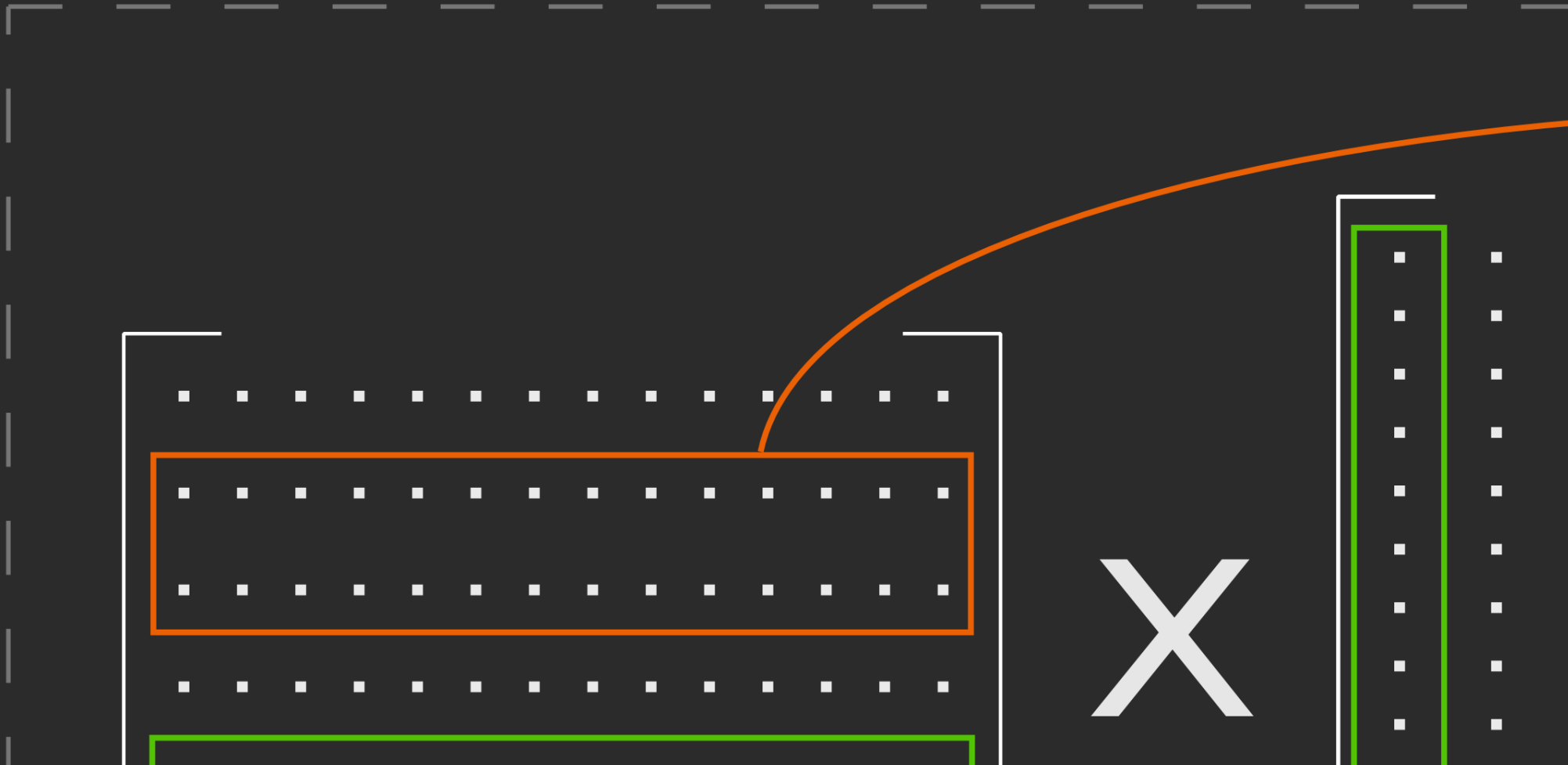
