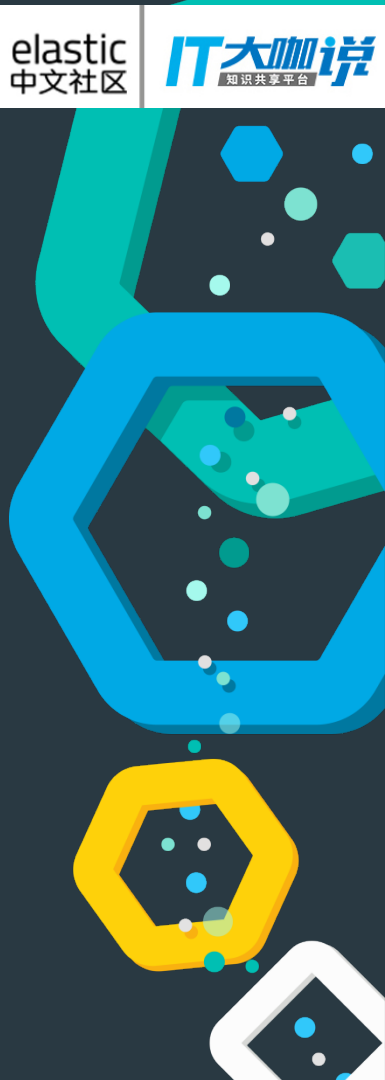
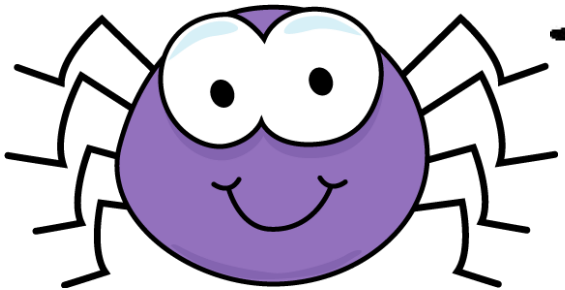
Yet Another Spider

