



# Middleware Demonstration

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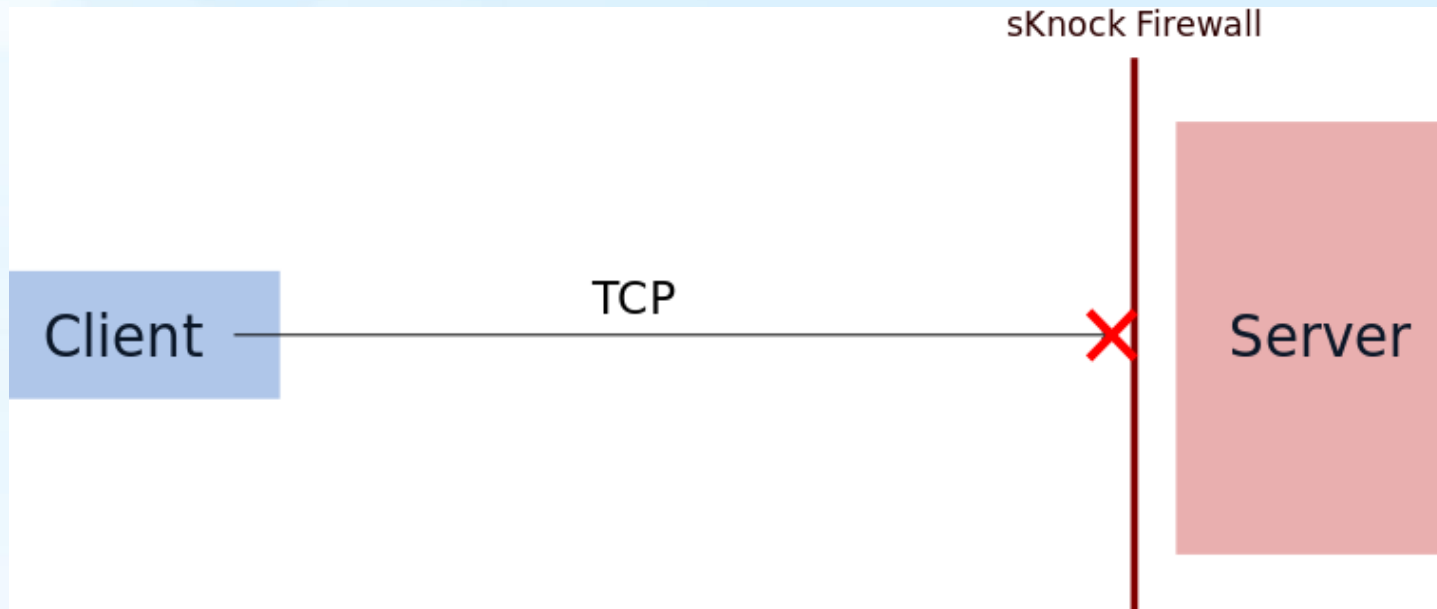
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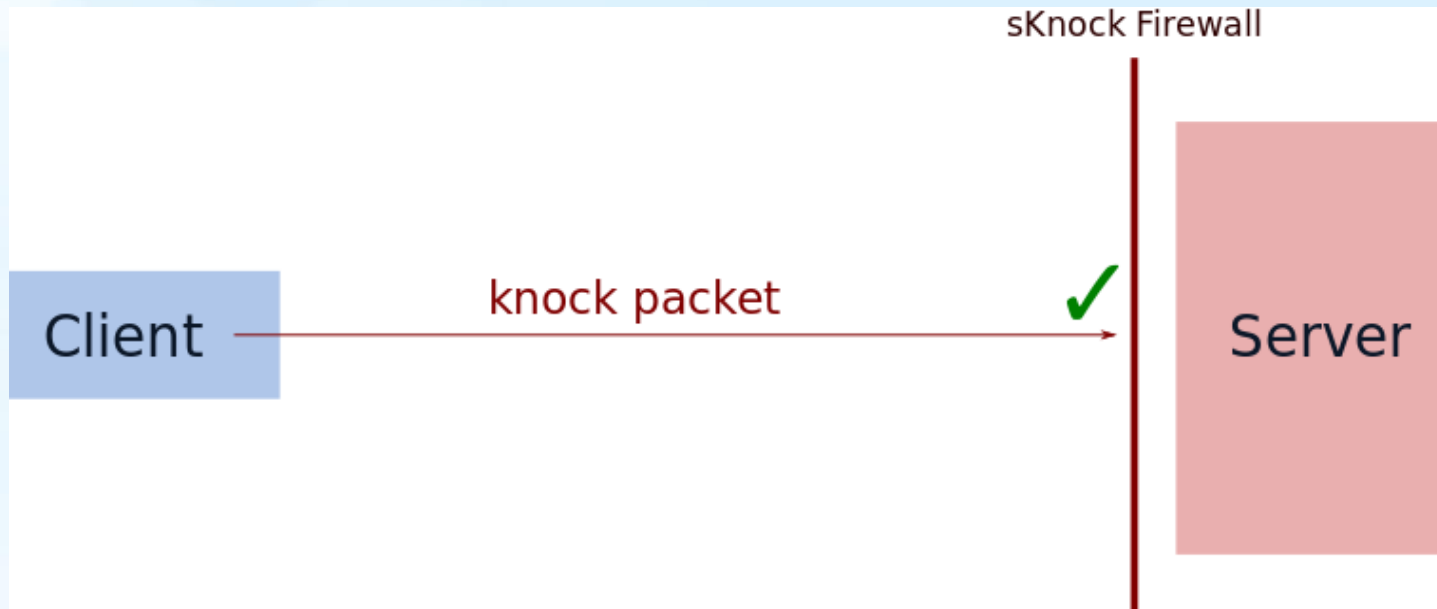
# Integrated demonstration

