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IPFS for Beginners – Host Your Static Website

In this tutorial, you'll learn how to host your static website on IPFS. You can read "IPFS for Beginners – Storing Data in a Distributed Hash Table". You may also skip the previous tutorial if you don't have coding experience.

Review from "IPFS for Beginners – Storing Data in a Distributed Hash Table"

In the previous tutorial, you already learn how to download your website and put it on the IPFS network. Also, you have learned how to visit your website. However, you may face 3 problems if you follow the steps.

1. *If you close your local node, no one have responsible to keep your files. You may find your file disappear after 1 day.*
2. *Your IPFS link may change if you update your website since the hash value changed. You can solve the problem by generating an IPNS link. However, you may like to use your own domain name for SEO or marketing.*

You will learn how to solve these 2 problems in this tutorial.

Pin your website to other nodes

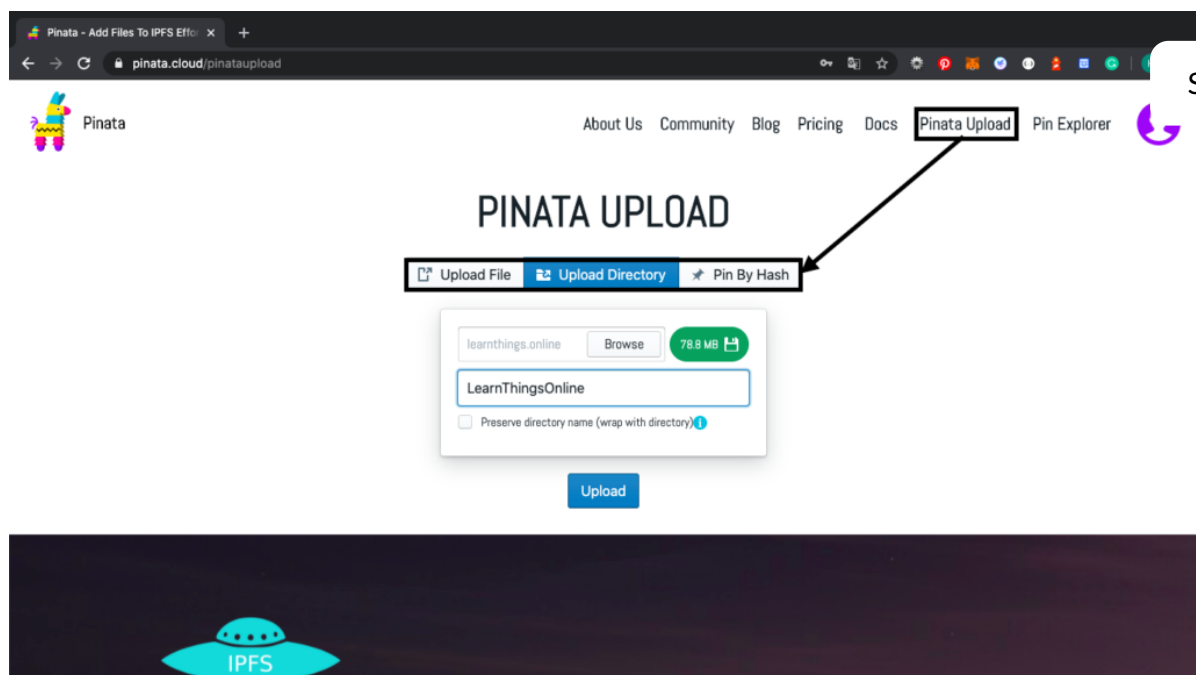
In the pervious tutorial, you can pin your IPFS on your client by the command.

ipfs pin add <your_ipfs_hash>

However, if there are no other nodes download your website, the IPFS network will clear the website when your IPFS daemon shutdown. To keep your website on IPFS, you can open a server to keep the daemon or pin your website to more nodes using an IPFS cluster.

