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FastPCRF (BRAS integration by RADIUS)

PCRF provides proxying requests from fastDPI to the Radius server. It is a part of the standard Stingray Service Gateway installation package, but if necessary, it can be used as a dedicated server.

Hardware Recommendations

In order to run PCRF you can use the following hardware or virtual machines matching the following characteristics:

1. CPU 2.5 GHz, 1 pcs
2. RAM 512 MB - 1 GB
3. HDD 50 GB - 250 GB
4. Operating system Cent OS 8.5, [VEOS](#).
 When using VEOS, take into account the information in [VEOS Update Notes](#) when selecting hardware.
5. NIC ranging from 10 Mb/s

Installation

1. Install the Network Time Protocol daemon

```
yum install chrony -y
systemctl restart chronyd
timedatectl
```

 When entering the `timedatectl` command, the `System clock synchronized` parameter must be set to `yes`

2. Add vasexperts repository

```
rpm --import http://vasexperts.ru/centos/RPM-GPG-KEY-vasexperts.ru
rpm -Uvh
http://vasexperts.ru/centos/6/x86_64/vasexperts-repo-2-1.noarch.rpm
```

3. Install the fastPCRF

```
yum install fastpcrf
```

4. Make sure the service is running

```
service fastpcrf start
```

5. Configure fastpcrf service to run at startup

```
systemctl enable fastpcrf
```

6. Open firewall ports in order to access the fastPCRF and Radius servers

```
firewall-cmd --permanent --zone=public --add-port=22/tcp  
firewall-cmd --permanent --zone=public --add-port=3799/udp  
firewall-cmd --permanent --zone=public --add-port=29002/tcp
```

and restart firewall for the rules to take effect

```
firewall-cmd --reload
```

1. Disable selinux ¹⁾

```
setenforce 0  
vi /etc/selinux/config  
SELINUX=disabled
```

Installation of the fdpi_cli and fdpi_ctrl utilities on the PCRF server

You can get these utilities from the server where fastDPI is installed.
The utility files are located in /usr/sbin/.

1. Copy the utilities to the home directory

```
cp /usr/sbin/fdpi_cli /home/vasexpertsmt  
cp /usr/sbin/fdpi_ctrl /home/vasexpertsmt
```

2. Move these files to the server where fastPCRF is installed, to /home/vasexpertsmt

How to use the utility:

```
fdpi_cli -r 1.1.1.1 dpi config get trace_ip  
fdpi_cli -r 2.2.2.2 pcrf config get verbose  
fdpi_ctrl -r 1.1.1.1:29000 list all --bind
```

Server address - 1.1.1.1 where the fastDPI module is installed.
Server address - 2.2.2.2 where the fastPCRF module is installed.

¹⁾

temporary solution