Whisper Murmur Configuration

21 December 2010

Introduction

The MurmurVoice module is currently tested with

- murmur 1.2.1
- OpenSim 0.6.9 postfix

Murmur

1. Download and unpack murmur:

```
# wget http://sourceforge.net/projects/mumble/files/Mumble/1.2.1/murmur-
  static_x86-1.2.1.tar.lzma/download
# lzma -d murmur-static_x86-1.2.1.tar.lzma
# tar -xvf murmur-static_x86-1.2.1.tar
```

2. Edit `murmur.ini`:

```
database=<sqlight-file>
dbus=session
ice="tcp -h 127.0.0.1 -p 6502"
logfile=<log-file>
pidfile=<murmur-pid-file>
port=64737
```

   <sqlight-file>   The location can be freely defined. It will be created automatically

3. Start murmur (here with PWD installation dir):

```
# ./murmur.x86 -ini ./murmur.ini
```

   Murmur will automatically start as daemon.

4. In order to shutdown glacier, it is necessary to use the kill command. The best is to use it in combination with a pid file. For example:

```
kill `cat <murmur-pid-file>`
```

ZeroC-Ice

1. Install the package `ice33-services` (Ubuntu 9.10).

2. If the files `Ice.dll` and `Glacier2.dll` are not in the path, they must be copied to `opensim/bin`.

Glacier2

THE CURRENT VERSION 0.1.0 OF THE MURMUR VOICE MODLUE DOES NOT YET SUPPORT GLACIER2.

Glacier2 is a Ice routing and firewall utility, and allows you to securely run the server on one machine and murmur on another. Note that if both server and client are on a secure LAN, you can just use iptables to protect the Ice port, which is a lot easier than setting up Glacier2.

The examples here assume that *<Interface-IP>* is the public IP address of the server running Murmur. We're going to use the username "magic" with the password "pink".

Glacier2 will run on the same server where murmur is running.

Configuring Glacier2

1. Edit config file `config.glacier2`:

   ```
   Glacier2.Client.Endpoints=tcp -h <Interface-IP> -p 4063
   Glacier2.Server.Endpoints=tcp -h 127.0.0.1
   Glacier2.SessionTimeout=60
   Glacier2.CryptPasswords=passwords.txt
   ```

2. Then, create a password hash using the OpenSSL utility.

   ```
   openssl passwd pink
   ```

   this will spit out a hash, which looks something like `CTThafhdv9Lz2`

3. Add the follwing line to `passwords.txt` containing:

   `magic CTThafhdv9Lz2` *(Example only)*

4. Start glacier2 as this:

   ```
   glacier2router --Ice.Config=config.glacier2 --daemon --pidfile
   <glacier2-pid-file>
   ```

5. In order to shutdown glacier2 it is necessary to issue a kill command on the pid:

   ```
   kill `cat <glacier2-pid-file>`
   ```

OpenSim

1. Checkout the source code to a new directory (here `MurmurVoice`):

   ```
   # svn co https://subversion.assembla.com/svn/Whisper/tags/server_0.1.0 MurmurVoice
   ```

2. Create a link to the opensim home directory:

   ```
   # cd MurmurVoice/src
   # ln -s <opensim-dir> opensim
   ```

3. Build the module:

   ```
   # nant
   ```

   The Module is compiled and the resulting dll is copied to the opensim directory.
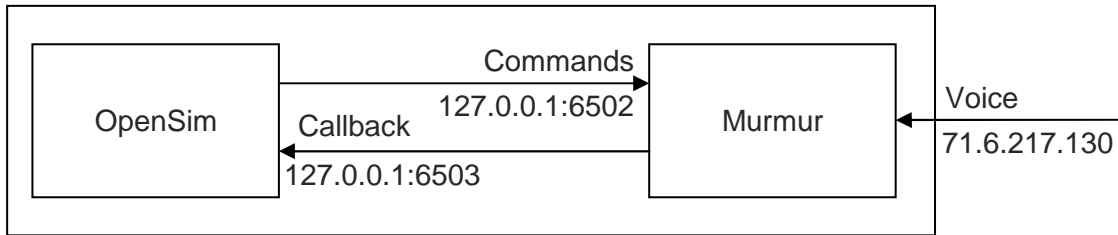
4. Add the following lines to `OpenSim.ini`:

