```
1)
GET app/_count

---------------------------------

{
  "count" : 9,
  "_shards" : {
    "total" : 1,
    "successful" : 1,
    "skipped" : 0,
    "failed" : 0
  }
}
```

```
2)
GET app/_mapping

-------------------------------------

{
  "app" : {
    "mappings" : {
      "properties" : {
        "@timestamp" : {
          "type" : "date"
        },
        "UF" : {
          "type" : "text",
          "fields" : {
            "keyword" : {
              "type" : "keyword",
              "ignore_above" : 256
            }
          }
        },
        "autor" : {
          "type" : "text",
          "fields" : {
            "keyword" : {
              "type" : "keyword",
              "ignore_above" : 256
            }
          }
        },
        "depto" : {
          "type" : "text",
          "fields" : {
            "keyword" : {
              "type" : "keyword",
              "ignore_above" : 256
            }
          }
        },
```

```
"email" : {
  "type" : "text",
  "fields" : {
    "keyword" : {
      "type" : "keyword",
      "ignore_above" : 256
    }
  }
},
"endereco" : {
  "type" : "text",
  "fields" : {
    "keyword" : {
      "type" : "keyword",
      "ignore_above" : 256
    }
  }
},
"event" : {
  "properties" : {
    "original" : {
      "type" : "text",
      "fields" : {
        "keyword" : {
          "type" : "keyword",
          "ignore_above" : 256
        }
      }
    }
  }
},
"id" : {
  "type"strip => ["UF"] : "text",
  "fields" : {
    "keyword" : {
      "type" : "keyword",
      "ignore_above" : 256
    }
  }
},
"log" : {
  "properties" : {
    "file" : {
      "properties" : {
        "path" : {
          "type" : "text",
          "fields" : {
            "keyword" : {
              "type" : "keyword",
              "ignore_above" : 256
            }
          }
        }
      }
    }
  }
```

```
            }
          },
          "nome" : {
            "type" : "text",
            "fields" : {
              "keyword" : {
                "type" : "keyword",
                "ignore_above" : 256
              }
            }
          },
          "ocupacao" : {
            "type" : "text",
            "fields" : {
              "keyword" : {
                "type" : "keyword",
                "ignore_above" : 256
              }
            }
          },
          "primeironome" : {
            "type" : "text",
            "fields" : {
              "keyword" : {
                "type" : "keyword",
                "ignore_above" : 256
              }
            }
          },
          "salario" : {
            "type" : "text",
            "fields" : {
              "keyword" : {
                "type" : "keyword",
                "ignore_above" : 256
              }
            }
          },
          "sobrenome" : {
            "type" : "text",
            "fields" : {
              "keyword" : {
                "type" : "keyword",
                "ignore_above" : 256
              }
            }
          }
        }
      }
    }
  }
}
--------------------------------------------------------------

3) O documento completo do maior e do menor salário
GET app/_search
```

```json
{
   "size":0,
    "aggs" :
    {
        "Salário máximo":
        {
          "terms":
          {
            "field": "salario",
            "order": {"_key":"desc"},
        "size": 1
          },
          "aggs":
          {
            "hit":
            {
              "top_hits":
              {
                  "size": 10
          }
          }
        }
    },
    "Salário mínimo":
        {
          "terms":
          {
            "field": "salario",
            "order": {"_key":"asc"},
        "size": 1
          },
          "aggs":
          {
            "hit":
            {
              "top_hits":
              {
                  "size": 10
          }
          }
        }
    }
   }
}
```

```json
{
  "took" : 112,
  "timed_out" : false,
  "_shards" : {
    "total" : 1,
    "successful" : 1,
    "skipped" : 0,
    "failed" : 0
```

```json
    },
    "hits" : {
      "total" : {
        "value" : 9,
        "relation" : "eq"
      },
      "max_score" : null,
      "hits" : [ ]
    },
    "aggregations" : {
      "Salário mínimo" : {
        "doc_count_error_upper_bound" : 0,
        "sum_other_doc_count" : 8,
        "buckets" : [
          {
            "key" : 2944.966064453125,
            "doc_count" : 1,
            "hit" : {
              "hits" : {
                "total" : {
                  "value" : 1,
                  "relation" : "eq"
                },
                "max_score" : 1.0,
                "hits" : [
                  {
                    "_index" : "app",
                    "_id" : "xpmtGYYByO_L6ZC3dPRZ",
                    "_score" : 1.0,
                    "_source" : {
                      "email" : [
                        "anovaes",
                        "example.org"
                      ],
                      "endereco" : "Rodovia de Costela, 377,Havaí,
83710-584 Costa - RR",
                      "nome" : [
                        "Stephany",
                        "Gonçalves"
                      ],
                      "ocupacao" : "Co-piloto",
                      "id" : "anovaes",
                      "primeironome" : "Stephany",
                      "@timestamp" : "2023-02-03T23:47:21.543894Z",
                      "event" : {
                        "original" : "Stephany Gonçalves;Rodovia de
Costela, 377,Havaí,83710-584 Costa / RR;Co-
piloto;Financeiro;anovaes@example.org;2944.9659576521226"
                      },
                      "autor" : "Rafael Peres Rubira",
                      "sobrenome" : "Gonçalves",
                      "UF" : "RR",
                      "salario" : 2944.9659576521226,
                      "depto" : "Financeiro",
                      "log" : {
```

```
                             "file" : {
                                "path" : "/home/elk/Downloads/Desafio/
app.log"
                             }
                          }
                       }
                    }
                 ]
              }
           }
        }
     ]
   },
   "Salário máximo" : {
     "doc_count_error_upper_bound" : 0,
     "sum_other_doc_count" : 8,
     "buckets" : [
        {
           "key" : 9385.1953125,
           "doc_count" : 1,
           "hit" : {
             "hits" : {
               "total" : {
                 "value" : 1,
                 "relation" : "eq"
               },
               "max_score" : 1.0,
               "hits" : [
                  {
                     "_index" : "app",
                     "_id" : "xJmtGYYByO_L6ZC3dPRY",
                     "_score" : 1.0,
                     "_source" : {
                       "email" : [
                          "mirellacastro",
                          "example.com"
                       ],
                       "endereco" : "Chácara Barbosa, 54,Jardim
Montanhês,07806090 Pinto de Goiás - MG",
                       "nome" : [
                          "Catarina",
                          "Santos"
                       ],
                       "ocupacao" : "Apicultor",
                       "id" : "mirellacastro",
                       "primeironome" : "Catarina",
                       "@timestamp" : "2023-02-03T23:47:21.542446Z",
                       "event" : {
                          "original" : "Catarina Santos;Chácara Barbosa,
54,Jardim Montanhês,07806090 Pinto de Goiás /
MG;Apicultor;TI;mirellacastro@example.com;9385.194992902976"
                       },
                       "autor" : "Rafael Peres Rubira",
                       "sobrenome" : "Santos",
                       "UF" : "MG",
```