Also, there are also IPFS pinning services like Pinata, Eternum, and Temporal ... etc. We will use Pinata here.

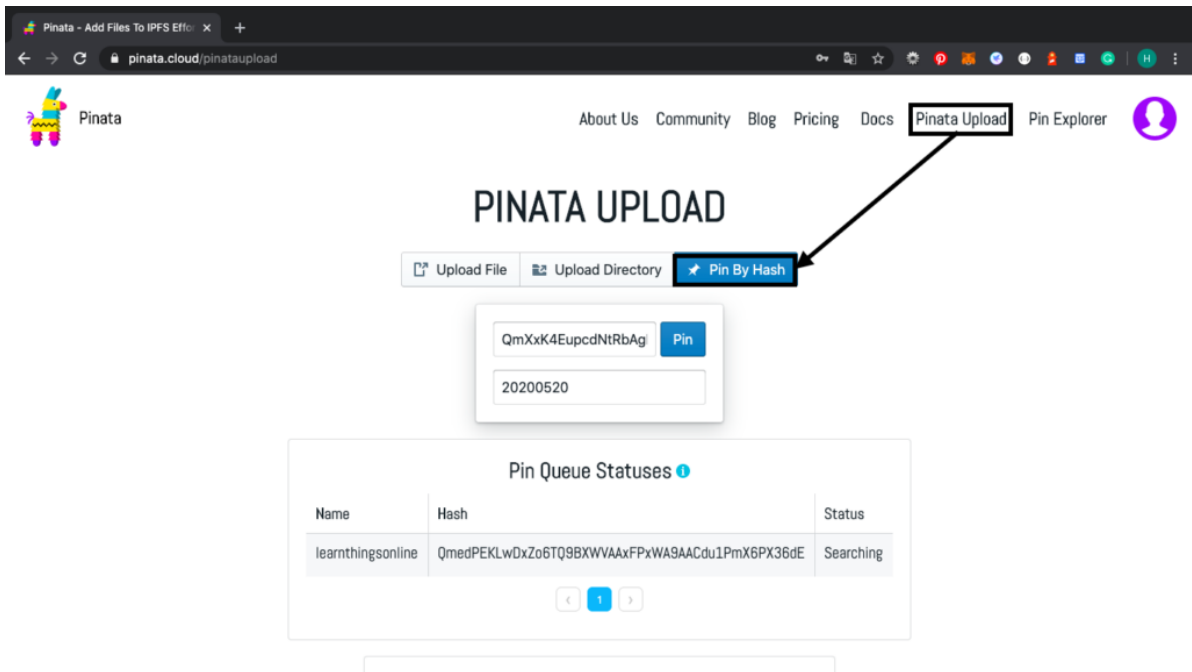
You can directly upload your files or directory on the Pinta dashboard.



