

Components of the DFS

Client: ls.py, copy.py

Para probar la base de datos y el ls.py, deben crear la base de datos con:

python createdb.py

Y probar que la base de datos sirve y llenarla con datos de prueba con:

python testdb.py

**Usen print para debuggear las cosas.
Su código debe estar lleno de prints
para probar que las están funcionando,
paso a paso.**

Metadata server

a.k.a inode

a.k.a database

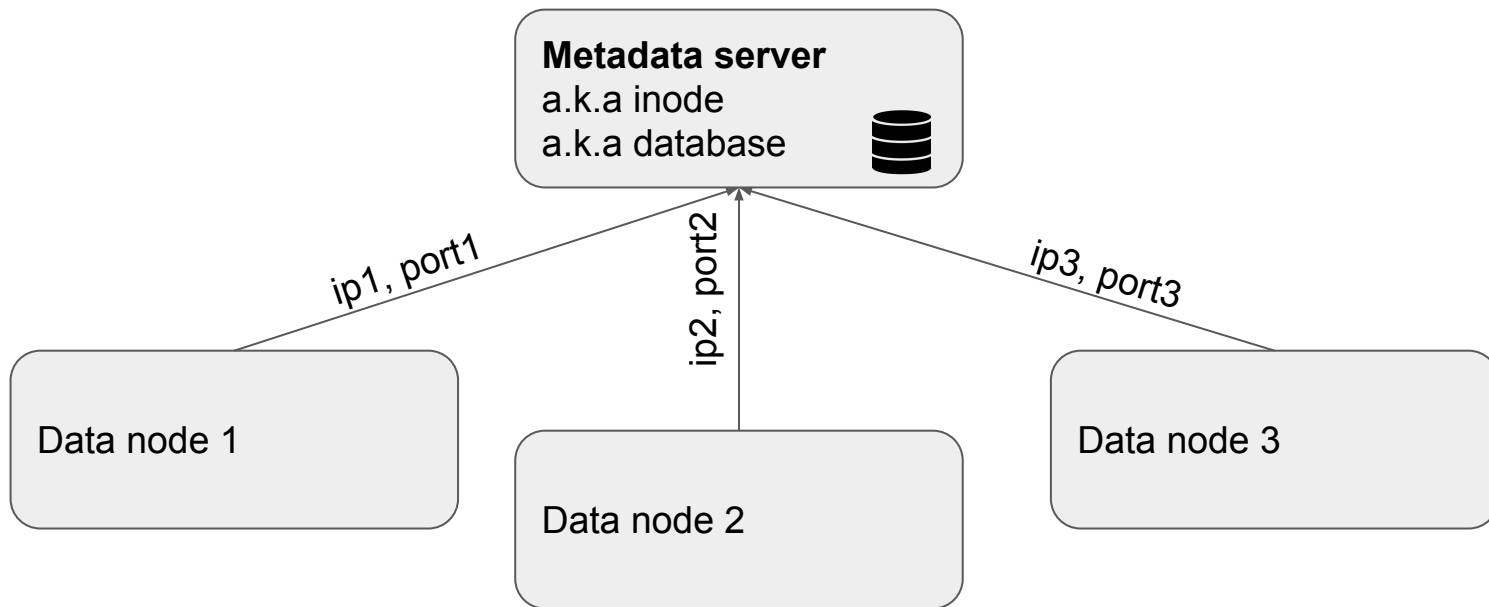


Data node 1

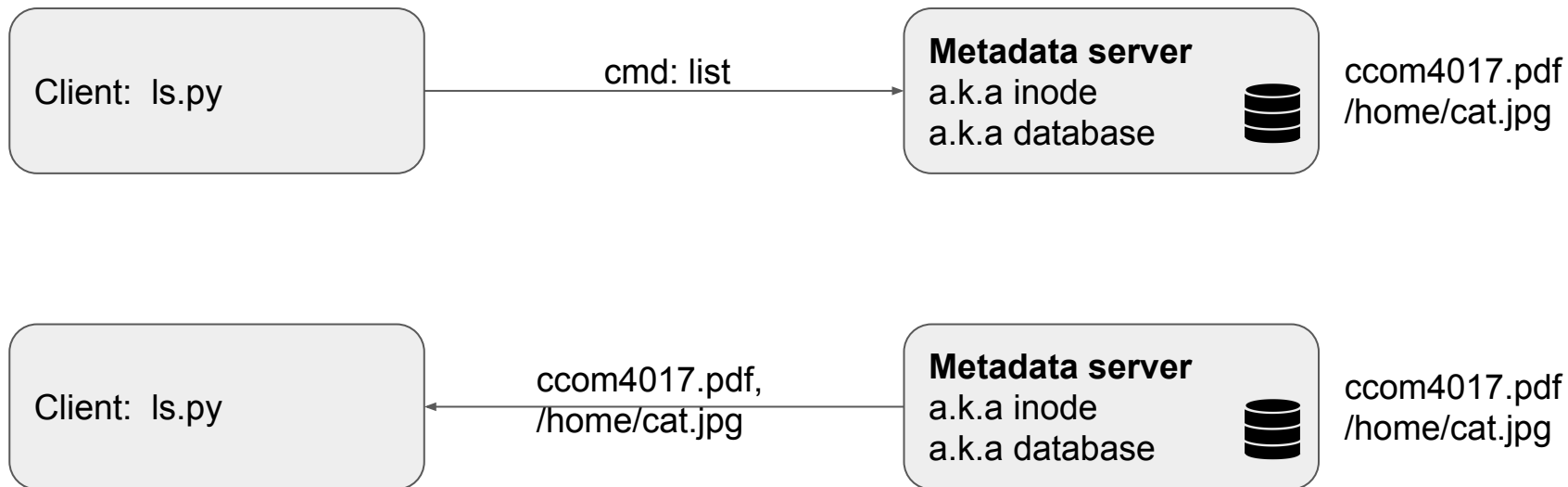
Data node 2

Data node 3

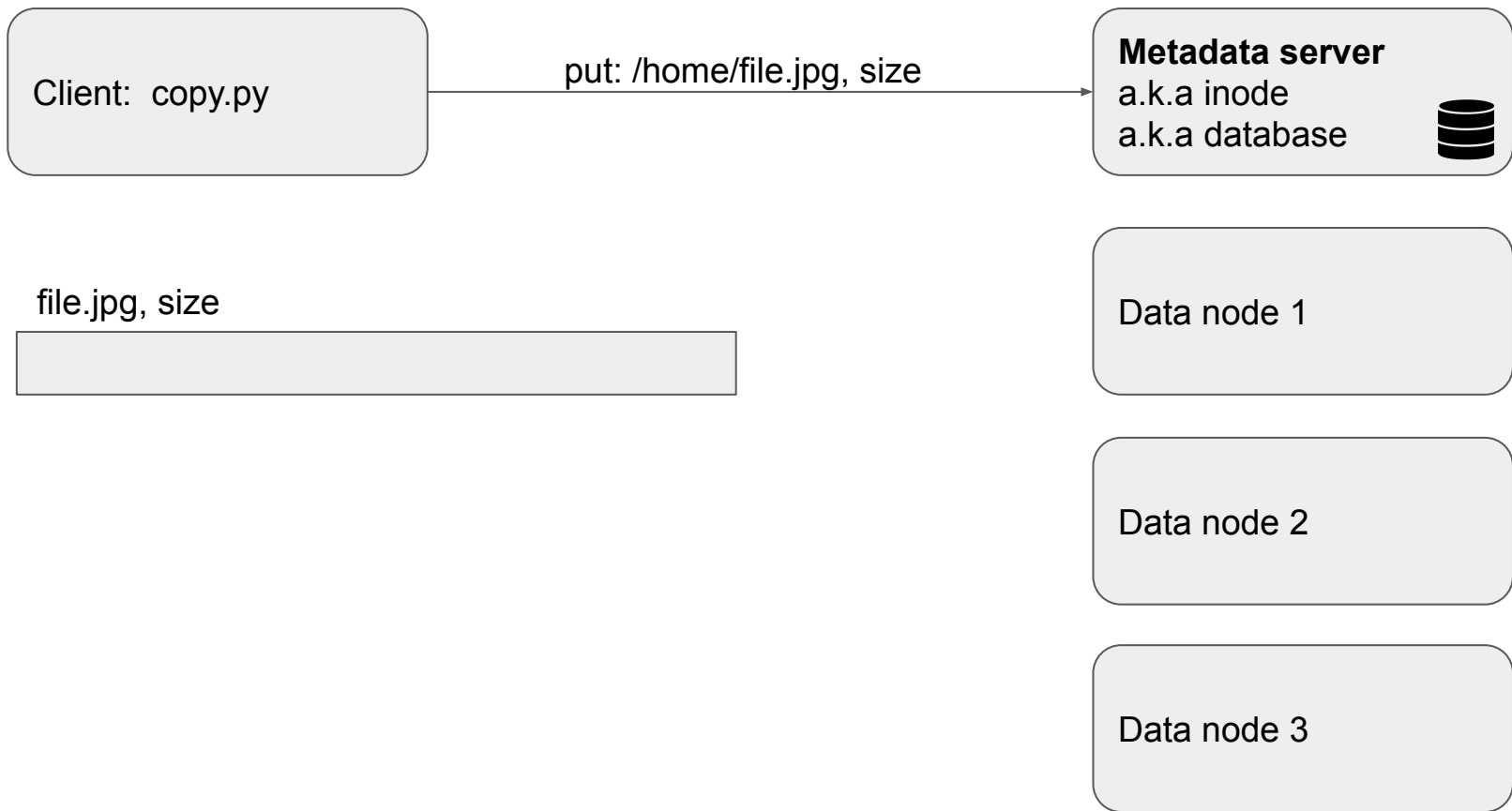
Data Node Registration (cmd: reg)