6

```
                         "salario" : 9385.194992902976,
                         "depto" : "TI",
                         "log" : {
                           "file" : {
                             "path" : "/home/elk/Downloads/Desafio/
app.log"
                           }
                         }
                       }
                     }
                   }
                 ]
               }
             }
           }
         ]
       }
     }
   }
```

----

4) A média salarial por departamento

```
GET app/_search
{
  "size":0,
    "aggs": {
        "group_by_category": {
          "terms": {
              "field": "depto.keyword"
          },
          "aggs": {
            "average_amount": {
              "avg": {
                "field": "salario"
              }
            }
          }
        }
     }
}
```

```
{
  "took" : 202,
  "timed_out" : false,
  "_shards" : {
    "total" : 1,
    "successful" : 1,
    "skipped" : 0,
    "failed" : 0
  },
  "hits" : {
```

```
      "total" : {
        "value" : 258,
        "relation" : "eq"
      },
      "max_score" : null,
      "hits" : [ ]
    },
    "aggregations" : {
      "group_by_category" : {
        "doc_count_error_upper_bound" : 0,
        "sum_other_doc_count" : 0,
        "buckets" : [
          {
            "key" : "RH",
            "doc_count" : 74,
            "average_amount" : {
              "value" : 5301.956966915646
            }
          },
          {
            "key" : "Financeiro",
            "doc_count" : 73,
            "average_amount" : {
              "value" : 5991.740170831549
            }
          },
          {
            "key" : "Marketing",
            "doc_count" : 60,
            "average_amount" : {
              "value" : 5770.653920491536
            }
          },
          {
            "key" : "TI",
            "doc_count" : 46,
            "average_amount" : {
              "value" : 5990.7877197265625
            }
          }
        ]
      }
    }
}
```