   ```
   [MurmurVoice]

       ; New voice daemon which will do speaker indication,
       ; positional voice, and high quality audio codec. Host voice on the
       ; same server, or use Glacier2 to proxy the insecure ICE protocol.
       enabled     = true
       ; Hostname to send the user
       murmur_host = <murmur-ip>
       ; Server identifier (normally 1)
       murmur_sid  = 1
       ; Endpoint to system running mumble
       murmur_ice  = tcp -h 127.0.0.1 -p 6502
       ; Endpoint to this system (not needed for glacier2)
       murmur_ice_cb= tcp -h 127.0.0.1 -p 6503
       ; Parent channel name to use
       channel_name = <channel-name> must be the same as the region name
       ; Enable use of glacier2 (ignore murmur_ice_cb if false)
       glacier     = true
       ; Glacier proxy
       glacier_ice = Glacier2/router:tcp -p 4063 -h <murmur-ip>
   ```

```
; Glacier session user
glacier_user = <glacier2-user-name>
; Glacier session password
glacier_pass = <glacier2-password>
```

Example 1: Direct Connection on Same Server

Murmur.ini

```
database=/var/murmur.sqlite
dbus=session
ice="tcp -h 127.0.0.1 -p 6502"
logfile=/var/murmur.log
pidfile=/tmp/murmur.pid
port=64737
```
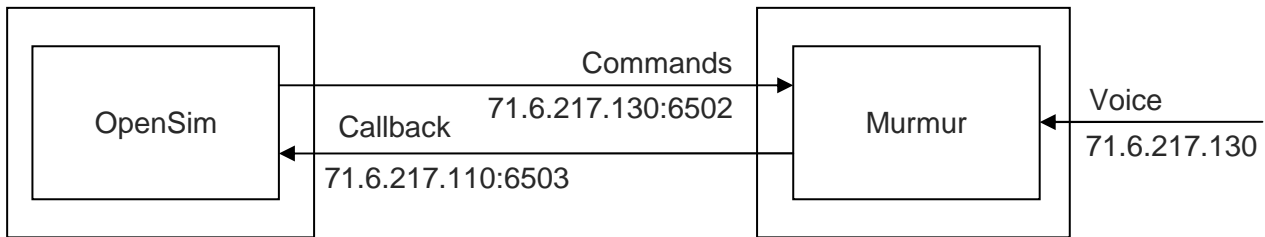
OpenSim.ini

```
[MurmurVoice]

    ; New voice daemon which will do speaker indication,
    ; positional voice, and high quality audio codec. Host voice on the
    ; same server, or use Glacier2 to proxy the insecure ICE protocol.
    enabled     = true
    ; Hostname to send the user
    murmur_host  = 71.6.217.130
    ; Server identifier (normally 1)
    murmur_sid   = 1
    ; Endpoint to system running mumble
    murmur_ice   = tcp -h 127.0.0.1 -p 6502
    ; Endpoint to this system (not needed for glacier2)
    murmur_ice_cb= tcp -h 127.0.0.1 -p 6503
    ; Parent channel name to use
    channel_name = ANY1
    ; Enable use of glacier2 (ignore murmur_ice_cb if false)
    glacier      = false
    ; Glacier proxy
    glacier_ice  = Glacier2/router:tcp -p 4063 -h <murmur-ip>
    ; Glacier session user
    glacier_user = <glacier2-user-name>
    ; Glacier session password
    glacier_pass = <glacier2-password>
```

The Glacier2 settings will not be taken into account.

Example 2: Connection Between two Different Servers

Murmur.ini

```
database=/var/murmur.sqlite
dbus=session
ice="tcp -h 71.6.217.130 -p 6502"
logfile=/var/murmur.log
pidfile=/tmp/murmur.pid
port=64737
```

OpenSim.ini

```
[MurmurVoice]

    ; New voice daemon which will do speaker indication,
    ; positional voice, and high quality audio codec. Host voice on the
    ; same server, or use Glacier2 to proxy the insecure ICE protocol.
    enabled     = true
    ; Hostname to send the user
    murmur_host = 71.6.217.130
    ; Server identifier (normally 1)
    murmur_sid  = 1
    ; Endpoint to system running mumble
    murmur_ice  = tcp -h 71.6.217.130 -p 6502
    ; Endpoint to this system (not needed for glacier2)
    murmur_ice_cb= tcp -h 71.6.217.110 -p 6503
    ; Parent channel name to use
    channel_name = ANY1
    ; Enable use of glacier2 (ignore murmur_ice_cb if false)
    glacier      = false
    ; Glacier proxy
    glacier_ice  = Glacier2/router:tcp -p 4063 -h <murmur-ip>
    ; Glacier session user
    glacier_user = <glacier2-user-name>
    ; Glacier session password
    glacier_pass = <glacier2-password>
```

The Glacier2 settings will not be taken into account.