

Fabián Orozco Chaves - B95690
Redes de Comunicación de Datos - Tarea 3 - Servidor UDP multi-cliente

Ejecución del servidor y dos clientes.

```
python

[fabian:Tarea3_B95690_ServerUDP]
$ python server_MUDP.py
[04/21/22 - 00:17:30] Creating socket...
[04/21/22 - 00:17:30] Socket created
[04/21/22 - 00:17:30] Binding server to Host: 127.0.0.1 | Port: 8080...
[04/21/22 - 00:17:30] Server binded to Host: 127.0.0.1 | Port: 8080...
|

python

[fabian:Tarea3_B95690_ServerUDP]
$ python client_UDP.py
[04/21/22 - 00:17:09] Creating UDP/IPv4 socket...
[04/21/22 - 00:17:09] Socket created
Enter message to send: |

python

[fabian:Tarea3_B95690_ServerUDP]
$ python client_UDP.py
[04/21/22 - 00:17:03] Creating UDP/IPv4 socket...
[04/21/22 - 00:17:03] Socket created
Enter message to send: |
```

Servidor UDP

```
bash
$ python server_MUDP.py
```

Se crea el socket
El servidor se activa a la espera de recibir archivos.

Cliente 1

```
bash
$ python client_UDP.py
```

Crea un socket
Pide ingresar el mensaje deseado.

Cliente 2

```
bash
$ python client_UDP.py
```

Crea un socket
Pide ingresar el mensaje deseado.

Envío del mensaje de ambos clientes

```
python
[04/21/22 - 00:14:17] Server binded to Host: 127.0.0.1 | Port: 8080...
[04/21/22 - 00:15:22] [ REQUEST from ('127.0.0.1', 33069) ]
Successfully received:
Soy el segundo cliente, hola.

[04/21/22 - 00:15:22] [ confirmation SENT to ('127.0.0.1', 33069) ]
[04/21/22 - 00:15:38] [ REQUEST from ('127.0.0.1', 43545) ]
Successfully received:
Soy el primer cliente, :D

[04/21/22 - 00:15:38] [ confirmation SENT to ('127.0.0.1', 43545) ]
|

python
[fabian:Tarea3_B95690_ServerUDP]
$ python client_UDP.py
[04/21/22 - 00:14:20] Creating UDP/IPv4 socket...
[04/21/22 - 00:14:20] Socket created
Enter message to send: Soy el primer cliente, :D
[04/21/22 - 00:15:38] [msg SENT] to 8080
[04/21/22 - 00:15:38] [ confirm RECEIVED ] from 8080

server notify: RECEIVED

Enter message to send: |

python
[fabian:Tarea3_B95690_ServerUDP]
$ python client_UDP.py
[04/21/22 - 00:14:23] Creating UDP/IPv4 socket...
[04/21/22 - 00:14:23] Socket created
Enter message to send: Soy el segundo cliente, hola.
[04/21/22 - 00:15:22] [msg SENT] to 8080
[04/21/22 - 00:15:22] [ confirm RECEIVED ] from 8080

server notify: RECEIVED

Enter message to send: |
```

Servidor UDP

Recibe los datos de ambos clientes.

Cliente 1

```
bash-stdin
$ Soy el primer cliente, :D
```

Envía el mensaje
Recibe la confirmación de envío del servidor

Cliente 2

```
bash-stdin
$ Soy el segundo cliente, hola.
```

Envía el mensaje
Recibe la confirmación de envío del servidor

Envío ‘ENTER’ del primer usuario

```
python
[04/21/22 - 00:15:22] [ confirmation SENT to ('127.0.0.1', 33069) ]
[04/21/22 - 00:15:38] [ REQUEST from ('127.0.0.1', 43545) ]
Successfully received:
Soy el primer cliente, :D

[04/21/22 - 00:15:38] [ confirmation SENT to ('127.0.0.1', 43545) ]
[04/21/22 - 00:16:40] [ REQUEST from ('127.0.0.1', 43545) ]
[Server] received -empty message-

[04/21/22 - 00:16:40] [ confirmation SENT to ('127.0.0.1', 43545) ]
|

python
[04/21/22 - 00:15:38] [msg SENT] to 8080
[04/21/22 - 00:15:38] [ confirm RECEIVED ] from 8080

server notify: RECEIVED

Enter message to send:
[04/21/22 - 00:16:40] [msg SENT] to 8080
[04/21/22 - 00:16:40] [ confirm RECEIVED ] from 8080

server notify: RECEIVED

Enter message to send: |

python
[fabian:Tarea3_B95690_ServerUDP]
$ python client_UDP.py
[04/21/22 - 00:14:23] Creating UDP/IPv4 socket...
[04/21/22 - 00:14:23] Socket created
Enter message to send: Soy el segundo cliente, hola.
[04/21/22 - 00:15:22] [msg SENT] to 8080
[04/21/22 - 00:15:22] [ confirm RECEIVED ] from 8080

server notify: RECEIVED

Enter message to send: |
```

Servidor UDP

Recibe un mensaje vacío y lo reporta

Cliente 1

```
bash-stdin
$ ‘ENTER’
```

Envía el mensaje
Recibe la confirmación de envío del servidor

Cliente 2

Continúa esperando que digite los datos.