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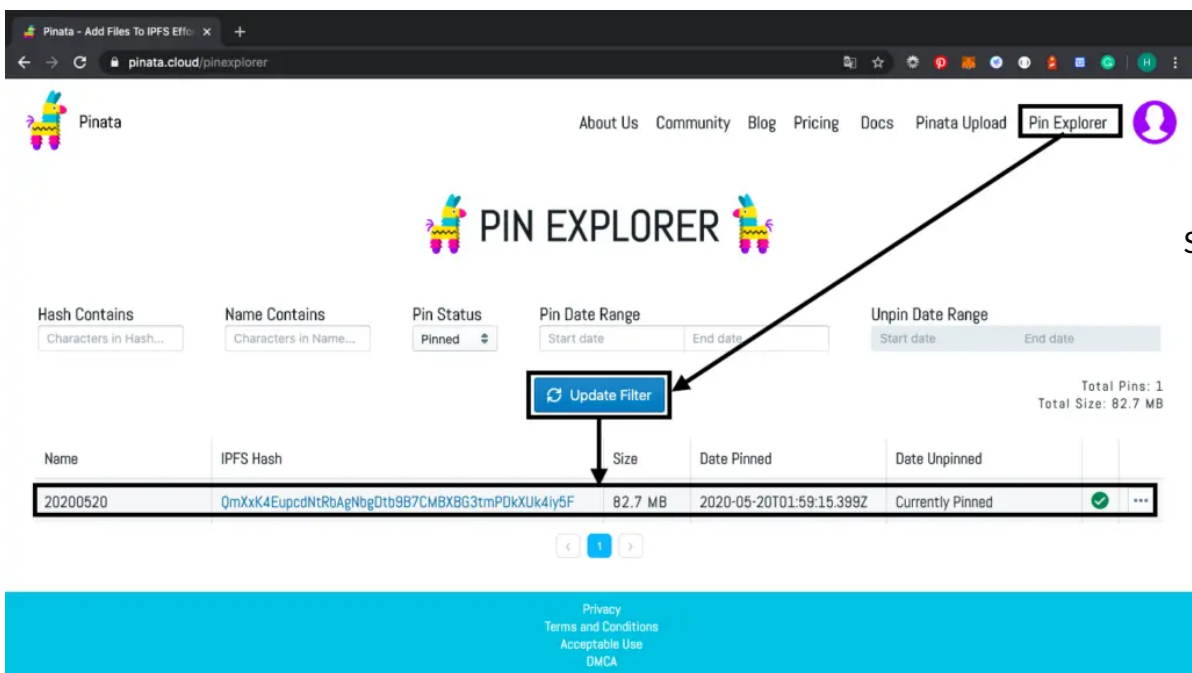
Pinata

Also, you can directly pin by your IPFS hash.



Pin By Hash on Pinata

You can find the file you pinned on the pin explorer.



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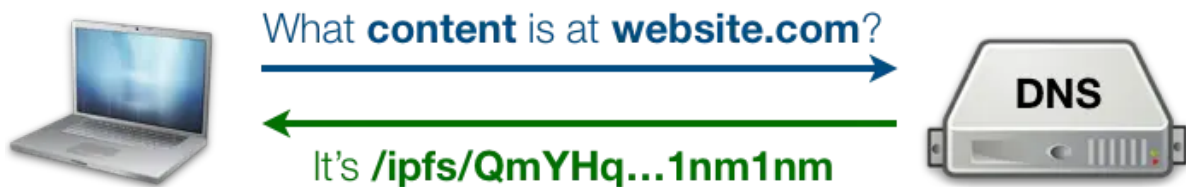
Now, you can keep your file on IPFS network.

<https://gateway.pinata.cloud/ipfs/QmXxK4EupcdNtRbAgNbgDtb9B7CMBXBG3tmPDkXUk4iy5F>

In addition, team behind IPFS, the Protocol Labs has develop a blockchain project called Filecoin as an incentive layer for IPFS. The Filecoin plan to launch their main-net on July 2020. Once it launched, you may also pin your files by paying its native cryptocurrency Filecoin.

Use your own domain name

DNSLink provides a simple protocol to link content and services directly from DNS.



Picture from DNSLink.io

According to DNSLink.io You can store a link using any DNS domain name by putting the link in a TXT record at a specific subdomain. Then, you can resolve the link from any program by looking up the TXT record value.

You need to register your domain name A and AAAA records point to an IPFS gateway. Then, register a TXT record with DNSLink record value.

Using ipfs.io gateway as an example.

A records to "209.94.90.1"

AAAA records to "2602:fea2:2::1"

TXT records with "dnslink=/ipfs/<your_ipfs_hash>"

Register records for your domain

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Type	Name	Content	TTL	Proxy status	
TXT	ipfs	dnslink=/ipfs/QmXxK4EupcdNtR...	1 hr	DNS only	Edit
AAAA	ipfs	2602:fea2:2::1	Auto	DNS only	Edit
A	ipfs	209.94.90.1	Auto	DNS only	Edit

We use sub-domain ipfs.learnthings.online here. You can check our website by <http://ipfs.learnthings.online> link. The URL will direct to the file on <https://ipfs.io/ipfs/QmXxK4EupcdNtRbAgNbGdtb9B7CMBXBG3tmPDkXUk4iy5F>

You can update <your_ipfs_hash> if you update your website.