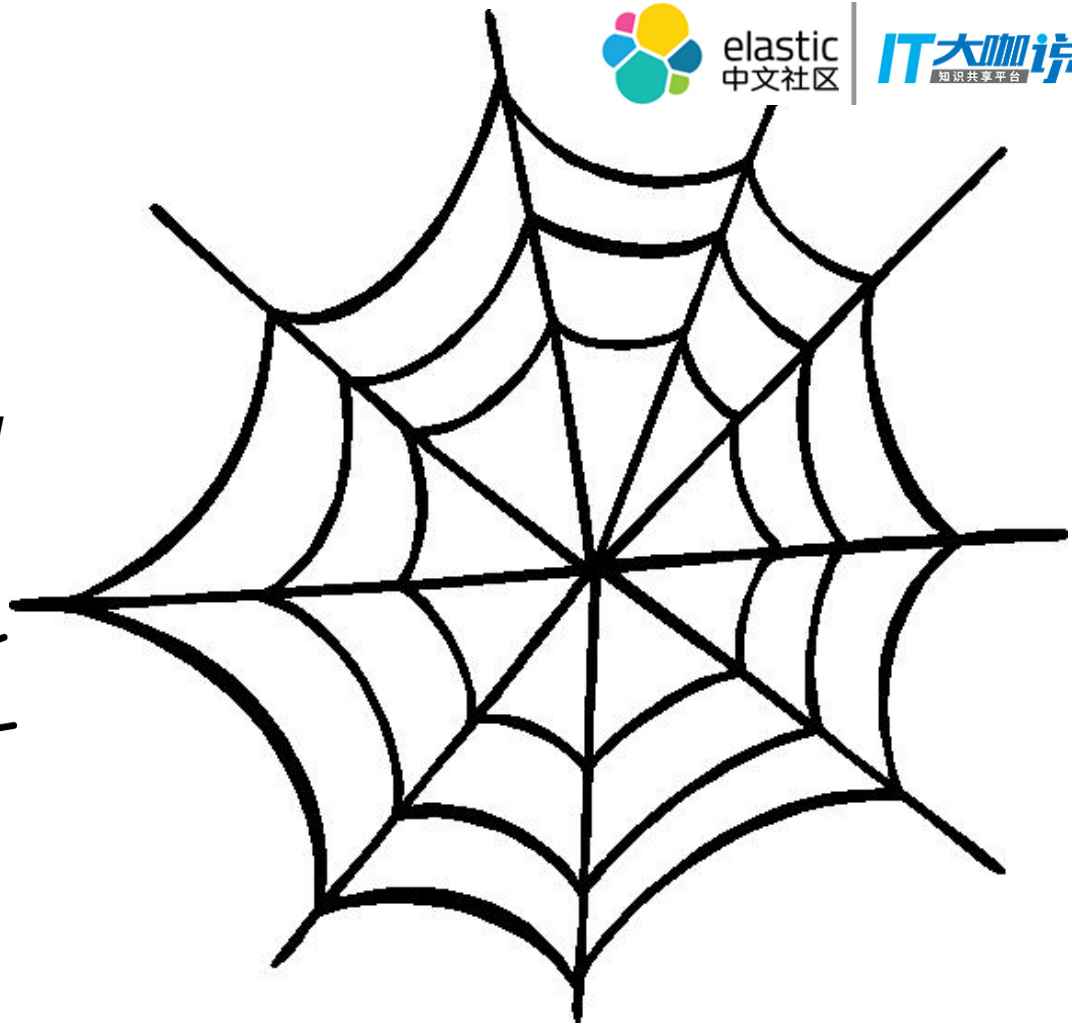
Medcl



What is a spider?

"Hey there ~ , i catch bugs and enjoy them"





Not this one, just kidding …

I think you already know

- Also known as Robot, Bot or Crawler
- It automatically discovery website
- Visit the whole website for you
- Collect web information for you
- Keeps a eye on the web and update it
- Store and Index web content for further process
- Every Search Engine have spider

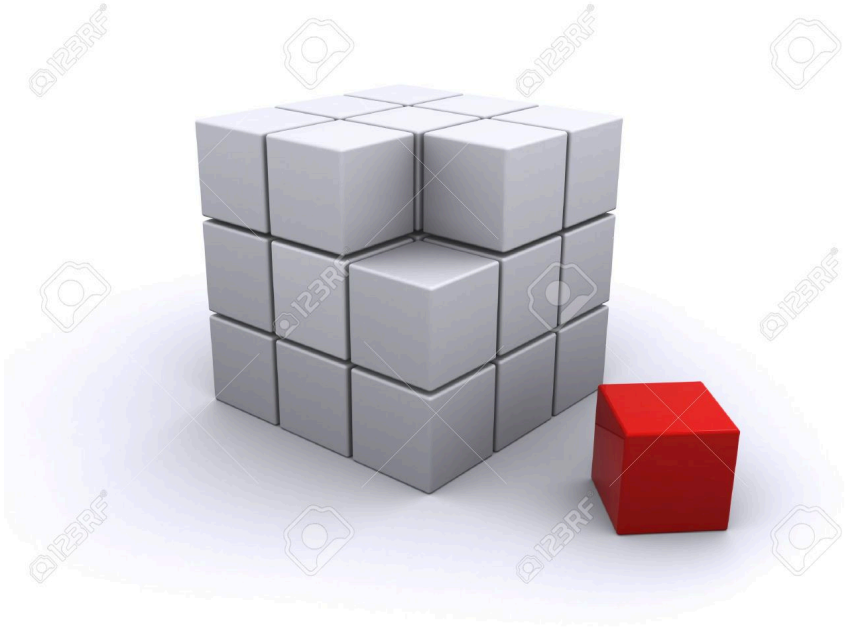
So, why reinvent a wheel?

There are so many OSS crawlers already, like: Scrapy, Nutch, Heritrix, etc. [1,2]

They are good for expert to use!

Just with a lot of "before" or "after" pain, generally they are good framework, but not good enough, not in a "elastic" way! — Medcl

Why not extend Logstash or Beats?



