results. The default value is 0 (disabled).

Enable old bogus PROXY v2 implementation

☐

A bug in the PROXY protocol v2 implementation was present in HAProxy up to version 2.1. Enabling this option reverts this old buggy behaviour.

Custom options

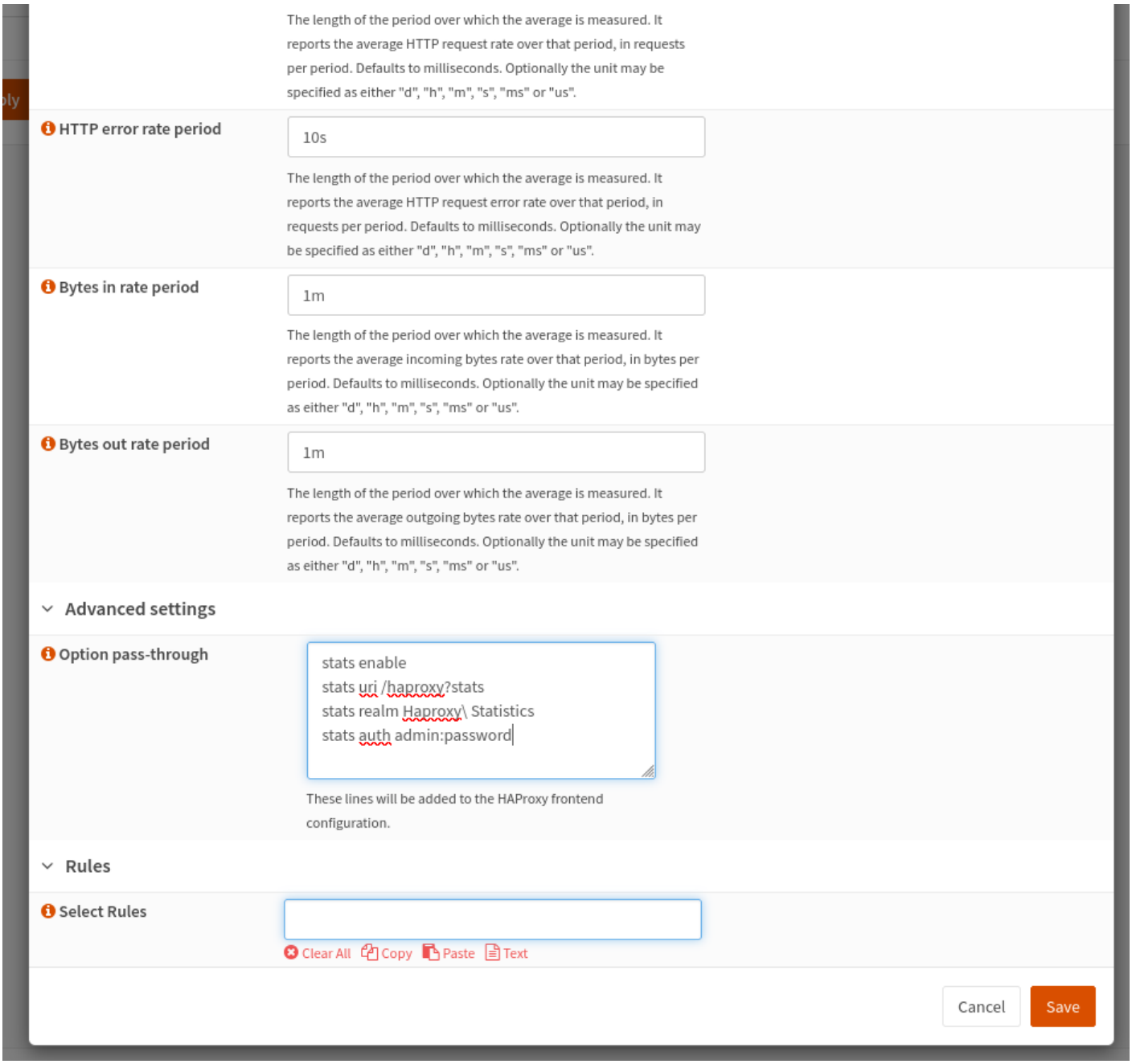
stats socket /var/run/haproxy.socket group proxy mo …

