

# VOTECH

## Design Study Area 3 Review

Keith Noddle, DS3 WG Lead



# Purpose

- Quoting from the VOTECH proposal:
  - To design mature infrastructure components for EuroVO
  - To assess key new infrastructural technologies
  - To ensure interoperability and international integration

# Purpose

- ...and with a little detail thrown in:
  - This task aims at producing final designs of mature components, as well as assessments, designs and trials of new components that don't fit into the major categories of DS4-6. It is expected that the priority areas will be in authentication/authorisation; in workflow and in distributed storage (VOSpace). In addition, DS3 has a responsibility for considering interoperability, integration and testing within the context of the overall EuroVO architecture and hence liaising with the VOFC
- There is more, but these are the key elements DS3 is working to realise.

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# Formal Deliverables

- DS3-01: Infrastructure Study Report
- DS3-02: First Infrastructure Prototype release
- DS3-03: Second Infrastructure Prototype release
- DS3-04: Third Infrastructure Prototype release

# DS3-01: Infrastructure Study Report

- The Study aims at producing final designs of mature components, as well as assessments, designs and trials of new components that don't fit into the major categories of DS4-6
  - authentication/authorisation (and eventually accounting)
  - an easy to use API for VO compliant services
  - access to astronomical datasets
  - work-flow
  - distributed storage (VOspace)
- The Study can be found [here](#).

# DS3-02: First Infrastructure

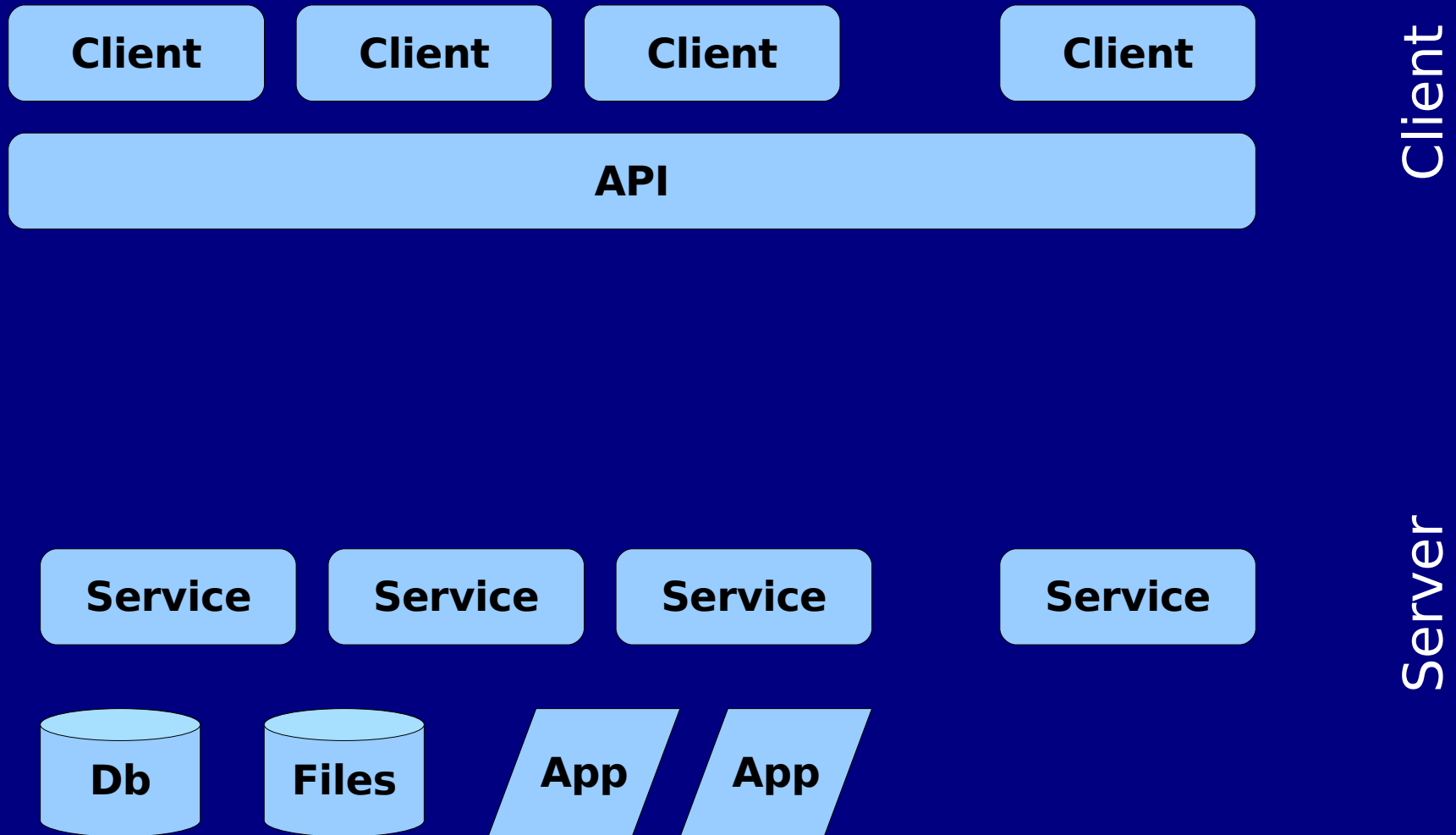
## Prototype release

- VOTECH deliverables are all referenced from the [software downloads](#) page
- Much DS3 work is built upon the work of individual European VO projects
- Main locations for DS3 related deliverables can be found at: [AstroGrid](#), [CDS ESO](#), and [INAF](#)

# Future Deliverables

- DS3-03: Second Infrastructure Prototype release
- DS3-04: Third Infrastructure Prototype release

# Scope



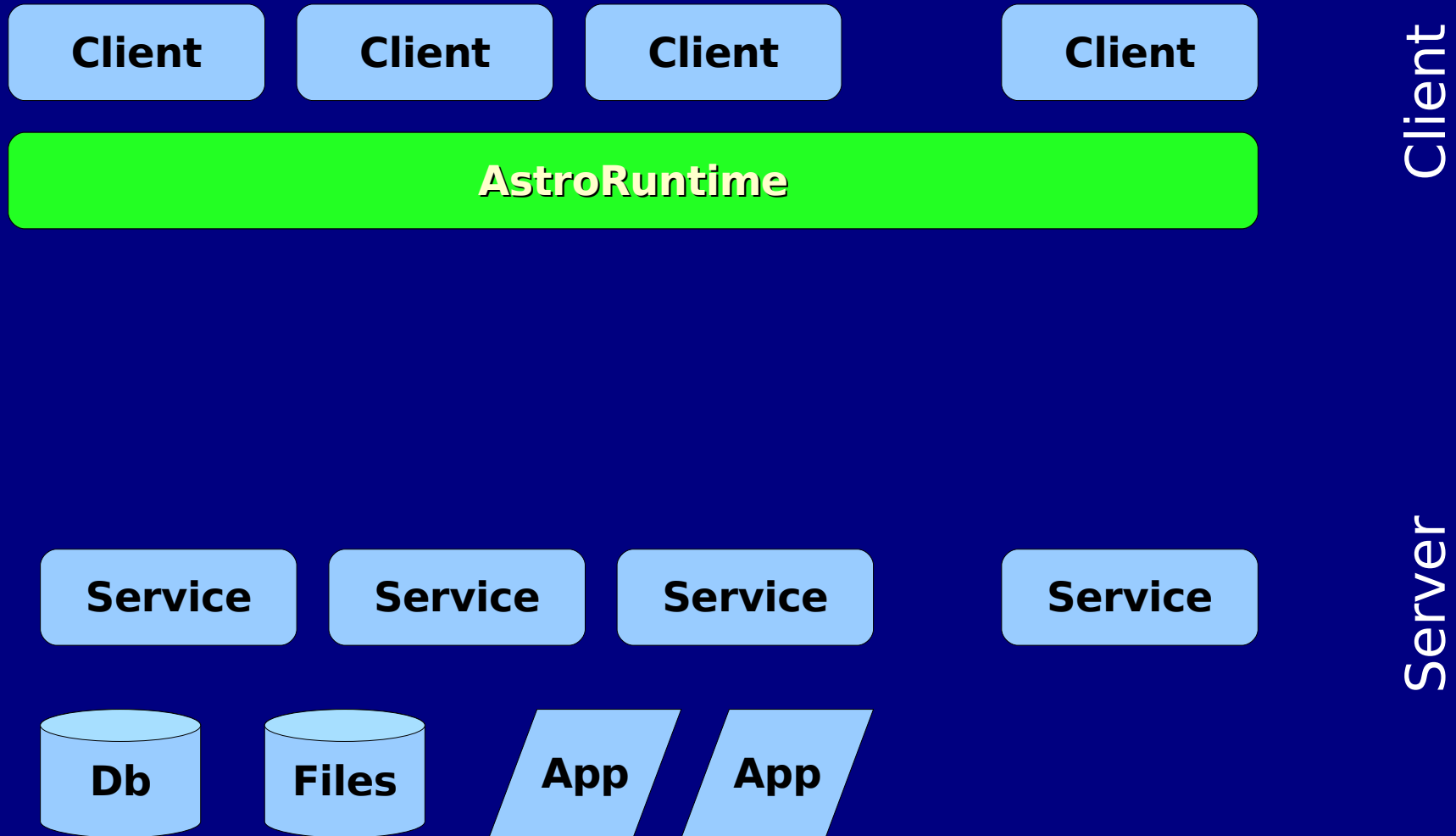
# Scope



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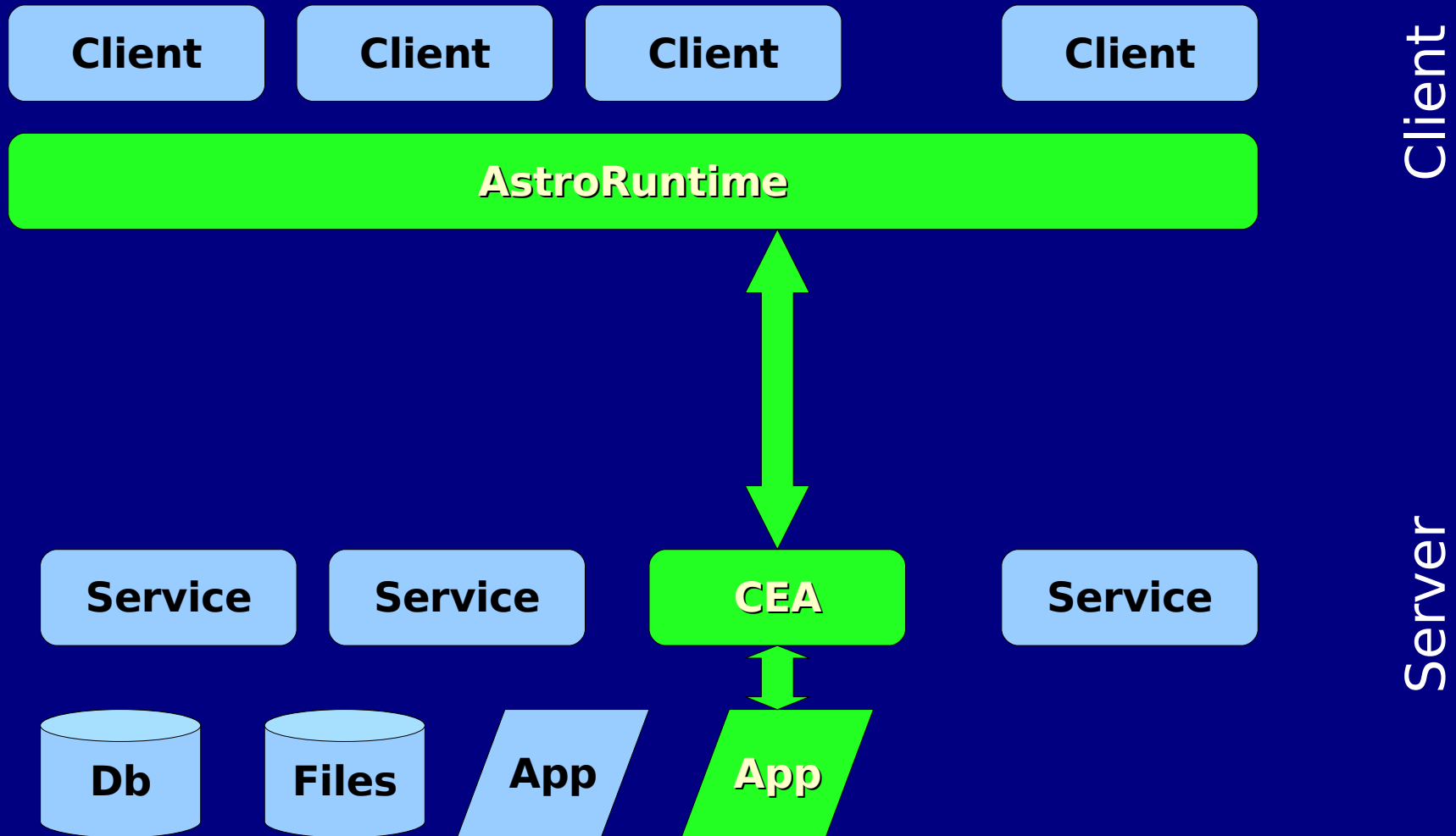
# Areas Covered

