```
(base) poojamanjunatha@poojas-air data % curl -XPOST -i -k \
-H "Content-Type: application/x-ndjson" \
-H "Authorization: ApiKey $ES_API_KEY" \
"$ES_HOST/bank/_bulk?pretty" --data-binary @accounts.json; echo
```


Creating index for the bank dataset with properties:
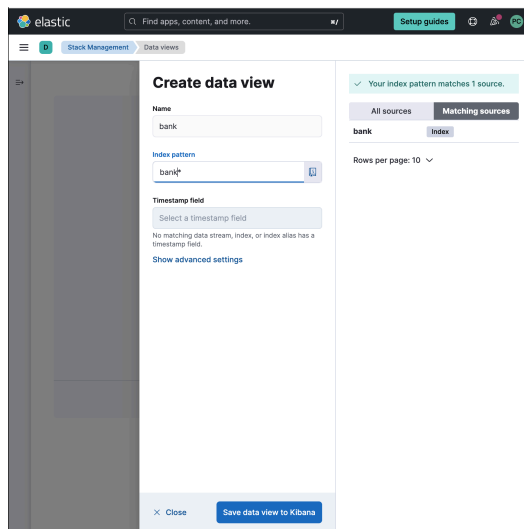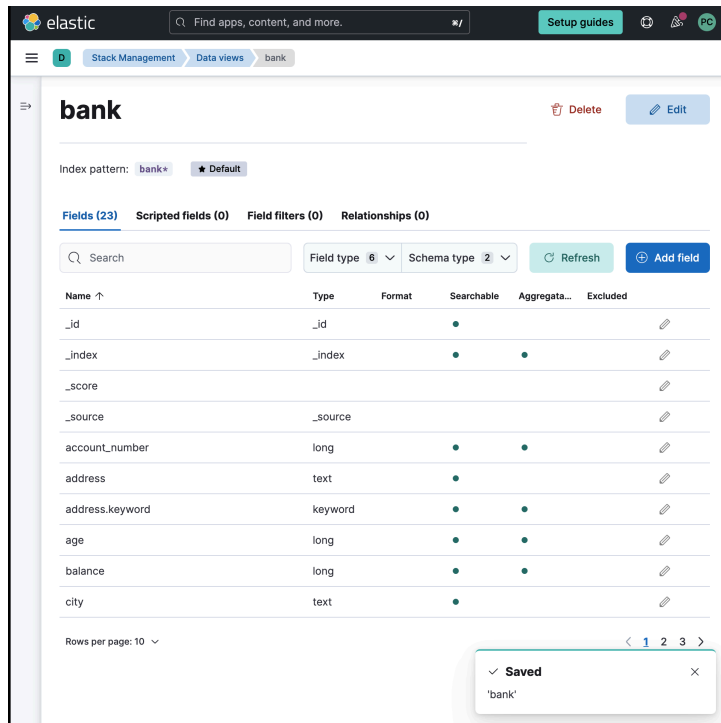
Create index for log files
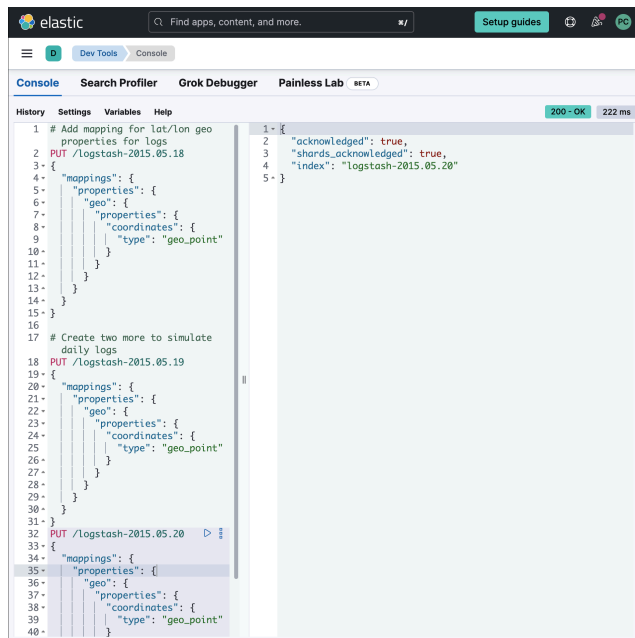
Multiple files over 3 different dates
Geo-point dataset:

```
[(base) poojamanjunatha@poojas-air data % ls
accounts.json              logs.jsonl              shakespeare.json
[(base) poojamanjunatha@poojas-air data % head   logs.jsonl
```

```
{"index":{"_index":"logstash-2015.05.18"}}
{"@timestamp":"2015-05-18T09:03:25.877Z","ip":"185.124.182.126","extension":"gif","response":"404","geo":{"coordinates":{"lat":36.51
8375,"lon":-86.05828083},"src":"PH","dest":"MM","srcdest":"PH:MM"},"@tags":["success","info"],"utc_time":"2015-05-18T09:03:25.877Z",
"referer":"http://twitter.com/error/william-shepherd","agent":"Mozilla/5.0 (X11; Linux x86_64; rv:6.0a1) Gecko/20110421 Firefox/6.0a
1","clientip":"185.124.182.126","bytes":804,"host":"motion-media.theacademyofperformingartsandscience.org","request":"/canhaz/gemini
-7.gif","url":"https://motion-media.theacademyofperformingartsandscience.org/canhaz/gemini-7.gif","@message":"185.124.182.126 - - [2
015-05-18T09:03:25.877Z] \"GET /canhaz/gemini-7.gif HTTP/1.1\" 404 804 \"-\" \"Mozilla/5.0 (X11; Linux x86_64; rv:6.0a1) Gecko/20110
421 Firefox/6.0a1\"","spaces":"this  is  a  thing    with lots of     spaces    wwwwoooooo","xss":"<script>console.log(\"xss\"
)</script>","headings":["<h3>f-i-j-nl-ng</h5>","http://facebook.com/success/lodewijk-van-den-berg"],"links":["daniel-tani@facebook.c
om","http://nytimes.com/security/kathryn-sullivan","www.nytimes.com"],"relatedContent":[{"url":"http://www.laweekly.com/news/cbs-cre
w-rat-fink-2368032","og:type":"article","og:title":"CBS Crew Rat Fink","og:description":"Near a couple of auto body shops (and a sha
rp new Space Invader mosaic that we&#039;ll post soon) near Temple and Westmoreland is a CBS wall with a nice Rat ...","og:url":"htt