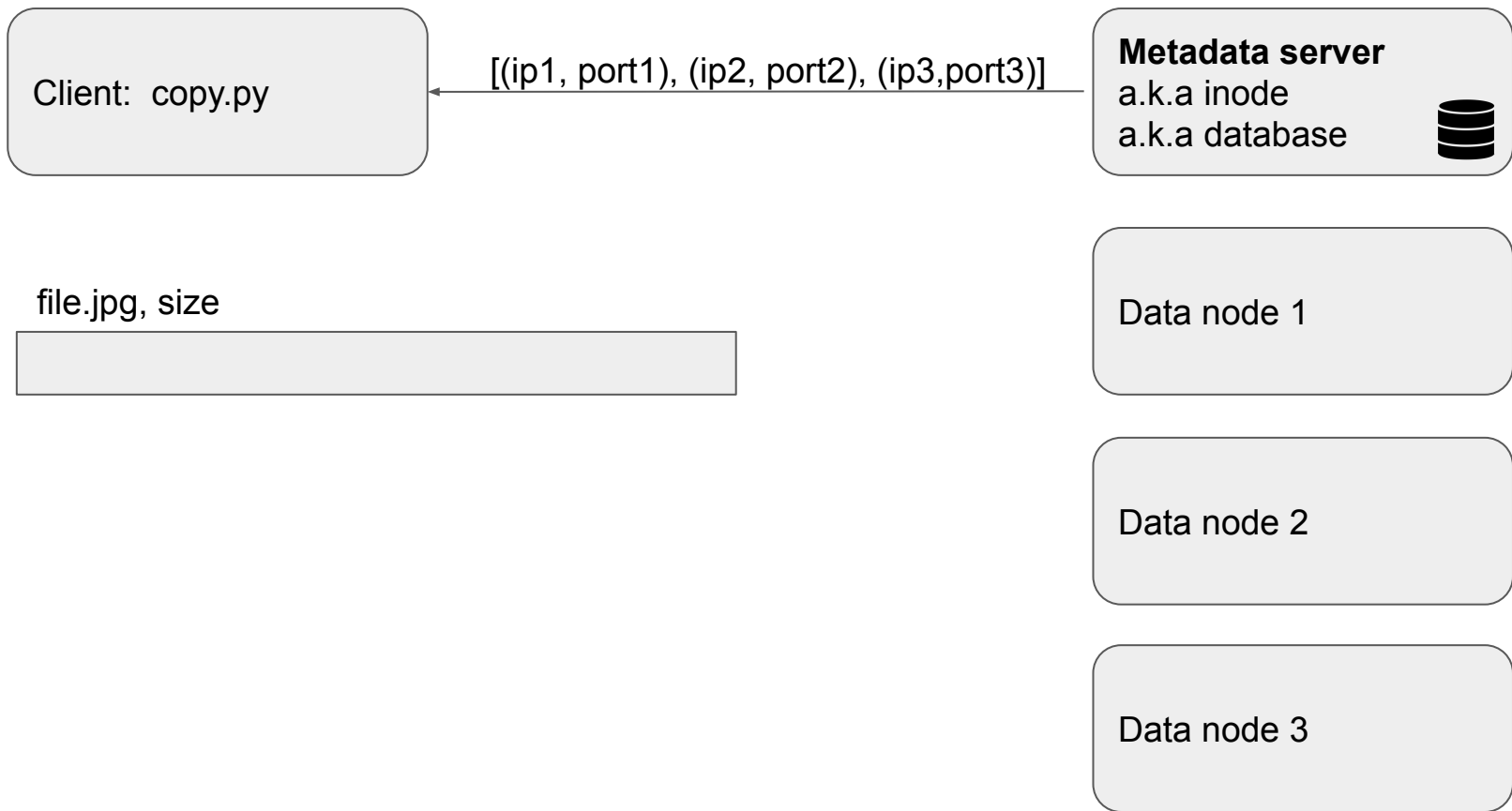
ls.py metadataserver:port



copy.py file.jpg metadataserver:4017:/home/file.jpg



copy.py file.jpg metadataserver:4017:/home/file.jpg



copy.py file.jpg metadataserver:4017:/home/file.jpg

