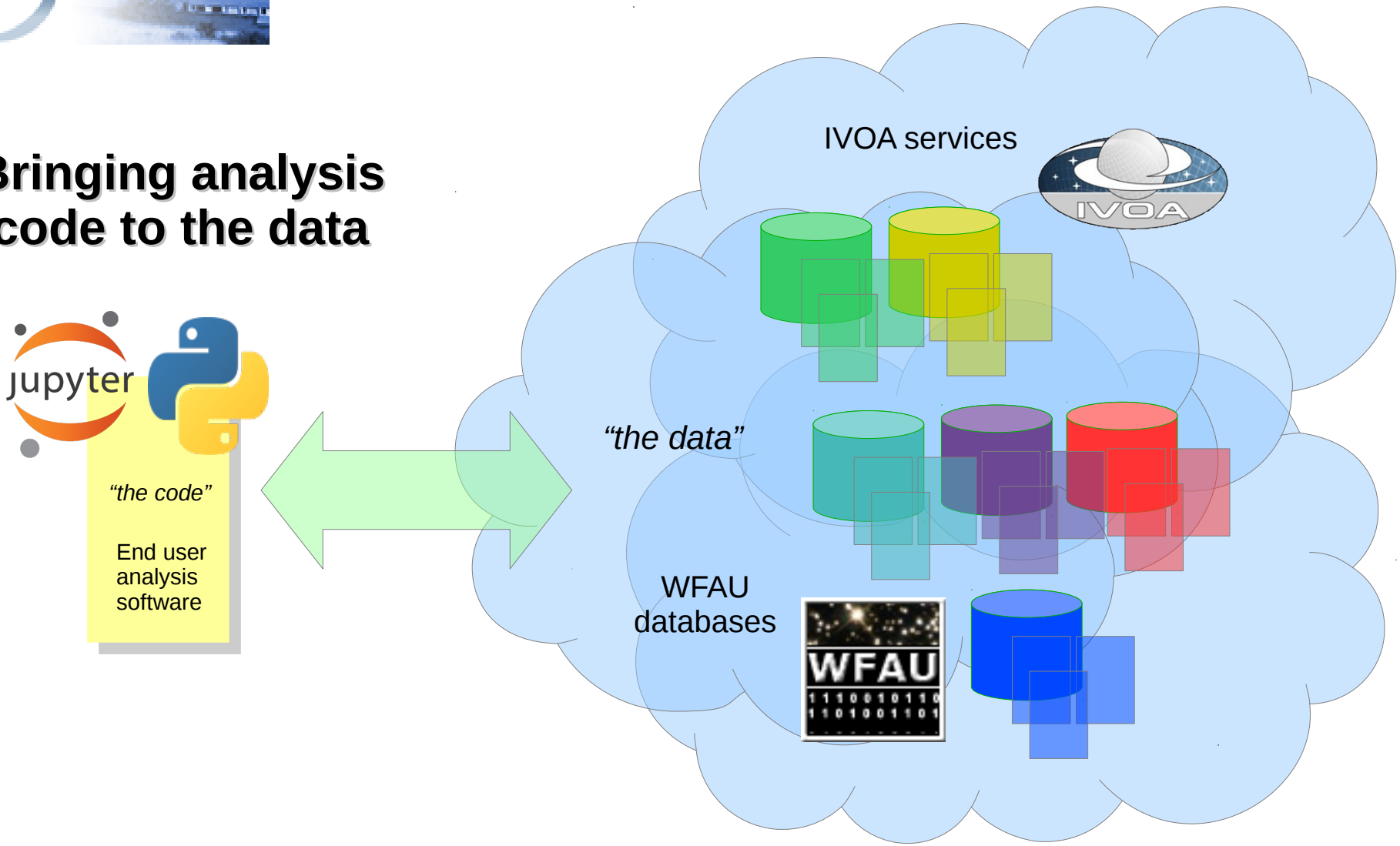
Bringing analysis code to the data



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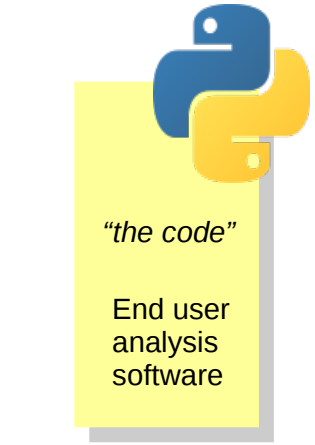
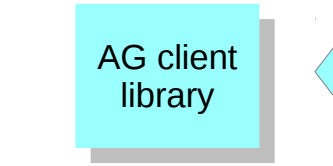
AstroGrid desktop Python client

