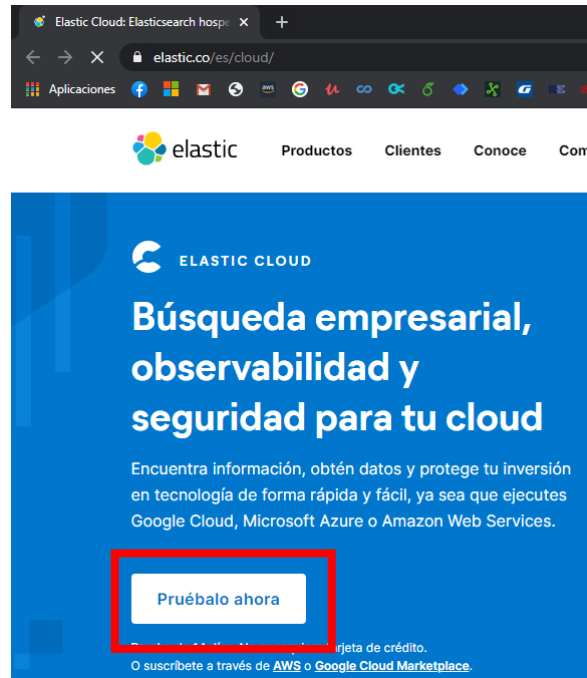
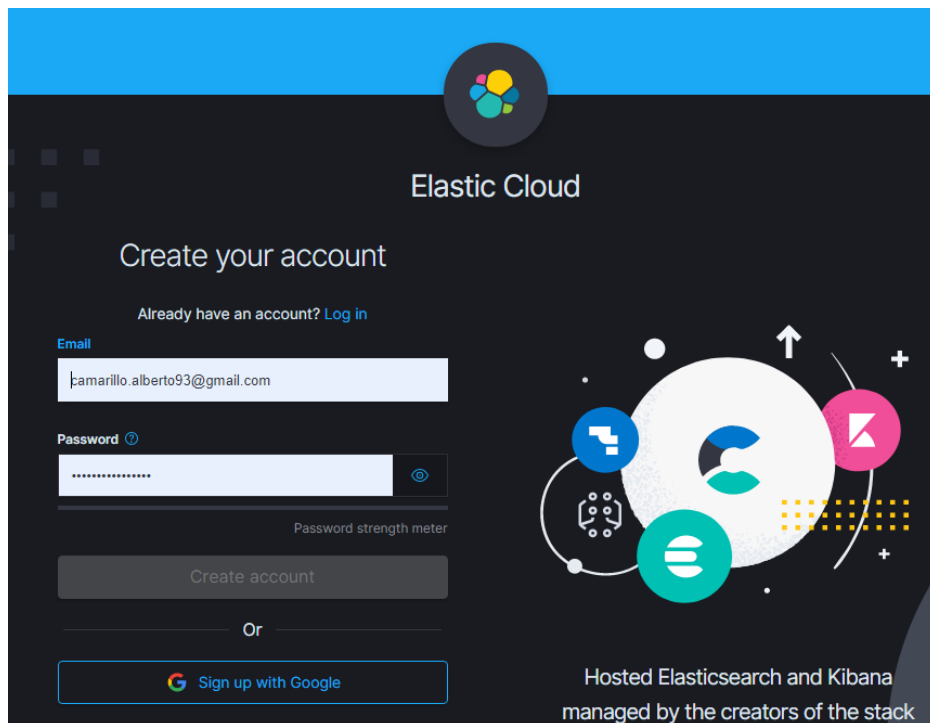


ELASTIC SEARCH

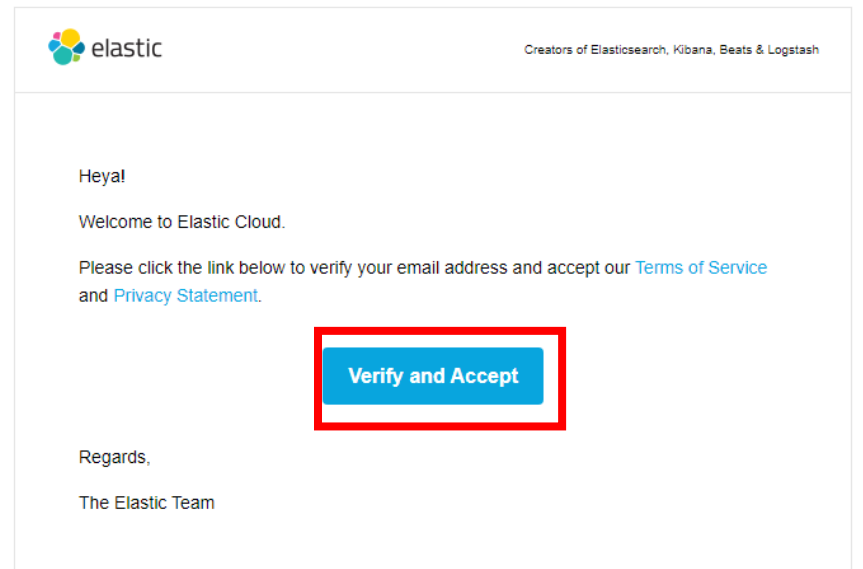
Primero accede a la página de <https://www.elastic.co/es/cloud/>, donde se selecciona “Pruébalo ahora”.