Termina el servidor y ambos clientes

```
bash
[fabian:Tarea3_B95690_ServerUDP]
$ python server_MUDP.py
[04/21/22 - 00:17:30] Creating socket...
[04/21/22 - 00:17:30] Socket created
[04/21/22 - 00:17:30] Binding server to Host: 127.0.0.1 | Port: 8080...
[04/21/22 - 00:17:30] Server binded to Host: 127.0.0.1 | Port: 8080...
^C[04/21/22 - 00:17:49] Shutting down server...
[04/21/22 - 00:17:49] Server OFF

[fabian:Tarea3_B95690_ServerUDP]
$ |

bash
[fabian:Tarea3_B95690_ServerUDP]
$ python client_UDP.py
[04/21/22 - 00:17:09] Creating UDP/IPv4 socket...
[04/21/22 - 00:17:09] Socket created
Enter message to send: ^C
Program finished by signal SIGINT
[04/21/22 - 00:17:48] Done interaction...
[04/21/22 - 00:17:48] Closing socket...
[04/21/22 - 00:17:48] Socket closed

[fabian:Tarea3_B95690_ServerUDP]
$ |

bash
[fabian:Tarea3_B95690_ServerUDP]
$ python client_UDP.py
[04/21/22 - 00:17:03] Creating UDP/IPv4 socket...
[04/21/22 - 00:17:03] Socket created
Enter message to send:
Program finished by signal EOF
[04/21/22 - 00:17:51] Done interaction...
[04/21/22 - 00:17:51] Closing socket...
[04/21/22 - 00:17:51] Socket closed

[fabian:Tarea3_B95690_ServerUDP]
$
```

Servidor UDP

bash-stdin

\$ 'Ctrl+C'

Recibe un signal SIGINT para cerrar el servidor.

Cliente 1

bash-stdin

\$ 'Ctrl+C'

Recibe un signal SIGINT para cerrar el cliente.

Reporta lo que recibió y cierra la interacción, el socket y el cliente

Cliente 2

bash-stdin

\$ 'Ctrl+D'

Recibe un signal EOF para cerrar el cliente.

Reporta lo que recibió y cierra la interacción, el socket y el cliente

Servidor inactivo | Clientes envían información

```
Archivo  Editar  Selección  Ver  Ir  Ejecutar  Terminal  Ayuda

bash
[fabian:Tarea3_B95690_ServerUDP]
$ python server_MUDP.py
[04/21/22 - 00:48:33] Creating socket...
[04/21/22 - 00:48:33] Socket created
[04/21/22 - 00:48:33] Binding server to Host: 127.0.0.1 | Port: 8080...
[04/21/22 - 00:48:33] Server binded to Host: 127.0.0.1 | Port: 8080...
^C[04/21/22 - 00:48:35] Shutting down server...
[04/21/22 - 00:48:35] Server OFF

[fabian:Tarea3_B95690_ServerUDP]
$ |

bash
[fabian:Tarea3_B95690_ServerUDP]
$ python client_UDP.py
[04/21/22 - 00:48:41] Creating UDP/IPv4 socket...
[04/21/22 - 00:48:41] Socket created
Enter message to send: Prueba UDP. cliente 1
[04/21/22 - 00:49:04] [msg SENT] to 8080
[04/21/22 - 00:49:14] timeout 10s: nothing received
Enter message to send: ^C
Program finished by signal SIGINT
[04/21/22 - 00:49:50] Done interaction...
[04/21/22 - 00:49:50] Closing socket...
[04/21/22 - 00:49:50] Socket closed

bash
[fabian:Tarea3_B95690_ServerUDP]
$ python client_UDP.py
[04/21/22 - 00:48:43] Creating UDP/IPv4 socket...
[04/21/22 - 00:48:43] Socket created
Enter message to send: cliente 2: tienen timeout
[04/21/22 - 00:49:18] [msg SENT] to 8080
[04/21/22 - 00:49:28] timeout 10s: nothing received
Enter message to send: ^C
Program finished by signal SIGINT
[04/21/22 - 00:49:40] Done interaction...
[04/21/22 - 00:49:40] Closing socket...
[04/21/22 - 00:49:40] Socket closed
```

Servidor UDP

Se encuentra cerrado/inactivo.

Cliente 1

bash-stdin

\$ Prueba UDP. cliente 1

Reporta que tiene un tiempo límite para recibir una respuesta. El timeout es configurable y opcional por atributo.

bash-stdin

\$ 'Ctrl+C'

Cliente 2

bash-stdin

\$ cliente 2: tienen timeout

Misma respuesta que Cliente 1

bash-stdin

\$ 'Ctrl+C'