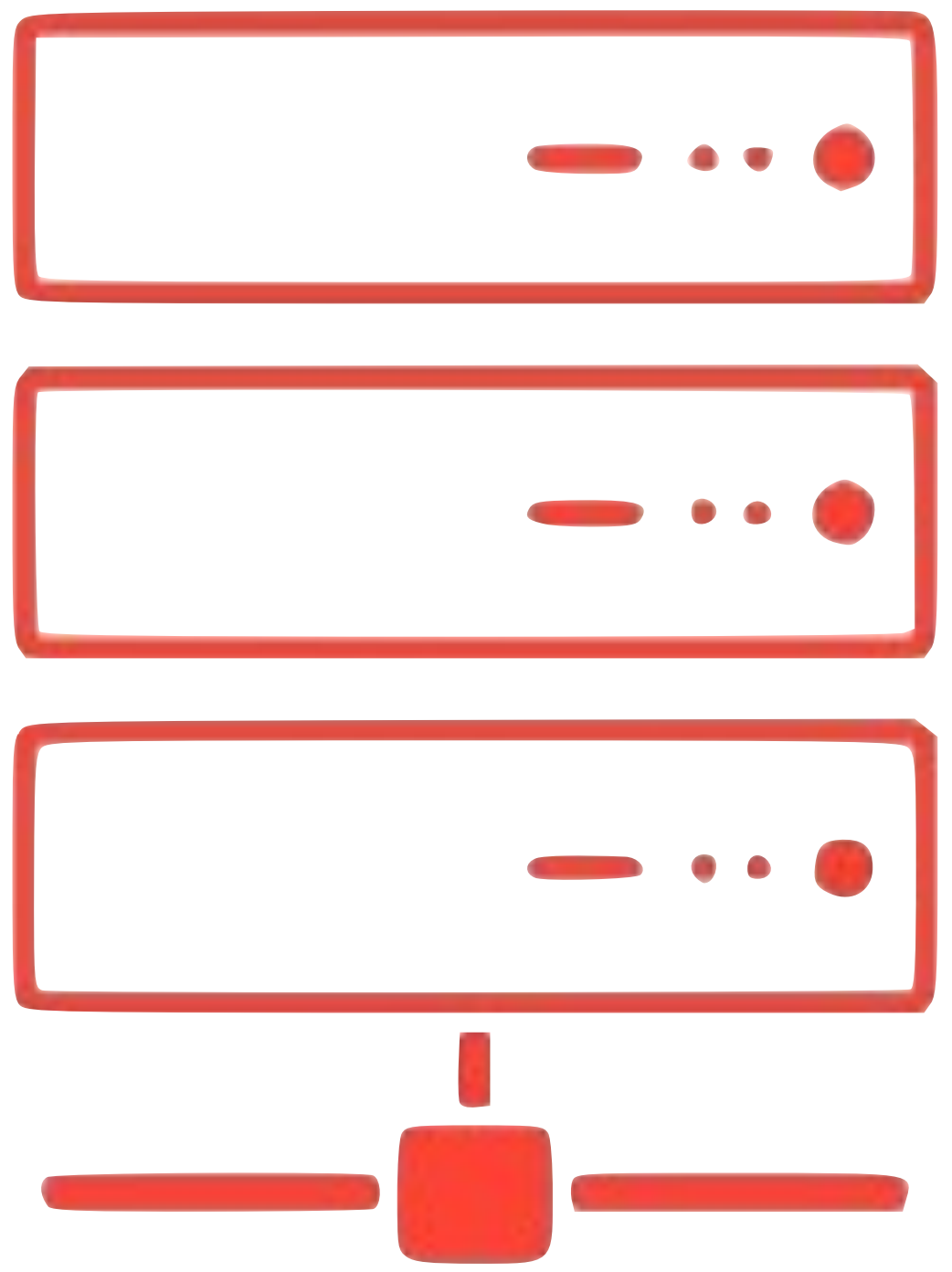
✓ HTTPS = HTTP + TLS

➡ TLS - Transport Layer Security (a.k.a SSL) provides

- **confidentiality :** end-to-end secure channel
- **integrity :** one-way authentication handshake

This how HTTPS works



example.com

HTTPS request

HTTPS response

Who are you?

I am example.com

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I am example.com

HTTPS request

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simplified and one-way authentication
TLS 1.2 (2008)