p://www.laweekly.com/news/cbs-crew-rat-fink-2368032","article:published_time":"2008-01-14T08:05:26-08:00","article:modified_time":"2
014-10-28T14:59:52-07:00","article:section":"News","article:tag":"Mark Mauer","og:image":"http://IMAGES1.laweekly.com/imager/cbs-cre
w-rat-fink/u/original/2430299/img_2049.jpg","og:image:height":"360","og:image:width":"480","og:site_name":"LA Weekly","twitter:title
":"CBS Crew Rat Fink","twitter:description":"Near a couple of auto body shops (and a sharp new Space Invader mosaic that we&#039;ll
post soon) near Temple and Westmoreland is a CBS wall with a nice Rat ...","twitter:card":"summary","twitter:image":"http://IMAGES1.
laweekly.com/imager/cbs-crew-rat-fink/u/original/2430299/img_2049.jpg","twitter:site":"@laweekly"},{"url":"http://www.laweekly.com/n
ews/push-and-retna-in-koreatown-2368043","og:type":"article","og:title":"Push and Retna in Koreatown","og:description":"Yeah, I orig
inally had this posted this morning as Push &amp; Ayer - Sorry. It looked like a Retna piece, but I saw the Ayer in there and though
t that must ...","og:url":"http://www.laweekly.com/news/push-and-retna-in-koreatown-2368043","article:published_time":"2008-01-29T07
:28:32-08:00","article:modified_time":"2014-10-28T14:59:54-07:00","article:section":"News","article:tag":"Shelley Leopold","og:image
":"http://IMAGES1.laweekly.com/imager/push-and-retna-in-koreatown/u/original/2430376/img_3671.jpg","og:image:height":"360","og:image
:width":"480","og:site_name":"LA Weekly","twitter:title":"Push and Retna in Koreatown","twitter:description":"Yeah, I originally had
 this posted this morning as Push &amp; Ayer - Sorry. It looked like a Retna piece, but I saw the Ayer in there and thought that mus
t ...","twitter:card":"summary","twitter:image":"http://IMAGES1.laweekly.com/imager/push-and-retna-in-koreatown/u/original/2430376/i
mg_3671.jpg","twitter:site":"@laweekly"},{"url":"http://www.laweekly.com/news/asylm-ruets-pdb-on-santa-monica-2368012","og:type":"ar
ticle","og:title":"Asylm, Ruets, PDB on Santa Monica","og:description":"Not a new piece, but a well-hidden gem a little south of San
ta Monica Blvd. in an alley off of Heliotrope or Edgemont. I&#039;ve been sitting on this for a w...","og:url":"http://www.laweekly.