Step 2: Configure Statistics in Frontend Settings

- Go to **Virtual Servers** in the Top menu
- Click the + sign and add a new Public Service: '**StatsFrontend**'
- In this frontend, configure it as follows:
  - Set Name: **StatsFrontend**
  - Set Listen Adressess: set to local IP address of OPNsense (e.g. 192.168.2.1) with the default port 8822
  - Set Type to default **HTTP/HTTPS (SSL offloading) [default]**
  - Scroll all the way down to “**Advanced Settings**”, add these lines in the “**Option Pass-through**” field:

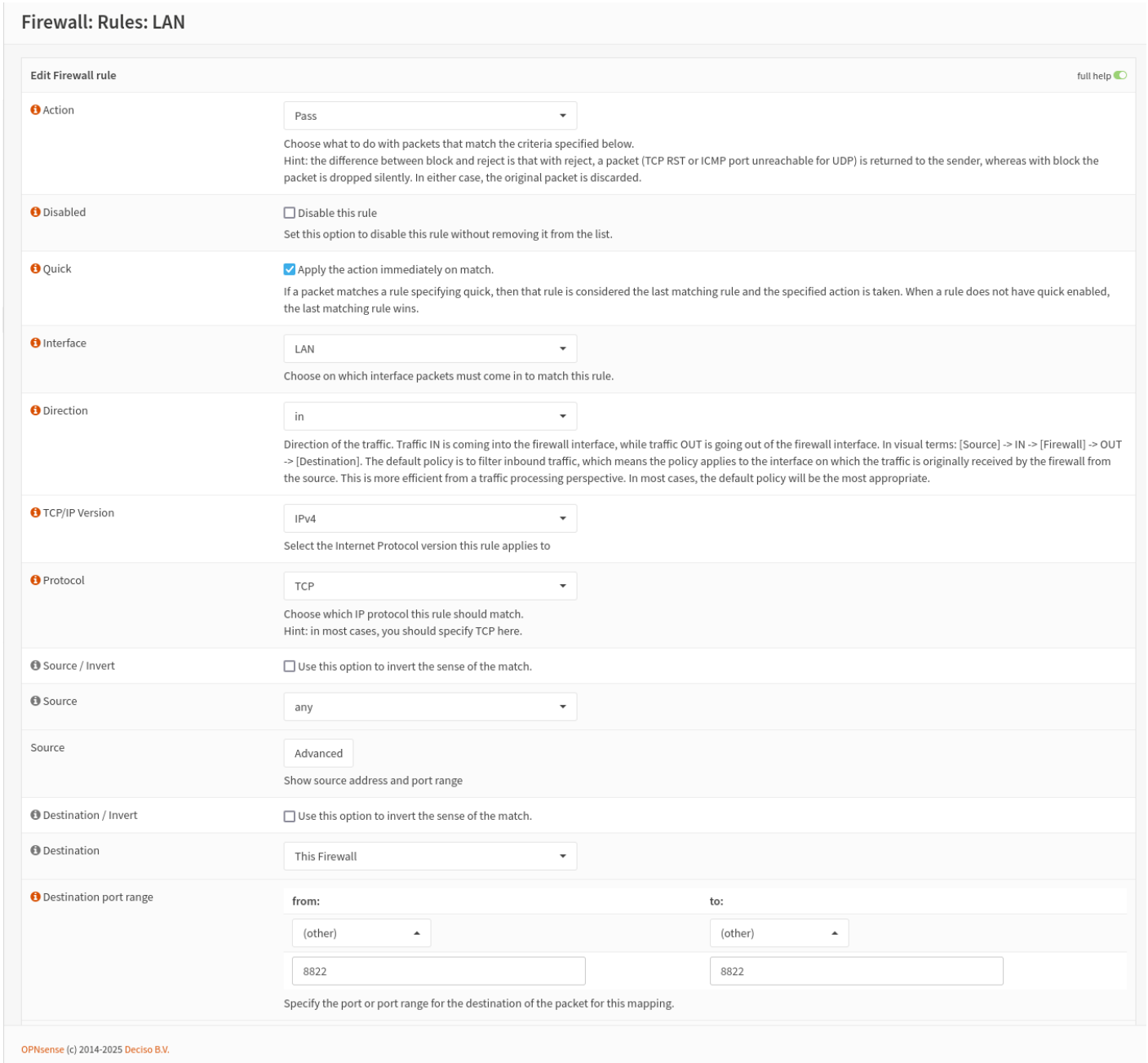
  ```
  stats enable
  stats uri /haproxy?stats
  stats realm Haproxy\ Statistics
  stats auth admin:password123
  ```

  Replace **admin** with your desired username and **password** with a strong password.
  - Click on “Save” and then apply changes by clicking on “Apply”.



