Whisper Murmur Configuration *21 December 2010*

# Introduction

The MurmurVoice module is currently tested with

* murmur 1.2.1
* OpenSim 0.6.9 postfix

# Pre-Requisites

* OpenSim 0.6.9 postfix complete tree installed including source code

# 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

1. 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

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

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

Murmur will automatically start as daemon.

1. 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

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

openssl passwd pink

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

1. Add the follwing line to passwords.txt containing:

magic CTThafhdv9Lz2 *(Example only)*

1. Start glacier2 as this:

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

1. 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):

# git clone git://github.com/vgaessler/whisper\_server.git MurmurVoice

1. Create a link to the opensim home directory:

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

1. Build the module:

# nant

The Module is compiled and the resulting dll is copied to the opensim directory.

1. 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

: the following parameters are only used when working with Glacier 2  
 ; 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

Voice

Callback

Commands

Murmur

OpenSim

71.6.217.130

127.0.0.1:6502

127.0.0.1:6503

**Murmur.ini**

database=/var/murmur.sqlite  
dbus=session  
ice="tcp -h 127.0.0.1 -p 6502"  
logfile=/var/murmur.log  
pidfile=/tmp/murmur.pidport=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 = MyRegion

; 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

Commands

Murmur

71.6.217.130

Voice

OpenSim

71.6.217.130:6502

Callback

71.6.217.110:6503

**Murmur.ini**

database=/var/murmur.sqlite  
dbus=session  
ice="tcp -h 71.6.217.130 -p 6502"  
logfile=/var/murmur.log  
pidfile=/tmp/murmur.pidport=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 = MyRegion

; 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.