1.http://bigdata-madesimple.com/top-50-open-source-web-crawlers-for-data-mining/
2.https://github.com/BruceDone/awesome-crawler

Yet another spider

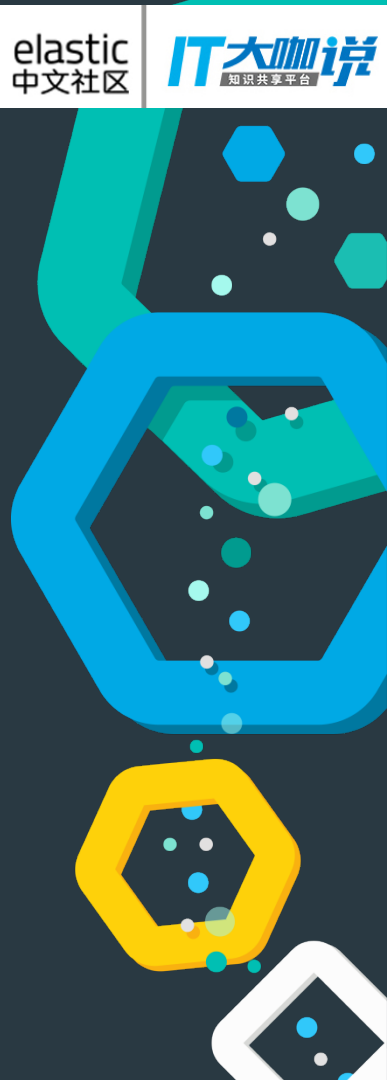
- Gopa

  Golang + pá chóng（爬虫）
- https://github.com/infinitbyte/gopa

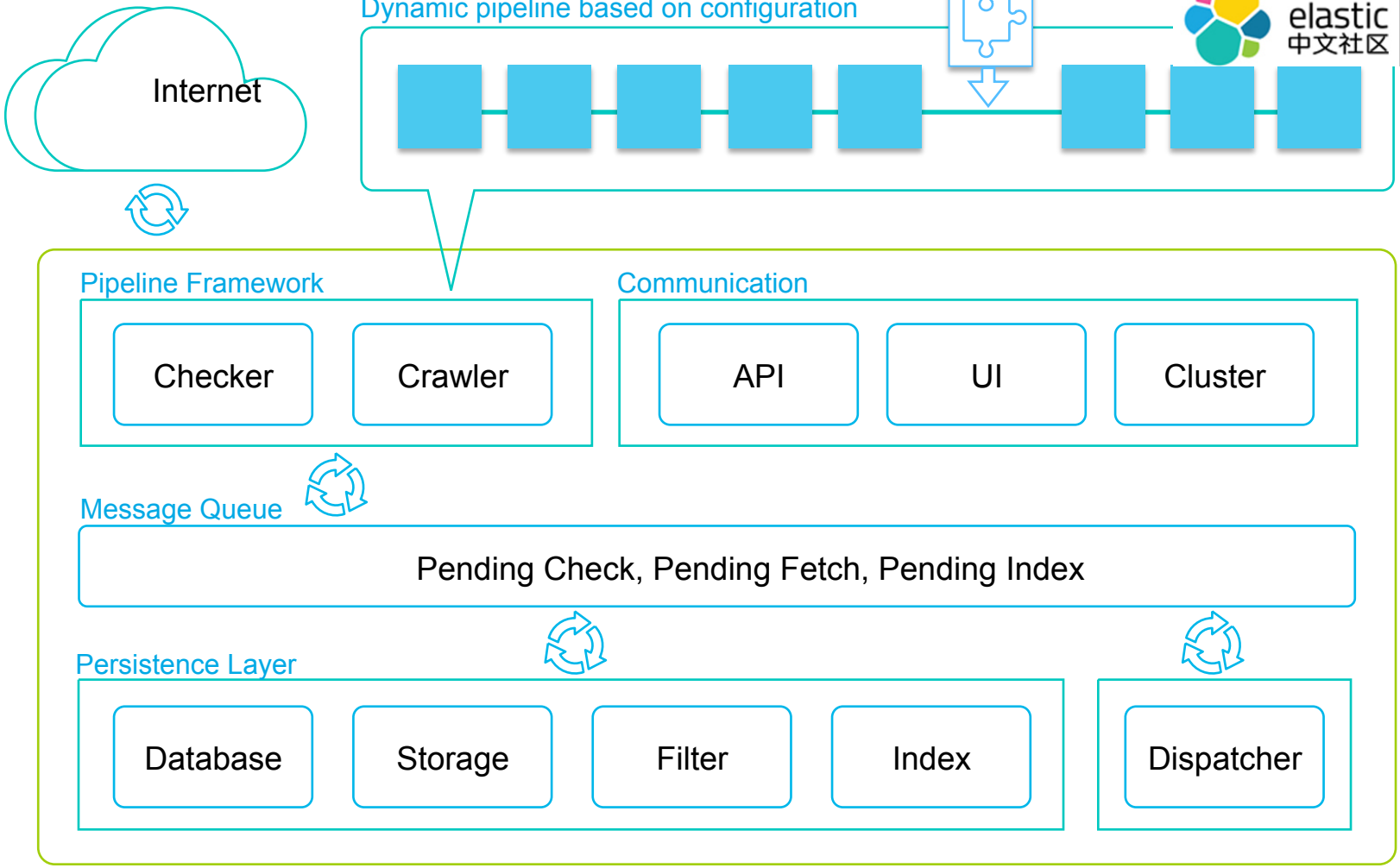
Goal of this project

- Light weight, low footprint, memory requirement should < 100MB
- Easy to deploy, no runtime or dependency required
- Easy to use, no programming or scripts ability needed, out of box features
- Scalable and extensible in a easy way

- Demo



- Architecture


Internet
Dynamic pipeline based on configuration
Pipeline Framework
Checker
Crawler
Communication
API
UI
Cluster
Message Queue
Pending Check, Pending Fetch, Pending Index
Persistence Layer
Database
Storage
Filter
Index
Dispatcher

Console - GOPA

localhost:9001/admin/console/

GOPA | Console | Tasks

Connection established.

```
  _______ _______ _________  ____
 /  _____/ \_____  \\_____   \/  _  \
/   \  ___  /   |  \|     __/  /_\  \
\    \_\  \/    |   \    |  /    |   \
 \_____  /\_______  /____|  \____|__  /
       \/         \/               \/
[gopa] 0.9.0_SNAPSHOT
///last commit: 08232b4, Sat Sep 23 19:11:37 2017 +0800, medcl, normalize content-type ///
```

Press <s> to quick input; Type HELP for more details.

Realtime logging

DEBUG | FilePattern, eg: crawler*.go | FuncPattern, eg: runPipeline* | MessagePattern, eg: *timeout | ▶ START | ■ STOP

```
[08:51:48] [DEBUG] [url_normalization.go:321] [Process] finished normalization,, https://elasticsearch.cn/topic/%E7%A4%BE%E5%8C%BA%E6%B4%BB%E5%8A%A8, /topic, /社区活动.htm