## Services and prototypes



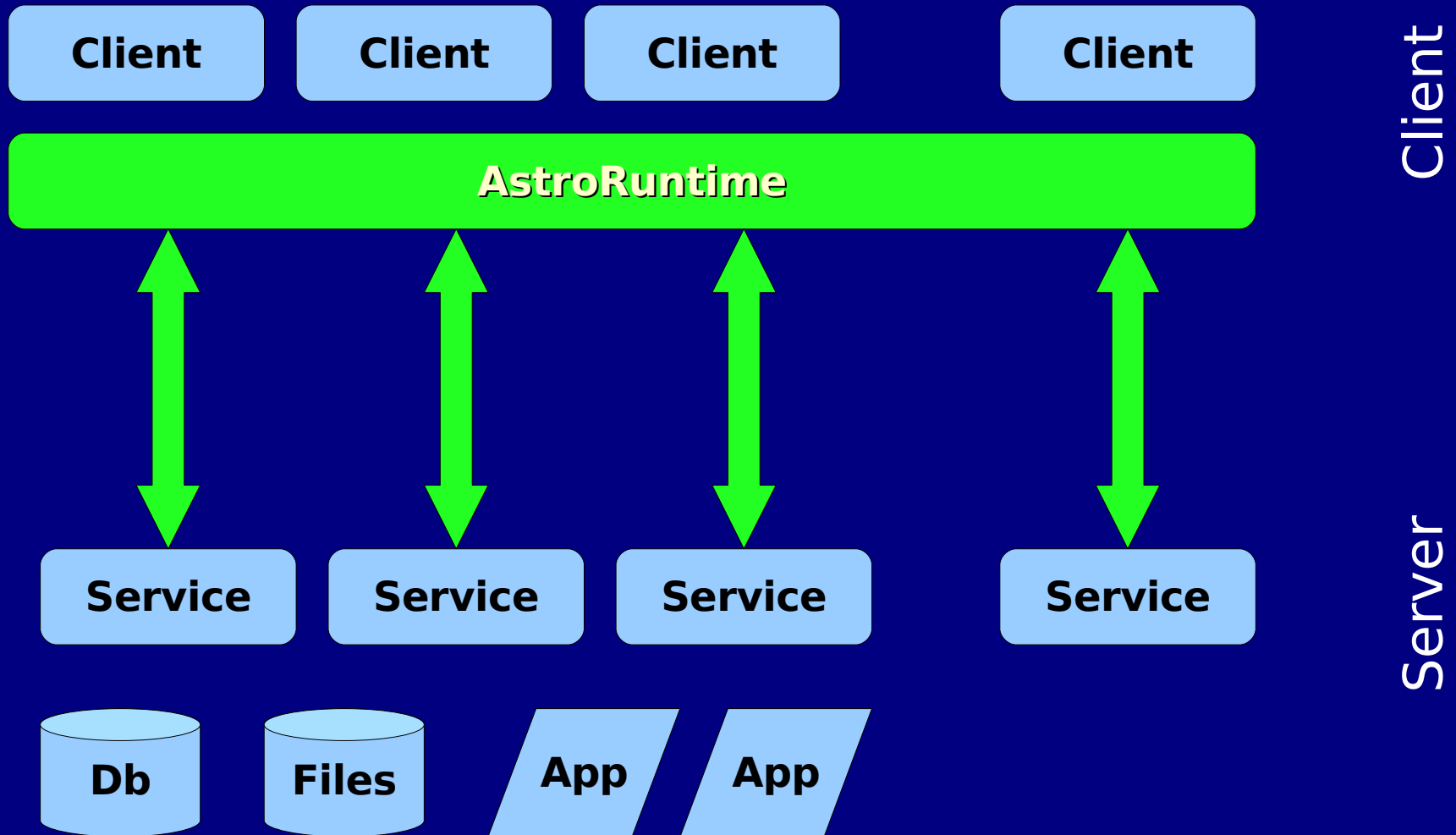
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## Services and prototypes



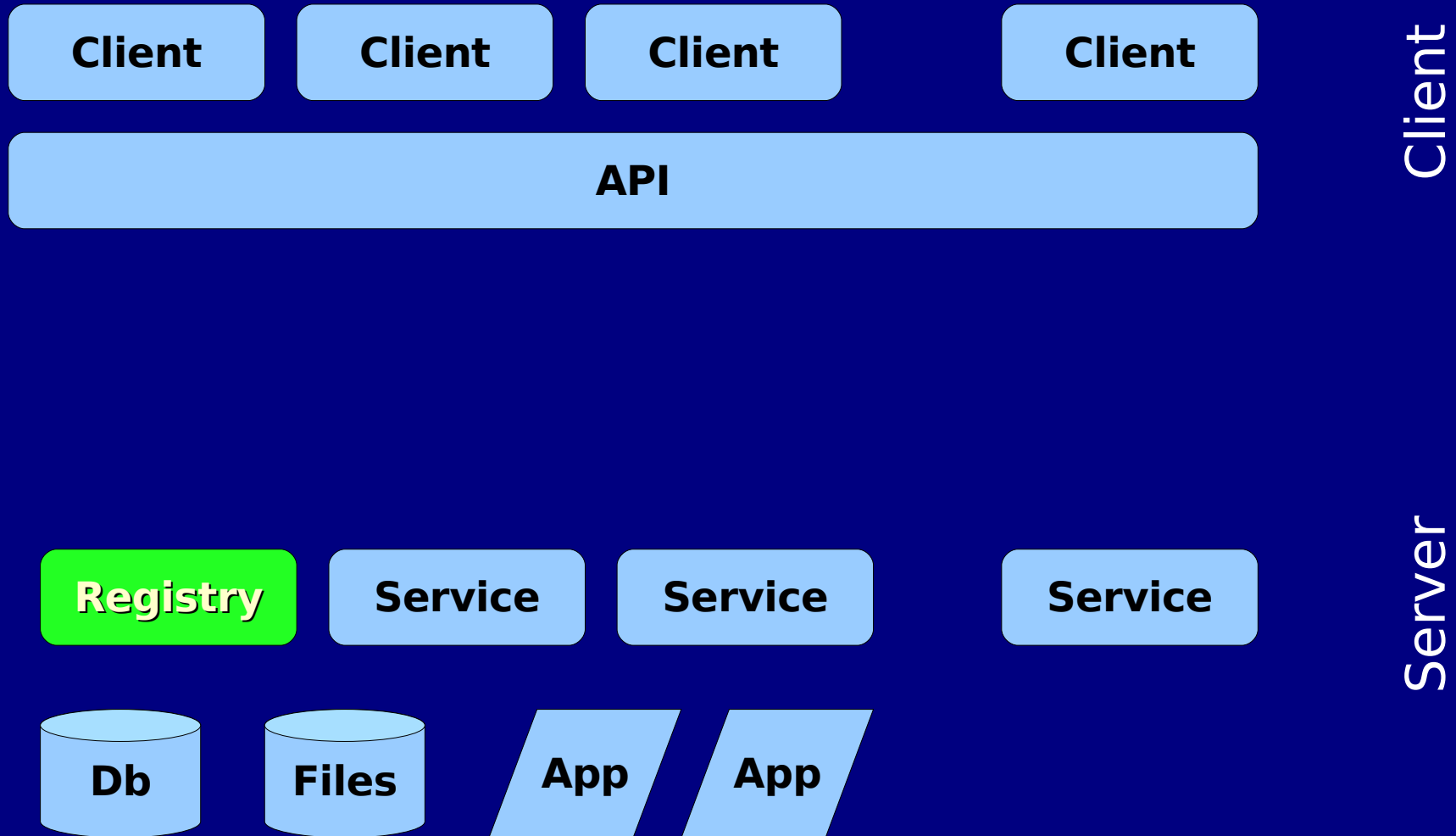
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## Services and prototypes