com/news/asylm-ruets-pdb-on-santa-monica-2368012","article:published_time":"2008-04-22T15:11:15-07:00","article:modified_time":"2014
-10-28T14:59:48-07:00","article:section":"News","article:tag":"Culture and Lifestyle","og:image":"http://images1.laweekly.com/imager
/asylm-ruets-pdb-on-santa-monica/u/original/2430137/img_5027.jpg","og:image:height":"360","og:image:width":"480","og:site_name":"LA
Weekly","twitter:title":"Asylm, Ruets, PDB on Santa Monica","twitter:description":"Not a new piece, but a well-hidden gem a little s
outh of Santa Monica Blvd. in an alley off of Heliotrope or Edgemont. I&#039;ve been sitting on this for a w...","twitter:card":"sum
mary","twitter:image":"http://images1.laweekly.com/imager/asylm-ruets-pdb-on-santa-monica/u/original/2430137/img_5027.jpg","twitter:
site":"@laweekly"},{"url":"http://www.laweekly.com/news/laurence-tribe-tangles-with-cbs-and-la-city-hall-2396867","og:type":"article
","og:title":"Laurence Tribe Tangles with CBS and L.A. City Hall","og:description":"The United States Court of Appeals for the Ninth
 Circuit&rsquo;s Courtroom 3 - a miniature auditorium with comfortable, smoked salmon-colored seats - wa...","og:url":"http://www.la
weekly.com/news/laurence-tribe-tangles-with-cbs-and-la-city-hall-2396867","article:published_time":"2008-06-04T14:16:10-07:00","arti
```

Typical data from a web server

Get data from bulk data API and upload it to Elastic search cluster

```
(base) poojamanjunatha@poojas-air data % curl -XPOST -i -k \
-H "Content-Type: application/x-ndjson" \
-H "Authorization: ApiKey $ES_API_KEY" \
$ES_HOST/bank/_bulk?pretty --data-binary @accounts.json; echo
zsh: no matches found: https://793b87fca0734ad796bc8f91a1ffd273.us-central1.gcp.cloud.es.io/bank/_bulk?pretty

(base) poojamanjunatha@poojas-air data % curl -XPOST -i -k \
-H "Content-Type: application/x-ndjson" \
-H "Authorization: ApiKey $ES_API_KEY" \
"$ES_HOST/bank/_bulk?pretty" --data-binary @accounts.json; echo

HTTP/2 200
content-type: application/json
x-cloud-request-id: 32eUrcfEQaGbVtd_4rCTFQ
x-elastic-product: Elasticsearch