[08:51:48] [DEBUG] [url_normalization.go:188] [Process] domain mismatch,elasticsearch.cn vs www.elastic.co
[08:51:48] [DEBUG] [checker.go:181] [execute] ignored url, https://elasticsearch.cn/article/189
[08:51:48] [DEBUG] [url_normalization.go:321] [Process] finished normalization,, https://elasticsearch.cn/topic/Elastic%7BON%7D17, /topic, /Elastic{ON}17.html
[08:51:48] [DEBUG] [index.go:270] [Search] search: http://dev:9200/gopa-task/_search
[08:51:48] [DEBUG] [webhunter.go:255] [ExecuteRequest] let's: POST, http://dev:9200/gopa-task/_search
[08:51:48] [DEBUG] [save_snapshot.go:72] [Process] save snapshot to db, url:https://elasticsearch.cn/article/254,domain:elasticsearch.cn,path:/article,file:/254.html,save
```

Total 4

elasticsearch.cn
conf.elasticsearch.cn es-guide-preview.elasticsearch.cn
grok.elasticsearch.cn

Total 4167

URL	LastUpdate	NextCheck	Status
https://elasticsearch.cn/topic/%E5%8C%97%E4%BA%AC%...	N/A	N/A	created
https://elasticsearch.cn/topic/ES%E6%95%B0%E6%8D%A...	N/A	N/A	created
https://elasticsearch.cn/crond/run/1513393168	N/A	N/A	created
https://elasticsearch.cn/topic/%E8%AE%A1%E7%AE%97%...	N/A	N/A	created
https://elasticsearch.cn/topic/%E6%A8%A1%E7%B3%8A%...	N/A	N/A	created
https://elasticsearch.cn/crond/run/1513393167	N/A	N/A	created
https://elasticsearch.cn/topic/%E4%B8%AD%E6%96%87%...	N/A	N/A	created
https://elasticsearch.cn/topic/%E5%85%B3%E4%BA%8EE...	N/A	N/A	created
https://elasticsearch.cn/people/2483	N/A	N/A	created
https://elasticsearch.cn/crond/run/1513393166	N/A	N/A	created
https://elasticsearch.cn/people/2484	N/A	N/A	created
https://elasticsearch.cn/people/2561	N/A	N/A	created
https://elasticsearch.cn/question/1269	N/A	N/A	created

