

Start Server, client_1 connect + first log

The terminal window is split into four quadrants. Top-left: Server startup log. Top-right: Client 1 connection and first log entry. Bottom-left: Empty command input. Bottom-right: Client 1 log output showing multiple 'SILLY CAT' messages.

```
[kai@archlinux libs]$ java -jar server-all.jar
usage: java -jar server.jar <port>
if you haven't specified port, default port is 3000
Server started on port: 3000
0      client_1      first log      29.04
.2025 13:00:44
[kai@archlinux libs]$ java -jar client-all.jar client_1
usage: java -jar client.jar <user> <url>
if you haven't specified user and url, default user is 'default'
and default url is 'localhost:3000'
Commands: add, get, listen, unlisten, exit
add
Enter log message:
first log
11:59
SILLY CAT SILLY C
SILLY CAT SILLY C
SILLY CAT SILLY C
[kai@archlinux libs]$ |
[kai@archlinux libs]$ |
```

Connect client_2 + listen on client_1

The terminal window is split into four quadrants. Top-left: Server startup log. Top-right: Client 1 connection and first log entry. Bottom-left: Empty command input. Bottom-right: Client 2 connection and listening status.

```
[kai@archlinux libs]$ java -jar server-all.jar
usage: java -jar server.jar <port>
if you haven't specified port, default port is 3000
Server started on port: 3000
0      client_1      first log      29.04
.2025 13:00:44
[kai@archlinux libs]$ java -jar client-all.jar client_1
usage: java -jar client.jar <user> <url>
if you haven't specified user and url, default user is 'default'
and default url is 'localhost:3000'
Commands: add, get, listen, unlisten, exit
add
Enter log message:
first log
listen
Listening to logs...
Line      UserId      LogText      Date
-----|-----|-----|-----|
[kai@archlinux libs]$ java -jar client-all.jar client_2
usage: java -jar client.jar <user> <url>
if you haven't specified user and url, default user is 'default'
and default url is 'localhost:3000'
Commands: add, get, listen, unlisten, exit
|
```

Client_2 first log

```
[kai@archlinux libs]$ java -jar server-all.jar
usage: java -jar server.jar <port>
if you haven't specified port, default port is 3000
Server started on port: 3000
0      client_1      first log          29.04
.2025 13:00:44
1      client_2      first log          29.04
.2025 13:01:57
[ ]
```

if you haven't specified user and url, default user is 'default' and default url is 'localhost:3000'
 Commands: add, get, listen, unlisten, exit
 add
 Enter log message:
 first log
 listen
 Listening to logs...

Line	UserId	LogText	Date
1	client_2	first log	29.04
.			
.			
.			

[kai@archlinux libs]\$ []

Connect client_3 + first log

```
[kai@archlinux libs]$ java -jar server-all.jar
usage: java -jar server.jar <port>
if you haven't specified port, default port is 3000
Server started on port: 3000
0      client_1      first log          29.04
.2025 13:00:44
1      client_2      first log          29.04
.2025 13:01:57
2      client_3      first log          29.04
.2025 13:02:49
[ ]
```

Commands: add, get, listen, unlisten, exit
 add
 Enter log message:
 first log
 listen
 Listening to logs...

Line	UserId	LogText	Date
1	client_2	first log	29.04
2	client_3	first log	29.04
.			
.			
.			

[kai@archlinux libs]\$ java -jar client-all.jar client_3
usage: java -jar client.jar <user> <url>
if you haven't specified user and url, default user is 'default'
' and default url is 'localhost:3000'
Commands: add, get, listen, unlisten, exit
add
Enter log message:
first log
[]

[kai@archlinux libs]\$ java -jar client-all.jar client_2
usage: java -jar client.jar <user> <url>
if you haven't specified user and url, default user is 'default'
' and default url is 'localhost:3000'
Commands: add, get, listen, unlisten, exit
add
Enter log message:
first log
[]

Client_2 listen + client_3 second log

<pre>[kai@archlinux libs]\$ java -jar server-all.jar usage: java -jar server.jar <port> if you haven't specified port, default port is 3000 Server started on port: 3000 0 client_1 first log 29.04 .2025 13:00:44 1 client_2 first log 29.04 .2025 13:01:57 2 client_3 first log 29.04 .2025 13:02:49 3 client_3 sec log 29.04 .2025 13:03:41</pre>	<pre>Enter log message: first log listen Listening to logs... Line UserId LogText Date ----- 1 client_2 first log 29.04 .2025 13:01:57 2 client_3 first log 29.04 .2025 13:02:49 3 client_3 sec log 29.04 .2025 13:03:41</pre>
<pre>[kai@archlinux libs]\$ java -jar client-all.jar client_3 usage: java -jar client.jar <user> <url> if you haven't specified user and url, default user is 'default' and default url is 'localhost:3000' Commands: add, get, listen, unlisten, exit add Enter log message: first log sec log Commands: add, get, listen, unlisten, exit add Enter log message: sec log</pre>	<pre>if you haven't specified user and url, default user is 'default' and default url is 'localhost:3000' Commands: add, get, listen, unlisten, exit add Enter log message: first log listen Listening to logs... \Line UserId LogText Date ----- 3 client_3 sec log 29.04 .2025 13:03:41</pre>