x-found-handling-cluster: 793b87fca0734ad796bc8f91a1ffd273
x-found-handling-instance: instance-0000000000
date: Fri, 12 Jul 2024 01:55:24 GMT

{
  "errors" : false,
  "took" : 90,
  "items" : [
    {
      "index" : {
        "_index" : "bank",
        "_id" : "1",
        "_version" : 2,
        "result" : "updated",
        "_shards" : {
          "total" : 2,
          "successful" : 2,
          "failed" : 0
        },
        "_seq_no" : 1000,
        "_primary_term" : 1,
        "status" : 200
      }
```

Data is uploaded to the cluster and can be checked with the API cat
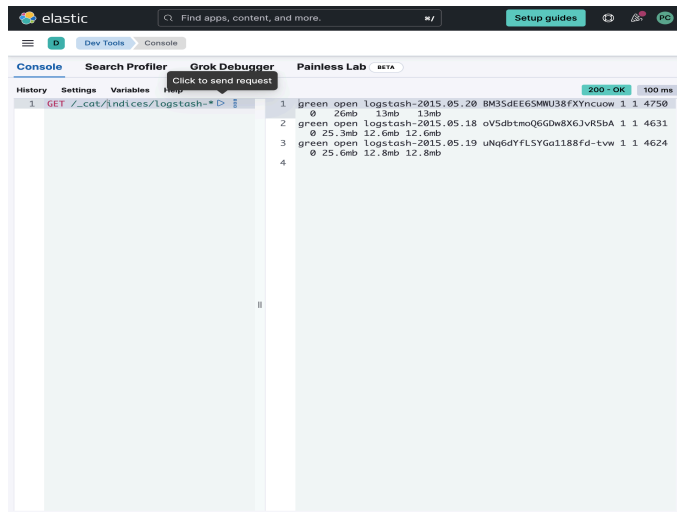
Uploading shakespeare dataset:

```
}
[(base) poojamanjunatha@poojas-air data % ls
accounts.json            logs.jsonl            shakespeare.json
[(base) poojamanjunatha@poojas-air data % head shakespeare.json
{"index":{"_index":"shakespeare","_id":0}}
{"type":"act","line_id":1,"play_name":"Henry IV", "speech_number":"","line_number":"","speaker":"","text_entry":"ACT I"}
{"index":{"_index":"shakespeare","_id":1}}
{"type":"scene","line_id":2,"play_name":"Henry IV","speech_number":"","line_number":"","speaker":"","text_entry":"SCENE I. London. The palace."}
{"index":{"_index":"shakespeare","_id":2}}
{"type":"line","line_id":3,"play_name":"Henry IV","speech_number":"","line_number":"","speaker":"","text_entry":"Enter KING HENRY, LORD JOHN OF LANCASTER, the EARL of WESTMORELAND, SIR WALTER BLUNT, and others"}
{"index":{"_index":"shakespeare","_id":3}}
{"type":"line","line_id":4,"play_name":"Henry IV","speech_number":1,"line_number":"1.1.1","speaker":"KING HENRY IV","text_entry":"So shaken as we are, so wan with care,"}
{"index":{"_index":"shakespeare","_id":4}}
{"type":"line","line_id":5,"play_name":"Henry IV","speech_number":1,"line_number":"1.1.2","speaker":"KING HENRY IV","text_entry":"Find we a time for frighted peace to pant,"}
(base) poojamanjunatha@poojas-air data %
```

Create an index for shakespeare with data types matching the dataset:
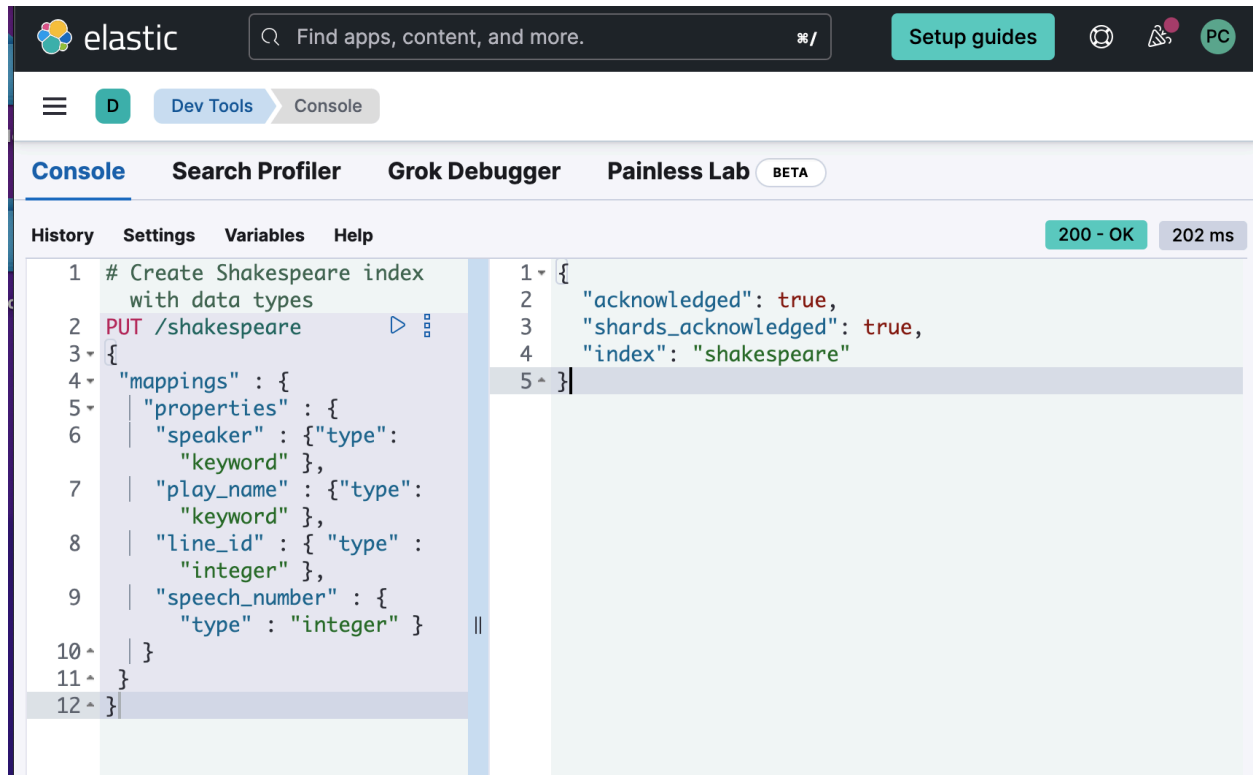
Uploading data to Elastic Search cluster: