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9 PCRF Policy Server

PCRF provides proxying requests from fastDPI to the Radius server. It is a part of the standard VAS Experts DPI 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 - 7+
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
```

¹⁾

temporary solution