- Integrating WP1 solutions SC1 and SC2
  - vtTLS
  - sKnock
- Scenario:
  - We run application server in cloud, e.g. C&H cloud
  - We harden the client-server communication
    - Hide application from attacker scanning network
    - Multiple defenses to keep illegitimate requests out
    - Prevent exploits / zero-day exploits against SSL cipher suites
  - Demo Application: **Document Server**

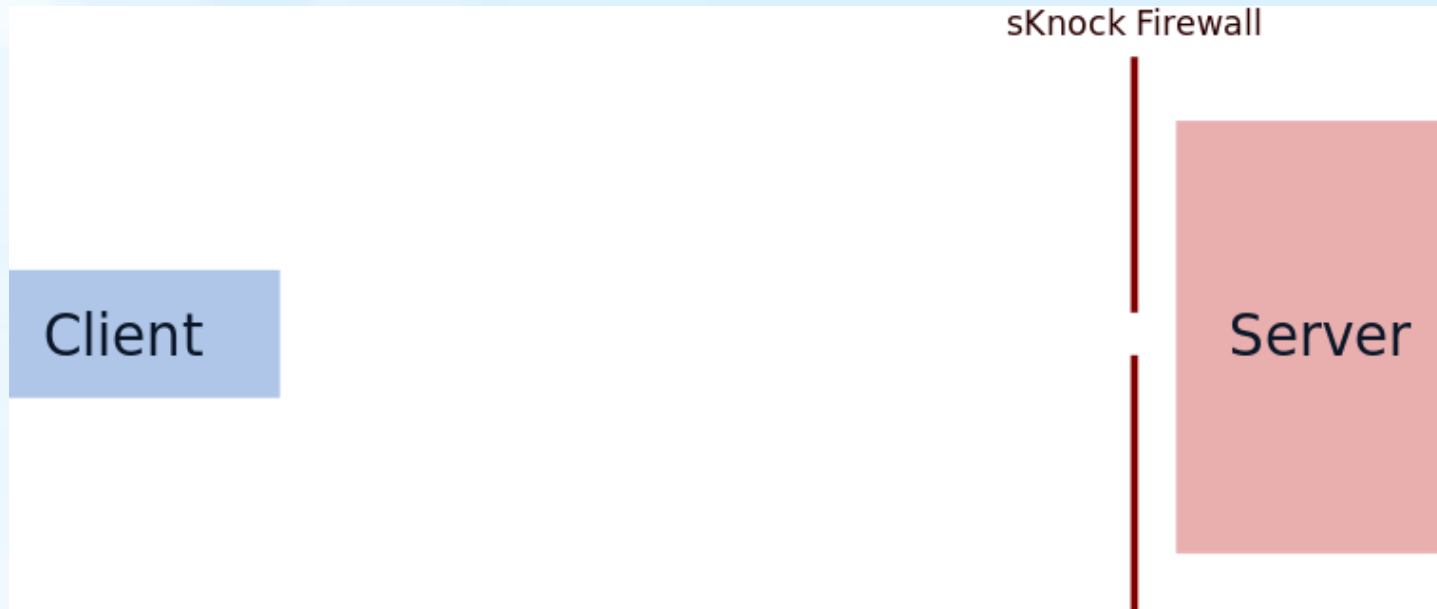
# Demonstration



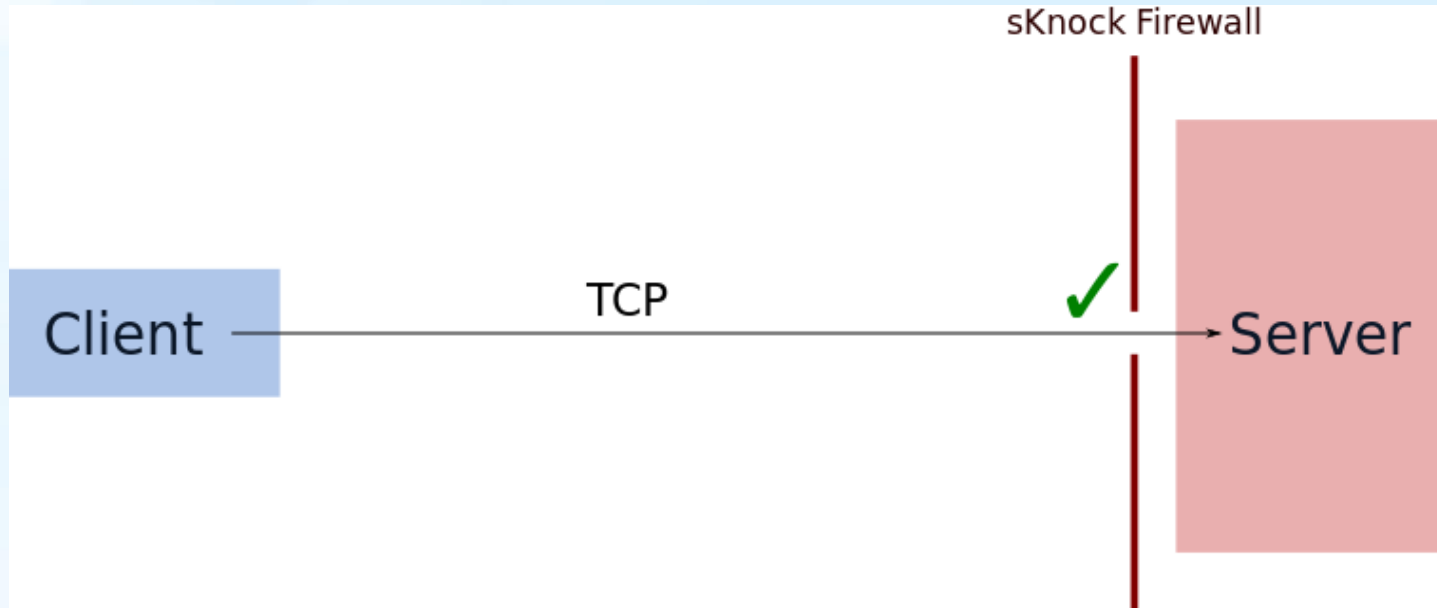