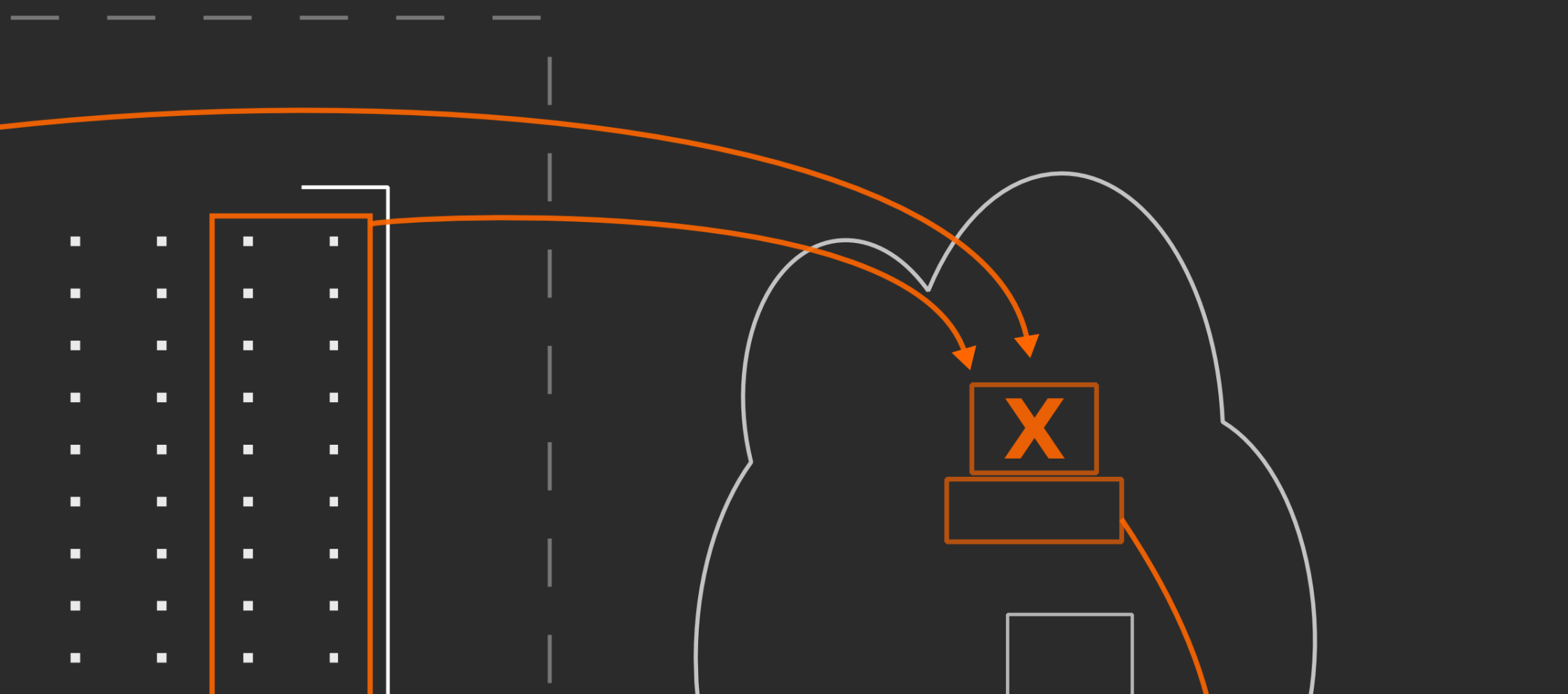