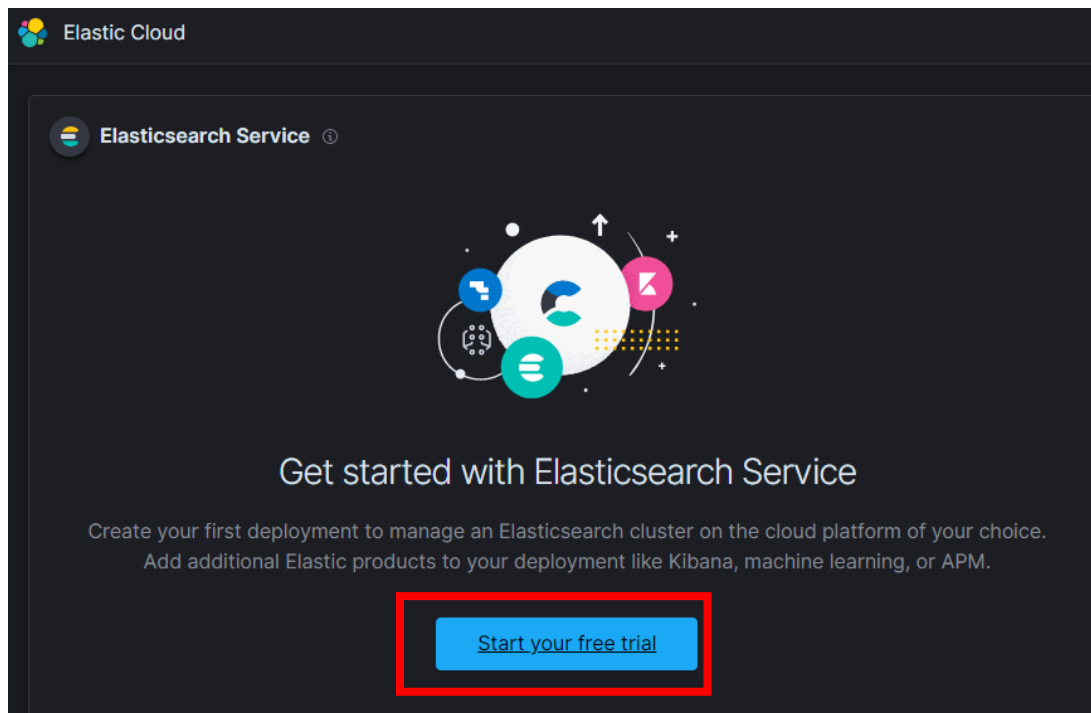
Se crea una cuenta, y se puede ingresar directamente un correo y su respectiva contraseña, o bien, también permite registrarse con alguna cuenta de Google.



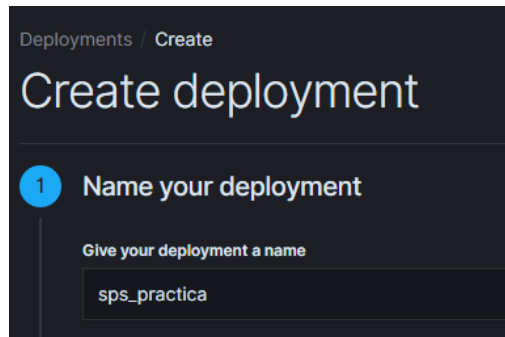
Al crear la cuenta, un correo de verificación se envía al correo con el que se registró, se oprime el botón de “*Verify and Accept*”, la cual redireccionará a la página <https://cloud.elastic.co/home>.



En la ventana que se abre, se pulsa el botón “*Start your free trial*”.