----

5) Qual foi o nome, email e cargo das pessoas da região Sul que não trabalham no RH e TI.

```
GET app/_search
{
  "_source": [
    "nome",
```

```
      "email",
      "ocupacao"
    ],
    "query": {
      "bool": {
        "should" : [
          { "match" : { "UF" : "PR" } },
          { "match" : { "UF" : "SC" } },
          { "match" : { "UF" : "RS" } }
        ],
        "must_not": [
          {
            "bool": {
              "filter": [
                {
                  "term": {
                    "depto.keyword": "RH"
                  }
                },
                {
                  "term": {
                    "depto.keyword": "TI"
                  }
                }
              ]
            }
          }
        ]
      }
    }
}

------------------

{
  "took" : 9,
  "timed_out" : false,
  "_shards" : {
    "total" : 1,
    "successful" : 1,
    "skipped" : 0,
    "failed" : 0
  },
  "hits" : {
    "total" : {
      "value" : 18,
      "relation" : "eq"
    },
    "max_score" : 4.337802,
    "hits" : [
      {
        "_index" : "app",
        "_id" : "_5BrOIYB-F4Qrcc3-vxS",
        "_score" : 4.337802,
        "_source" : {
```

```
          "ocupacao" : "Engenheiro acústico",
          "nome" : [
            "Ana",
            "Lívia",
            "Porto"
          ],
          "email" : [
            "zdias",
            "example.org"
          ]
        }
      },
      {
        "_index" : "app",
        "_id" : "XZBrOIYB-F4Qrcc3-_1E",
        "_score" : 4.337802,
        "_source" : {
          "ocupacao" : "Assistente de produção",
          "nome" : [
            "Marina",
            "Araújo"
          ],
          "email" : [
            "lfogaca",
            "example.net"
          ]
        }
      },
      {
        "_index" : "app",
        "_id" : "dJBvOIYB-F4Qrcc3gP3G",
        "_score" : 4.337802,
        "_source" : {
          "ocupacao" : "Técnico em radiologia",
          "nome" : [
            "Isadora",
            "Azevedo"
          ],
          "email" : [
            "joao-miguel94",
            "example.net"
          ]
        }
      },
      {
        "_index" : "app",
        "_id" : "AZBrOIYB-F4Qrcc3-v1S",
        "_score" : 3.8822737,
        "_source" : {
          "ocupacao" : "Engenheiro de transportes",
          "nome" : [
            "Lorenzo",
            "Monteiro"
          ],
          "email" : [
```

```
          "limaryan",
          "example.com"
        ]
    }
  },
  {
    "_index" : "app",
    "_id" : "BpBrOIYB-F4Qrcc3-v1S",
    "_score" : 3.8822737,
    "_source" : {
      "ocupacao" : "Acupunturista",
      "nome" : [
        "Joana",
        "Ramos"
      ],
      "email" : [
        "ubarros",
        "example.net"
      ]
    }
  },
  {
    "_index" : "app",
    "_id" : "W5BrOIYB-F4Qrcc3-_1E",
    "_score" : 3.8822737,
    "_source" : {
      "ocupacao" : "Policial civil",
      "nome" : [
        "Vicente",
        "Duarte"
      ],
      "email" : [
        "correiamilena",
        "example.org"
      ]
    }
  },
  {
    "_index" : "app",
    "_id" : "aZBrOIYB-F4Qrcc3-_1E",
    "_score" : 3.8822737,
    "_source" : {
      "ocupacao" : "Engenheiro de processos",
      "nome" : [
        "Lívia",
        "Barbosa"
      ],
      "email" : [
        "davi-lucas61",
        "example.org"
      ]
    }
  },
  {
    "_index" : "app",
```

```
        "_id" : "mpBvOIYB-F4Qrcc3gf1T",
        "_score" : 3.8822737,
        "_source" : {
          "ocupacao" : "Tecnólogo em irrigação e drenagem",
          "nome" : [
            "Camila",
            "Viana"
          ],
          "email" : [
            "isaac07",
            "example.com"
          ]
        }
      },
      {
        "_index" : "app",
        "_id" : "75BrOIYB-F4Qrcc3-fzb",
        "_score" : 3.2305782,
        "_source" : {
          "ocupacao" : "Diretor de fotografia",
          "nome" : [
            "Raul",
            "Costa"
          ],
          "email" : [
            "marcos-viniciusda-mota",
            "example.com"
          ]
        }
      },
      {
        "_index" : "app",
        "_id" : "9pBrOIYB-F4Qrcc3-fzb",
        "_score" : 3.2305782,
        "_source" : {
          "ocupacao" : "Construtor",
          "nome" : [
            "Bruno",
            "Sales"
          ],
          "email" : [
            "da-conceicaoanthony",
            "example.com"
          ]
        }
      }
    }
  ]
}
}
```

----

6) Considerando que a cotação do dólar é R$ 5.10, repetir o item
5.2.4 em dólar.

```
GET app/_search
{
  "size":0,
  "runtime_mappings": {
    "price.dolar": {
      "type": "double",
      "script": {
        "source": """
          emit(doc['salario'].value * params.conversion_rate)
        """,
        "params": {
          "conversion_rate": 5.10
        }
      }
    }
  },
    "aggs": {
        "group_by_category": {
          "terms": {
              "field": "depto.keyword"
          },
          "aggs": {
            "average_amount": {
              "avg": {
                "field": "price.dolar"
              }
            }
          }
        }
    }
}

----------------------

{
  "took" : 116,
  "timed_out" : false,
  "_shards" : {
    "total" : 1,
    "successful" : 1,
    "skipped" : 0,
    "failed" : 0
  },
  "hits" : {
    "total" : {
      "value" : 258,
      "relation" : "eq"
    },
    "max_score" : null,
    "hits" : [ ]
  },
  "aggregations" : {
    "group_by_category" : {
      "doc_count_error_upper_bound" : 0,
```

```
            "sum_other_doc_count" : 0,
            "buckets" : [
              {
                "key" : "RH",
                "doc_count" : 74,
                "average_amount" : {
                  "value" : 27039.980531269794
                }
              },
              {
                "key" : "Financeiro",
                "doc_count" : 73,
                "average_amount" : {
                  "value" : 30557.874871240903
                }
              },
              {
                "key" : "Marketing",
                "doc_count" : 60,
                "average_amount" : {
                  "value" : 29430.334994506837
                }
              },
              {
                "key" : "TI",
                "doc_count" : 46,
                "average_amount" : {
                  "value" : 30553.017370605467
                }
              }
            ]
          }
        }
}
```

----

7) Mostrar um relatório contendo a quantidade de documentos gerados por minuto dos colaboradores de TI.