Client: copy.py

Metadata server

a.k.a inode

a.k.a database



file.jpg, size

file.jpg.p1

file.jpg.p2

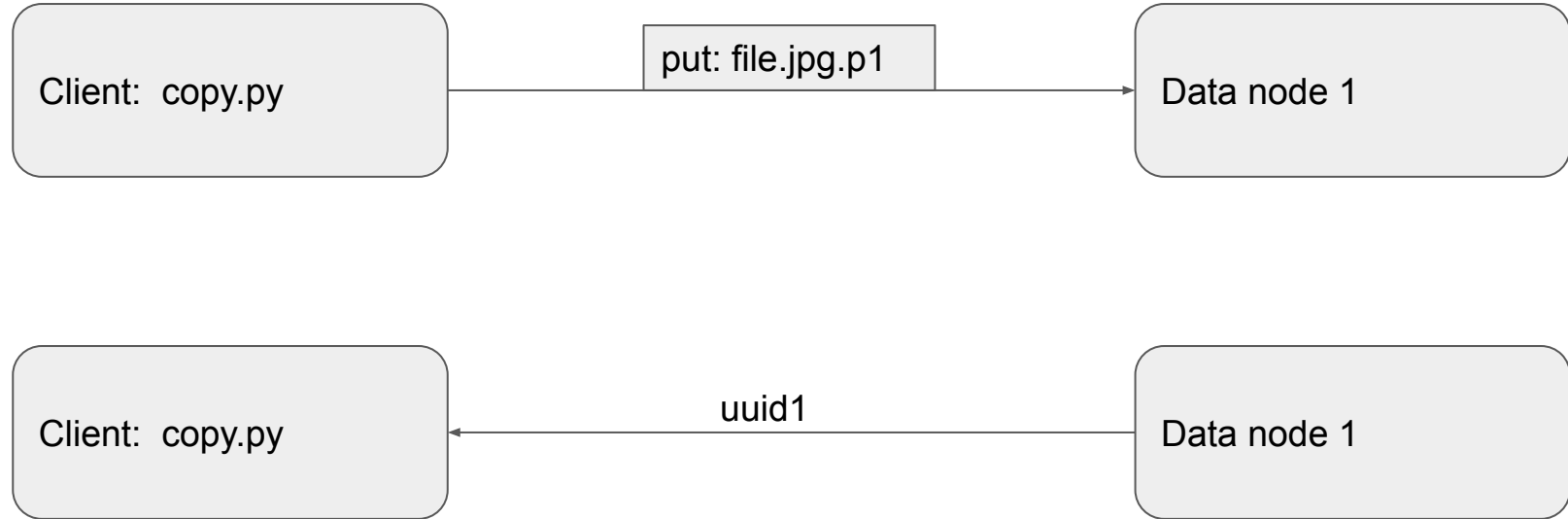
file.jpg.p3

Data node 1

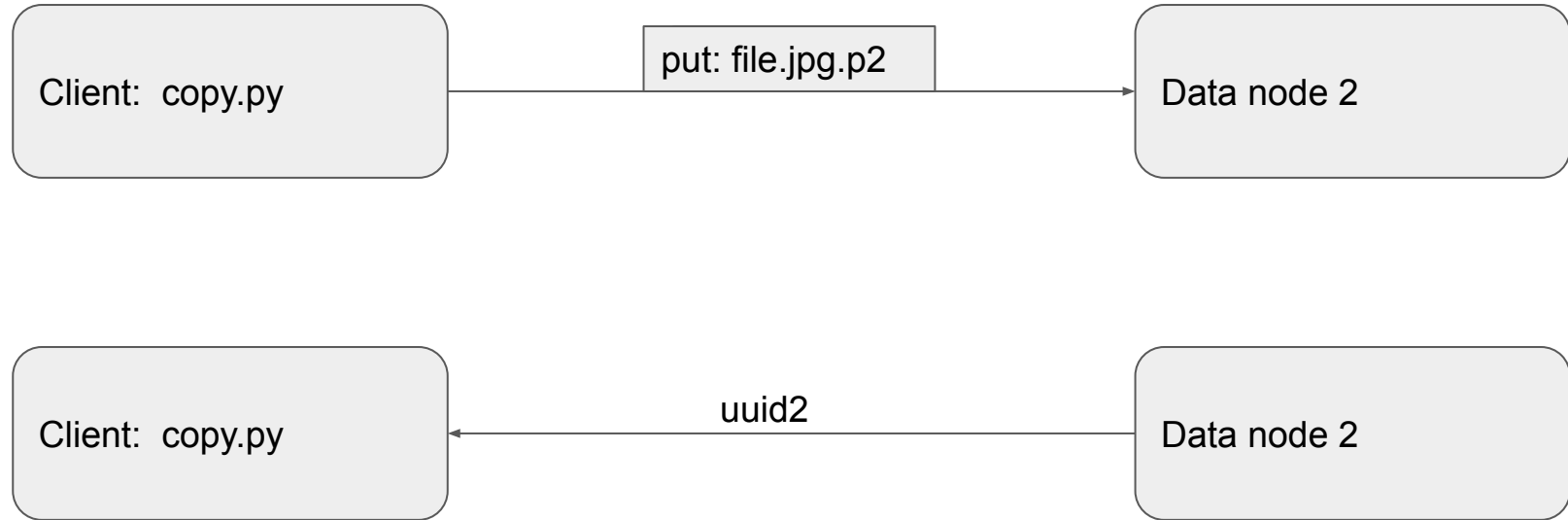