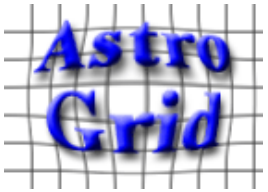
User code executed on the desktop

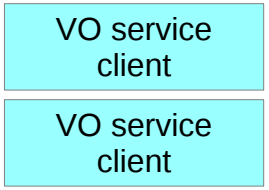


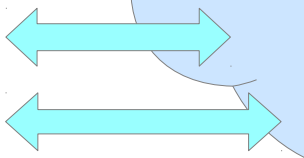
Python API

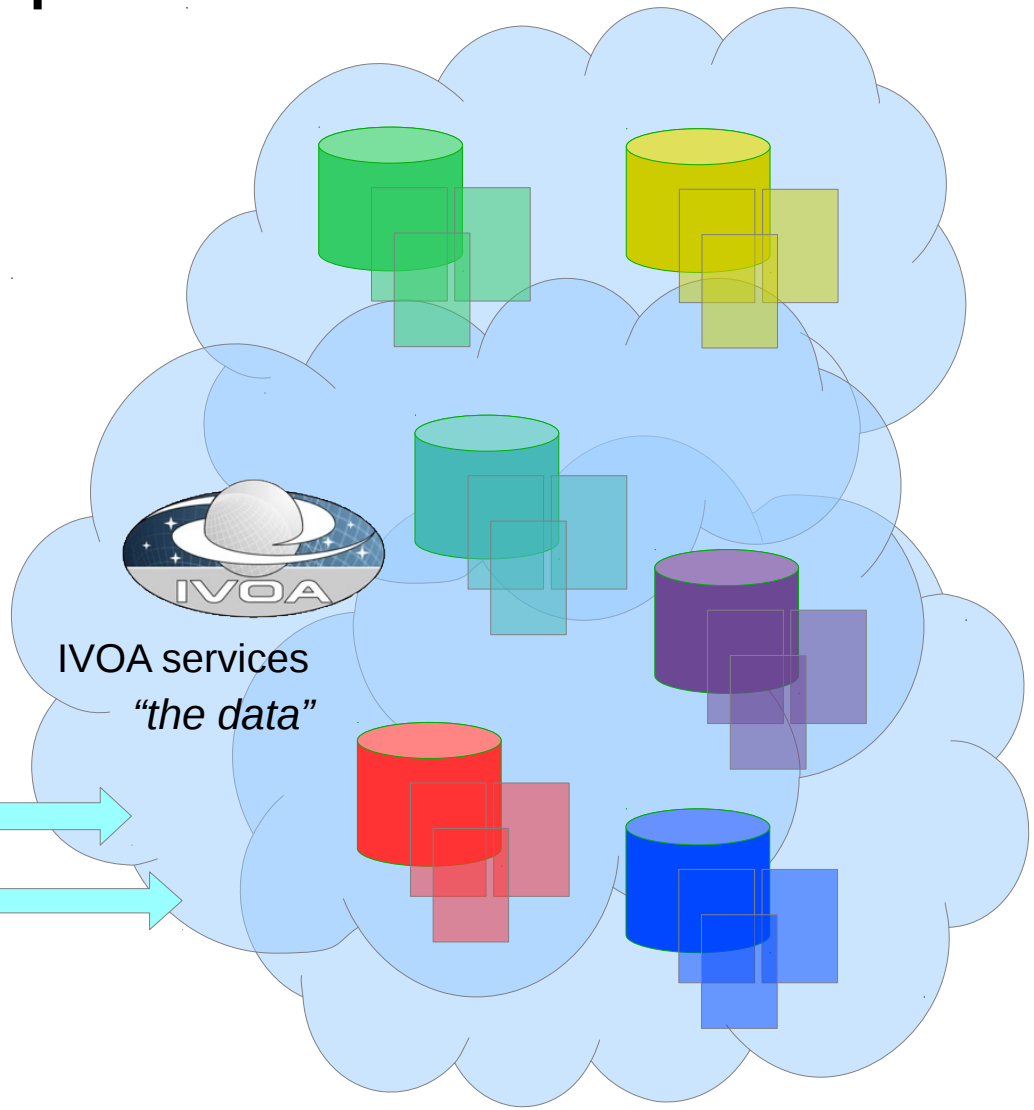


AstroGrid client connects to IVOA services









IVOA services
"the data"

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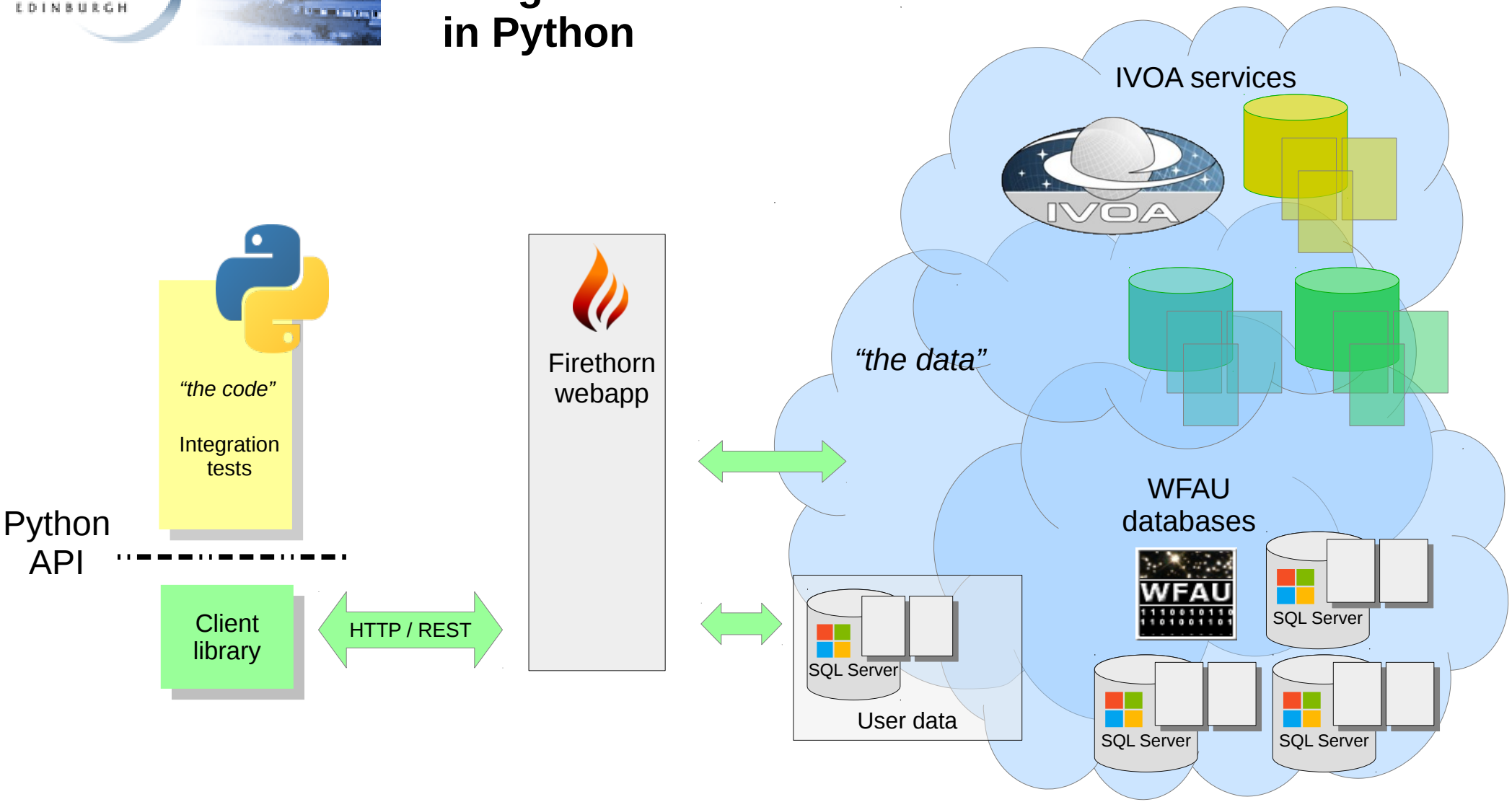
Integration tests in Python