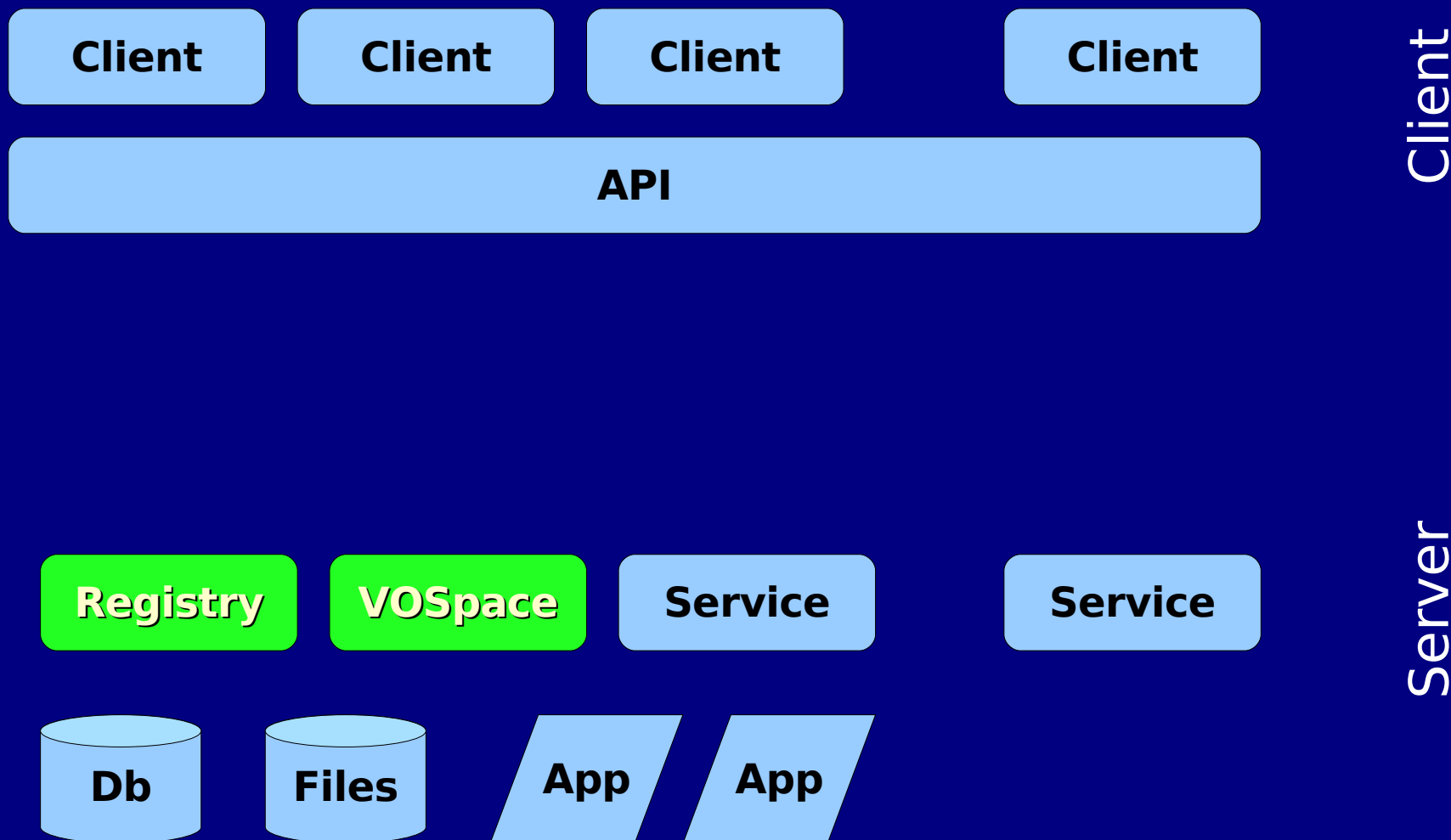
# Areas Covered

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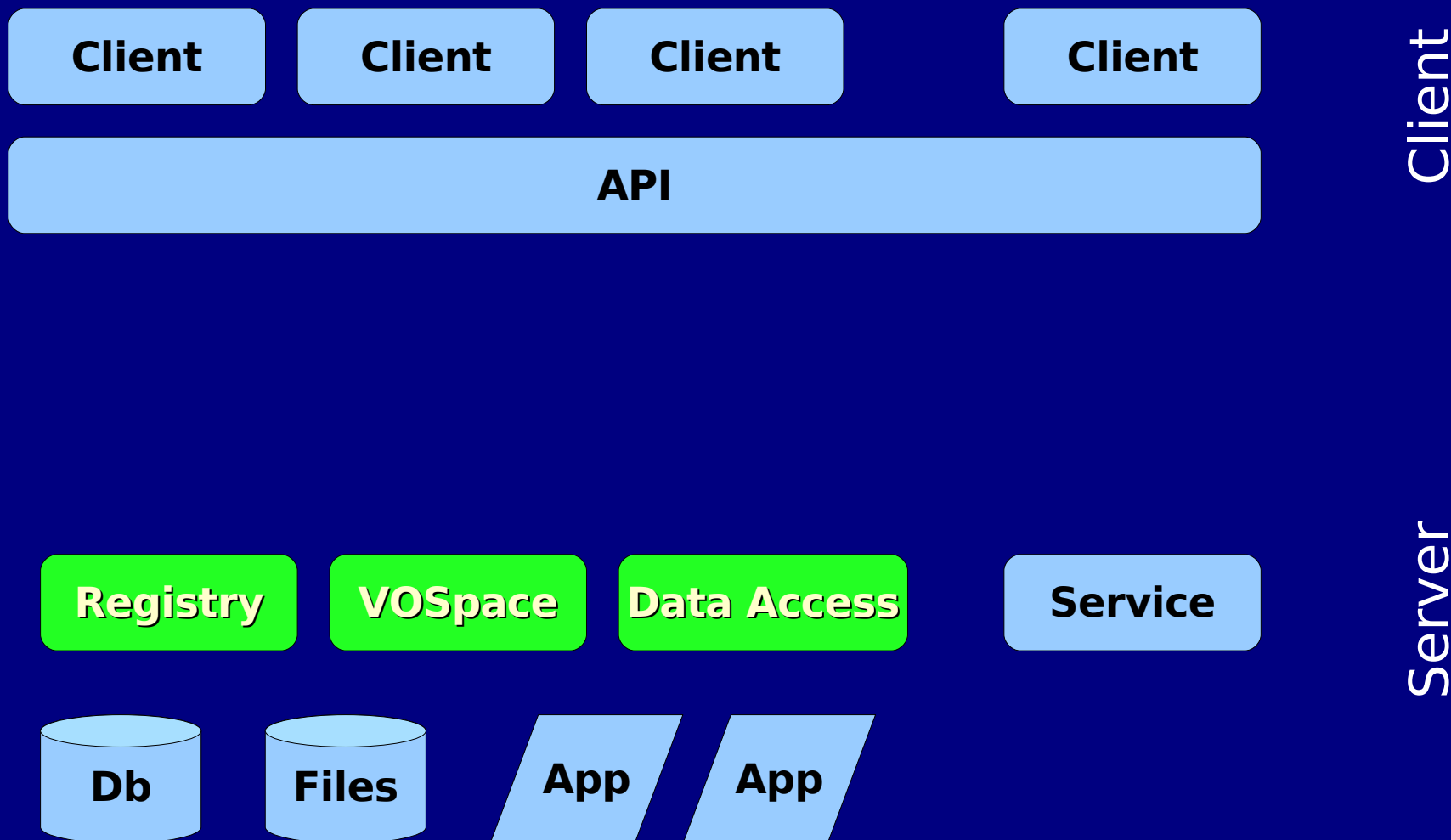
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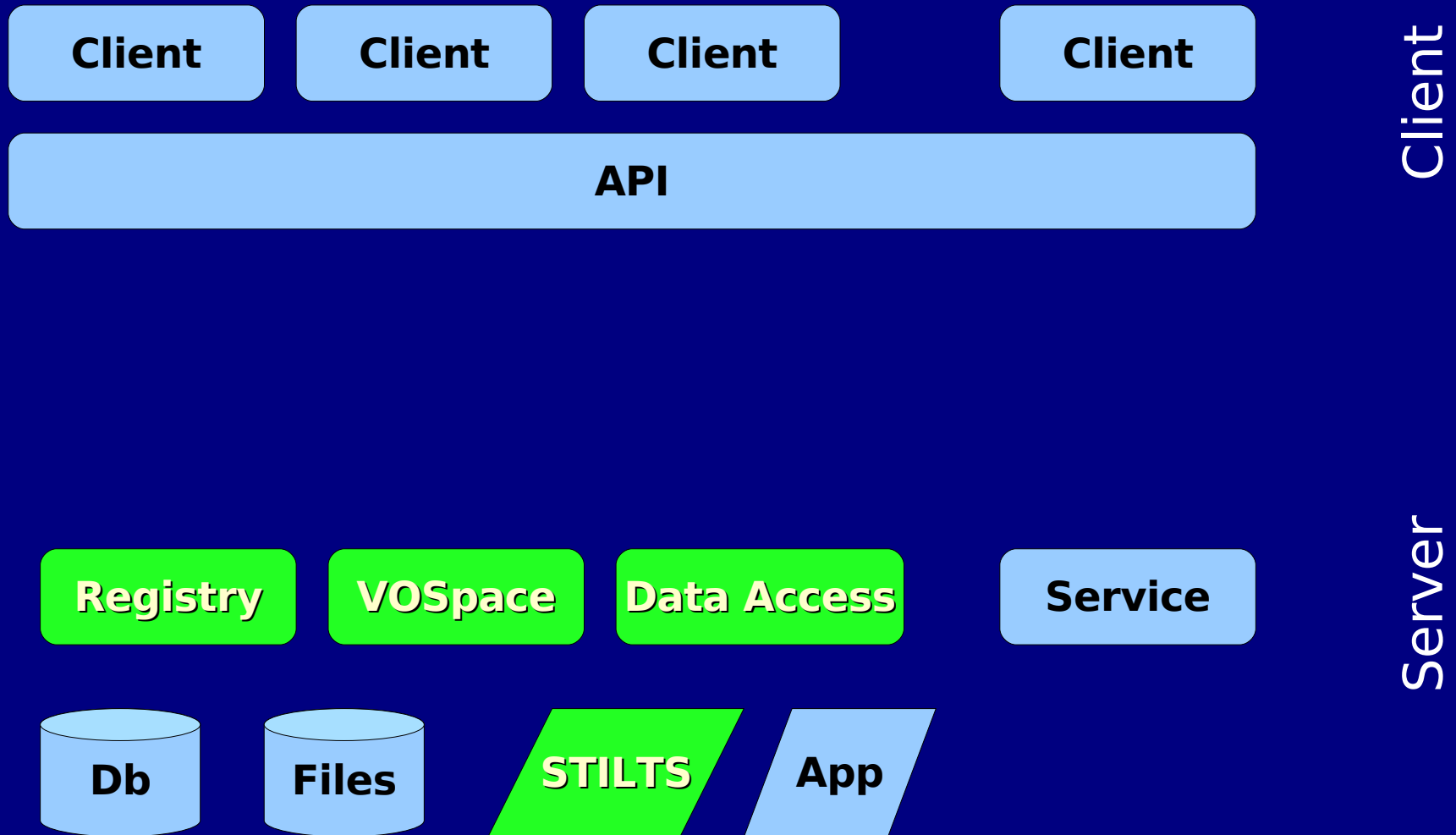
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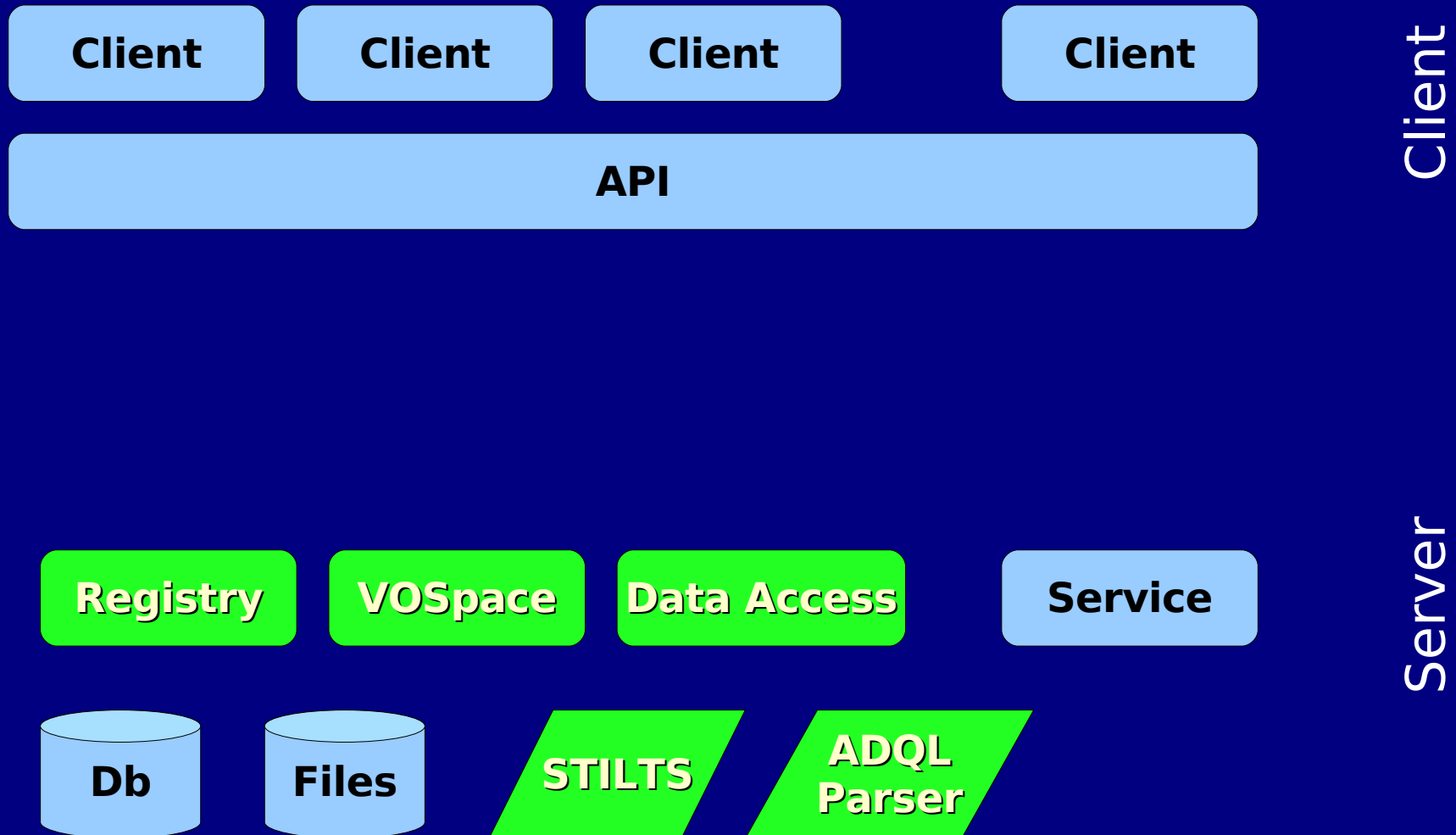