Task

LastFetch: 2017-12-16 02:53:07.19264 +0000 UTC
LastCheck: 2017-12-16 02:53:07.977905 +0000 UTC
NextCheck: 2017-12-16 03:03:07.977905 +0000 UTC
ID: b8q8gnaaukimb59ob78g
Url: https://elasticsearch.cn/article/406
Reference: http://elasticsearch.cn
Reference: created
Depth: 0
Breadth: 0
Host: elasticsearch.cn
OriginalUrl:
Message:
Created: 2017-12-16 02:43:41.939546 +0000 UTC
Updated: 2017-12-16 02:53:07.984709 +0000 UTC
PipelineConfigID:

Screenshot

Snapshot(2)

SnapshotVersion: 0
SnapshotID: b8q8l4qaukimb59okvr0
SnapshotHash: 5f7c490b55fa0b852d9170953a63cdbbc4ab4041
SnapshotSimHash:
SnapshotCreated: 2017-12-16 02:53:07.192602 +0000 UTC

#	Created	Size	Version	Hash	Action
0	2017-12-16 02:53:07.192602 +0000 UTC	55349	1	5f7c490b55fa0b852d9170953a63cdbbc4ab4041	View

GOPA

*

Found about 1006 results (7ms)

Kibana - Elastic中文社区

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https://elasticsearch.cn/sort_type-new__category-4__day-0__is_recommend-0__page-...

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https://elasticsearch.cn/sort_type-new__category-4__day-0__is_recommend-0__page-...

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https://elasticsearch.cn/sort_type-new__category-4__day-0__is_recommend-0__page-...

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File Ext

- .html(981)
- .md(8)
- .0(3)
- .1(2)
- .0++java(1)
- .0+ik分词器如何设置成默认分词器(1)
- .1导入oracle数据(1)
- .6(1)
- .7(1)
- .du(1)

Content Type

- text/html(1006)

Language

- zh(992)
- en(14)

Host

- elasticsearch.cn(1004)
- conf.elasticsearch.cn(1)
- grok.elasticsearch.cn(1)

Protocol

- https(999)

Gopa Dashboard - Kibana

localhost:5601/app/kibana#/dashboard/fd9b65f0-9951-11e7-b4c1-39e59d15fa12?_g=(refreshInterval:(display:Off,paus

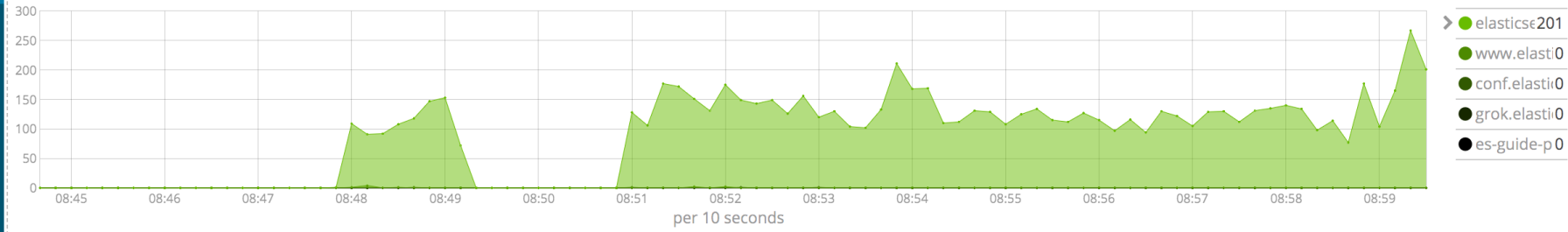
Dashboard / Editing Gopa Dashboard (unsaved)

Save Cancel Add Options Share Reporting Last 15 minutes

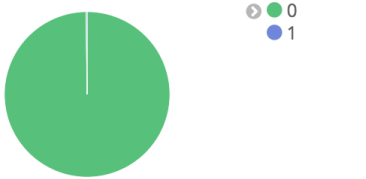
Search... (e.g. status:200 AND extension:PHP) Uses lucene query syntax