:(

```
GET app/_search
{
  "aggs": {
    "Trafego por minuto": {
      "date_histogram": {
        "field": "@timestamp",
        "interval": "hour"
      },
      "aggs": {
        "Nr documentos": {
          "value_count": {
            "depto.keyword": "TI"
```

```
                }
              }
            }
          }
        },
        "query": {
            "bool": {
              "must": [
              {
                "term": {
                      "depto.keyword": "TI"
                }
              }
              ]
            }
        }
    }
}


------------------------------------------------------------------------
----------

logstash-desafio.conf

input {
    #file {
    #    path => "/home/elk/Downloads/Desafio/app.log"
    #    start_position => "beginning"
    #    sincedb_clean_after => "1 s"
    #}
    beats {
        port => 5044
    }
}

filter {
    csv {
        skip_header => true
        separator => ";"
        columns =>
["nome","endereco","ocupacao","depto","email","salario"]
    }

    mutate {
        split => { "email" => "@" }
        add_field => { "id" => "%{[email][0]}" }
    }

    mutate {
        split => { "endereco" => "/" }
        add_field => { "UF" => "%{[endereco][-1]}" }
    }

    mutate {
    strip => ["UF"]
```

```
    join => { "endereco" => "-" }
        add_field => { "autor" => "Rafael Peres Rubira"}
        remove_field => ["host", "@version", "message", "path",
"agent"]
    }

    mutate {
        split => { "nome" => " " }
    }

    if "." in [nome][0] {
        mutate {
            add_field => { "primeironome" => "%{[nome][1]}"}
        }
    }
    else
    {
        mutate {
            add_field => { "primeironome" => "%{[nome][0]}"}
        }
    }

    mutate {
        add_field => { "sobrenome" => "%{[nome][-1]}"}
        convert => { "salario" => "float"}
    }


}

output {
    stdout {}

    elasticsearch {
        hosts => "http://127.0.0.1:9200"
        user => "elk"
        password => "elk"
        index => "app"
        action => "index"
    }
}

-----------------------------------------------------------------------
-------------

#################### Filebeat Configuration Example
#########################

# This file is an example configuration file highlighting only the
most common
# options. The filebeat.reference.yml file from the same directory
contains all the
# supported options with more comments. You can use it as a
reference.
```

```
#
# You can find the full configuration reference here:
# https://www.elastic.co/guide/en/beats/filebeat/index.html

# For more available modules and options, please see the
filebeat.reference.yml sample
# configuration file.

# ============================== Filebeat inputs
==============================

filebeat.inputs:

# Each - is an input. Most options can be set at the input level, so
# you can use different inputs for various configurations.
# Below are the input specific configurations.

# filestream is an input for collecting log messages from files.
- type: log

  # Change to true to enable this input configuration.
  enabled: true

  # Paths that should be crawled and fetched. Glob based paths.
  paths:
  - /home/elk/Downloads/Desafio/app.log
      #- /var/log/nginx/access.log
    #- c:\programdata\elasticsearch\logs\*

  # Exclude lines. A list of regular expressions to match. It drops
the lines that are
  # matching any regular expression from the list.
  #exclude_lines: ['^DBG']

  # Include lines. A list of regular expressions to match. It exports
the lines that are
  # matching any regular expression from the list.
  #include_lines: ['^ERR', '^WARN']

  # Exclude files. A list of regular expressions to match. Filebeat
drops the files that
  # are matching any regular expression from the list. By default, no
files are dropped.
  #prospector.scanner.exclude_files: ['.gz$']

  # Optional additional fields. These fields can be freely picked
  # to add additional information to the crawled log files for
filtering
  #fields:
  #  level: debug
  #  review: 1

# ============================== Filebeat modules
==============================
```

```
      #filebeat.config.modules:
    # Glob pattern for configuration loading
    #path: ${path.config}/modules.d/*.yml

    # Set to true to enable config reloading
    #reload.enabled: false

    # Period on which files under path should be checked for changes
    #reload.period: 10s

# ====================== Elasticsearch template setting
======================

setup.template.settings:
  index.number_of_shards: 1
  #index.codec: best_compression
  #_source.enabled: false


# =============================== General
===============================

# The name of the shipper that publishes the network data. It can be
used to group
# all the transactions sent by a single shipper in the web interface.
#name:

# The tags of the shipper are included in their own field with each
# transaction published.
#tags: ["service-X", "web-tier"]

# Optional fields that you can specify to add additional information
to the
# output.
#fields:
#  env: staging

# ============================== Dashboards
==============================
# These settings control loading the sample dashboards to the Kibana
index. Loading