Data node 2

Data node 3

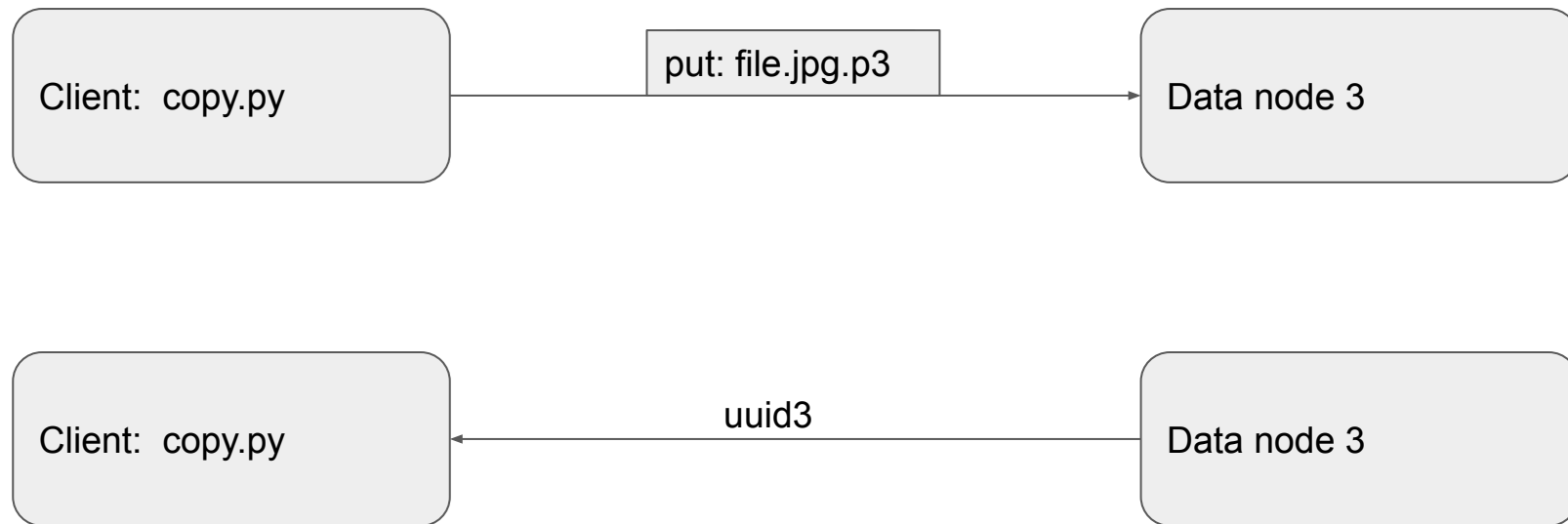
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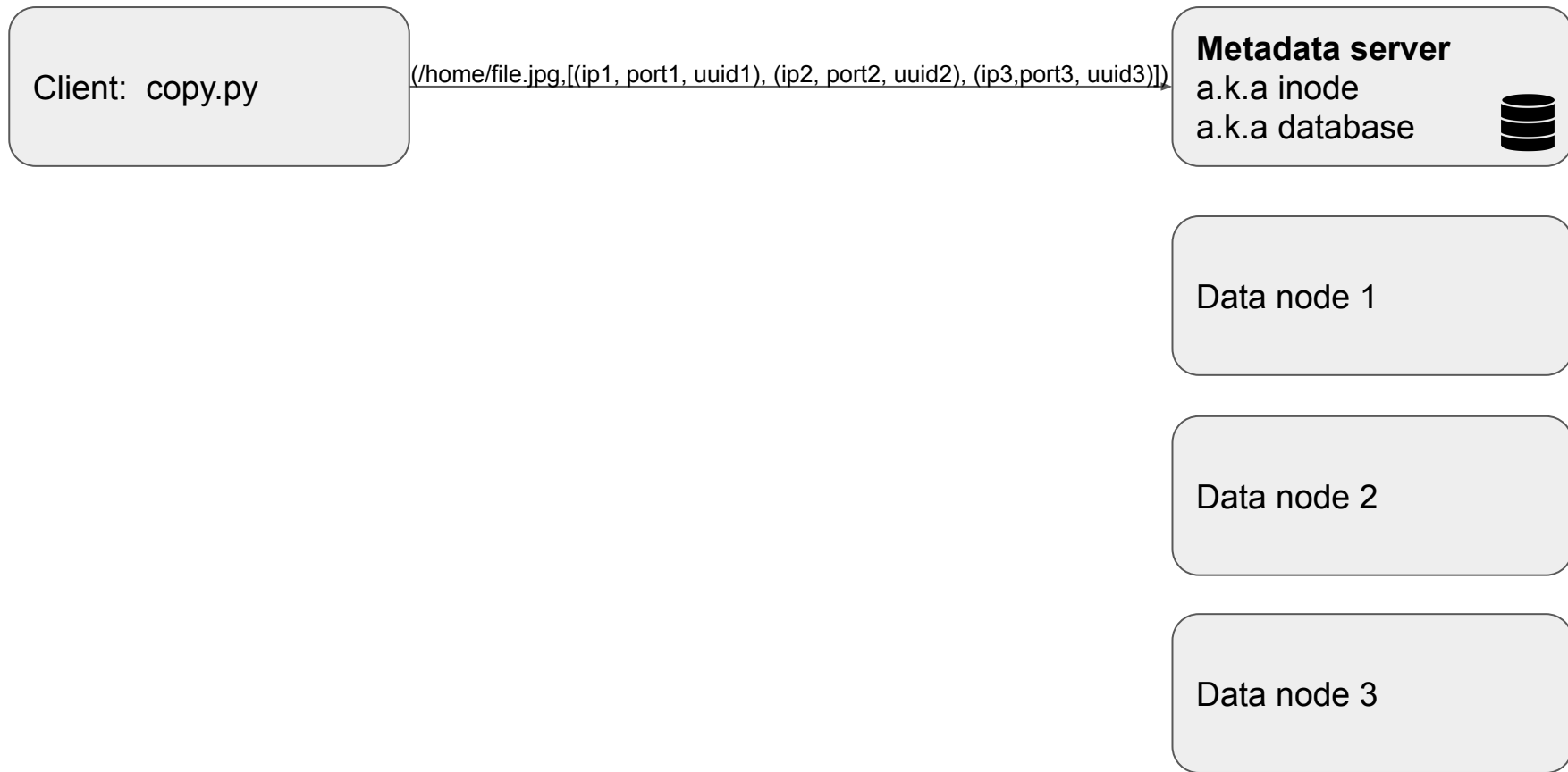
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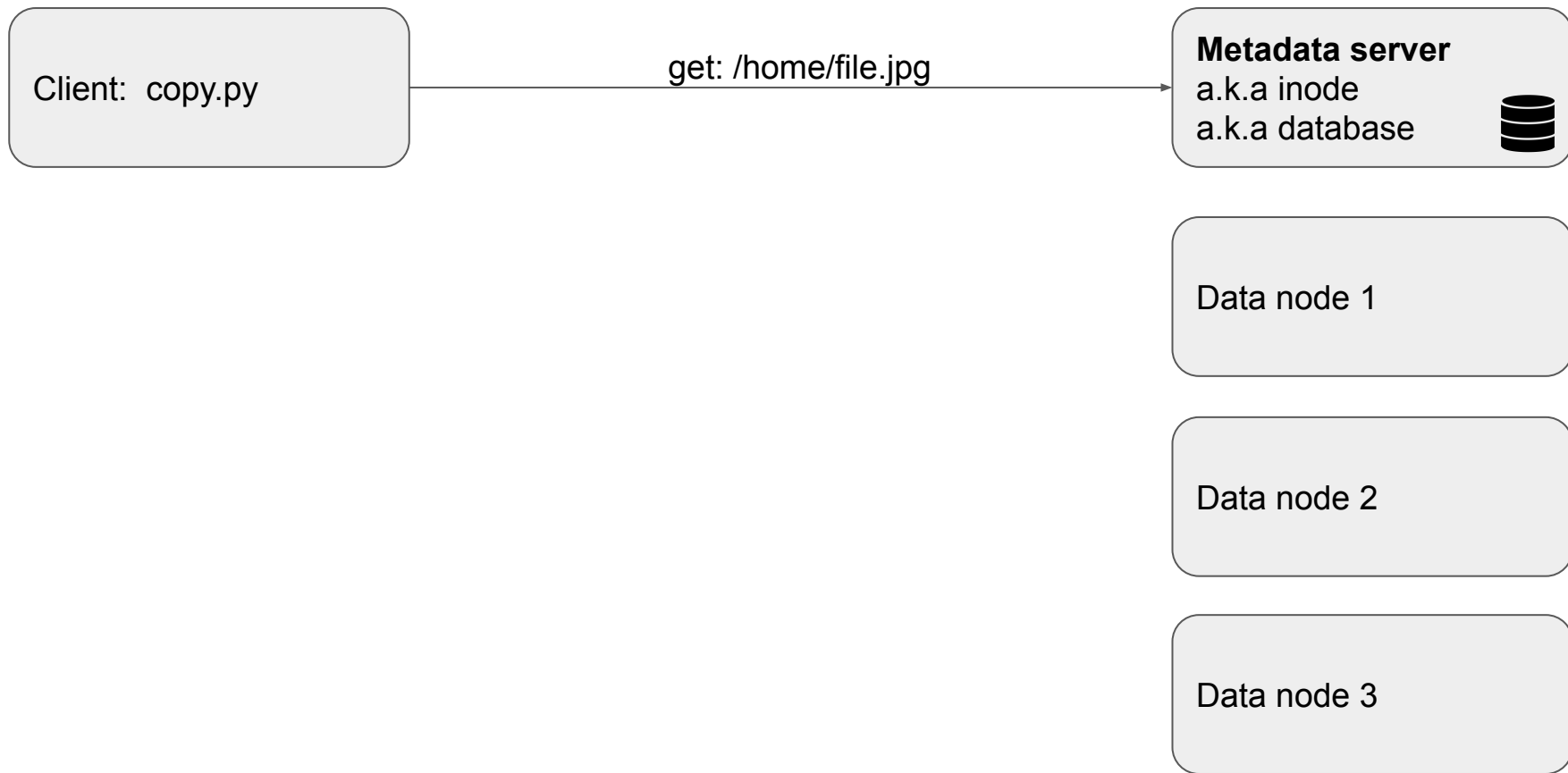
