

icecast

Icecast – свободное ПО для организации потокового цифрового аудио и видеовещания. Icecast является серверной программой, которая может осуществлять раздачу цифровых потоков различных форматов, таких как Ogg Vorbis, Opus, MP3, Theora, AAC, AAC Plus и NSV. Передача данных осуществляется по стандартному протоколу HTTP, либо по протоколу SHOUTcast. Icecast поддерживает теги в UTF-8, что позволяет организовывать трансляцию с русской аннотацией.

Установка с репозитория epel:

```
# yum install epel-release
# yum install icecast
```

Настройка

```
vi /etc/icecast.xml
```

```
<icecast> <!-- location and admin are two arbitrary strings
that are e.g. visible
        on the server info page of the icecast web interface
        (server_version.xsl). -->
<location>RING</location>
<admin>icemaster@domen.com</admin>
<limits>
    <clients>1000</clients>
    <sources>200</sources>
    <threadpool>500</threadpool>
    <queue-size>524288</queue-size>
    <client-timeout>30</client-timeout>
    <header-timeout>15</header-timeout>
    <source-timeout>10</source-timeout>
    <burst-on-connect>1</burst-on-connect>
    <burst-size>65535</burst-size>
</limits>
<authentication>
    <source-password>hackme</source-password>
    <relay-password>hackme</relay-password>
```

```
<admin-user>admin</admin-user>
<admin-password>hackme</admin-password>
</authentication>
<hostname>host.dome.com</hostname>
<listen-socket>
  <port>8000</port>
  <bind-address>192.168.113.1</bind-address>
</listen-socket>
<!-- Nashe Radio -->
<relay>
  <server>185.128.234.102</server>
  <port>8000</port>
  <mount>/nashe</mount>
  <local-mount>/nashe</local-mount>
  <on-demand>1</on-demand>
  <relay-shoutcast-metadata>1</relay-shoutcast-metadata>
</relay>
<!-- hitfm.ua 96.4 -->
<relay>
  <server>195.95.206.17</server>
  <port>8000</port>
  <mount>/HitFM</mount>
  <local-mount>/HitFM</local-mount>
  <on-demand>1</on-demand>
  <relay-shoutcast-metadata>1</relay-shoutcast-metadata>
</relay>
<!-- jamfm.ua 95.6 -->
<relay>
  <server>185.128.234.102</server>
  <port>8000</port>
  <mount>/jamfm</mount>
  <local-mount>/jamfm</local-mount>
  <on-demand>1</on-demand>
  <relay-shoutcast-metadata>1</relay-shoutcast-metadata>
</relay>
<!-- Shanson 101.9 Kiev -->
<relay>
  <server>media2.brg.ua</server>
  <port>8000</port>
  <mount>/shanson_h</mount>
  <local-mount>/shanson</local-mount>
```

```
        <on-demand>1</on-demand>
        <relay-shoutcast-metadata>1</relay-shoutcast-metadata>
    </relay>
<!-- KissFM -->
    <relay>
        <server>195.95.206.14</server>
        <port>8000</port>
        <mount>/KissFM</mount>
        <local-mount>/kissfm</local-mount>
        <on-demand>1</on-demand>
        <relay-shoutcast-metadata>1</relay-shoutcast-metadata>
    </relay>
<!-- EuropaPlus -->
    <relay>
        <server>185.128.234.102</server>
        <port>8000</port>
        <mount>/europaplus</mount>
        <local-mount>/europaplus</local-mount>
        <on-demand>1</on-demand>
        <relay-shoutcast-metadata>1</relay-shoutcast-metadata>
    </relay>
<!-- Radiopyatnica -->
    <relay>
        <server>185.128.234.101</server>
        <port>80</port>
        <mount>/radiopyatnica</mount>
        <local-mount>/radiopyatnica</local-mount>
        <on-demand>1</on-demand>
        <relay-shoutcast-metadata>1</relay-shoutcast-metadata>
    </relay>
<!-- AvtoRadio -->
    <relay>
        <server>cast.radiogroup.com.ua</server>
        <port>8000</port>
        <mount>/avtoradio</mount>
        <local-mount>/avtoradio</local-mount>
        <on-demand>1</on-demand>
        <relay-shoutcast-metadata>1</relay-shoutcast-metadata>
    </relay>
<!-- Radio ROKS -->
    <relay>
```

```

    <server>online-radioroks.tavrmedia.ua</server>
    <port>8000</port>
    <mount>/RadioR0KS</mount>
    <local-mount>/radioR0KS</local-mount>
    <on-demand>1</on-demand>
    <relay-shoutcast-metadata>1</relay-shoutcast-metadata>
</relay>
<!-- Radio Melodia -->
<relay>
    <server>online-radiomelodia.tavrmedia.ua</server>
    <port>80</port>
    <mount>/RadioMelodia</mount>
    <local-mount>/radioMelodia</local-mount>
    <on-demand>1</on-demand>
    <relay-shoutcast-metadata>1</relay-shoutcast-metadata>
</relay>
<!-- NRJ RU -->
<relay>
    <server>ic3.101.ru</server>
    <port>8000</port>
    <mount>/s20</mount>
    <local-mount>/NRJ</local-mount>
    <on-demand>1</on-demand>
    <relay-shoutcast-metadata>1</relay-shoutcast-metadata>
</relay>
<!-- RETRO RU -->
<relay>
    <server>retroserver.streamr.ru</server>
    <port>8043</port>
    <mount>/retro256.mp3</mount>
    <local-mount>/retro</local-mount>
    <on-demand>1</on-demand>
    <relay-shoutcast-metadata>1</relay-shoutcast-metadata>
</relay>
<fileserve>1</fileserve>
<paths>
    <basedir>/usr/share/icecast</basedir>
    <logdir>/var/log/icecast</logdir>
    <webroot>/usr/share/icecast/web</webroot>
    <adminroot>/usr/share/icecast/admin</adminroot>
    <alias source="/" dest="/status.xml"/>