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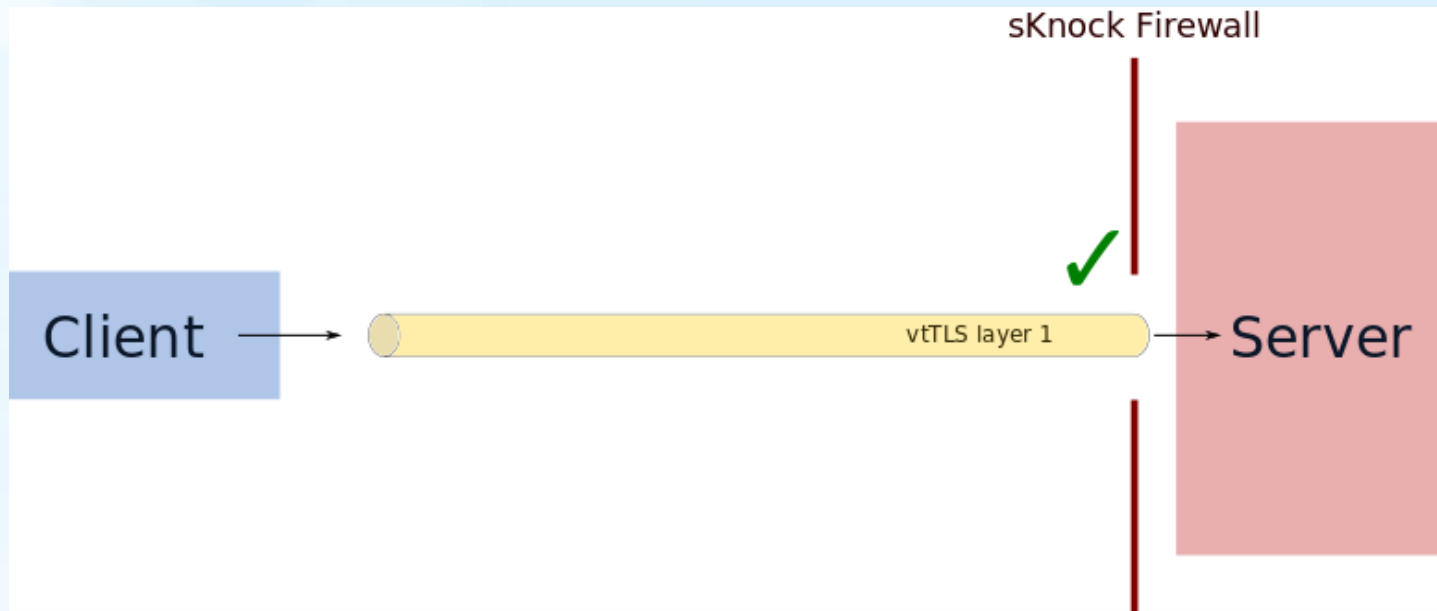
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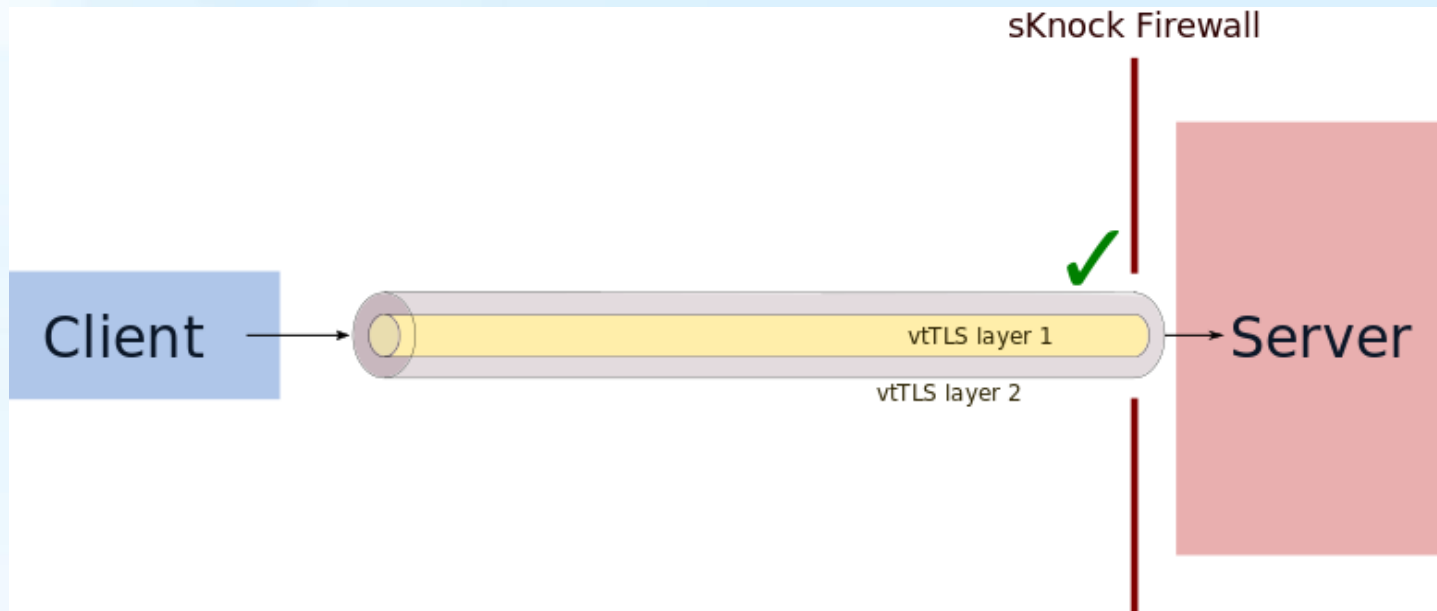
# Demonstration



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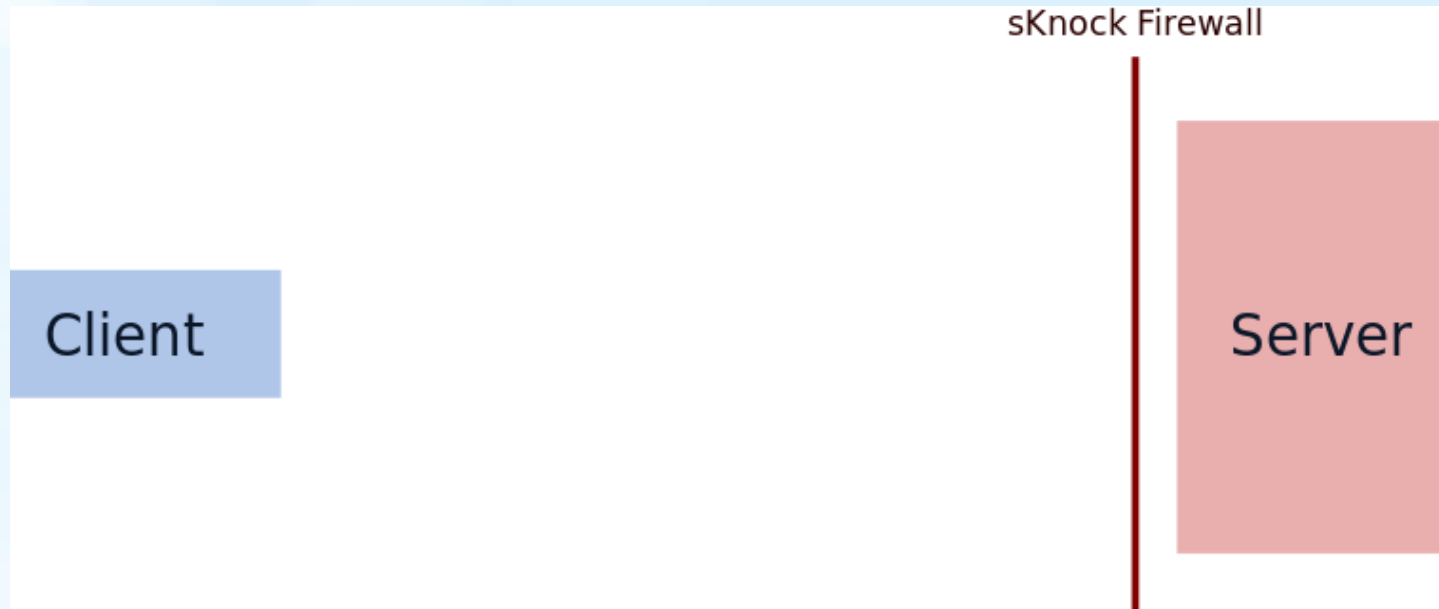


# Demonstration





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# Summary

- sKnock protects the server from scans and allows authorized clients to open and establish connections
- vtTLS adds two layers of encryption so that the communication is secure even if a vulnerability is found in one of the layers



# SafeCloud

- More about vtTLS, sKnock and SafeCloud project at:
- <https://github.com/inesc-id/vtTLS/wiki>
- <https://github.com/tumi8/sKnock>
- <http://www.safecloud-project.eu/>



Thank you!



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