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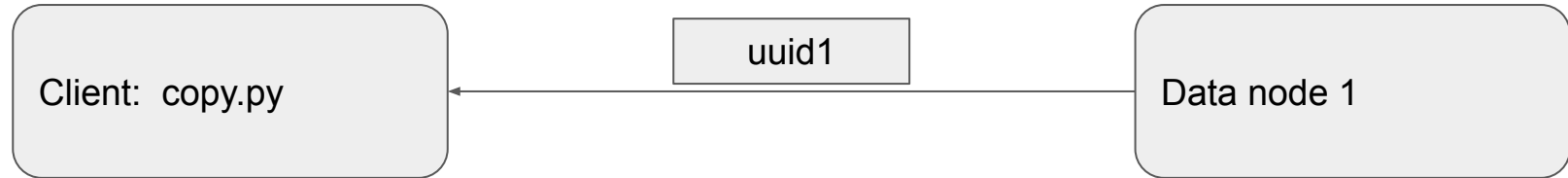
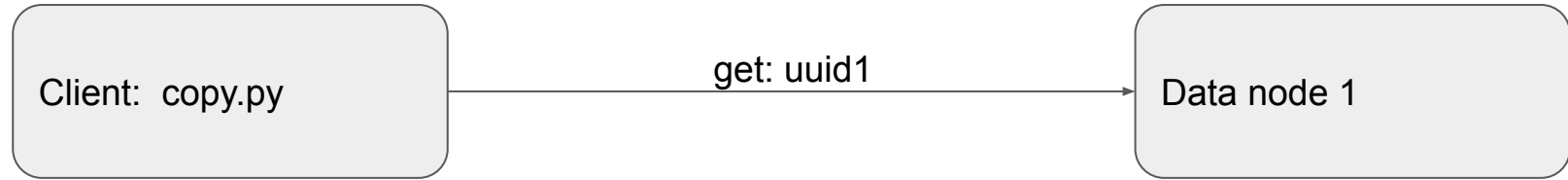
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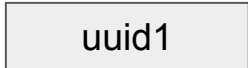