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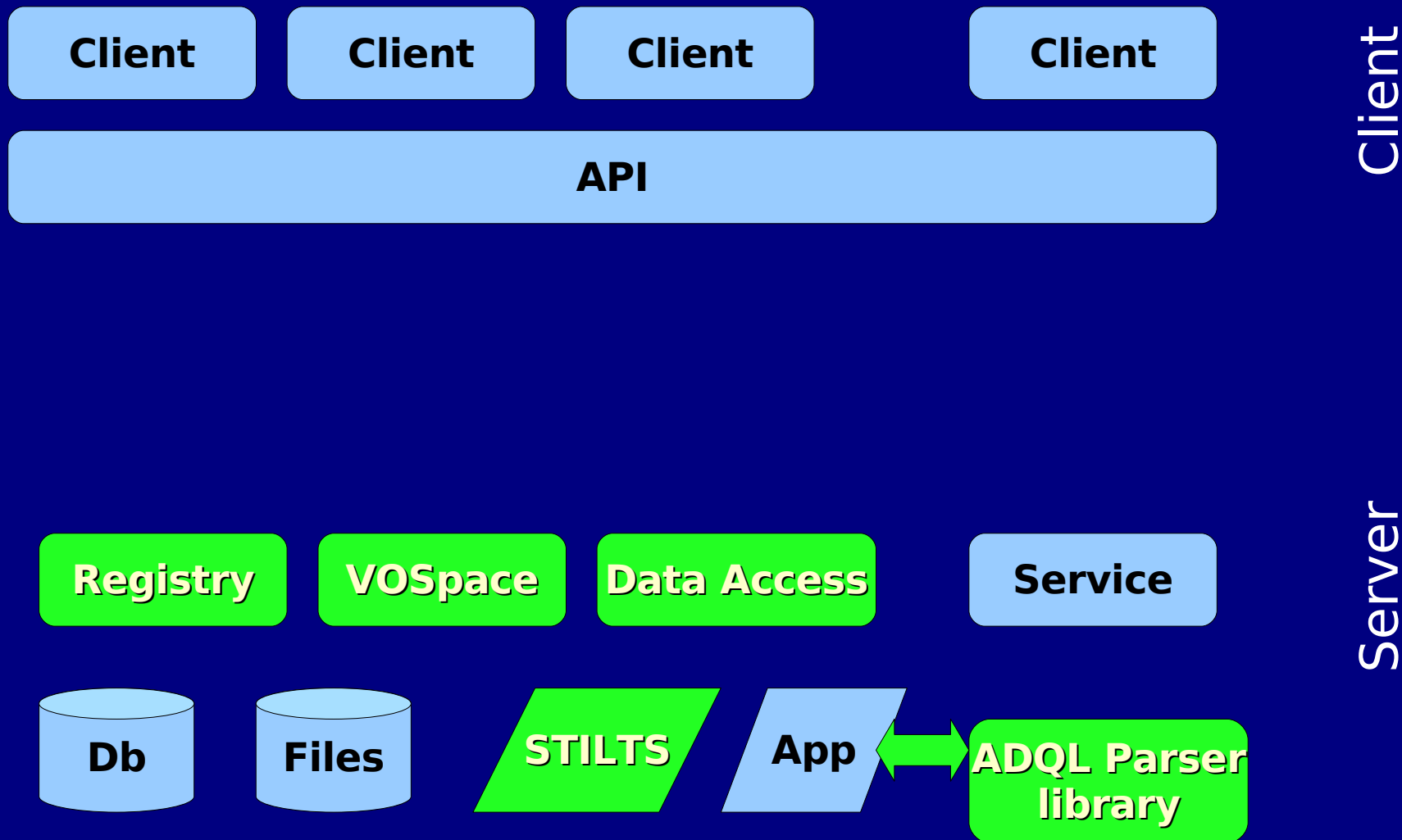
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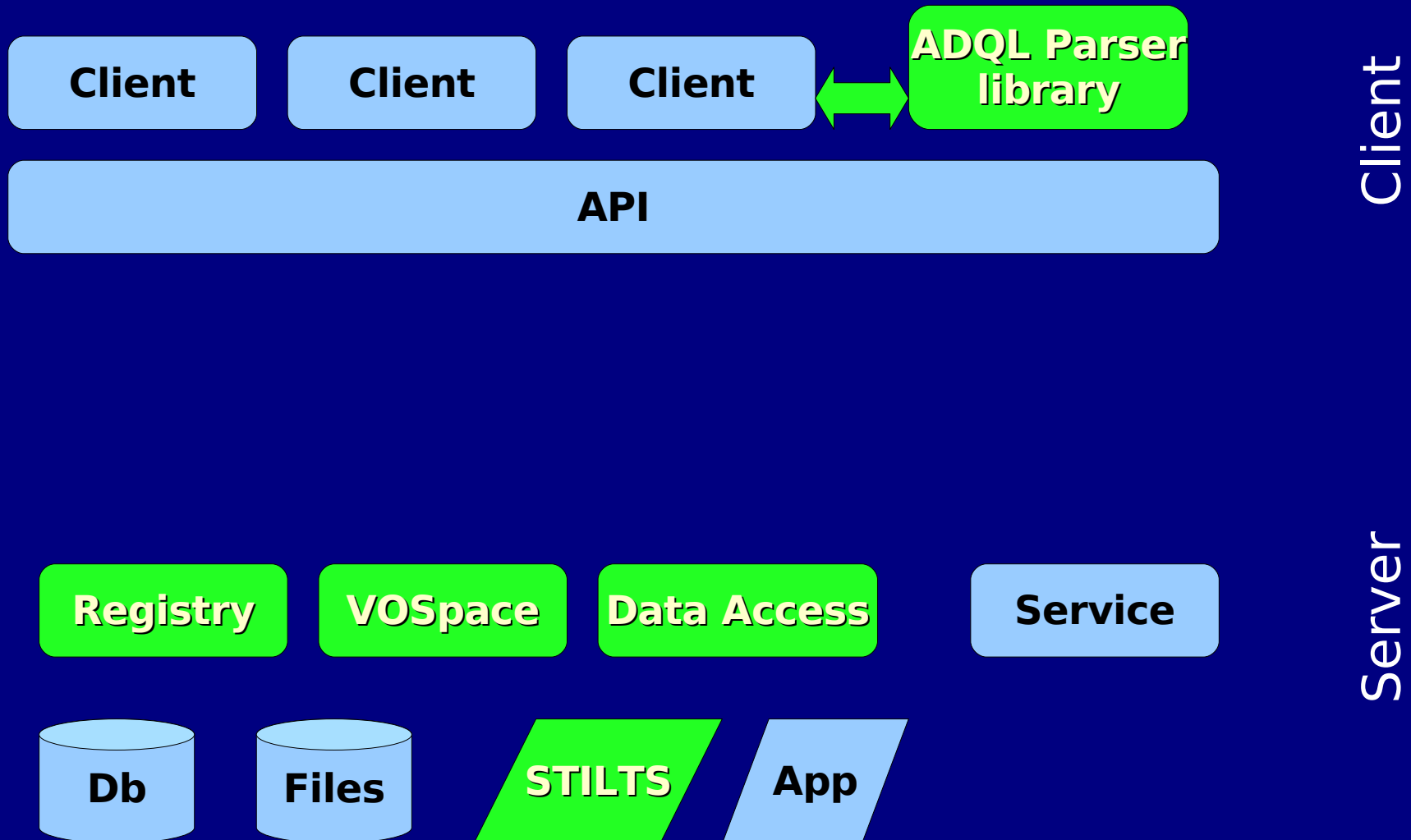
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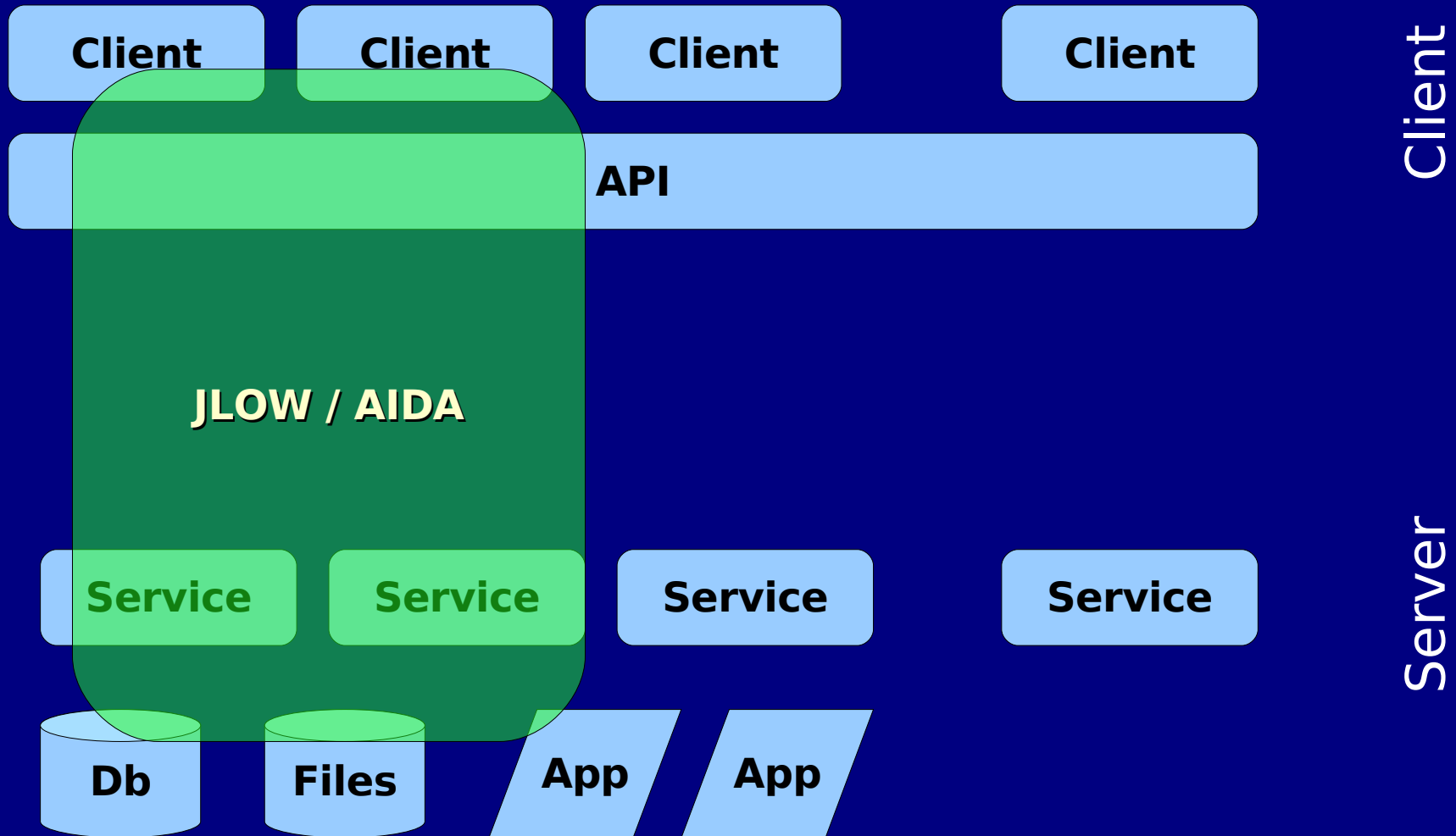
# Areas Covered