Unknown Command, deswegen werden die Commands nochmal geprintet

Client_1 unlisten, client_3 third log

<pre>[kai@archlinux libs]\$ java -jar server-all.jar usage: java -jar server.jar <port> if you haven't specified port, default port is 3000 Server started on port: 3000 0 client_1 first log 29.04 .2025 13:00:44 1 client_2 first log 29.04 .2025 13:01:57 2 client_3 first log 29.04 .2025 13:02:49 3 client_3 sec log 29.04 .2025 13:03:41 4 client_3 third log 29.04 .2025 13:06:19</pre>	<pre>listen Listening to logs... Line UserId LogText Date ----- 1 client_2 first log 29.04 .2025 13:01:57 2 client_3 first log 29.04 .2025 13:02:49 3 client_3 sec log 29.04 .2025 13:03:41 unlisten Unlistening to logs...</pre>
<pre>if you haven't specified user and url, default user is 'default' and default url is 'localhost:3000' Commands: add, get, listen, unlisten, exit add Enter log message: first log sec log Commands: add, get, listen, unlisten, exit add Enter log message: sec log add Enter log message: third log</pre>	<pre>Commands: add, get, listen, unlisten, exit add Enter log message: first log listen Listening to logs... \Line UserId LogText Date ----- 3 client_3 sec log 29.04 .2025 13:03:41 4 client_3 third log 29.04 .2025 13:06:19</pre>

Client_2 add log, while listening

<pre> if you haven't specified port, default port is 3000 Server started on port: 3000 0 client_1 first log 29.04 .2025 13:00:44 1 client_2 first log 29.04 .2025 13:01:57 2 client_3 first log 29.04 .2025 13:02:49 3 client_3 sec log 29.04 .2025 13:03:41 4 client_3 third log 29.04 .2025 13:06:19 5 client_2 sec log 29.04 .2025 13:07:43 </pre>	<pre> listen Listening to logs... Line UserId LogText Date ----- 1 client_2 first log 29.04 .2025 13:01:57 2 client_3 first log 29.04 .2025 13:02:49 3 client_3 sec log 29.04 .2025 13:03:41 unlisten Unlistening to logs... </pre>
<pre> if you haven't specified user and url, default user is 'default' ' and default url is 'localhost:3000' Commands: add, get, listen, unlisten, exit add Enter log message: first log sec log Commands: add, get, listen, unlisten, exit add Enter log message: sec log add Enter log message: third log </pre>	<pre> ----- 3 client_3 sec log 29.04 .2025 13:03:41 4 client_3 third log 29.04 .2025 13:06:19 add Commands: add, get, listen, unlisten, exit sec log Commands: add, get, listen, unlisten, exit add Enter log message: sec log 5 client_2 sec log 29.04 .2025 13:07:43 </pre>

Da ist, glaube ich, ein Leerzeichen rein gerutscht

Client_1 get

<pre> if you haven't specified port, default port is 3000 Server started on port: 3000 0 client_1 first log 29.04 .2025 13:00:44 1 client_2 first log 29.04 .2025 13:01:57 2 client_3 first log 29.04 .2025 13:02:49 3 client_3 sec log 29.04 .2025 13:03:41 4 client_3 third log 29.04 .2025 13:06:19 5 client_2 sec log 29.04 .2025 13:07:43 </pre>	<pre> ----- 0 client_1 first log 29.04 .2025 13:00:44 1 client_2 first log 29.04 .2025 13:01:57 2 client_3 first log 29.04 .2025 13:02:49 3 client_3 sec log 29.04 .2025 13:03:41 4 client_3 third log 29.04 .2025 13:06:19 5 client_2 sec log 29.04 .2025 13:07:43 </pre>
<pre> if you haven't specified user and url, default user is 'default' ' and default url is 'localhost:3000' Commands: add, get, listen, unlisten, exit add Enter log message: first log sec log Commands: add, get, listen, unlisten, exit add Enter log message: sec log add Enter log message: third log </pre>	<pre> ----- 3 client_3 sec log 29.04 .2025 13:03:41 4 client_3 third log 29.04 .2025 13:06:19 add Commands: add, get, listen, unlisten, exit sec log Commands: add, get, listen, unlisten, exit add Enter log message: sec log 5 client_2 sec log 29.04 .2025 13:07:43 </pre>

Stop server

```
if you haven't specified port, default port is 3000
Server started on port: 3000
0      client_1      first log           29.04
.2025 13:00:44
1      client_2      first log           29.04
.2025 13:01:57
2      client_3      first log           29.04
.2025 13:02:49
3      client_3      sec log            29.04
.2025 13:03:41
4      client_3      third log          29.04
.2025 13:06:19
5      client_2      sec log            29.04
.2025 13:07:43
^C[kai@archlinux libs]$ 

Commands: add, get, listen, unlisten, exit
add
Enter log message:
first log
sec log
Commands: add, get, listen, unlisten, exit
add
Enter log message:
sec log
add
Enter log message:
third log
Error: could not add log: UNAVAILABLE: Network closed for unknown reason
[]

0      client_1      first log           29.04
.2025 13:00:44
1      client_2      first log           29.04
.2025 13:01:57
2      client_3      first log           29.04
.2025 13:02:49
3      client_3      sec log            29.04
.2025 13:03:41
4      client_3      third log          29.04
.2025 13:06:19
5      client_2      sec log            29.04
.2025 13:07:43
Error: could not add log: UNAVAILABLE: Network closed for unknown reason
Error: could not listen log: UNAVAILABLE: Network closed for unknown reason
[]

.2025 13:06:19
add
Commands: add, get, listen, unlisten, exit
sec log
Commands: add, get, listen, unlisten, exit
add
Enter log message:
sec log
5      client_2      sec log            29.04
.2025 13:07:43
Error: could not add log: UNAVAILABLE: Network closed for unknown reason
Error: could not listen log: UNAVAILABLE: Network closed for unknown reason
[]
```