Como nombre llevará sps_practica.



Deployments / Create

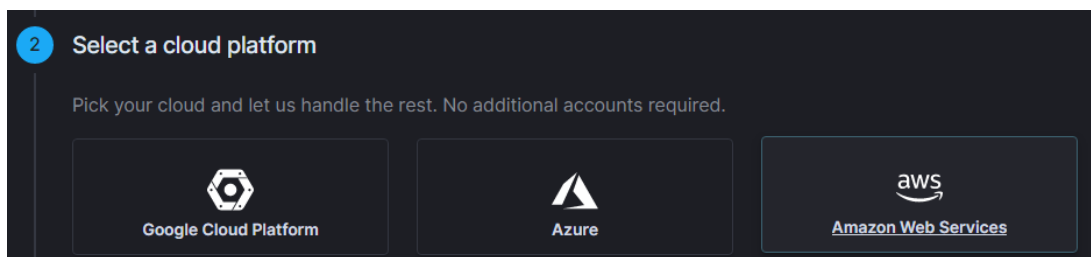
Create deployment

1 Name your deployment

Give your deployment a name


sps_practica

La plataforma será la de AWS.




2 Select a cloud platform


Pick your cloud and let us handle the rest. No additional accounts required.



Google Cloud Platform

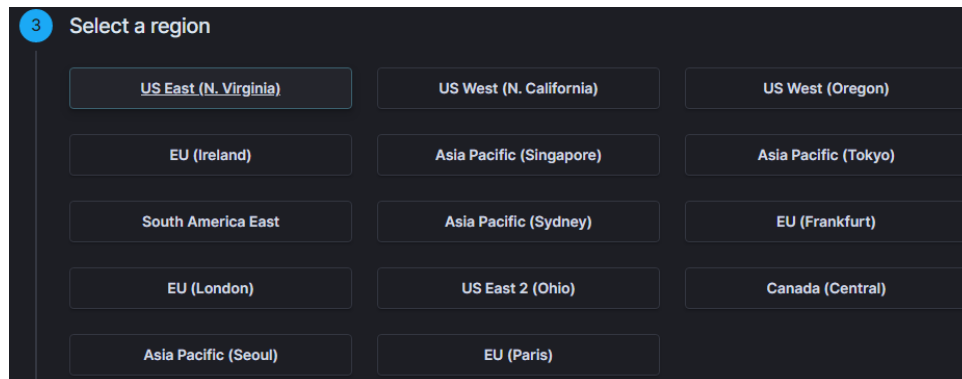


Azure



Amazon Web Services

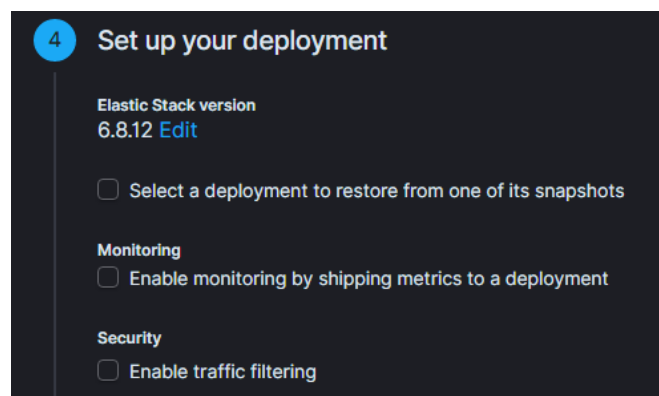
Región es US East (N. Virginia).



3 Select a region

US East (N. Virginia)	US West (N. California)	US West (Oregon)
EU (Ireland)	Asia Pacific (Singapore)	Asia Pacific (Tokyo)
South America East	Asia Pacific (Sydney)	EU (Frankfurt)
EU (London)	US East 2 (Ohio)	Canada (Central)
Asia Pacific (Seoul)	EU (Paris)	

Se pide en esta parte seleccionar la versión 6.6, y dado que no está disponible, se ha optado por utilizar la versión 6.8.12, por ser la más cercana a la solicitada.



