Lab 06 - ELK

Lab₀₆

Guide

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Applications

Elastic Search

[2021-11-05T06:43:24,138][INF0][o.e.t.LoggingTaskListener] [ip-172-31-83-245] 28585 finished with response BulkByScrollResponse[took=640ms,timed_out=false,sliceId=null,updated=735,created=0,delet ed=0,batches=1,versionConflicts=0,noops=0,retries=0,throttledUntil=0s,bulk_failures=[],search_fail ures=[]] [2021-11-05T06:43:24,162][INF0][o.e.t.LoggingTaskListener] [ip-172-31-83-245] 28593 finished with response BulkByScrollResponse[took=359.4ms,timed_out=false,sliceId=null,updated=15,created=0,dele ted=0,batches=1,versionConflicts=0,noops=0,retries=0,throttledUntil=0s,bulk_failures=[],search_fai lures=[]] [2021-11-05T06:47:59,494][INFO][o.e.t.LoggingTaskListener] [ip-172-31-83-245] 32379 finished with response BulkByScrollResponse[took=446.8ms,timed_out=false,sliceId=null,updated=740,created=0,del eted=0,batches=1,versionConflicts=0,noops=0,retries=0,throttledUntil=0s,bulk_failures=[],search_fa [2021-11-05T06:47:59,510][INFO][o.e.t.LoggingTaskListener] [ip-172-31-83-245] 32386 finished with response BulkByScrollResponse[took=405.3ms,timed_out=false,sliceId=null,updated=15,created=0,dele ted=0,batches=1,versionConflicts=0,noops=0,retries=0,throttledUntil=0s,bulk_failures=[],search_fai [2021-11-05T06:48:41,296][INFO][o.e.c.m.MetadataIndexTemplateService] [ip-172-31-83-245] adding t emplate [filebeat-7.15.1] for index patterns [filebeat-7.15.1-*] [2021-11-05T06:54:24,648][INFO][o.e.c.m.MetadataCreateIndexService] [ip-172-31-83-245] [sample_da ta] creating index, cause [auto(bulk api)], templates [], shards [1]/[1] [2021-11-05T06:54:24,790][INFO][o.e.c.m.MetadataMappingService] [ip-172-31-83-245] [sample_data/A Dh3K1AeTtCxifrRleK5LQ] create_mapping [_doc] [0] 0:Elastic Search*Z 1:Log Stash-Z 2:Beats 3:Kibana 4:Repository ip-172-31-83-245

LogStash

```
{
    "experience" => "6",
        "message" => "3,27,6,0,MI",
    "@version" => "1",
        "path" => "/home/ubuntu/lab_06/logstash-7.15.1/data/sample_data.csv",
        "host" => "ip-172-31-83-245",
        "age" => "27",
    "@timestamp" => 2021-11-05T06:54:23.946Z,
        "mobile" => "MI",
        "ratings" => "3"
}
{
    "experience" => "6",
        "message" => "4,22,6,1,0ppo",
        "@version" => "1",
        "path" => "/home/ubuntu/lab_06/logstash-7.15.1/data/sample_data.csv",
        "host" => "ip-172-31-83-245",
        "age" => "22",
    "@timestamp" => 2021-11-05T06:54:23.947Z,
        "mobile" => "0ppo",
        "ratings" => "4"
}
[0] 0:Elastic Search-Z 1:Log Stash*Z 2:Beats 3:Kibana 4:Repository ip-172-31-83-245
```

Beats

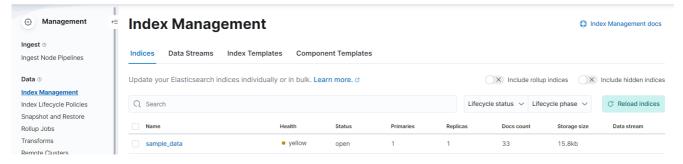
Kibana

```
visTypeTable,visTypePie,visTypeMetric,visTypeMarkdown,tileMap,regionMap,presentationUtil,expressi,
on Shape\,, expression Reveal I mage\,, expression Repeat I mage\,, expression Metric\,, expression I mage\,, time lion\,, indexion and the context of the conte
 xPatternFieldEditor,home,searchprofiler,painlessLab,grokdebugger,graph,cloud,fleet,visTypeVega,man
agement,watcher,transform,snapshotRestore,savedObjectsTagging,licenseManagement,ingestPipelines,in
dex Management, remote Clusters, cross Cluster Replication, index Life cycle Management, data Enhanced, index Parameter Company and Comp
tternManagement,advancedSettings,discover,discoverEnhanced,dashboard,maps,lens,dataVisualizer,dash
boardMode,dashboardEnhanced,visualize,visTypeTimeseries,rollup,savedObjectsManagement,spaces,repor
ting,canvas,lists,eventLog,actions,alerting,triggersActionsUi,stackAlerts,ruleRegistry,ml,cases,ti
melines,securitySolution,observability,uptime,infra,upgradeAssistant,monitoring,logstash,enterpris
eSearch,console,apmOss,apm]
                         [06:47:59.741]
                                                                                                  [[fleet][plugins] Fleet requires the security plugin to be enabled.
                         [06:47:59.760] [info][monitoring][monitoring][plugins] config sourced from: production clu
      log
ster
                         [06:48:00.795] [info][server][Kibana][http] http server running at http://0.0.0.0:5601
      log
                         [06:48:01.046] [info][kibana-monitoring][monitoring][plugins] Starting monitor
      log
ing stats collection
      log
                         [06:48:01.052] [info][plugins][securitySolution] Dependent plugin setup complete - Startin
      ManifestTask
                         [06:48:01.791] [info][plugins][reporting] Browser executable: /home/ubuntu/lab_06/kibana-7
      log
  15.1-linux-x86_64/x-pack/plugins/reporting/chromium/headless_shell-linux_x64/headless_shell
                         [06:48:01.832] [info][status] Kibana is now degraded
                         [06:48:04.794] [info][status] Kibana is now available (was degraded)
      log
            0:Elastic SearchZ 1:Log StashZ 2:Beats-Z 3:Kibana*Z 4:Repository
                                                                                                                                                                                                                                                                     ip-172-31-83-245
```