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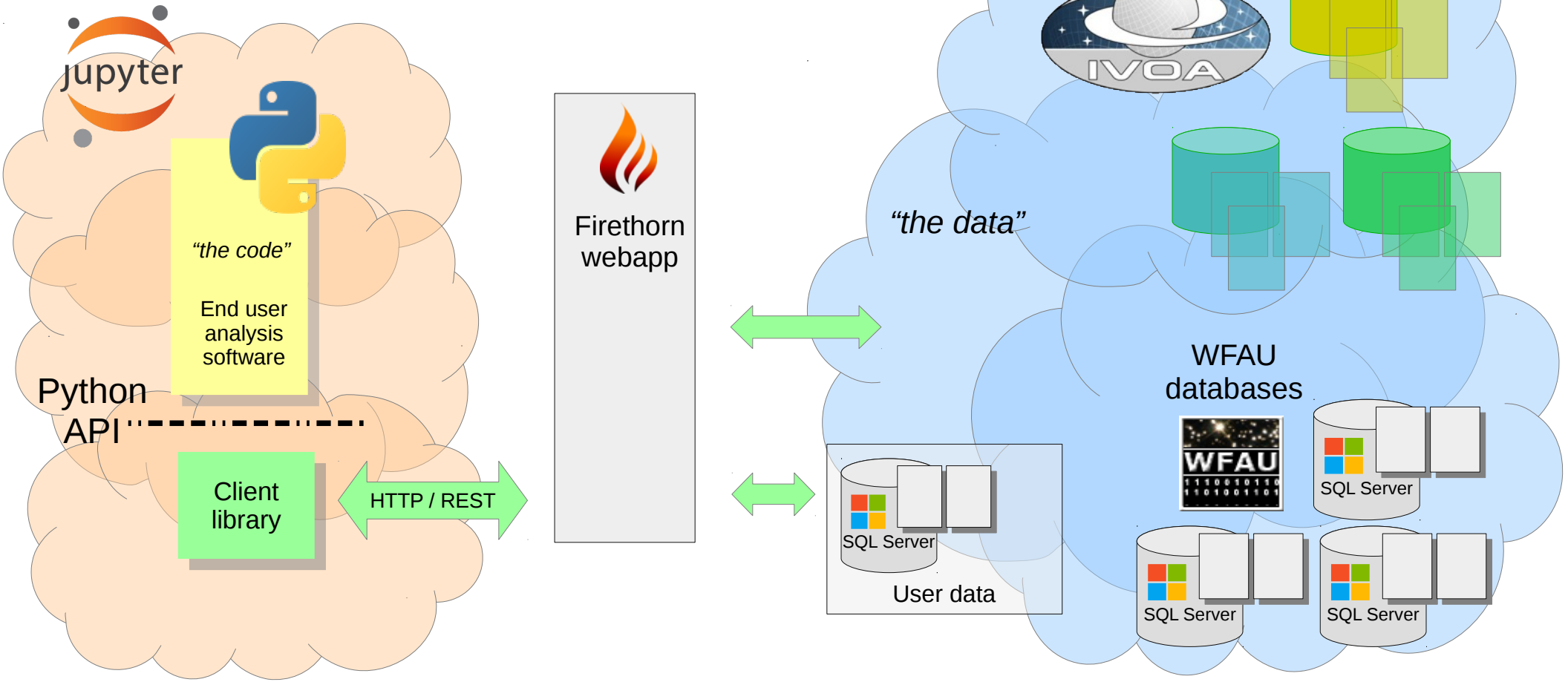
User code deployed in Jupyter



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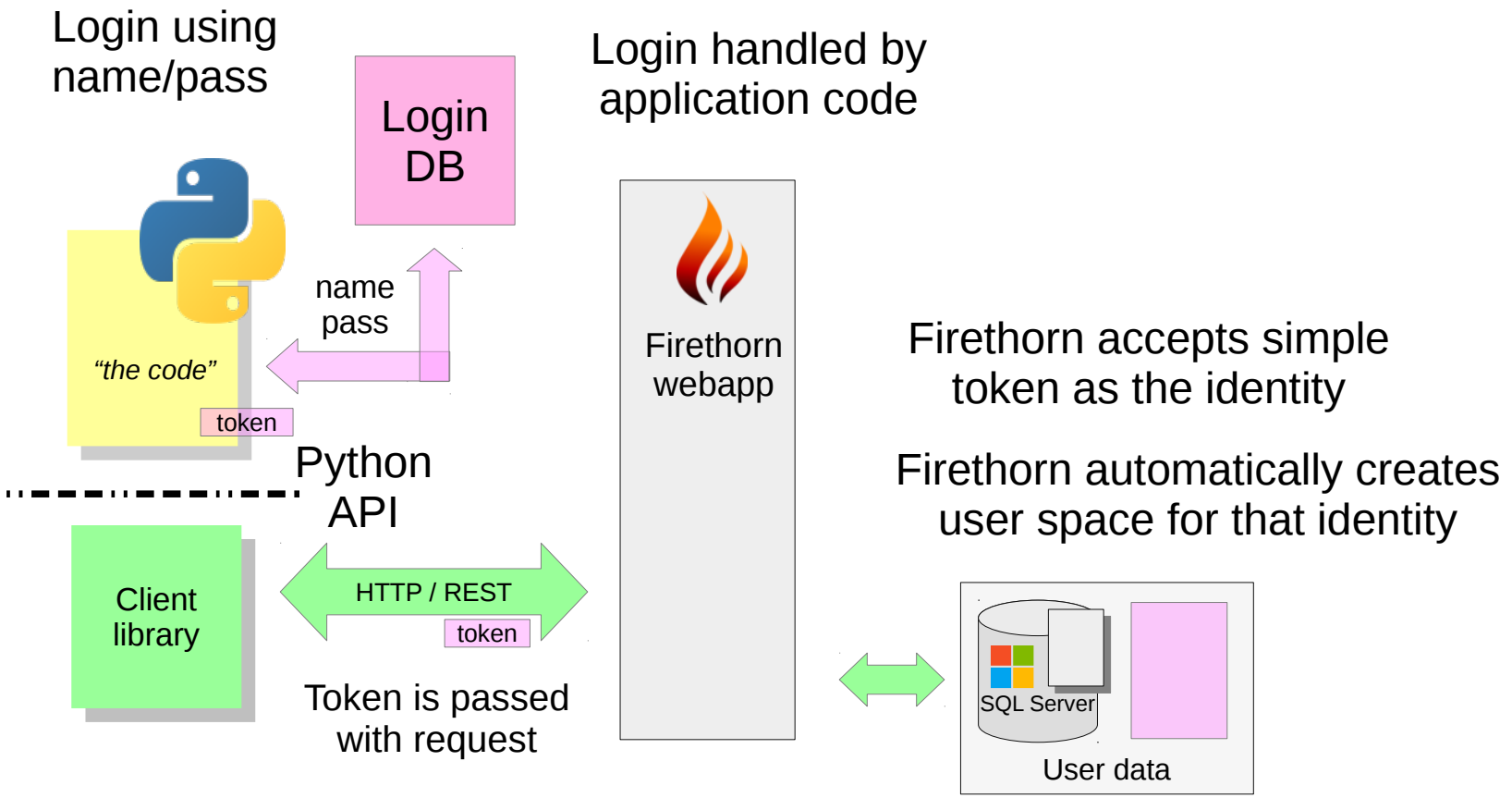
Existing login mechanism simple name/pass