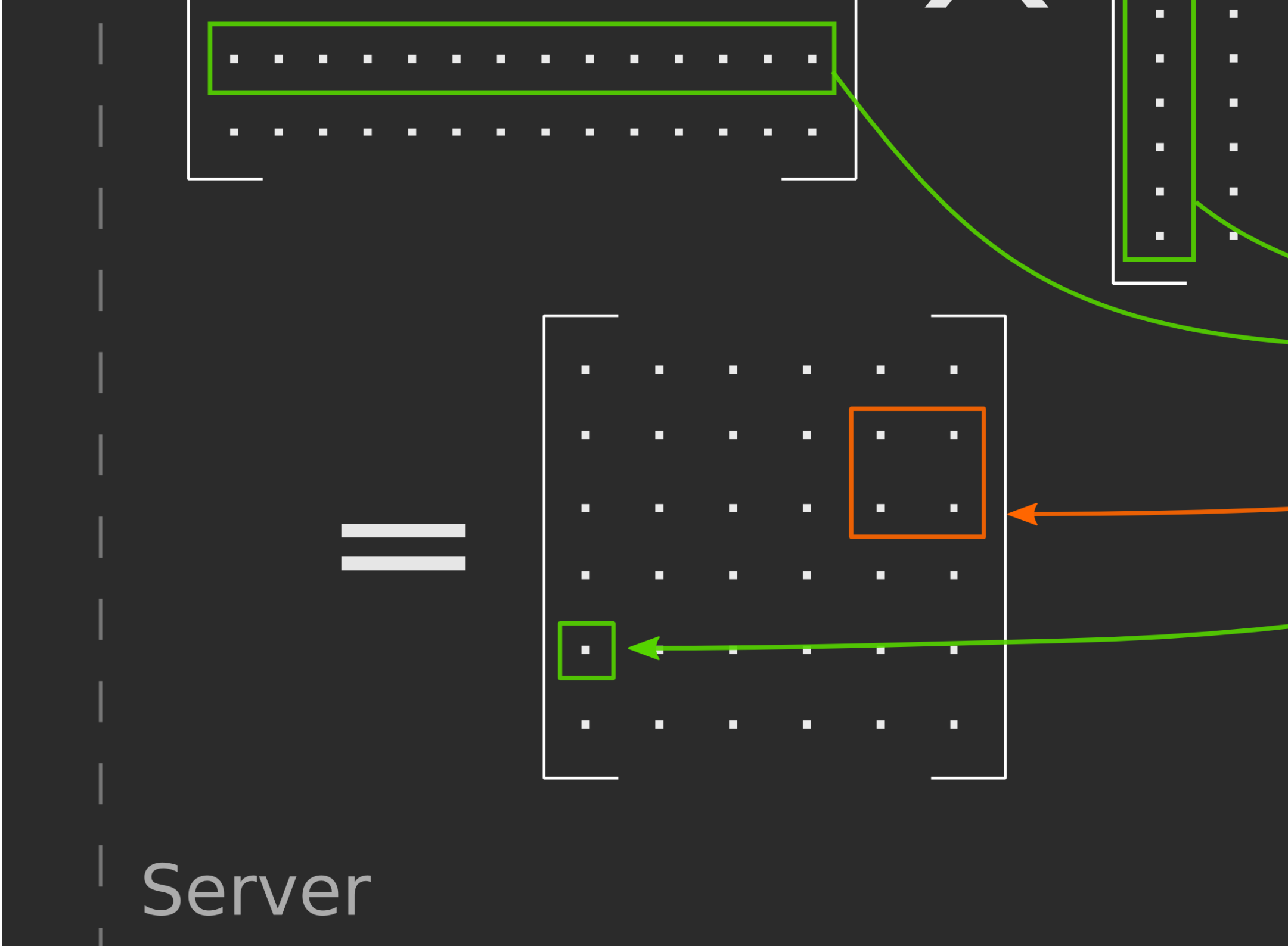
