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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 6.4+, 8+, [VEOS 8.6](#)
5. NIC ranging from 10 Mb/s

Installation

1. Install the Network Time Protocol daemon

```
yum install ntp -y
ntpdate pool.ntp.org
service ntpd start
chkconfig ntpd on
```

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

```
chkconfig fastpcrf on
```

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

```
vi /etc/sysconfig/iptables
-A INPUT -m state --state NEW -m tcp -p tcp --dport 22 -j ACCEPT
#Radius
```

```
-A INPUT -m state --state NEW -m udp -p udp --dport 1812 -j ACCEPT
-A INPUT -m state --state NEW -m udp -p udp --dport 1813 -j ACCEPT
-A INPUT -m state --state NEW -m udp -p udp --dport 3799 -j ACCEPT
#fastDPI
-A INPUT -m state --state NEW -m tcp -p tcp --dport 29002 -j ACCEPT
```

and restart firewall for the rules to take effect

```
service iptables restart
```

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