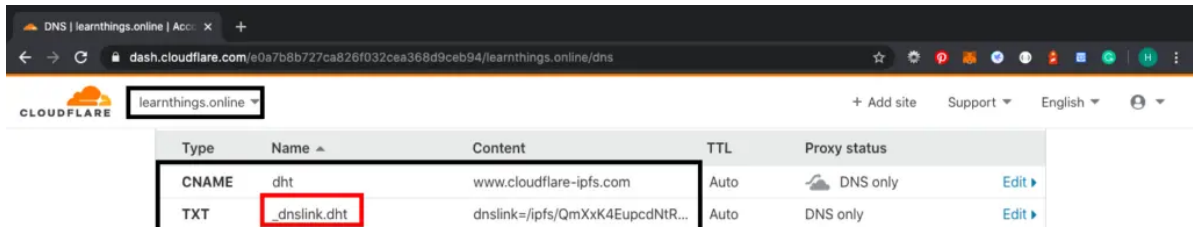
If you want to get SSL certification for your website, the CloudFlare incorporates with IPFS provide a gateway service. You can register a CNAME records point to cloudflare-ipfs and TXT records with DNSLink record value.

CNAME records to “cloudflare-ipfs.com”

TXT record for “_dnslink.<your domain name>” and value “dnslink=/ipfs/<your_ipfs_hash>”

Register your website on [Cloudflare](#) if you don't use Cloudflare DNS service.

cloudflare-ipfs service



Type	Name	Content	TTL	Proxy status
CNAME	dht	www.cloudflare-ipfs.com	Auto	DNS only
TXT	_dnslink.dht	dnslink=/ipfs/QmXxK4EupcdNtr...	Auto	DNS only

Be careful, the TXT register on subdomain name “_dnslink.<your_domain_name>” rather than “your_domain_name” directly.

In this case, we use dht.learnthings.online. You can visit the website with <https://dht.learnthings.online>.

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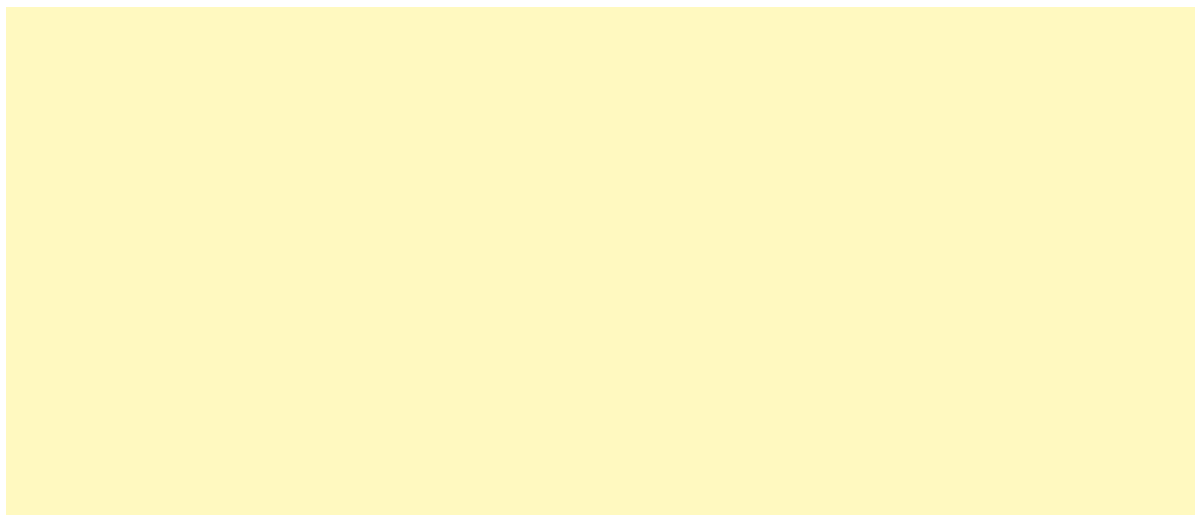
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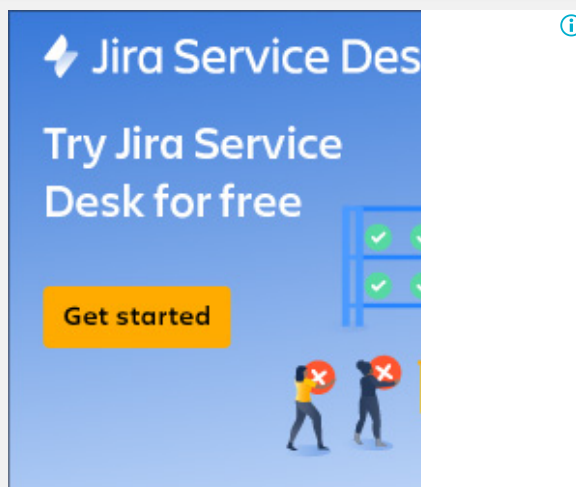
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65 members, 5 online

