IPFS-Node

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1 Introduction

I have looked for a bit, and not found a FLOSS implemmentation of an extensible, lightweight, remote HTTP proxy for IPFS instances. Well, here it is (in experimental stages). IPFS-Node lets you manage your remote IPFS instances by sending authenticated requests to this server, which forwards them to the IPFS HTTP API, IPFS Remote requires just a single RSA/ECDSA key in the x509 format, and uses that to verify incoming JSON Web Tokens passed along with the requests, which it transparently forwards to the IPFS instance configured.

2 Installation

IPFS-Node is not currently in the repositories of any mainstream linux distributions, nor does it provide an installation binary for windows/macos. Currently the only way to install IPFS-Node is to compile and run/schedule it yourself, placing relevant configuration files in the local directory. This is going to be remedied soon.

3 Configuration

IPFS-Node requires a configuration file located at config.json in the directory where it is run. A sample configuration file is located in the github repository and should be self explanatory.

4 Security

The IPFS-Node proxy runs only on HTTPS and thus requires a TLS keypair to startup. IPFS-Node also requires one or more public keys for use in verifying the signature of IPFS tokens. IPFS-Node supports all of the keys that the golang standard library can parse from the X509 standard, namely ECDSA, RSA, and DSA.