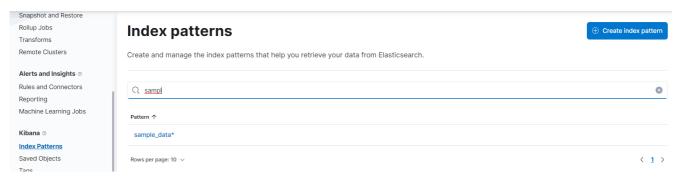
Sample Data

Transform data from the <code>sample_data.csv</code> in <code>LogStash</code> and then load the result into <code>ElasticSearch</code>

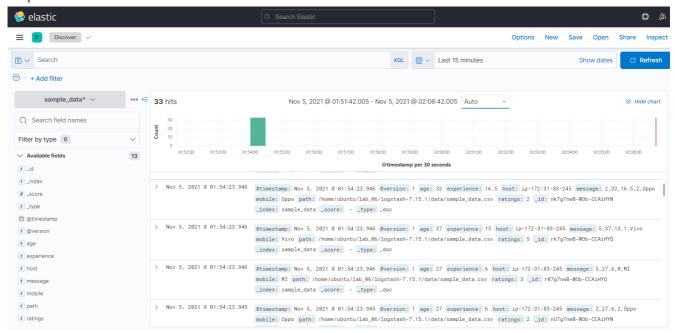
Verify index was created



Create the Index Pattern



· Inspect the data



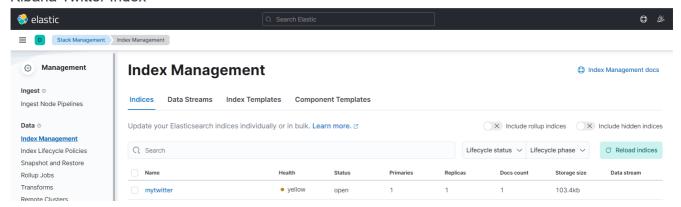
Twitter Feed

LogStash with Twitter

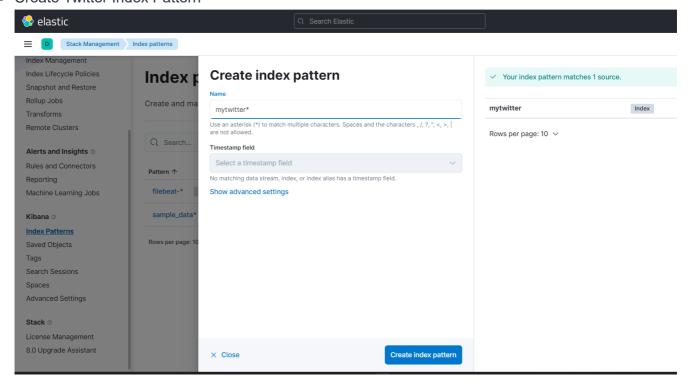
```
ubuntu@ip-172-31-83-24 ×
   "coordinates" => nil,
                           "place" => nil,
               "is_quote_status" => false,
"timestamp_ms" => "1636097664629",
   "in_reply_to_status_id_str" => nil,
                            "lang" => "es
                    "quote_count" => 0,

"id_str" => "1456525289601781761",
                   "filter_level" => "low",
                    "reply_count" => 0,
                      "truncated" => false,
                  "retweet_count" => 0,
                             "geo" => nil,
"text" => "RT @sebaslopezv: Nuevo escándalo y mentira de @QuinteroCalle y la junta de bolsillo de @EPMestamosahi hoy se conoce acta de junta que si co...",
           "in_reply_to_user_id" => nil,
                "favorite_count" => 0,
    "favorited" => false
   0:Elastic SearchZ 1:Log Stash*Z 2:Beats- 3:Kibana 4:Repository
                                                                                                ip-172-31-83-245
```

Kibana Twitter Index



Create Twitter Index Pattern



Check Twitter Data