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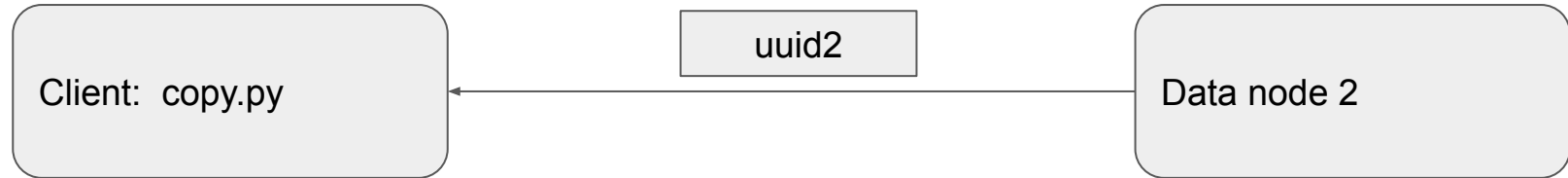
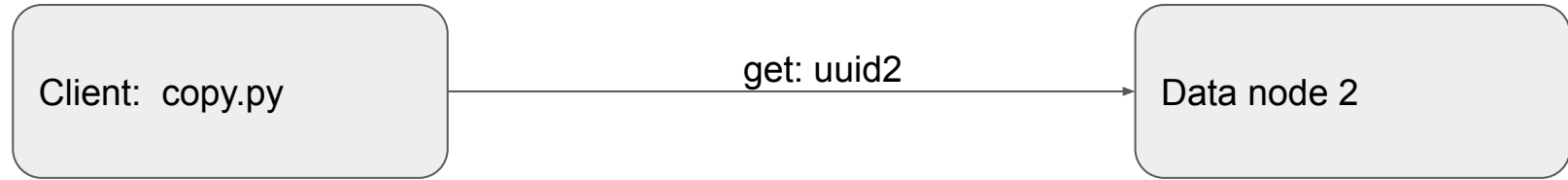
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file.jpg