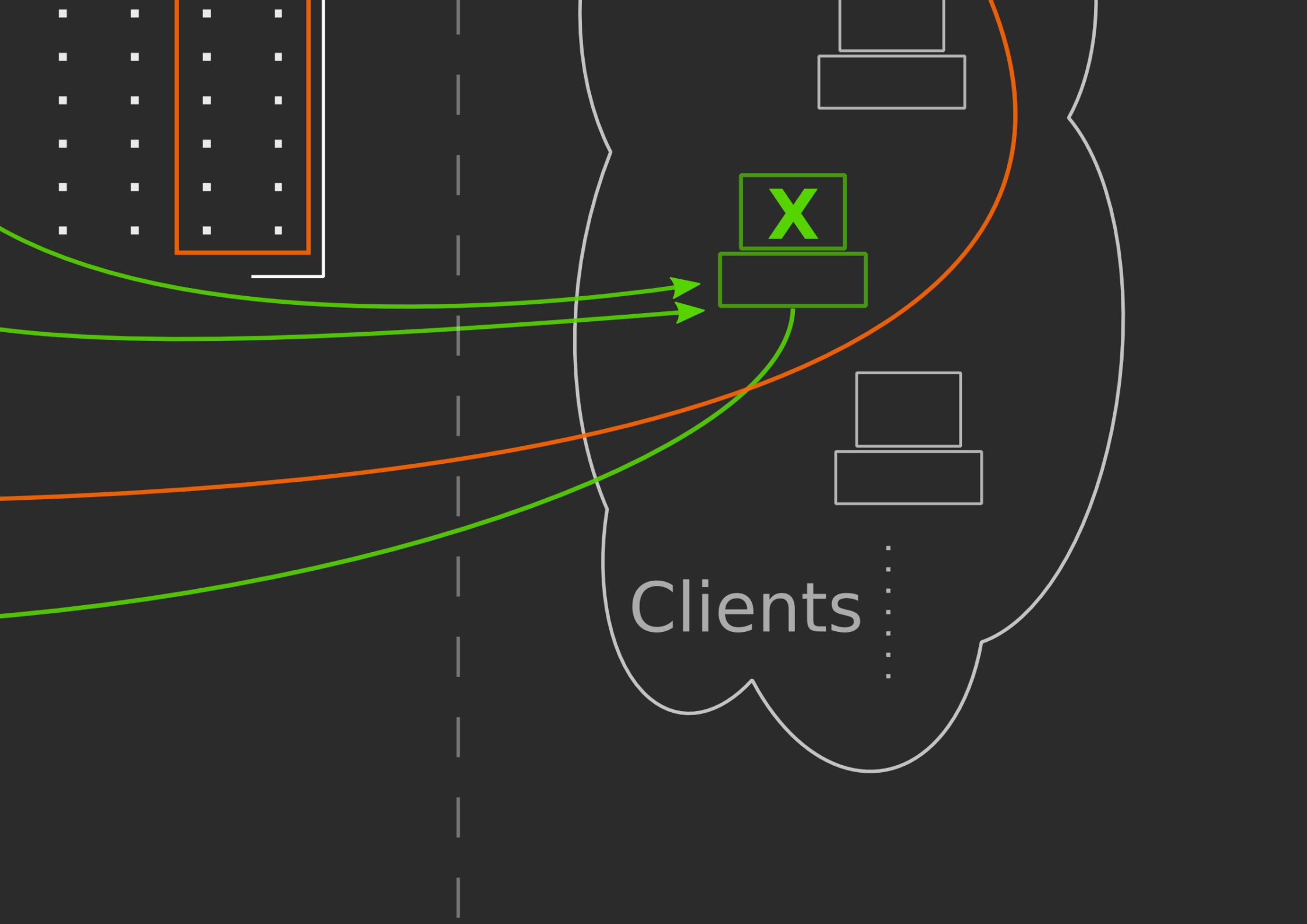
Matrix Multipl



