# Programmation Socket TCP

TP5

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## Exercice 1

Cf exercice 3 tp4

## Exercice 2

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| sudo apt update  sudo apt install openjdk-11-jdk-headless |

Puis créer les fichiers suivants :

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| # ClientHandlerThread.java  import java.net.ServerSocket;  import java.net.Socket;  import java.util.ArrayList;  import java.util.List;  public class ClientHandlerThread extends Thread {  private List<Socket> sockets;  private ServerSocket socketServeur;    public ClientHandlerThread(ServerSocket socketServeur) {  super();  this.sockets = new ArrayList<Socket>();  this.socketServeur = socketServeur;  }  public void run() {  try {  while (true) {  Socket socketClient = socketServeur.accept();  System.out.println("Connexion avec : "+socketClient.getInetAddress());  sockets.add(socketClient);  }  } catch (Exception e) {  e.printStackTrace();  }  }  public List<Socket> getSockets() {  return sockets;  }  public void setSockets(List<Socket> sockets) {  this.sockets = sockets;  }  public ServerSocket getSocketServeur() {  return socketServeur;  }  public void setSocketServeur(ServerSocket socketServeur) {  this.socketServeur = socketServeur;  }    } |

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| # ServerTp5.java  import java.io.BufferedReader;  import java.io.InputStreamReader;  import java.io.PrintStream;  import java.net.ServerSocket;  import java.net.Socket;  public class ServerTp5 {  final static int port = 9632;  public static void main(String[] args) {  try {  ServerSocket socketServeur = new ServerSocket(port);  System.out.println("Lancement du serveur");  ClientHandlerThread clientHandler = new ClientHandlerThread(socketServeur);    while (true) {  for(Socket s : clientHandler.getSockets()) {  String message = "";  // InputStream in = socketClient.getInputStream();  // OutputStream out = socketClient.getOutputStream();    BufferedReader in = new BufferedReader(new InputStreamReader(s.getInputStream()));  message = in.readLine();  System.out.println(message);  if ("fin".equals(message)) {  s.close();  clientHandler.getSockets().remove(s);  for(Socket skt : clientHandler.getSockets()) {  PrintStream out = new PrintStream(skt.getOutputStream());  out.println("Un utilisateur s'est déconnecté.");  }  } else {  for(Socket skt : clientHandler.getSockets()) {  if(!s.equals(skt)) {  PrintStream out = new PrintStream(skt.getOutputStream());  out.println(message);  }    }  }  }  }  } catch (Exception e) {  e.printStackTrace();  }  }  } |

Compilation et lancement

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| javac ClientHandlerThread.java  javac ServerTp5.java  java ServerTp5 |

Connexion des clients

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| telnet 127.0.0.1 9632 |