



INSTITUTO POLITÉCNICO NACIONAL.
ESCUELA SUPERIOR DE CÓMPUTO.
INGENIERÍA DE SOFTWARE.



“Emitir y Recibir en un Canal MultiCast”

Que presenta.

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Del grupo

3CM16

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Código

```
import java.io.IOException;

import java.net.*;

import java.util.logging.Level;

import java.util.logging.Logger;

public class Server {

    @SuppressWarnings("SleepWhileInLoop")

    public static void main(String[] args) {

        InetAddress group;

        try {

            MulticastSocket socket = new MulticastSocket(4000);

            socket.setReuseAddress(true);

            socket.setTimeToLive(1);

            group = InetAddress.getByName("228.1.1.1");

            socket.joinGroup(group);

            Runnable r1 = () -> {

                while(true) {

                    String message = "hello, im a server 1";

                    byte[] b = message.getBytes();

                    DatagramPacket packet = new DatagramPacket(b, b.length, group, 4000);

                    try {

                        socket.send(packet);
```

```

System.out.println("Sending message: " + message + " with time to live: " +
socket.getTimeToLive());

} catch (IOException ex) {

Logger.getLogger(Server.class.getName()).log(Level.SEVERE, null, ex);

}

try {

Thread.sleep(3000);

} catch (InterruptedException ex) {

Logger.getLogger(Server.class.getName()).log(Level.SEVERE, null, ex);

}

};

Thread t1 = new Thread(r1);

t1.start();

Runnable r2 = () -> {

while (true) {

DatagramPacket packet = new DatagramPacket(new byte[512], 512);

try {

socket.receive(packet);

String message_received = new String(packet.getData());

System.out.println(""" + message_received + "", from: " + packet.getAddress() + ":"
+ packet.getPort());

} catch (IOException ex) {

```

```
Logger.getLogger(Server.class.getName()).log(Level.SEVERE, null, ex);  
  
}  
  
}  
  
};  
  
Thread t2 = new Thread(r2);  
  
t2.start();  
  
} catch (IOException e) {}  
  
}  
  
}
```