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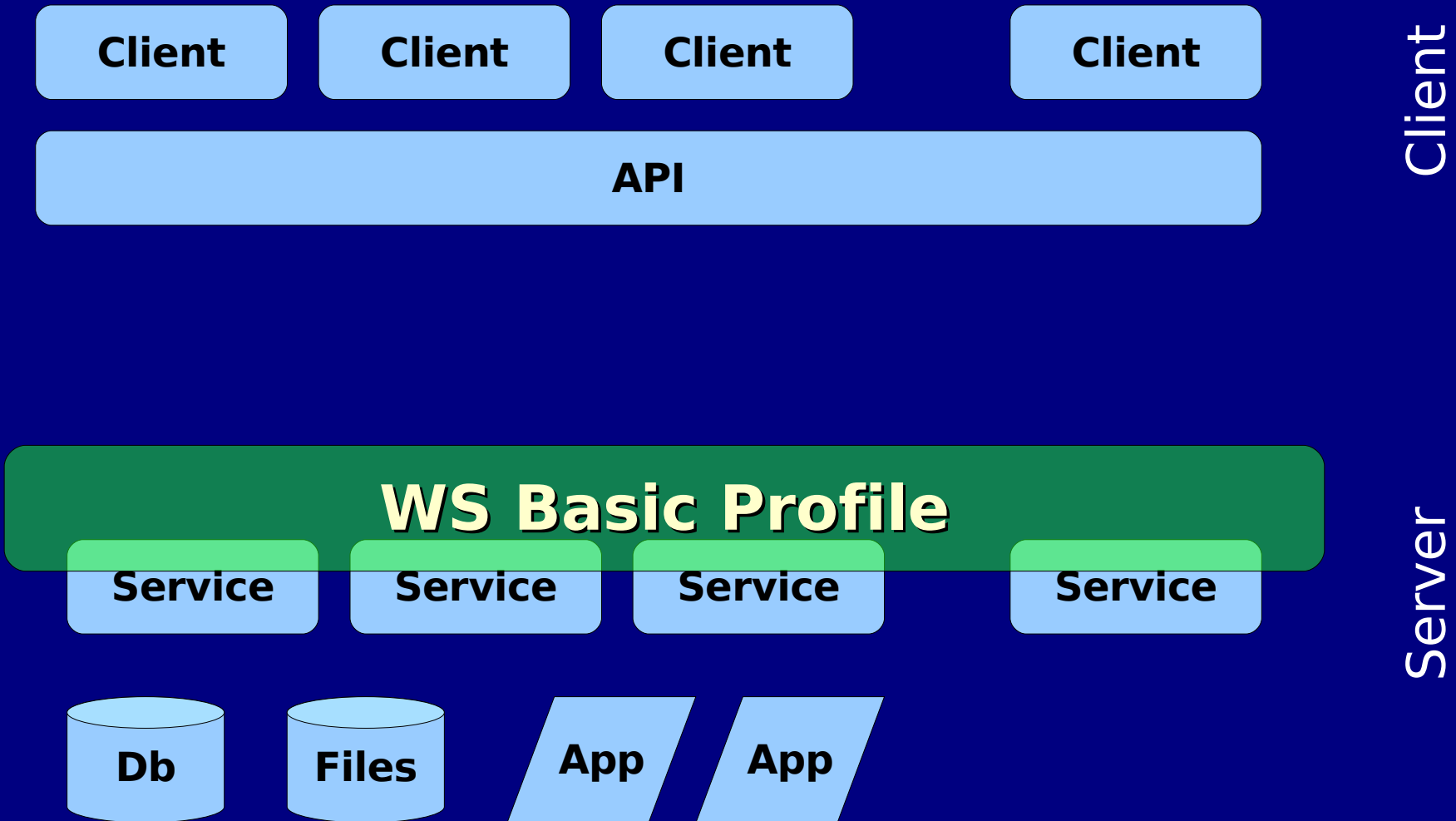
# Areas Covered

## Services and prototypes



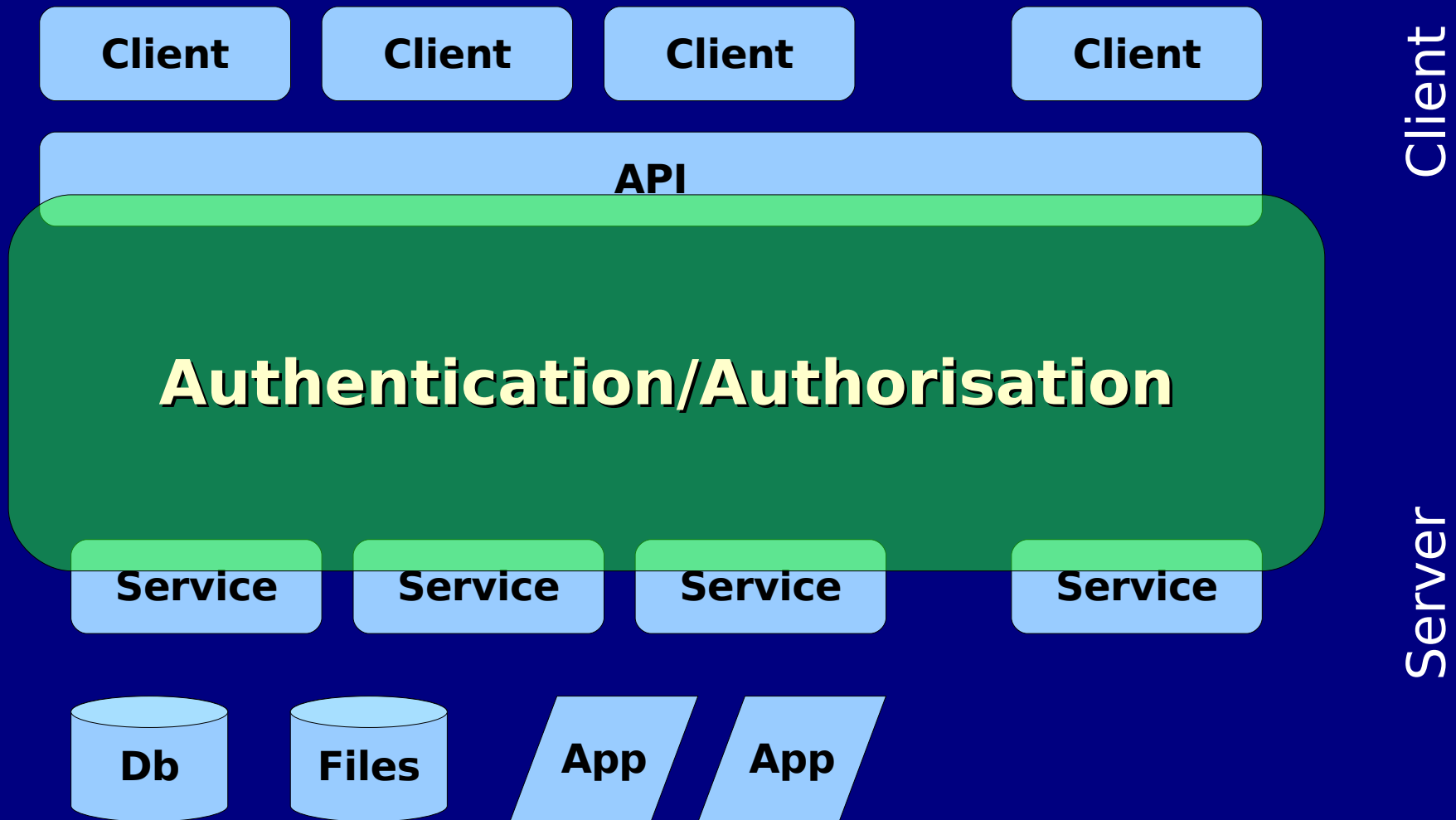
# Areas Covered

## Standards & Reports



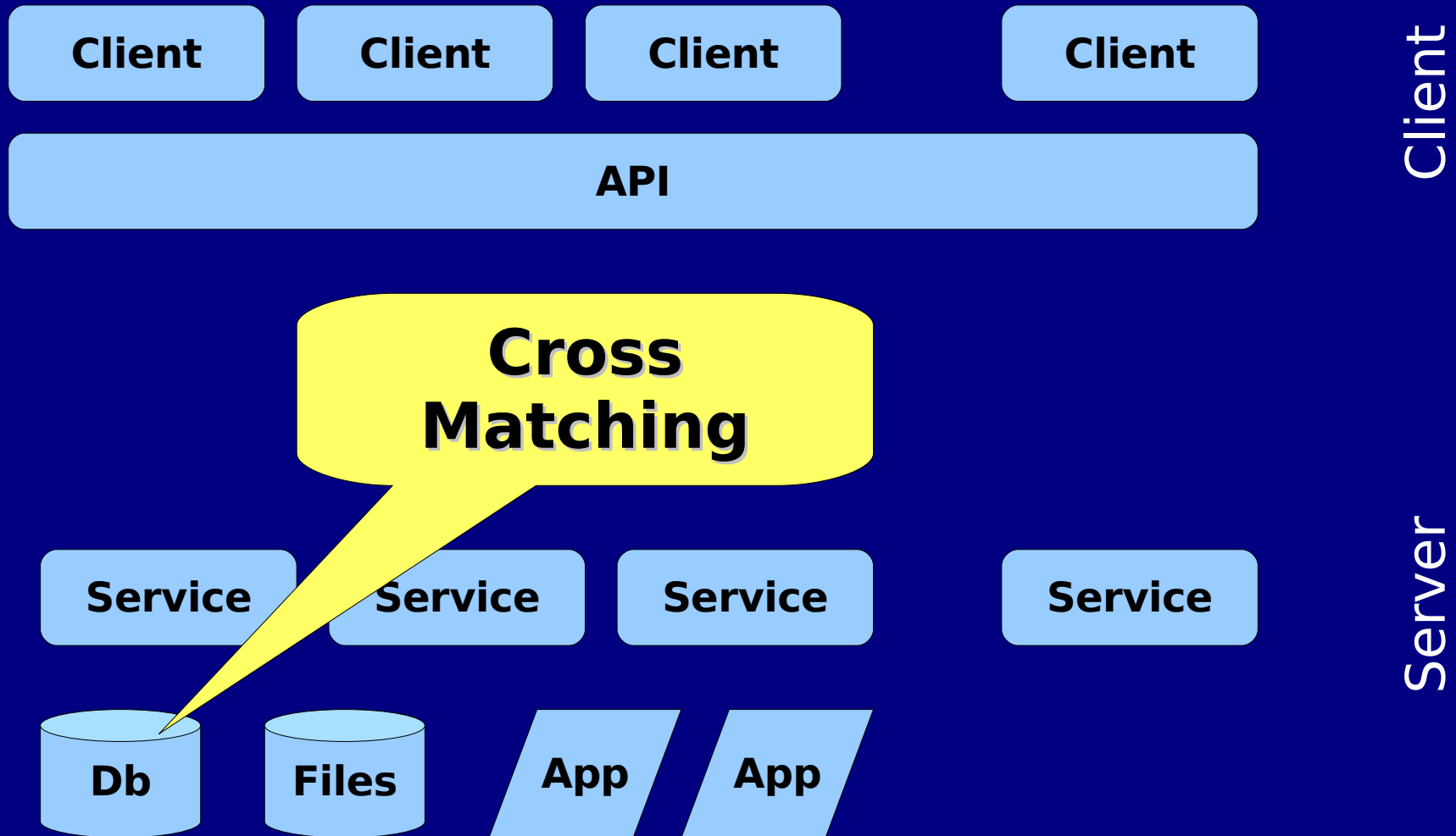
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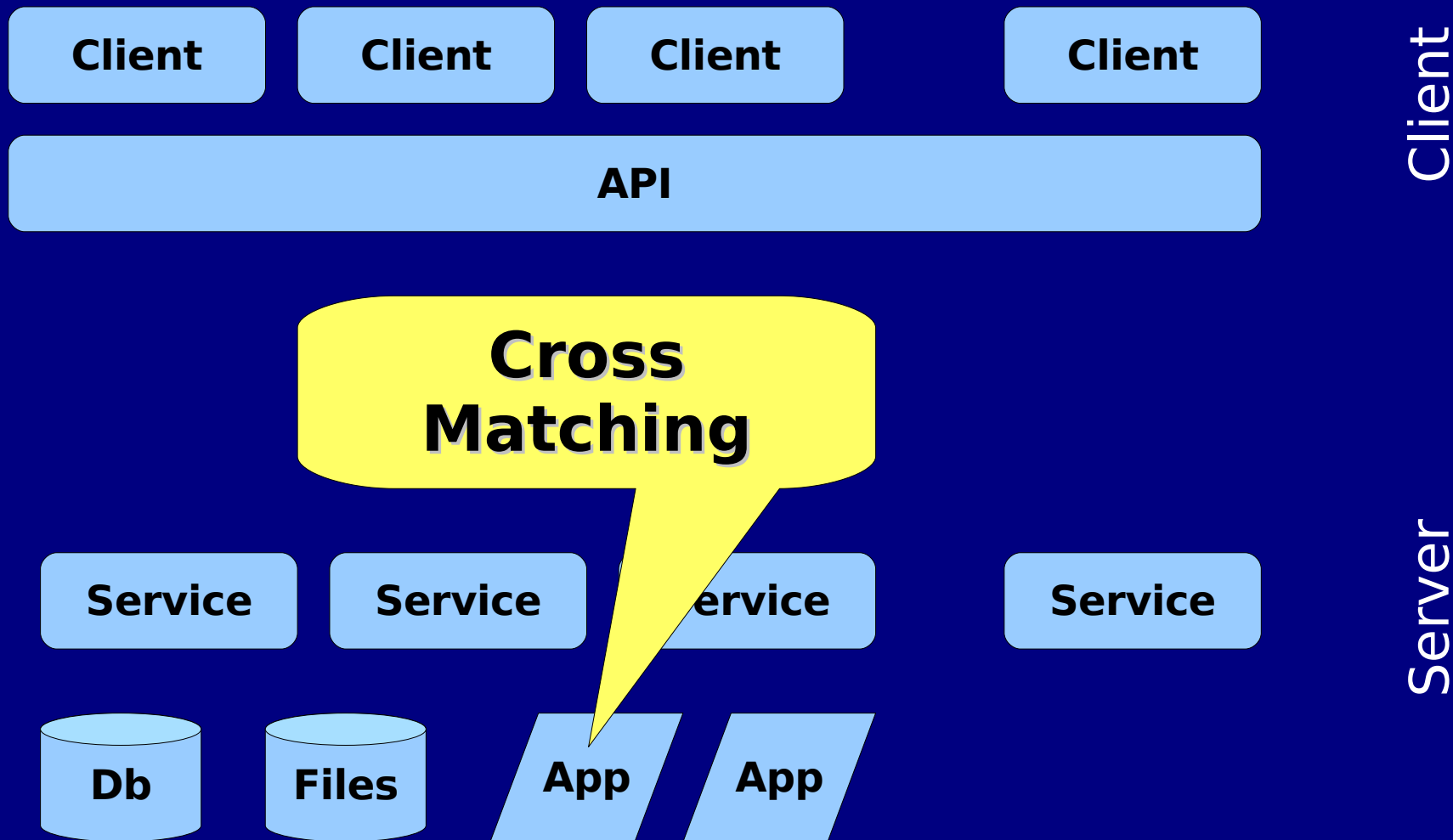
# Areas Covered

## Studies



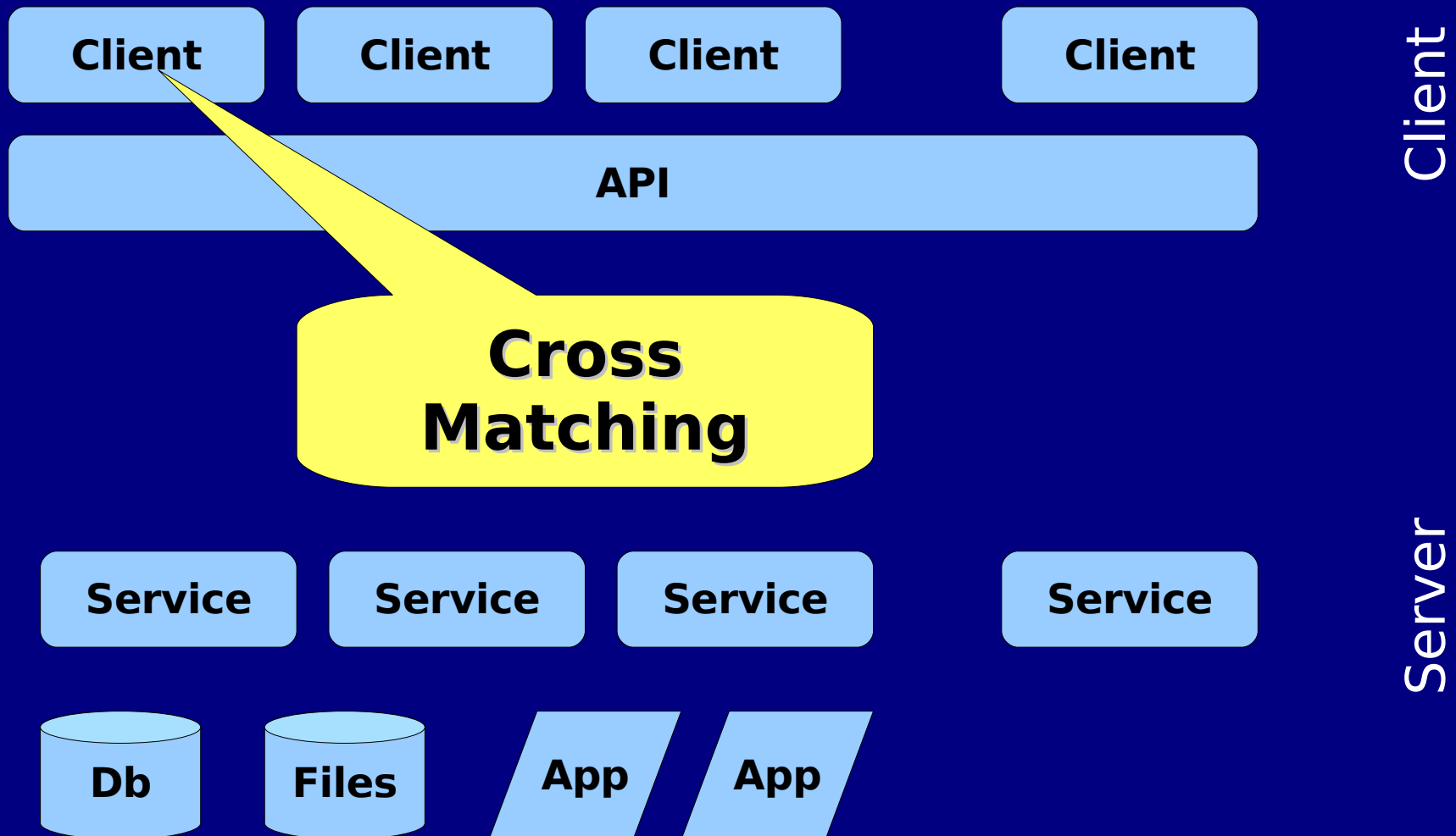
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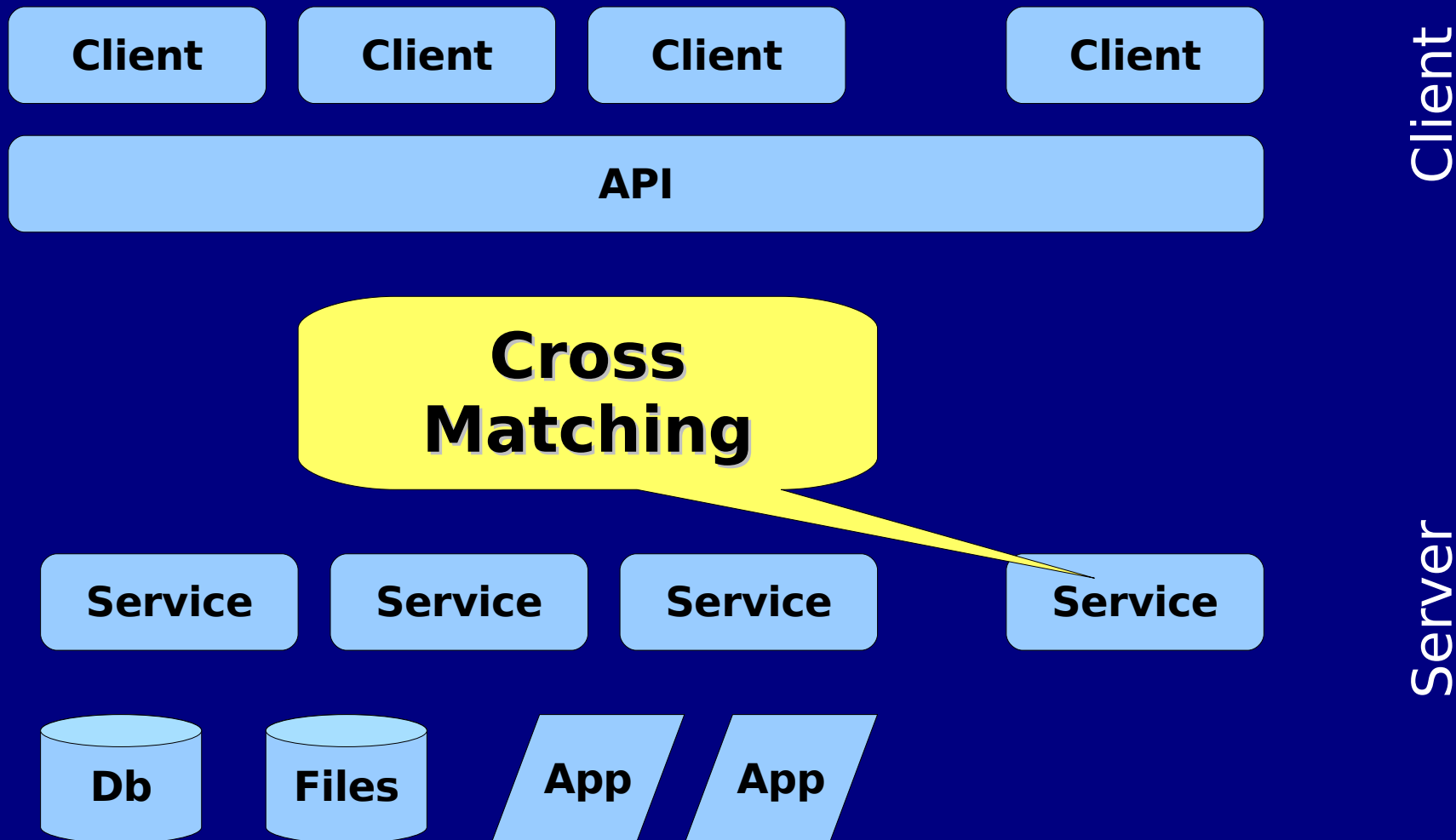
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## Studies