lication NetBot



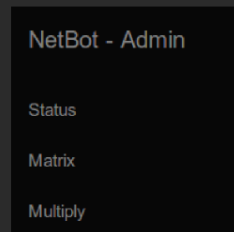

=
Server

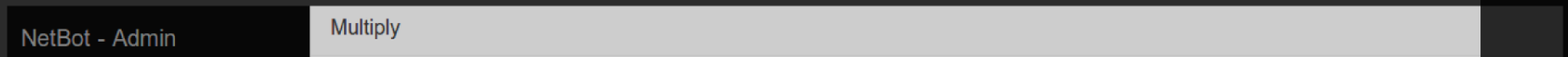

X
Clients

Server

Distributed Matrix Multiplication

- Random number of clients
- Auto client offline detection -> reassign task to other clients
- Multiple job support: Multiple multiplications in FIFO queue. Running jobs may overlap.
- Graphical User Interface:
  - Add new jobs
  - View job status
  - View completed work per client
  - View CPU load per client



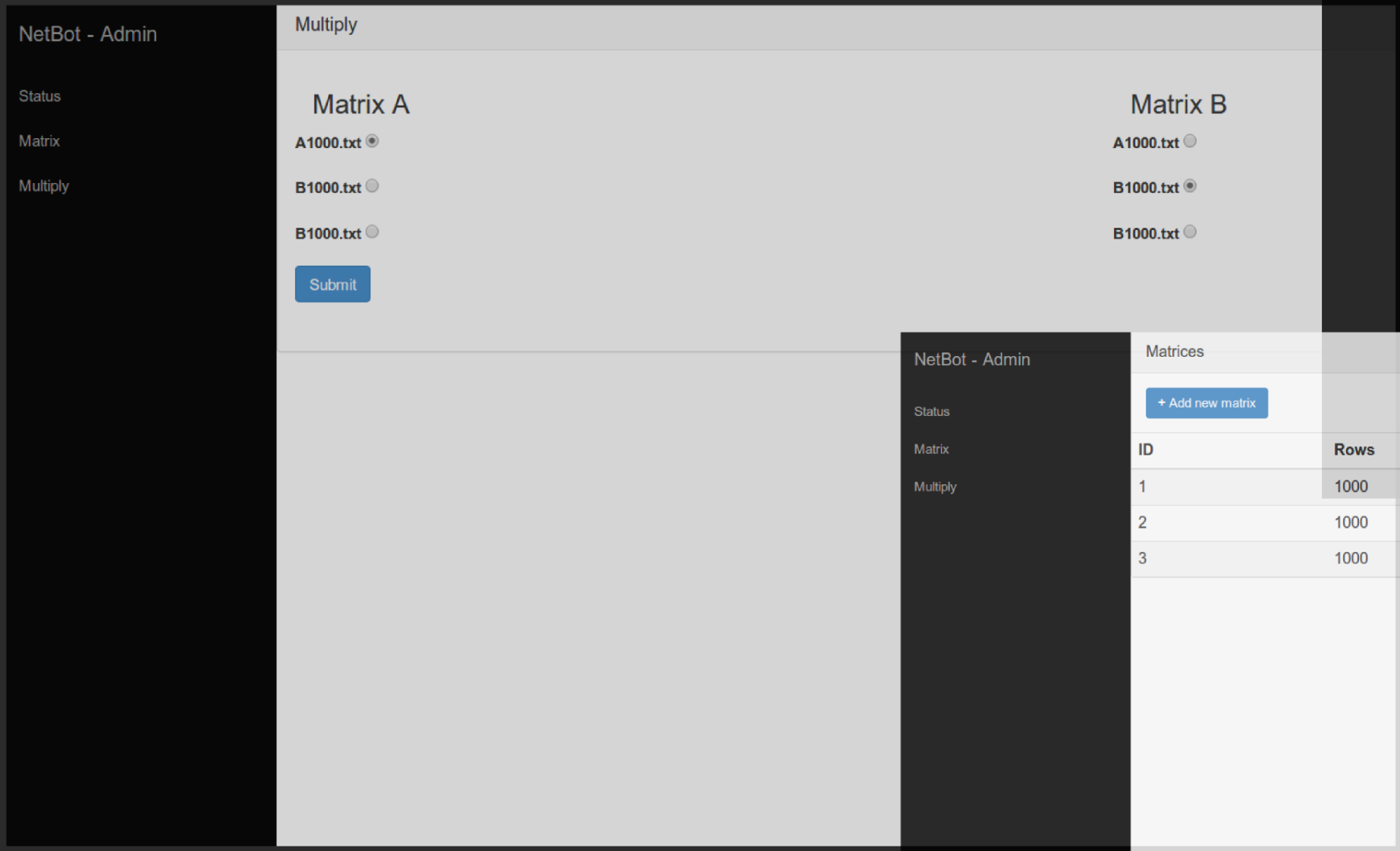


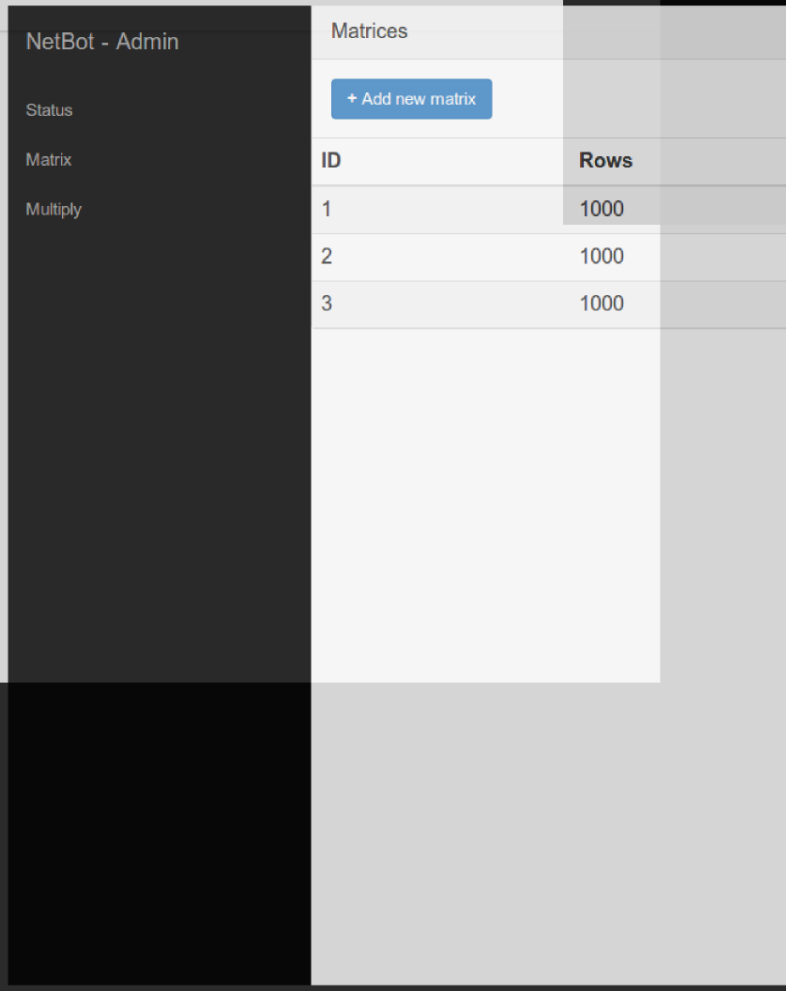
Speedups:

1 client	1.0
2 clients	1.9
3 clients	2.7

Peers

ID	Locatie	Data-Set	CPU
1	77.249.206.212	50:50	0%
2	127.0.0.1	50:50	17%
3	127.0.0.1	50:50	20%


NetBot - Admin
Status
Matrix
Multiply
Multiply
Matrix A
A1000.txt
B1000.txt
B1000.txt
Submit
Matrix B
A1000.txt
B1000.txt
B1000.txt


NetBot - Admin
Status
Matrix
Multiply
Matrices
+ Add new matrix
ID
Rows
1
1000
2
1000
3
1000

3	127.0.0.1	50:50	20%
4	127.0.0.1	50:50	18%

Cols	Matrix
1000	A1000.txt
1000	B1000.txt
1000	B1000.txt

Jelte Fennema, Abe Wiersma, Jaap Koetsier