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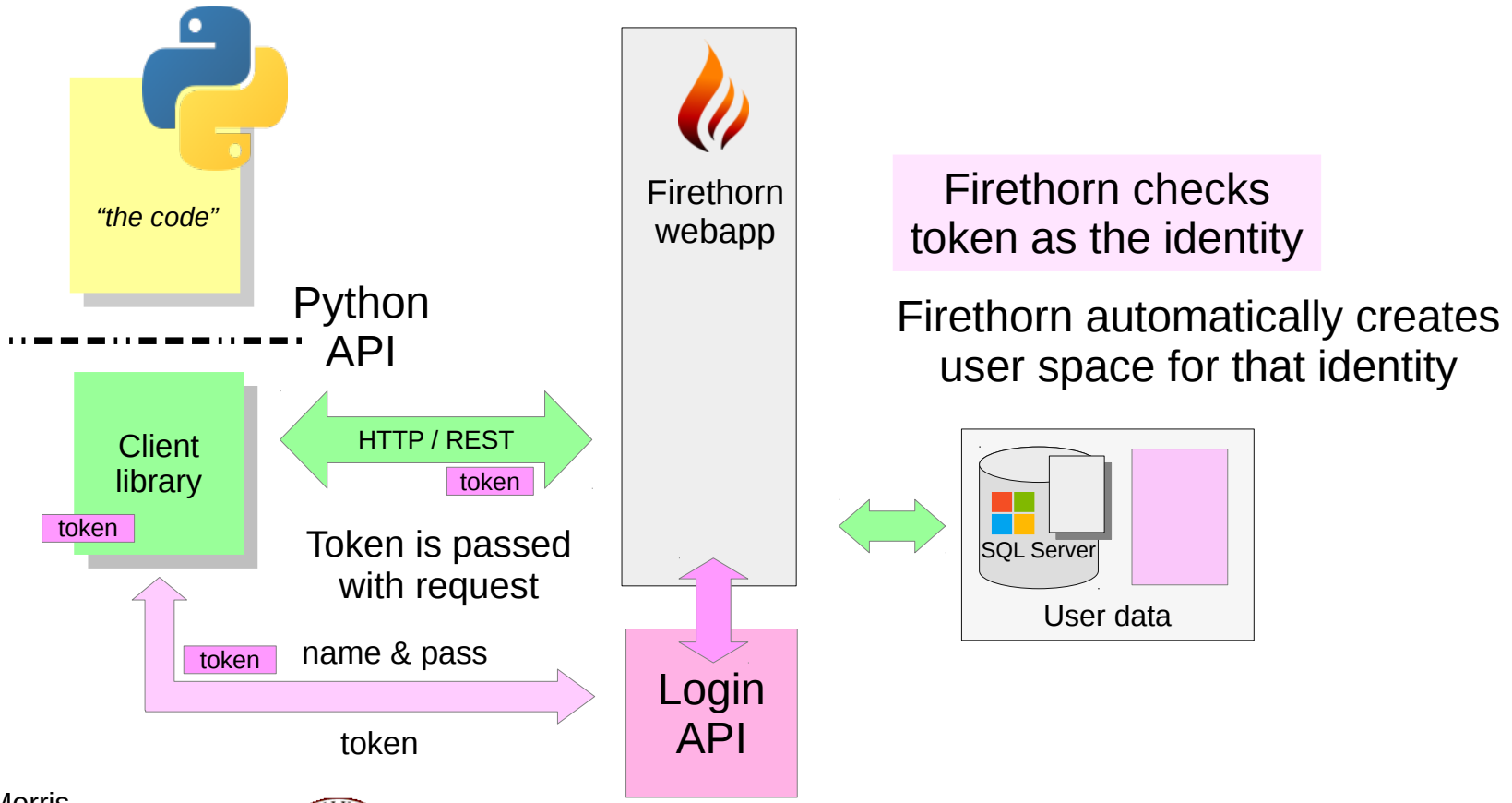
Updated login mechanism name/pass validated token

Login using name/pass

Login handled by client library



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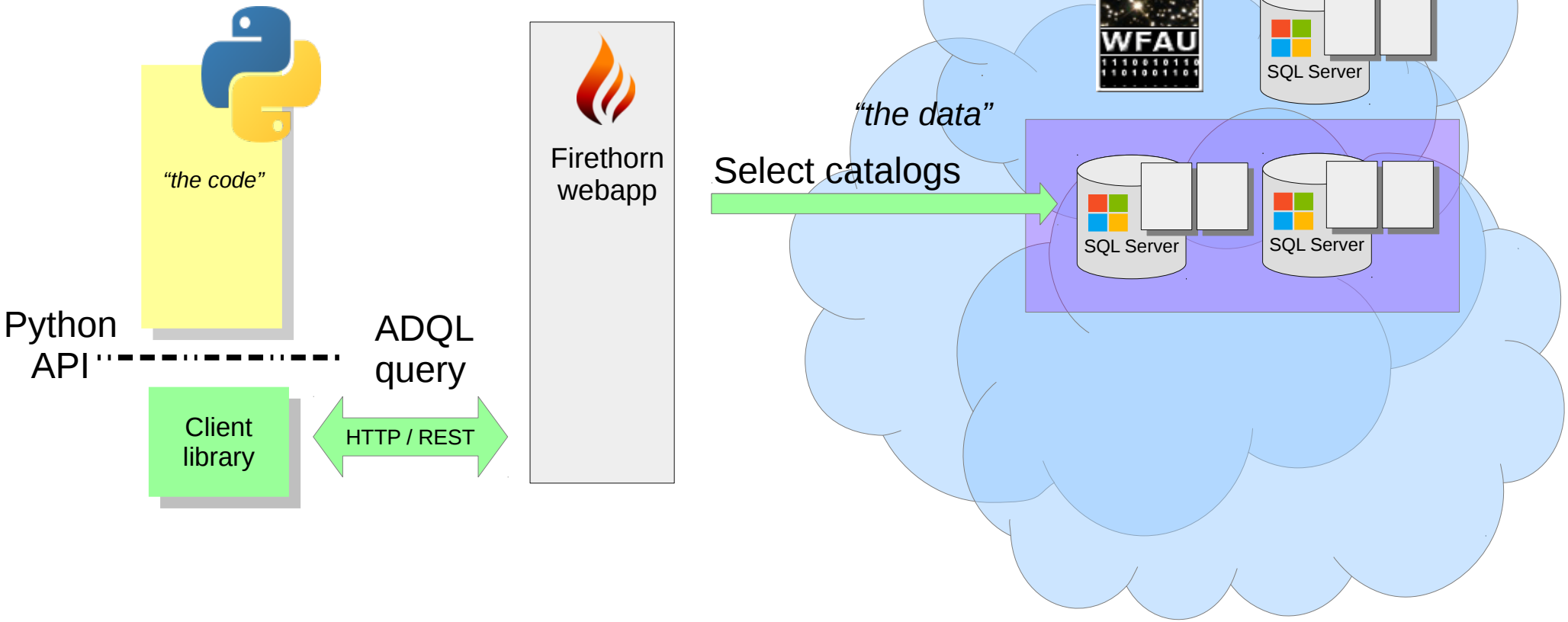
User selects set of databases to query



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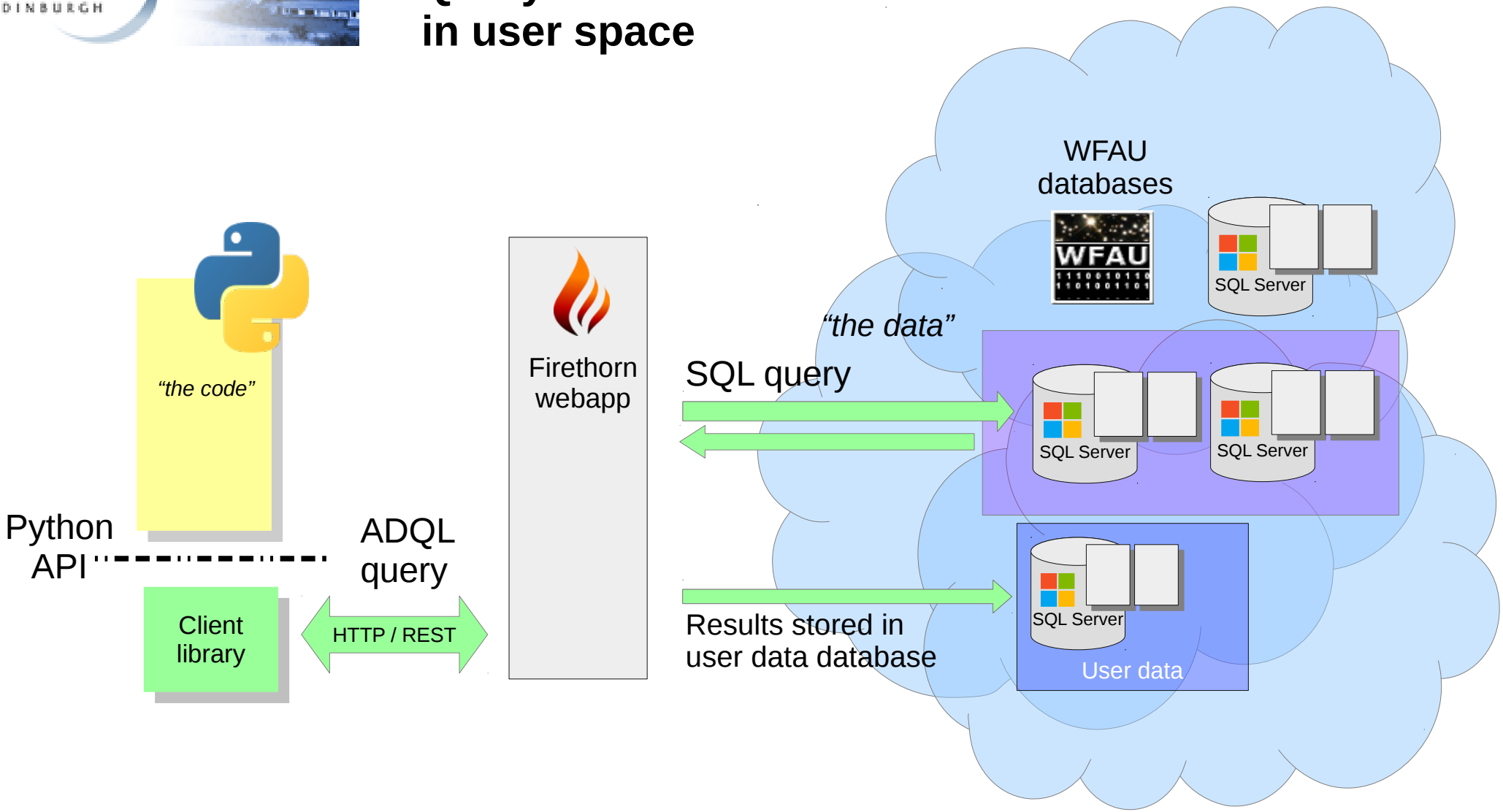
Query results stored in user space



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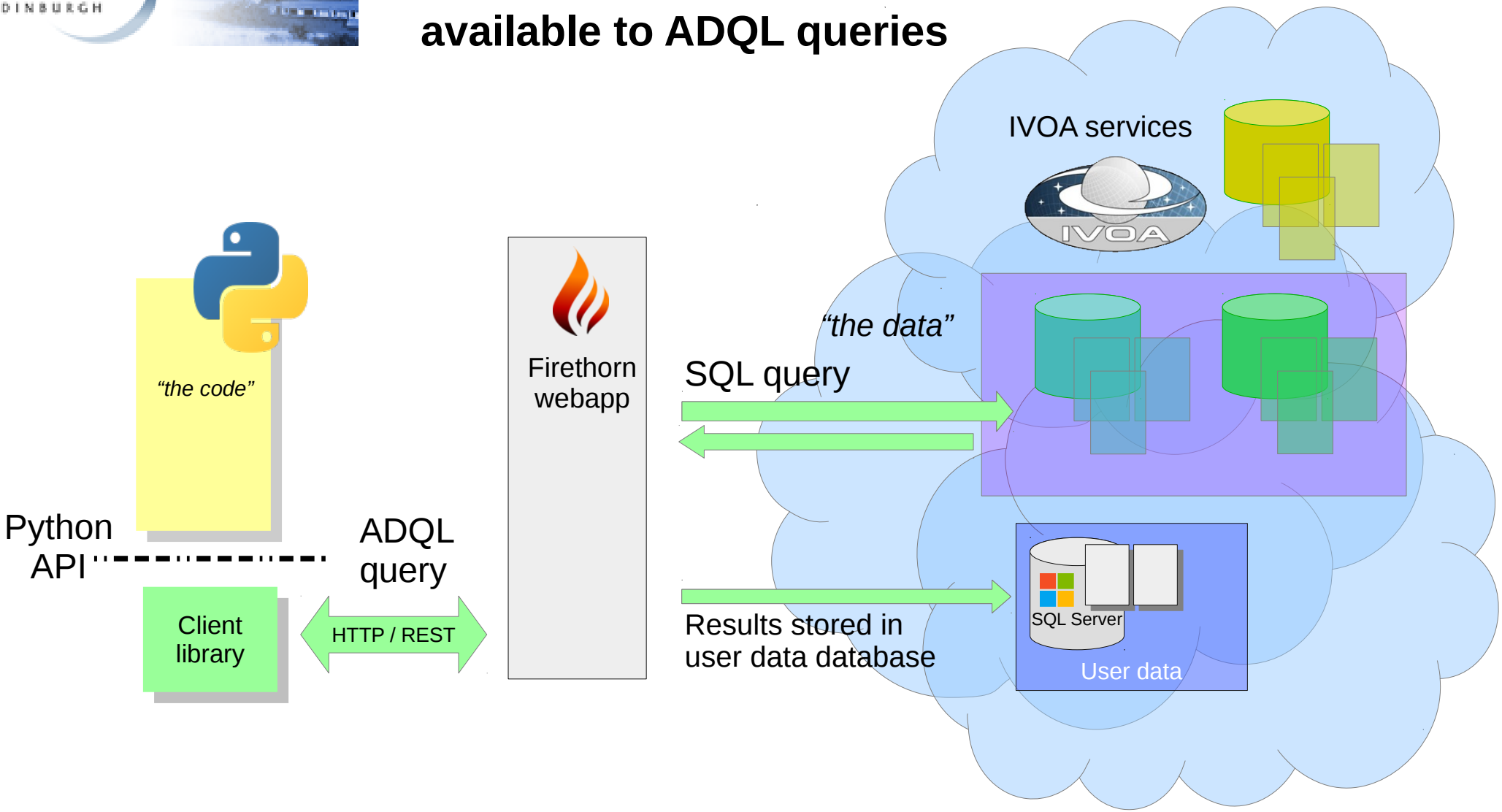
Remote TAP services available to ADQL queries



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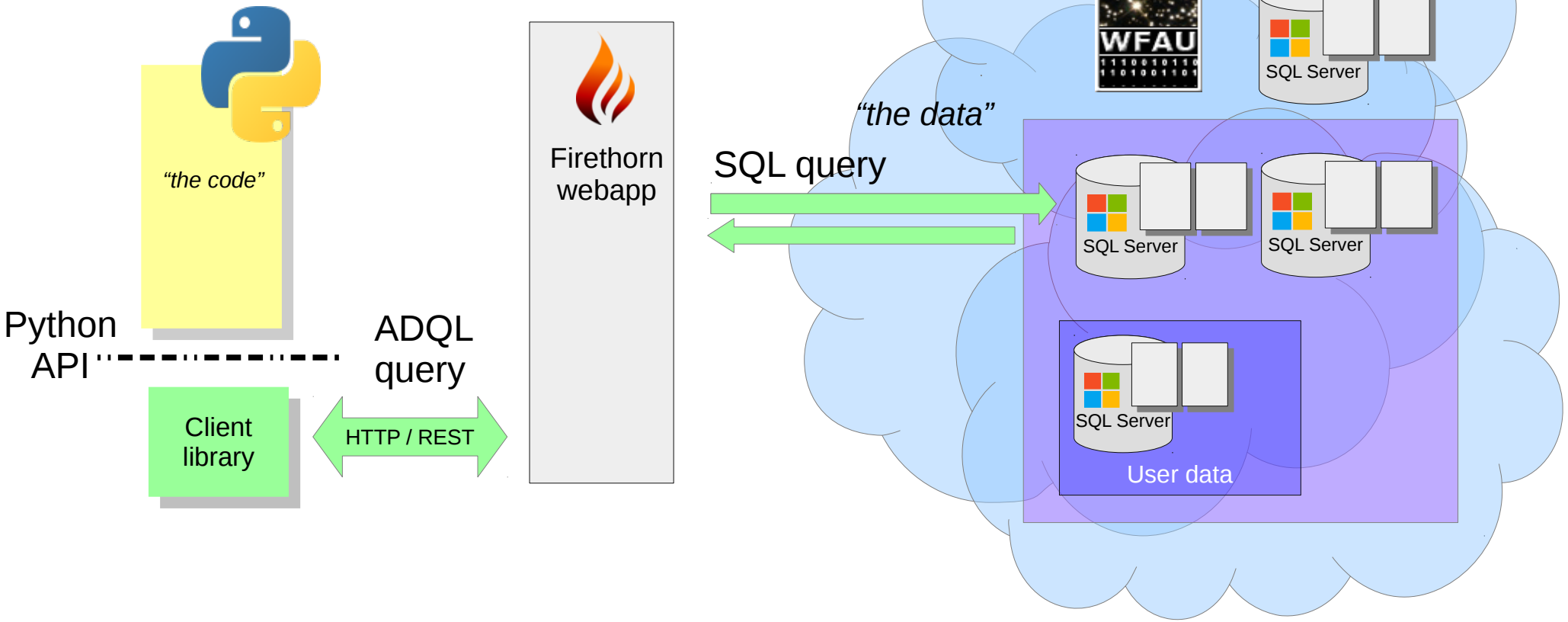
Query results available to ADQL queries