4 Set up your deployment

Elastic Stack version
6.8.12 [Edit](#)

☐ Select a deployment to restore from one of its snapshots

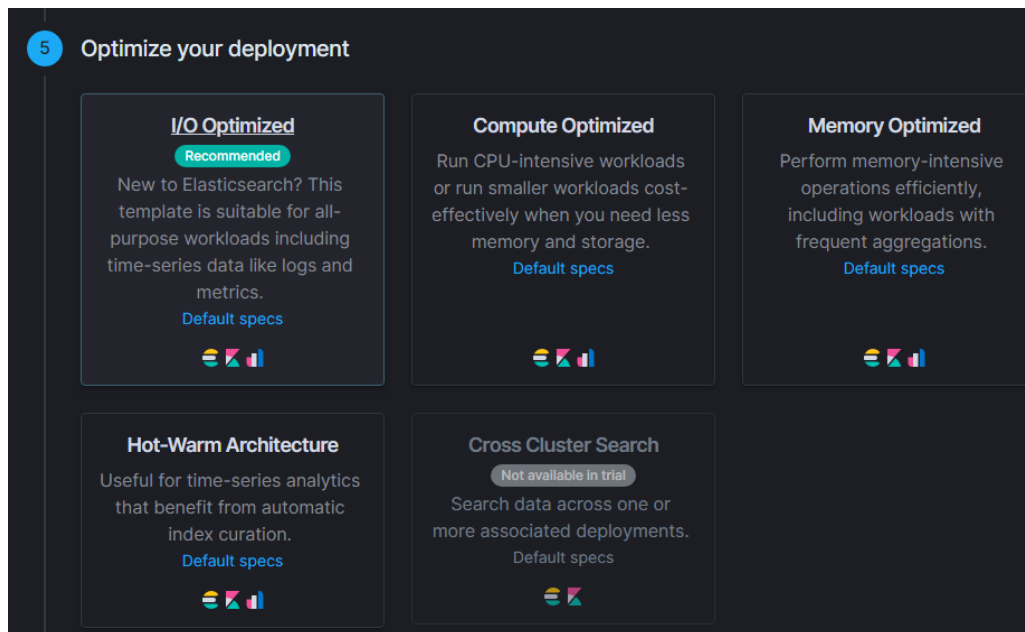
Monitoring

☐ Enable monitoring by shipping metrics to a deployment

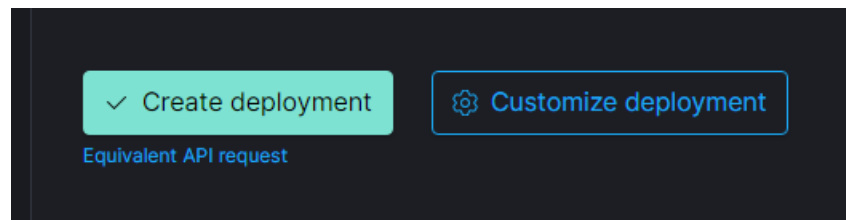
Security

☐ Enable traffic filtering

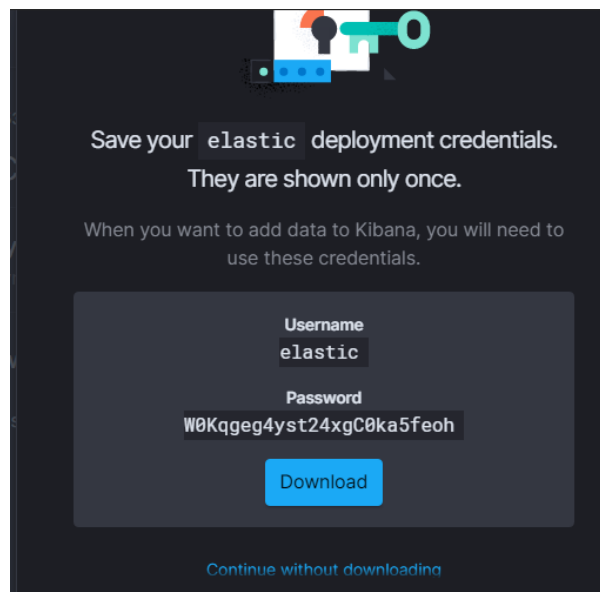
En *Optimize your deployment* se selecciona la opción “*I/O Optimized*”.



