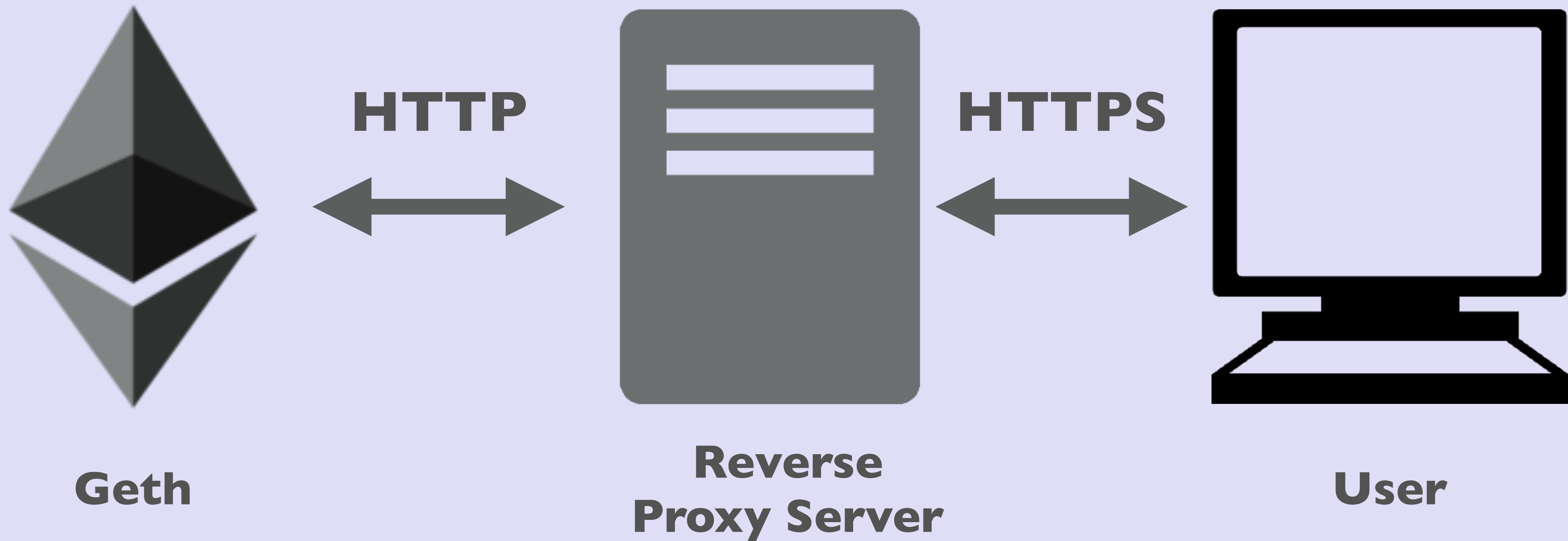


Geth supporting SSL using reverse proxy server



INTRO

- At this moment Geth does not support SSL.
- A reverse proxy server can be used to access a Geth node by SSL.
- In this video I will explain how to setup a very simple reverse proxy server.

PREREQUISITES

- To setup a reverse proxy server you need a SSL certificate.
- In this video a reverse proxy server will be setup for testing and development purpose. Therefore the SSL certificate does not need to be issued by a “real” Certificate Authority. A self signed SSL certificate will suffice.
- In this video I will be using an already created self signed SSL certificate. How I created my own self signed SSL certificate is explained in YouTube video: “Create self signed certificates with Subject Alternative Names”
<https://youtu.be/qoS4bLmstlk>
- I assume you already have installed the node package manager. See:
<https://nodejs.org>

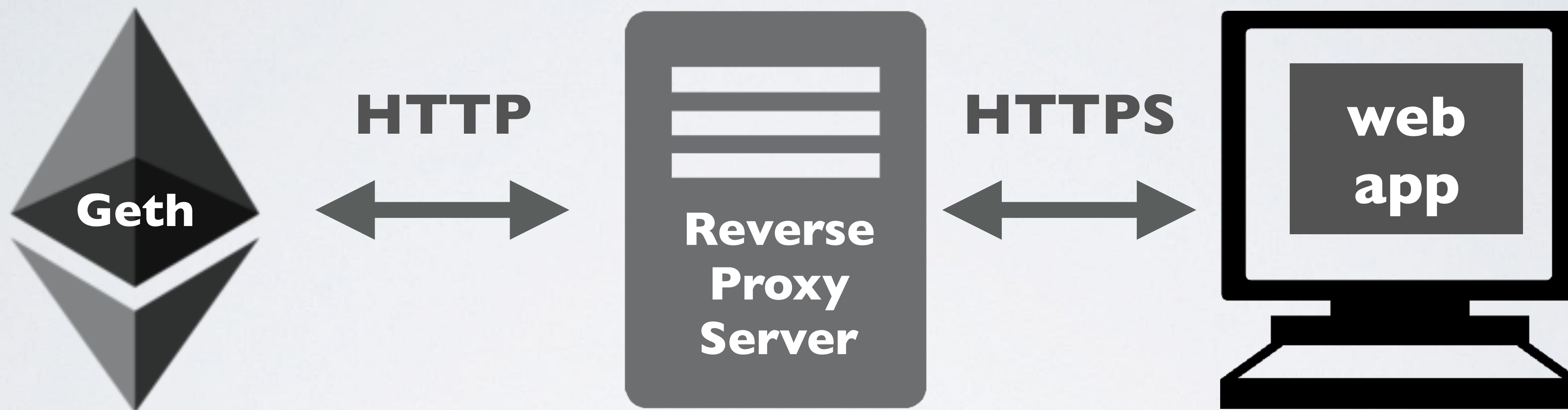
PROBLEM DESCRIPTION

- A web application can access a local running Geth node using the web3.js library.
- Code to create an injected web3 instance:

```
var web3 = new Web3(new Web3.providers.HttpProvider("http://localhost:8545"));
```
- But when the web application is secured (https) the Geth node can be accessed by <http://localhost:8545> but you will get a warning message.
- Example:
https://sand.mobilefish.com/download/ethereum/ethereum_show_all_accounts.html
- To solve the problem, the Geth node should be accessible by **https://localhost:8545**. However this is not possible, at least not in Geth v1.7 (maybe in the future?)

SOLUTION

- The solution is to setup a reverse proxy server.



SOLUTION

- Web app:

https://sand.mobilefish.com/download/ethereum/ethereum_show_all_accounts.html

Web3.providers.HttpProvider(**“https://proxy.mobilefish.com:9070”**)

- Reverse proxy server:

Listen: **https://proxy.mobilefish.com:9070**

Target: **http://localhost:8545**

- Geth node:

http://localhost:8545

SETUP REVERSE PROXY SERVER

- The procedure described is also documented at:
https://www.mobilefish.com/developer/blockchain/blockchain_quickguide_geth_support_ssl.html