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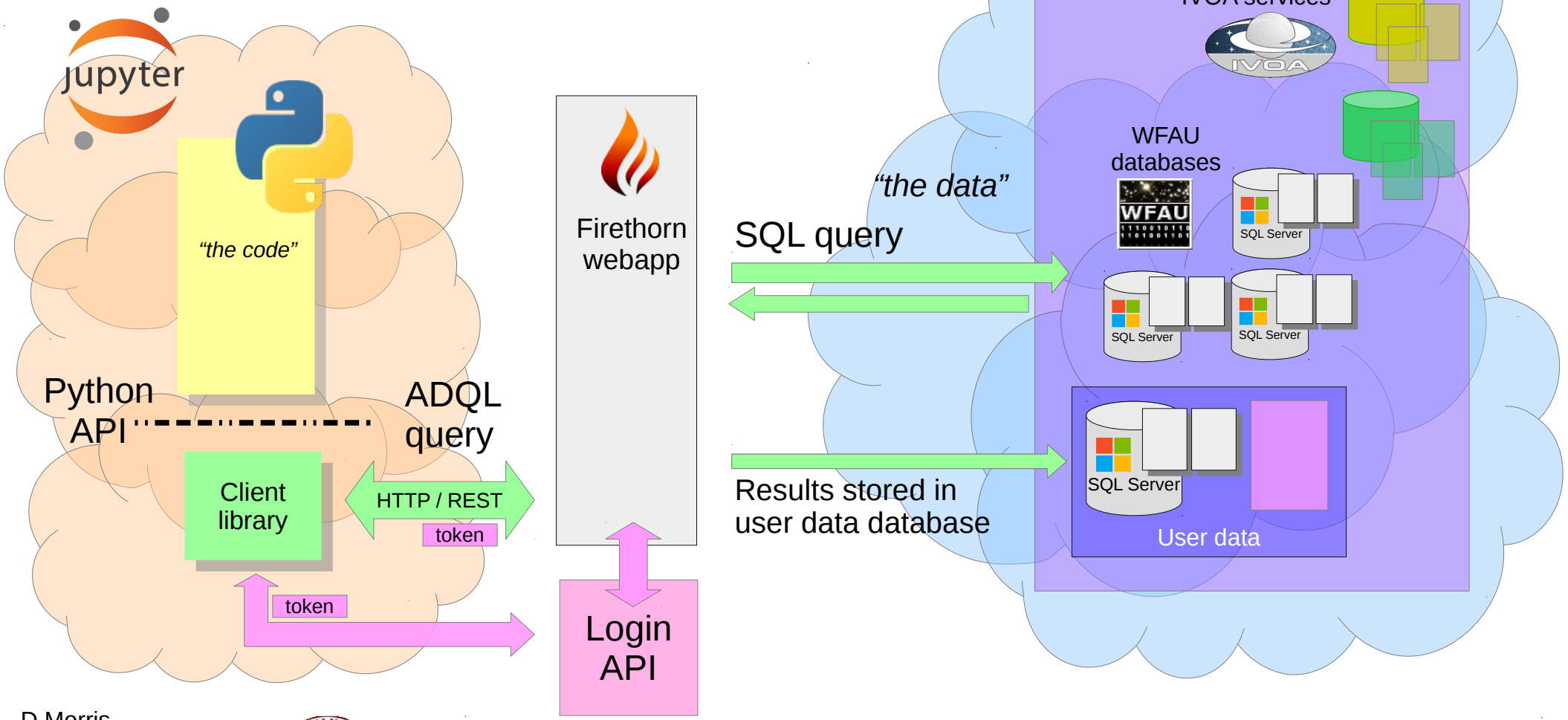
Python code deployed in Jupyter Hub