This group build to share some materials to learn blockchain online & news. Check LearnThings.Online

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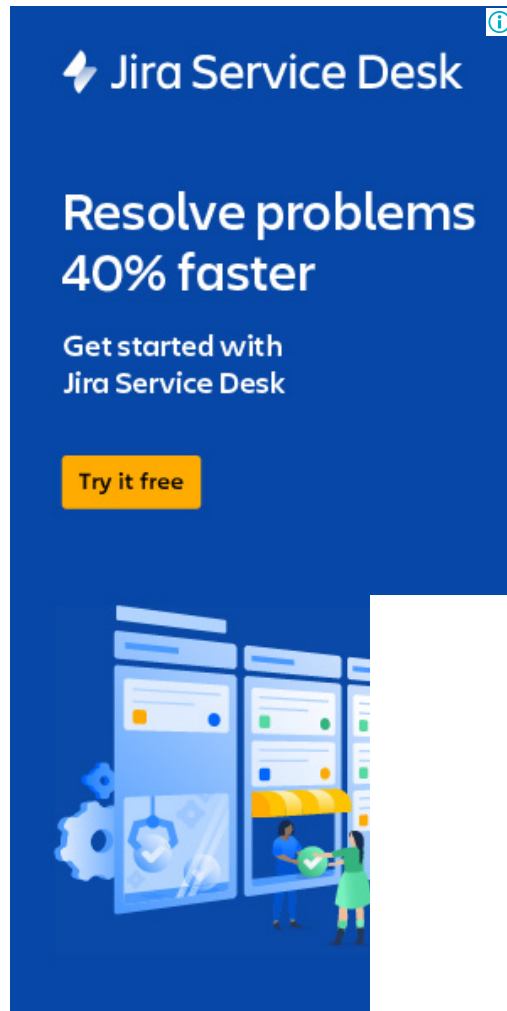


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IPFS for Beginners – Interact With IPFS By Javascript

In this article, we'll learn how to interact with IPFS by JavaScript programming language. It's one way to make your own application to interact with IPFS. The post IPFS for Beginners – Interact With IPFS By Javascript appeared first on LearnThings.Online.

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Facebook Rename Its Libra Wallet Project Calibra to Novi

2020 May 26, Facebook rename its Libra wallet project Calibra to Novi. It makes its name more separate from Libra. Novi plans to launch its App in 2020. The post Facebook Rename Its Libra Wallet Project Calibra to Novi appeared first on LearnThings.Online.

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