# the dashboards is disabled by default and can be enabled either by
setting the
# options here or by using the `setup` command.
#setup.dashboards.enabled: false

# The URL from where to download the dashboards archive. By default
this URL
# has a value which is computed based on the Beat name and version.
For released
# versions, this URL points to the dashboard archive on the
artifacts.elastic.co
# website.
#setup.dashboards.url:
```

```
# ================================== Kibana
==================================

# Starting with Beats version 6.0.0, the dashboards are loaded via
the Kibana API.
# This requires a Kibana endpoint configuration.
setup.kibana:

  # Kibana Host
  # Scheme and port can be left out and will be set to the default
(http and 5601)
  # In case you specify and additional path, the scheme is required:
http://localhost:5601/path
  # IPv6 addresses should always be defined as: https://
[2001:db8::1]:5601
  #host: "localhost:5601"

  # Kibana Space ID
  # ID of the Kibana Space into which the dashboards should be
loaded. By default,
  # the Default Space will be used.
  #space.id:

# =============================== Elastic Cloud
===============================

# These settings simplify using Filebeat with the Elastic Cloud
(https://cloud.elastic.co/).

# The cloud.id setting overwrites the `output.elasticsearch.hosts`
and
# `setup.kibana.host` options.
# You can find the `cloud.id` in the Elastic Cloud web UI.
#cloud.id:

# The cloud.auth setting overwrites the
`output.elasticsearch.username` and
# `output.elasticsearch.password` settings. The format is
`<user>:<pass>`.
#cloud.auth:

# ================================= Outputs
=================================

# Configure what output to use when sending the data collected by the
beat.

# --------------------------- Elasticsearch Output
---------------------------
#output.elasticsearch:
  # Array of hosts to connect to.
  #hosts: ["127.0.0.1:9200"]

  # Protocol - either `http` (default) or `https`.
  #protocol: "https"
```

```
  # Authentication credentials - either API key or username/password.
  #api_key: "id:api_key"
  #username: "elk"
  #password: "elk"

# --------------------------- Logstash Output
-------------------------------
output.logstash:
  # The Logstash hosts
  hosts: ["127.0.0.1:5044"]

  # Optional SSL. By default is off.
  # List of root certificates for HTTPS server verifications
  #ssl.certificate_authorities: ["/etc/pki/root/ca.pem"]

  # Certificate for SSL client authentication
  #ssl.certificate: "/etc/pki/client/cert.pem"

  # Client Certificate Key
  #ssl.key: "/etc/pki/client/cert.key"

# ================================ Processors
================================
processors:
  - add_host_metadata:
      when.not.contains.tags: forwarded
  - add_cloud_metadata: ~
  - add_docker_metadata: ~
  - add_kubernetes_metadata: ~

# ================================= Logging
=================================

# Sets log level. The default log level is info.
# Available log levels are: error, warning, info, debug
#logging.level: debug

# At debug level, you can selectively enable logging only for some
components.
# To enable all selectors use ["*"]. Examples of other selectors are
"beat",
# "publisher", "service".
#logging.selectors: ["*"]

# ============================ X-Pack Monitoring
============================
# Filebeat can export internal metrics to a central Elasticsearch
monitoring
# cluster.  This requires xpack monitoring to be enabled in
Elasticsearch.  The
# reporting is disabled by default.

# Set to true to enable the monitoring reporter.
#monitoring.enabled: false
```

```
# Sets the UUID of the Elasticsearch cluster under which monitoring
data for this
# Filebeat instance will appear in the Stack Monitoring UI. If
output.elasticsearch
# is enabled, the UUID is derived from the Elasticsearch cluster
referenced by output.elasticsearch.
#monitoring.cluster_uuid:

# Uncomment to send the metrics to Elasticsearch. Most settings from
the
# Elasticsearch output are accepted here as well.
# Note that the settings should point to your Elasticsearch
*monitoring* cluster.
# Any setting that is not set is automatically inherited from the
Elasticsearch
# output configuration, so if you have the Elasticsearch output
configured such
# that it is pointing to your Elasticsearch monitoring cluster, you
can simply
# uncomment the following line.
#monitoring.elasticsearch:

# ============================== Instrumentation
==============================

# Instrumentation support for the filebeat.
#instrumentation:
    # Set to true to enable instrumentation of filebeat.
    #enabled: false

    # Environment in which filebeat is running on (eg: staging,
production, etc.)
    #environment: ""

    # APM Server hosts to report instrumentation results to.
    #hosts:
    #  - http://localhost:8200

    # API Key for the APM Server(s).
    # If api_key is set then secret_token will be ignored.
    #api_key:

    # Secret token for the APM Server(s).
    #secret_token:


# =============================== Migration
===============================

# This allows to enable 6.7 migration aliases
#migration.6_to_7.enabled: true

seccomp.enabled: true
seccomp:
```

```
  default_action: allow
```

----

app.log

```
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