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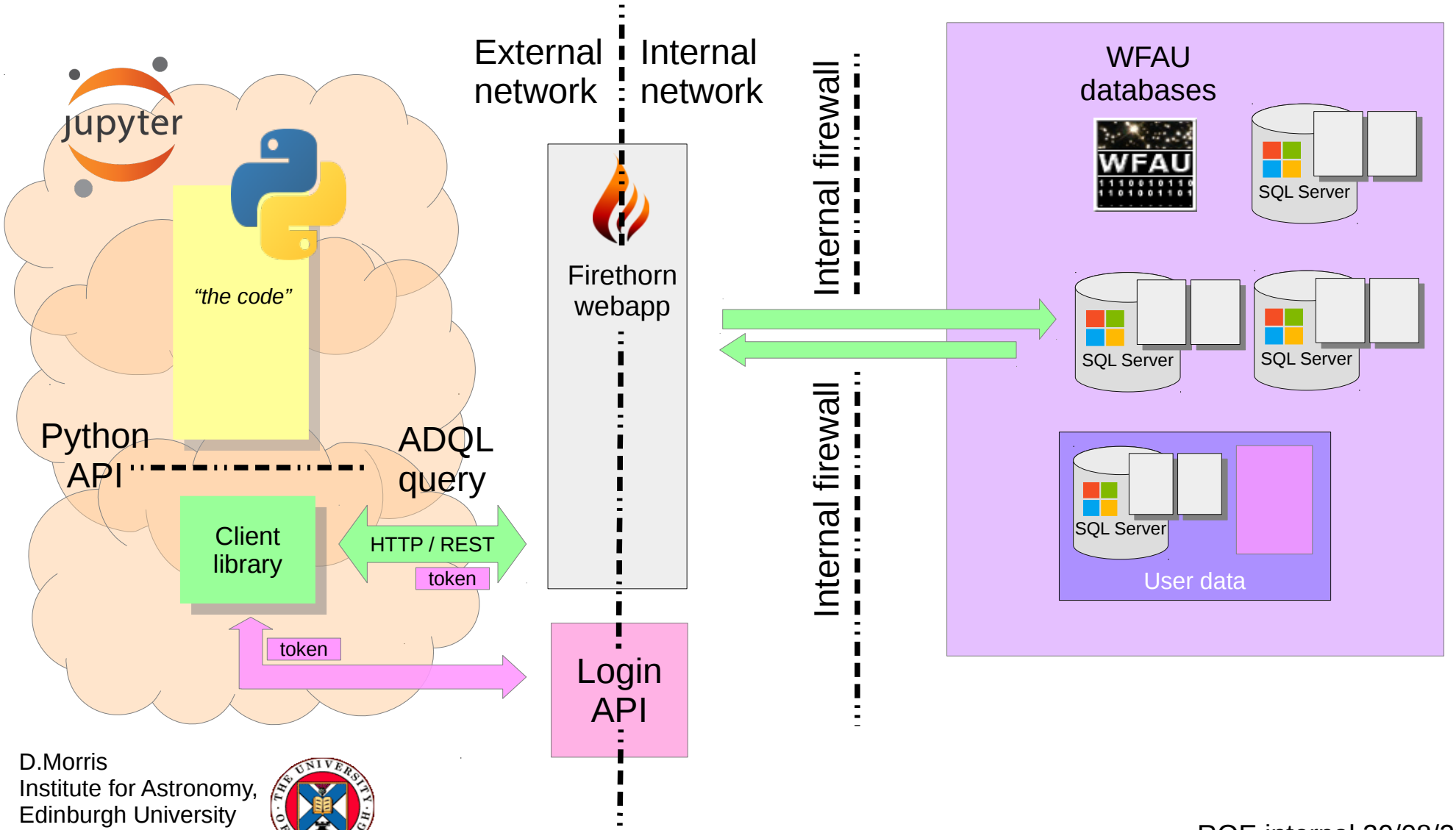
User submitted code isolated from the WFAU network



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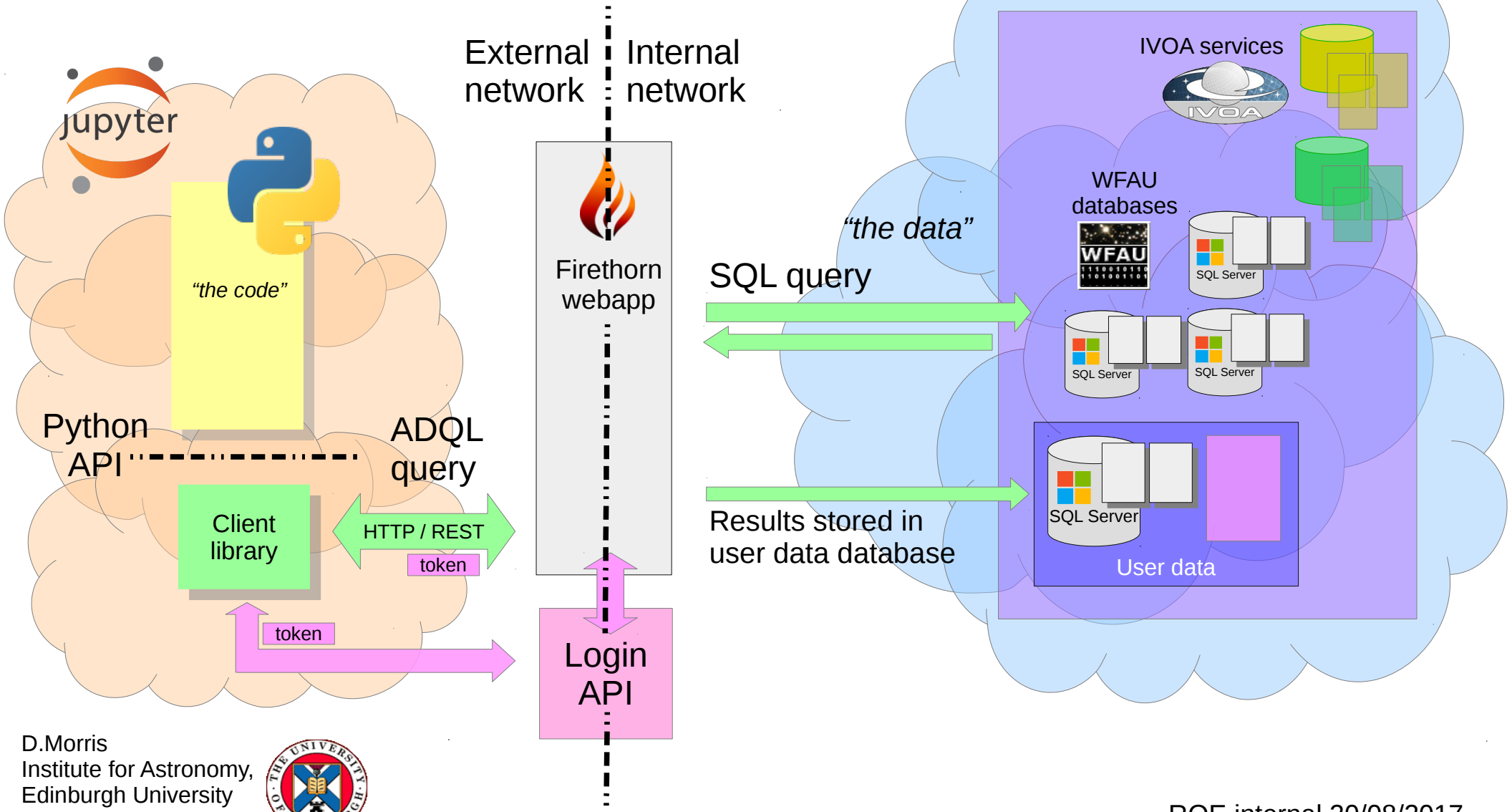
Putting it all together ...



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