Add a filter +

Task Updated



Task Breath

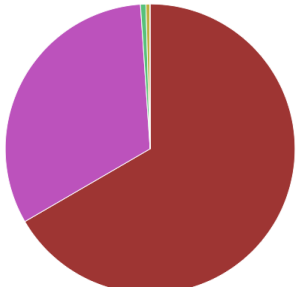


Task Depth

Domain status

Domain	Links
elasticsearch.cn	7,949
www.elasticsearch.cn	10
conf.elasticsearch.cn	2
grok.elasticsearch.cn	2
es-guide-preview.elasticsearch.cn	1

Task Status

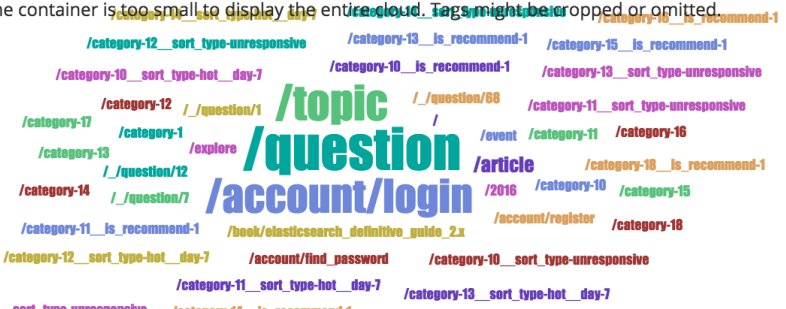


Snapshot Status

File Type	File Count
text/html; charset=utf-8	5,304
text/html	3

Path Tags

The container is too small to display the entire cloud. Tags might be cropped or omitted.

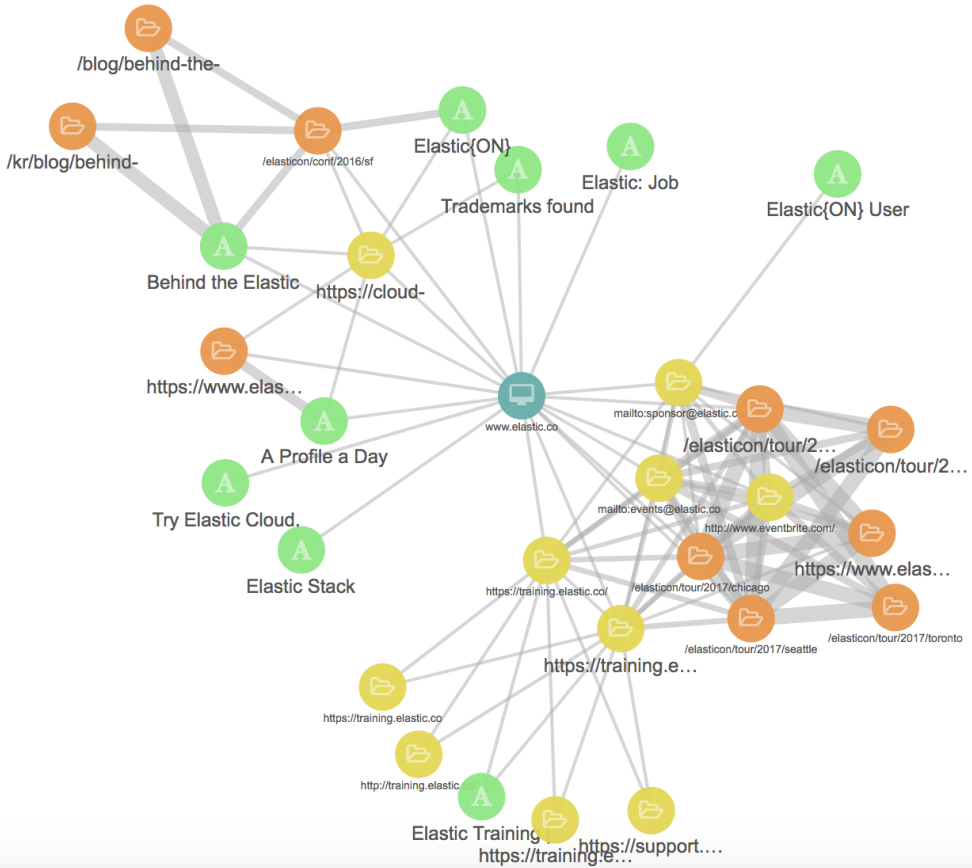


localhost:5601/app/graph#/workspace/0da9b230-97d6-11e7-acf7-a3f27b280b95?_g=()

GOPA url relations with title

gopa-index

foo AND bar NOT baz



Thank You