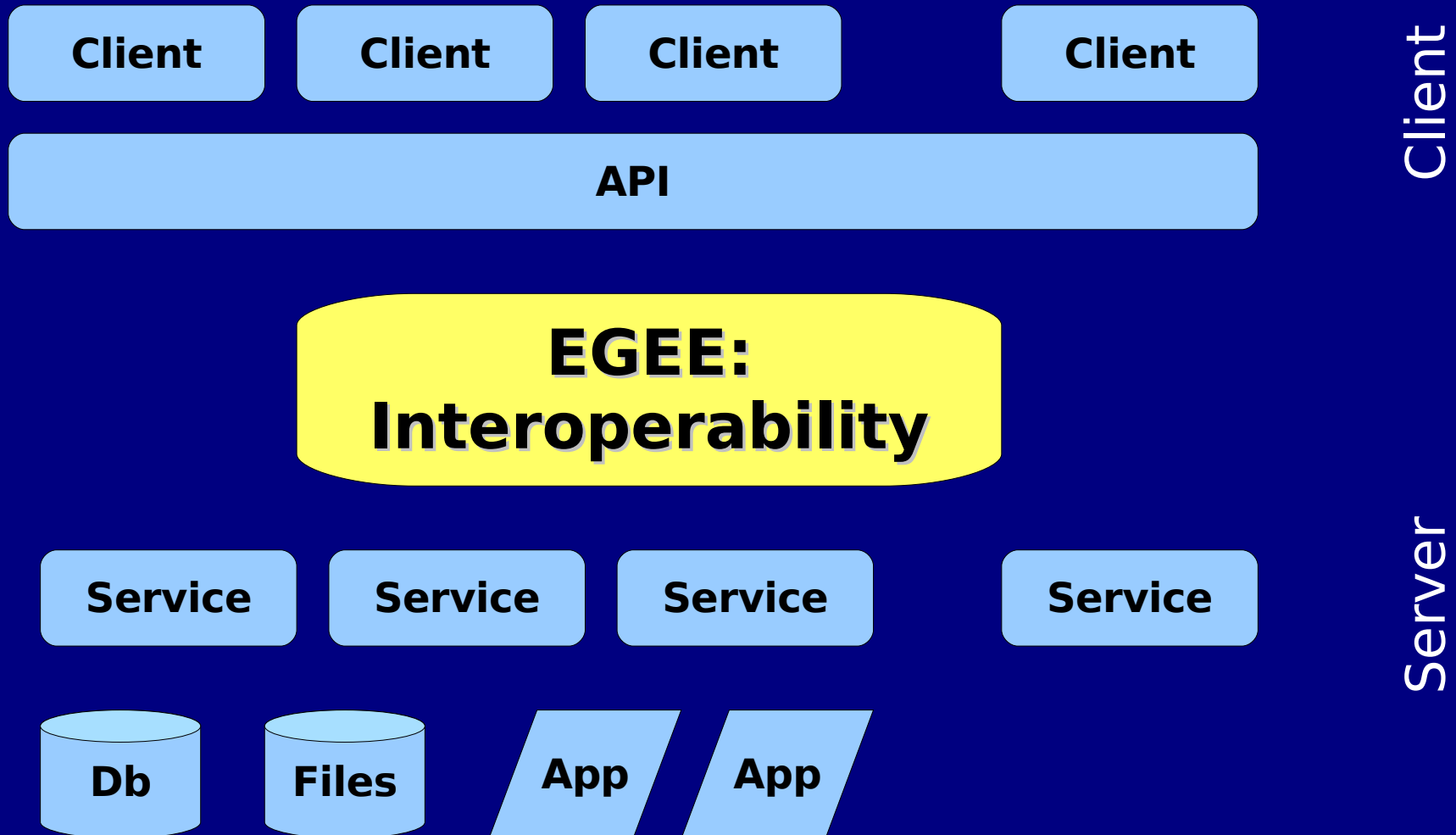
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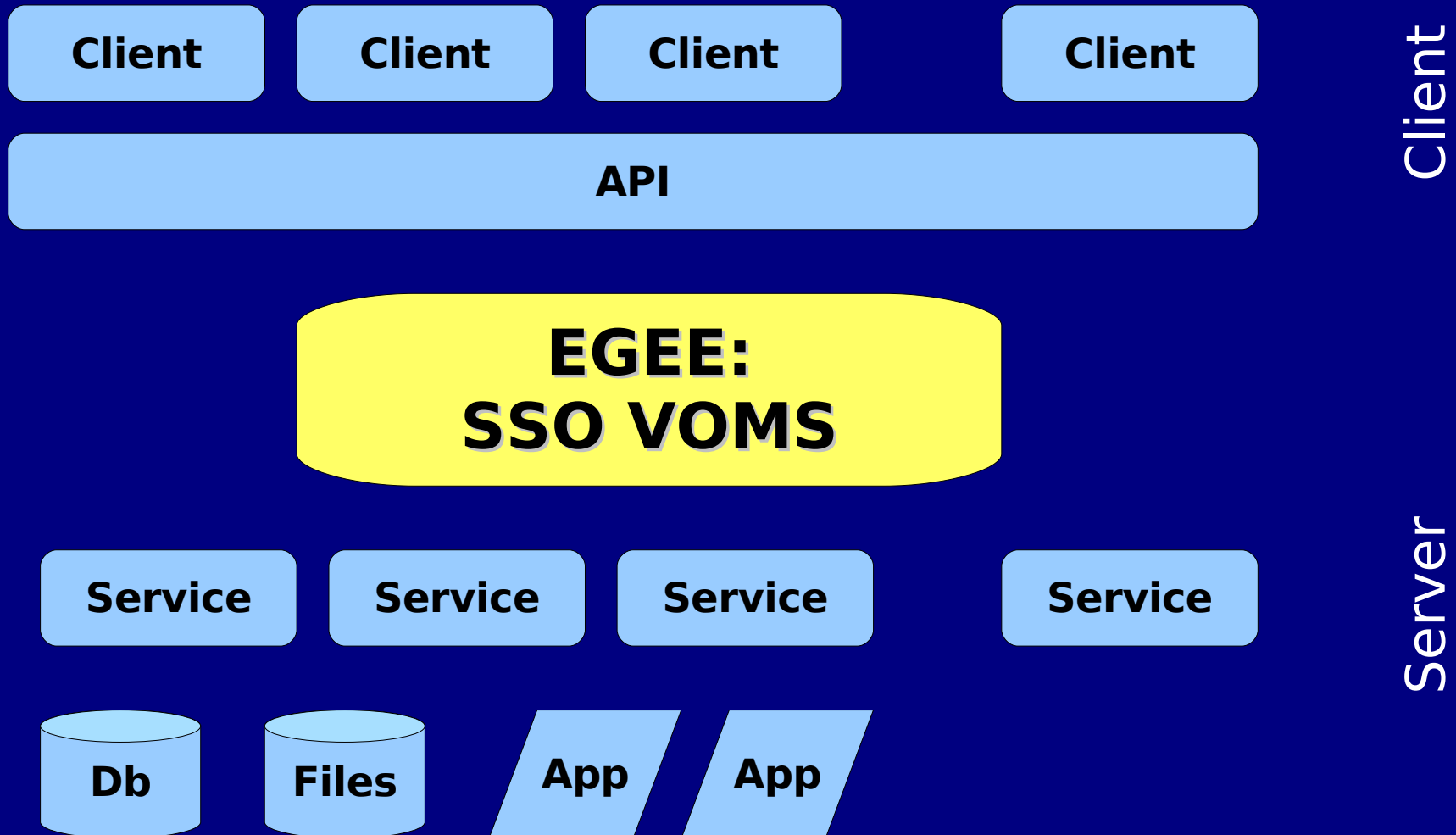
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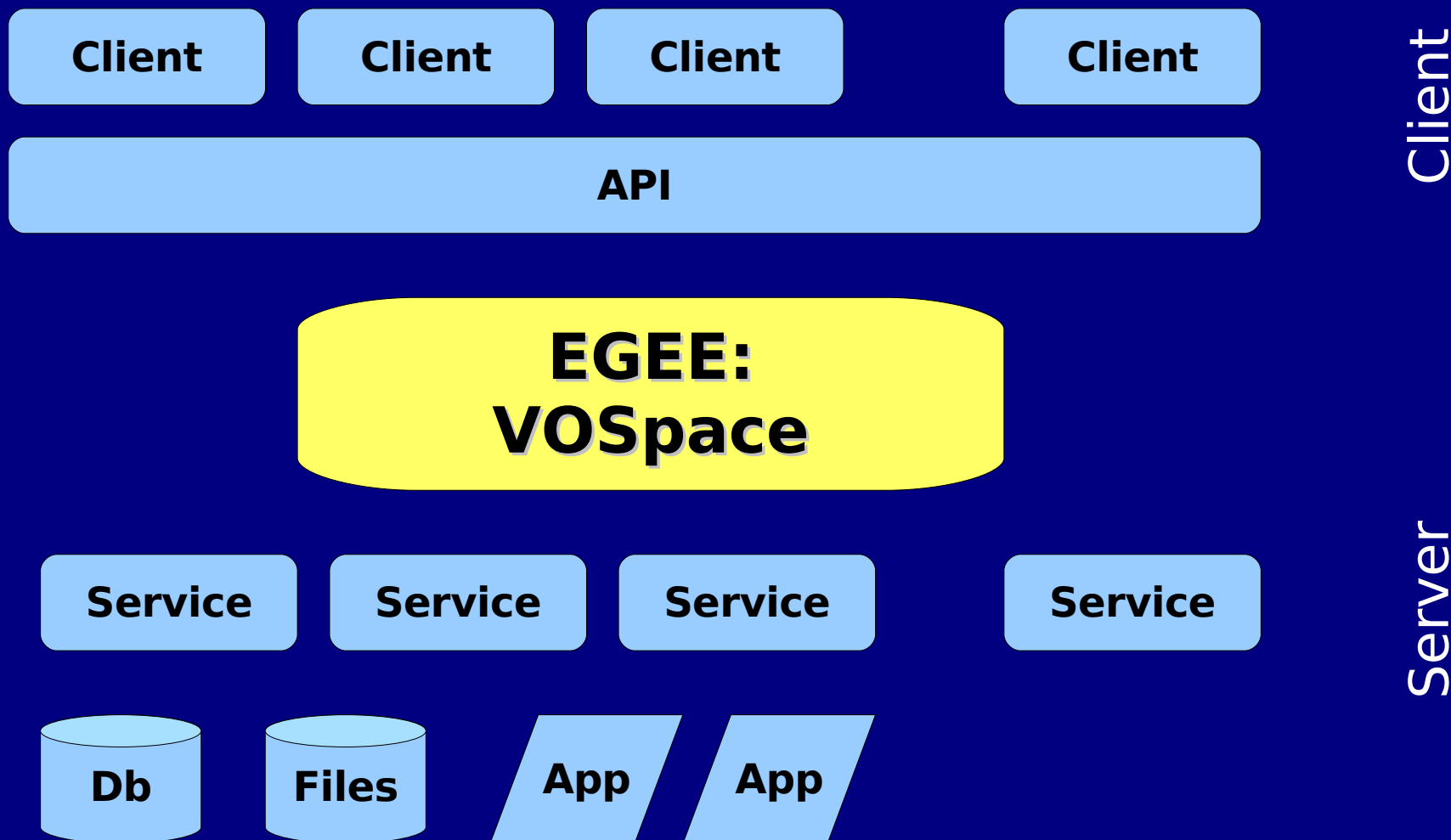
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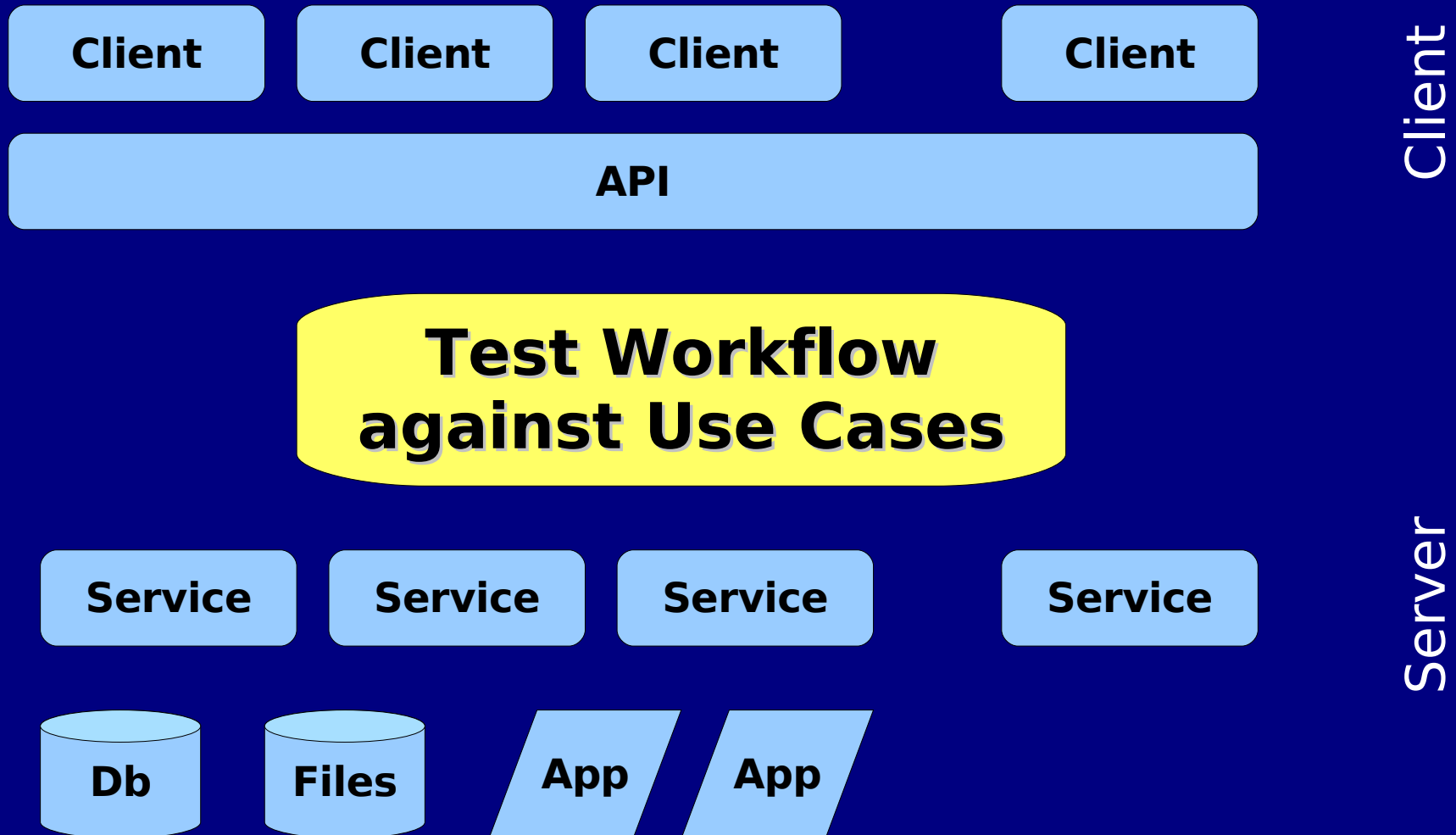
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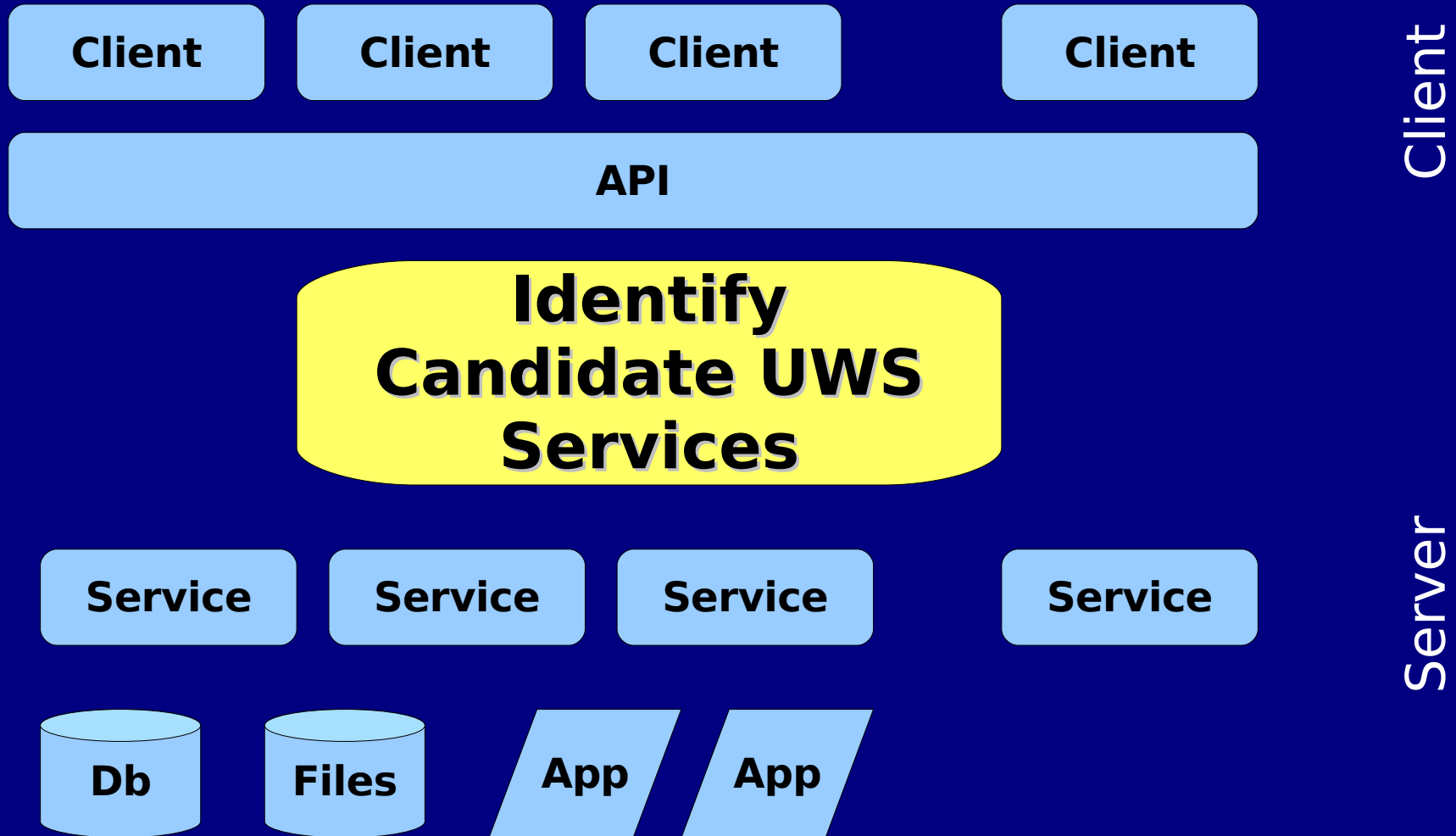
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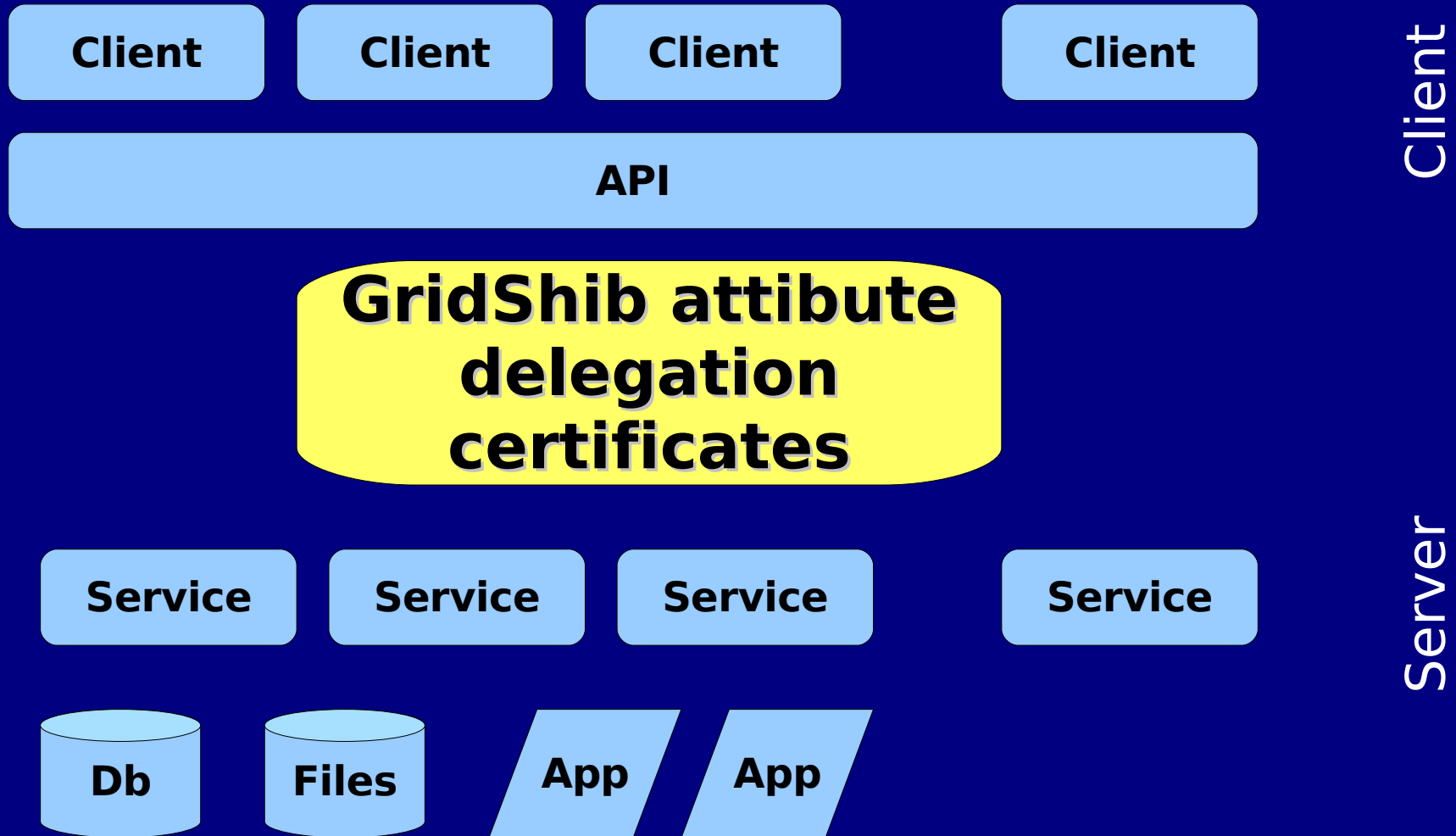
# Areas Covered

## Studies



# Areas Covered

## Studies



# Example Services

- AstroGrid (Deployed development and pre-production Grids – see [here](#) for more details)
- ESO (Evaluation of VOSpace, Registry, SIAP, SSAP etc)
- Montage CEA
- HyperAtlas CEA
- France: Grid and Workflow (Tues)
- Italy: VONeural

# Who is using these Services?

- VOTECH Partners + China, France, India, Russia, South Africa, UK, + others
- Users of VO enabled client applications who may not even be aware the application is VO enabled (TopCat, Aladin, etc)

# Future Plans

- Meet software baseline delivery schedule
- Publish Infrastructure Study
- Collaborate with VO partners (ESAC, NVO, JVO, VOIndia etc) and organisations (IVOA) to ensure VOTECH provides EuroVO with the services it requires

# Details

- All plans and reviews documented on the Wiki
  - Stage review page e.g. [Stage 4 Review](#)
  - Stage plan page e.g. [Stage 5 plan](#)
- Pages for each Stage are available, collated [here](#).

# Conclusion

- The top-level objective of the VOTECH proposal is to complete all technical preparatory work necessary for the construction of the European Virtual Observatory
- DS3 is on course to help achieve that objective.