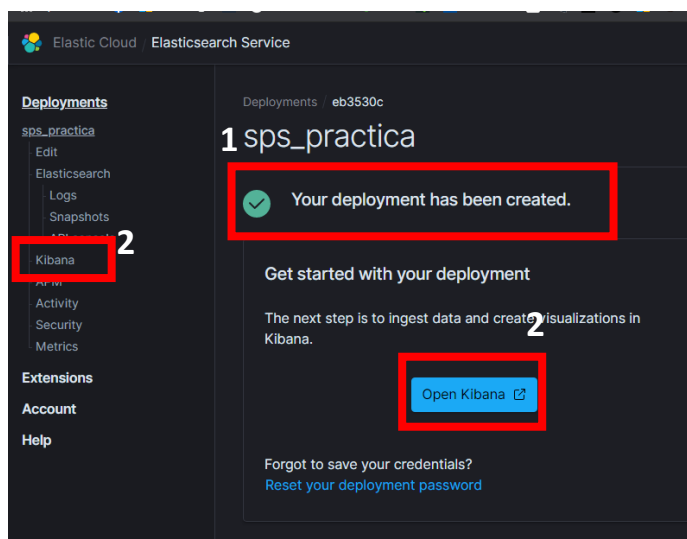
Y finalmente se pulsa en “*Create Deployment*”.



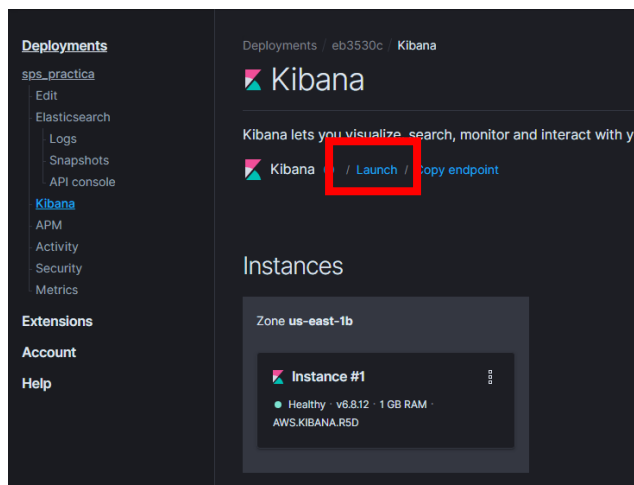
Se guardan o copian las credenciales.



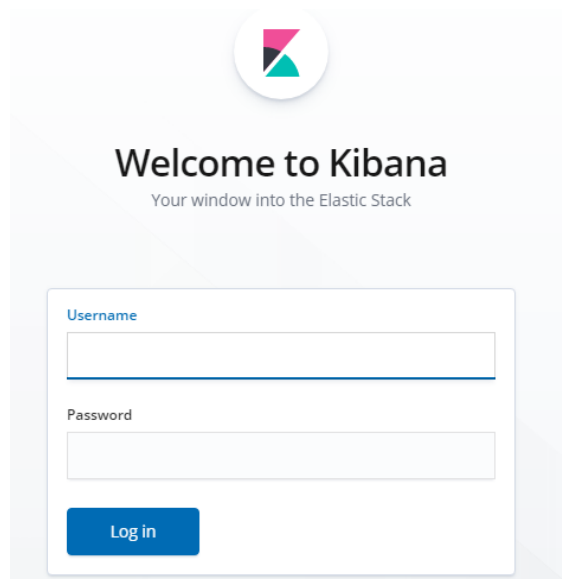
Al concluir el proceso se muestra el mensaje “*Your deployment has been created*”, ahora se pulsa en la opción que dice Kibana, que se encuentra en el menú de la izquierda o en el botón azul central de la página.



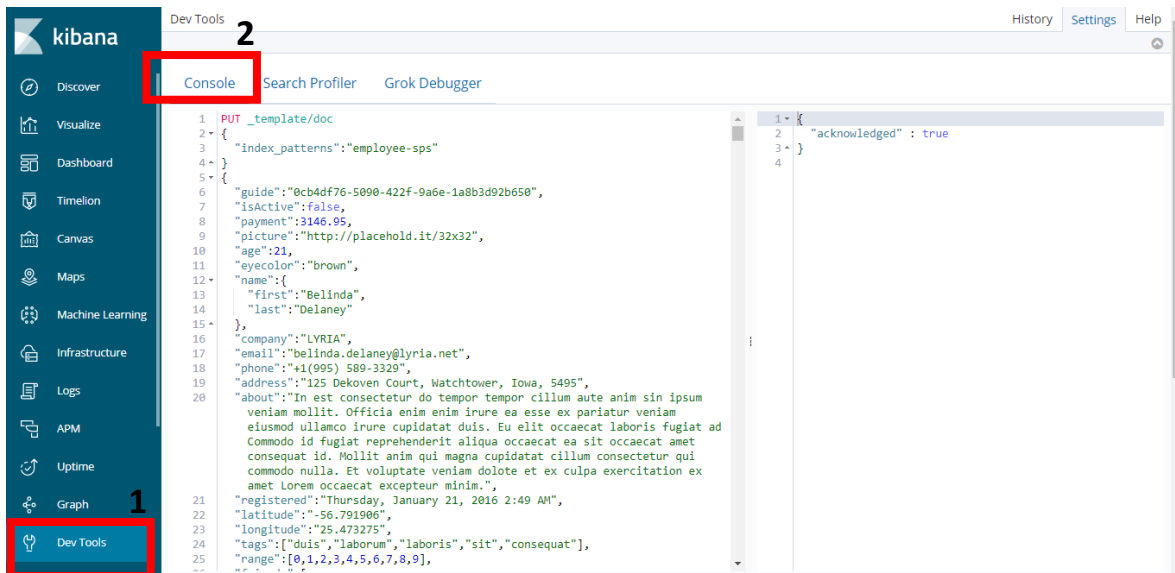
Si seleccionas Kibana desde el menú te muestra la siguiente pantalla, donde debes oprimir en *Launch*.