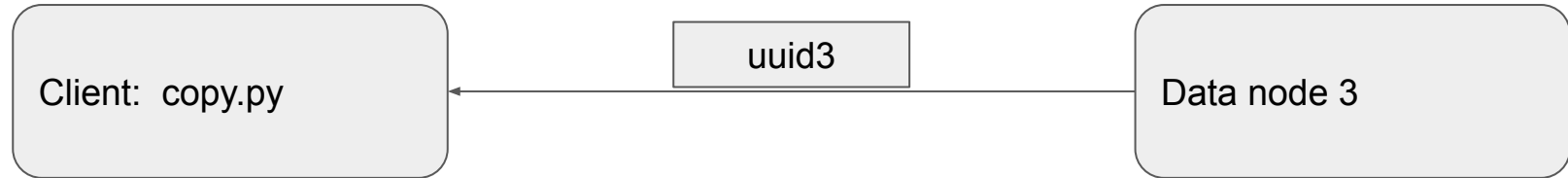
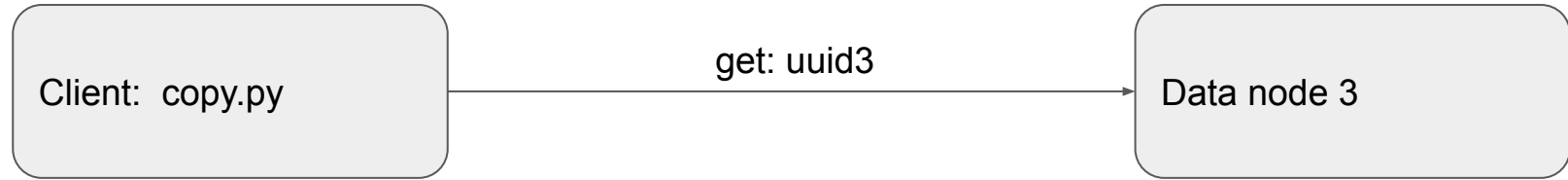
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file.jpg



copy.py metadataserver:4017:/home/file.jpg file.jpg



file.jpg

uuid1	uuid2	uuid3
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