Step 3: Configure Firewall Rules

1. **Allow Access to the Statistics Port**:
   - Navigate to **Firewall > Rules > LAN**
   - Create a new rule with these parameters:
     - Action: **Pass**
     - Protocol: **TCP**
     - Destination: **This Firewall**
     - Destination Port Range: **Other and the 8822**
     - Description: **Access the Statistics page**
     - Leave everything else to the default values
     - Save the rule and click on “Apply Changes”.



Step 4: Test Access to the Statistics Page

1. Open a web browser from a device allowed by your firewall rules.
2. Enter the URL for accessing statistics, such as:

```
http://192.168.2.1:8822/haproxy?stats
```

Enter the username and password you configured earlier when prompted.

If everything is configured correctly, you should see HAProxy’s statistics page displaying real-time data about connections, backends, frontends, etc.

HAProxy version 2.8.13-8eb4f8c, released 2024/12/12

Statistics Report for pid 64479

> General process information

pid = 64479 (process #1, nbproc = 1, nbthread = 4)
uptime = 0d 0h00m24s; warnings = 0
system limits: memmax = unlimited; ulimit-n = 10037
maxsock = 10037; **maxconn** = 5000; **reached** = 0; **maxpipes** = 0
current conns = 1; current pipes = 0/0; conn rate = 0/sec; bit rate = 0.000 kbps
Running tasks: 0/23; idle = 100 %

active UP
active UP, going down
active DOWN, going up
active or backup DOWN
active or backup DOWN for maintenance (MAINT)
active or backup SOFT STOPPED for maintenance
backup UP
backup UP, going down
backup DOWN, going up
not checked
Note: "NOLB"/"DRAIN" = UP with load-balancing disabled.

Display option:
- Scope :
- Hide 'DOWN' servers
- Refresh now
- CSV export
- JSON export (schema)

External resources:
- Primary site
- Updates (v2.8)
- Online manual

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	Queue			Session rate			Sessions						Bytes		Denied		Errors			Warnings		Server								
	Cur	Max	Limit	Cur	Max	Limit	Cur	Max	Limit	Total	LbTot	Last	In	Out	Req	Resp	Req	Conn	Resp	Retr	Redis	Status	LastChk	Wght	Act	Bck	Chk	Dwn	Dwntme	Thrtle
Frontend				0	0	-	0	0	5 000	0			0	0	0	0	0					OPEN								

StatsFrontend

	Queue			Session rate			Sessions						Bytes		Denied		Errors			Warnings		Server								
	Cur	Max	Limit	Cur	Max	Limit	Cur	Max	Limit	Total	LbTot	Last	In	Out	Req	Resp	Req	Conn	Resp	Retr	Redis	Status	LastChk	Wght	Act	Bck	Chk	Dwn	Dwntme	Thrtle
Frontend				0	1	-	1	1	5 000	1			420	469	0	0	0					OPEN								

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	Queue			Session rate			Sessions						Bytes		Denied		Errors			Warnings		Server								
	Cur	Max	Limit	Cur	Max	Limit	Cur	Max	Limit	Total	LbTot	Last	In	Out	Req	Resp	Req	Conn	Resp	Retr	Redis	Status	LastChk	Wght	Act	Bck	Chk	Dwn	Dwntme	Thrtle
ffuitleggen	0	0	-	0	0		0	0	2000	0	0	?	0	0		0		0	0	0	0	*no check*		1/1	Y	-				-
Backend	0	0		0	0		0	0	500	0	0	?	0	0	0	0		0	0	0	0	25s UP		1/1	1	0		0	0s	

local_statistics

	Queue			Session rate			Sessions						Bytes		Denied		Errors			Warnings		Server								
	Cur	Max	Limit	Cur	Max	Limit	Cur	Max	Limit	Total	LbTot	Last	In	Out	Req	Resp	Req	Conn	Resp	Retr	Redis	Status	LastChk	Wght	Act	Bck	Chk	Dwn	Dwntme	Thrtle
Frontend				0	0	-	0	0	5 000	0			0	0	0	0	0					OPEN								
Backend	0	0		0	0		0	0	500	0	0	?	0	0	0	0		0	0	0	0	25s UP		0/0	0	0		0		

Revisie #5
Gemaakt: 24 januari 2025 16:05:27 door Gert
Bijgewerkt: 24 januari 2025 16:56:19 door Gert