```

```
</paths>
<logging>
  <accesslog>access.log</accesslog>
  <errorlog>error.log</errorlog>
  <loglevel>4</loglevel> <!-- 4 Debug, 3 Info, 2 Warn, 1
Error -->
  <logsize>100000</logsize>
</logging>
<security>
  <chroot>0</chroot>
  <changeowner>
    <user>icecast</user>
    <group>icecast</group>
  </changeowner>
</security>
</icecast>
```

Добавляем правила в iptables

```
....
# ICECAST
iptables -I INPUT 1 -p tcp --dport 8000:8003 -j ACCEPT
iptables -I INPUT 1 -p tcp --dport 9500 -j ACCEPT

#-----
# Logs
#-----
#iptables -A INPUT -m limit --limit 5/min -j LOG --log-prefix
"iptables denied: " --log-level 4
....
```

Стартуем сервис:

```
# systemctl start icecast
# systemctl status icecast
# systemctl enable icecast
```

Проверяем набирая в браузере:

<http://192.168.113.1:8000/>

Слушаем например HitFM так:

`http://192.168.113.1:8000/HitFM`

Для удобства создаем на ПК с которого будем слушать радио файл с расширением *.m3u с таким содержимым:

```
#EXTM3U
#EXTVLCOPT:network-caching=1000
http://192.168.113.1:8000/HitFM
#EXTVLCOPT:network-caching=1000
http://192.168.113.1:8000/jamfm
#EXTVLCOPT:network-caching=1000
http://192.168.113.1:8000/nashe
#EXTVLCOPT:network-caching=1000
http://192.168.113.1:8000/shanson
#EXTVLCOPT:network-caching=1000
http://192.168.113.1:8000/kissfm
#EXTVLCOPT:network-caching=1000
http://192.168.113.1:8000/europaplus
#EXTVLCOPT:network-caching=1000
http://192.168.113.1:8000/nrj
#EXTVLCOPT:network-caching=1000
http://192.168.113.1:8000/avtoradio
#EXTVLCOPT:network-caching=1000
http://192.168.113.1:8000/radioR0KS
#EXTVLCOPT:network-caching=1000
http://192.168.113.1:8000/radioMelodia
#EXTVLCOPT:network-caching=1000
http://192.168.113.1:8000/teuphoria
#EXTVLCOPT:network-caching=1000
http://192.168.113.1:8000/NRJ
#EXTVLCOPT:network-caching=1000
http://192.168.113.1:8000/retro
```

И открываем его, например, VLC player. Теперь все станции в одном плейлисте и не нужно прыгать по вкладкам.