

Installing and Using IPFS Cluster

Initial Impression:

Ok, I know that ipfs cluster deals with replication and scaling. That being said my knowledge of IPFS Cluster is not being validated from the website. I'm not sure what I understand and where my knowledge gaps are. OK, diving in and installing!

Download:

In order to build and install IPFS Cluster follow the steps:

```
git clone https://github.com/ipfs/ipfs-cluster.git
export GOLLVMODULE=on # optional, if checking out the repository in $GOPATH.
go install ./cmd/ipfs-cluster-service
go install ./cmd/ipfs-cluster-ctl
```

Ok- given three links on the top of the page. IPFS distributions page, ipfs service cluster, and ipfs cluster ctl. I know that I have to use IPFS daemon in background in order to use cluster, but not clear on what is [ipfs-cluster-service](#) and [ipfs-cluster-ctl](#). Whatevs- let me download them.

Downloaded service and ctl, but still do not know what those two commands do

Followed the instructions and it doesn't seem like I have ipfs-cluster-ctl on my machine.

Binary distribution

IPFS Cluster provides pre-built binaries for several platforms on the [IPFS Distributions page](#):

- [ipfs-cluster-service](#)
- [ipfs-cluster-ctl](#)

Going to try the binary distribution route.

Things that are missing or confusing:

- Installing from source is missing the cd/ command for different directories

In order to build and install IPFS Cluster follow the steps:

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git clone https://github.com/ipfs/ipfs-cluster.git
export GOMODCACHE=on # optional, if checking out the repository in $GOPATH.
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```

These commands ran without errors or traceback messages but `ipfs-cluster-service` was not installed

Downloaded ipfs-cluster-ctl and ipfs-cluster-service. When I ran `ipfs-cluster-service -c` I got `zsh: command not found: ipfs-cluster-service`

- Installing Prebuilt Binaries

Binary distribution

IPFS Cluster provides pre-built binaries for several platforms on the [IPFS Distributions page](#):

- [ipfs-cluster-service](#)
- [ipfs-cluster-ctl](#)

You can download these binaries, make them executable and run them directly. They include all the necessary dependencies.

The prebuilt-binaries are only updated on new releases (with occasional release candidates). These releases aim to provide a stable distribution of IPFS Cluster.

Perhaps we should have a link explaining go packaging and \$PATH

<https://github.com/alco/gostart#faq8>

We should include instructions on how to make binaries executable *“You can download these binaries, make them executable and run them directly”*

Downloaded, unpacked, `chmod +x` ipfs-cluster-ctl binaries and got this error message

<https://gist.github.com/pkafei/d63b9c11102a3a3c6f6207e53d08a9fb>

Downloaded, unpacked, `chmod +x` ipfs-cluster-service binaries and got this error message

<https://gist.github.com/pkafei/836f384b754e1e87f2a97f85a8d6d6da>

- Tried to install via source

Installing from source

The following requirements apply to the installation from source:

- Go 1.11+
- Git

In order to build and install IPFS Cluster follow the steps:

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git clone https://github.com/ipfs/ipfs-cluster.git
export GOMODCACHE=on # optional, if checking out the repository in $GOPATH.
go install ./cmd/ipfs-cluster-service
go install ./cmd/ipfs-cluster-ctl
```

Tried to install Cluster via <https://github.com/ipfs/ipfs-cluster.git>
Set GO Path using these instructions <https://github.com/golang/go/wiki/SettingGOPATH> and <https://github.com/alco/gostart>
Cd into \$GOPATH/src/ipfs cluster and `Make Install`

What Worked

Installing from source

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- Go 1.11+
- Git

In order to build and install IPFS Cluster follow the steps:

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```

1. Install GO
2. Add `export PATH=\$GOPATH/bin:\$PATH` to your .bashrc or .zshrc file
3. Run `source .zshrc`
4. Create `src` directory in `Go` path and `git clone <https://github.com/ipfs/ipfs-cluster.git>`
5. `cd ipfs-cluster` directory
6. `make install` You don't need to use `go install`

Configuration:

Ok, not sure if this configuration is. Is this mandatory for me to get up and running or is this extra config for after I have gotten IPFS Cluster up and running. What are the bare minimum steps to set up a cluster?

The binary distributions seem like a hassle to download separately so I'll try to build from the ipfs cluster repo

IPFS Cluster peers are run with the `ipfs-cluster-service` command.

Things that are missing or confusing:

- I don't have an `.ipfs-cluster` folder. It looks like I can set a default one but running [`ipfs-cluster-service init`](#)
- What's actually in the configuration file should be displayed in the docs

What Worked

1. `ipfs-cluster-service init` #this creates a config file that I can find at `/Users/protocollabs/.ipfs-cluster/service.json`
2. `ipfs-cluster-service daemon`

Notes

- Is there anything in the config section that needs to be changed right away?
- The different parts of the config should be introduced in a more approachable way

Starting

Notes:

- Starting multiple peers with fixed peerset should be the top part of the documentation

What Worked

1. `Ipfs daemon`
2. `Ipfs-cluster-service daemon`
3. `ipfs-cluster-ctl peers ls`

Things That are Missing are Confusing

- Does Raft need to go at the top of the page? Is it necessary to know about Raft in order to get started with Cluster?
- Why would we want to bootstrap peers individually?
-

Demo Section

I could be wrong but I didn't see anything in the docs that demonstrated how to work with IPFS Cluster as an end user

Checking Your Pin

1. ``ipfs-cluster-ctl add example.md``

```
16:22:08.112 INFO ipfshttp: IPFS Pin request succeeded:  
QmdbiSo8qPaeHuRPhxBznwXtWkgxWuSBznRVijQSasn5SN ipfshttp.go:306
```

2. ``ipfs-cluster-ctl status QmdbiSo8qPaeHuRPhxBznwXtWkgxWuSBznRVijQSasn5SN``

```
QmdbiSo8qPaeHuRPhxBznwXtWkgxWuSBznRVijQSasn5SN :  
> Portias-MacBook-Air.local : PINNED | 2019-05-14T16:22:08.112883+02:00
```