Si oprimes el botón azul “*Open Kibana*”, te envía a la siguiente página, y del mismo modo al oprimir *Launch* te abre esta ventana el navegador, en esta ventana debes ingresar el usuario y password que guardaste pasos arriba.



Una vez que ingresas, debes identificar en el panel de la izquierda la opción Dev Tools, lo seleccionas y usas la consola. En la consola creas un índice haciendo uso de la API Template, generas un patrón de índice con el nombre “employee” y el nodo raíz debe ser doc, posteriormente escribirás el código proporcionado y al finalizar pulsas el icono de play para ejecutar.



Una vez definido el template se ingresa el siguiente método: POST/employee-sys/_bulk, se carga el archivo JSON y se ejecuta.

En esta sección tuve algunos problemas, los resultados de éxito me los triplicaba y el modo para lograr corregirlo, fue cambiando el método POST a PUT porque POST lo ejecuté tres veces, y el otro problema es que quería realizar la consulta en una sola petición, y no lograba hacerlo, finalmente descubrí que la instrucción necesaria para dicha tarea es “terms” y yo estaba usando “match”.



The screenshot shows a REST client interface with a GET request to `employee-sps/_search`. The request body is a JSON object with a query for age 31. The response body shows search statistics, with the `hits.total` value of 9 highlighted in a red box.

```
158 GET employee-sps/_search
159 {
160   "_source":["age","name.first"],
161   "query": {
162     "term": {
163       "age": 31
164     }
165   }
166 }

1 {
2   "took" : 5,
3   "timed_out" : false,
4   "_shards" : {
5     "total" : 5,
6     "successful" : 5,
7     "skipped" : 0,
8     "failed" : 0
9   },
10  "hits" : {
11    "total" : 9,
12    "max_score" : 1.0,
13    "hits" : [
14      {
15        "_index" : "employee-sps",
16        "_type" : "doc",
17        "_id" : "LzYlV3QBBN-twNAQk_3y",
18        "_score" : 1.0,
19        "_source" : {
20          "name" : {
21            "first" : "Caldwell"
22          },
23          "age" : 31
24        }
25      }
26    ]
27  }
28 }
```

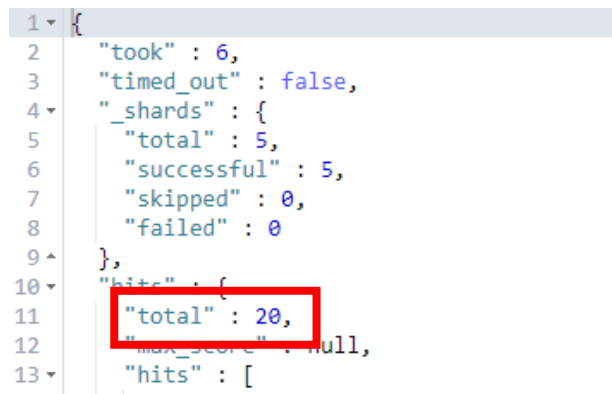
El siguiente código muestra la consulta realizada para buscar a los empleados de 31 años hasta los 40, siendo esta la máxima edad de los empleados.



The screenshot shows a GET request to `employee-sps/_search` with a query using the `terms` field to search for ages from 31 to 40. The request body is a JSON object with a query for a range of ages.

```
GET employee-sps/_search
{
  "sort":[{"age":{"order":"asc"}}],
  "_source":["eyeColor","name.first","payment"],
  "query": {
    "terms": {
      "age": [31,32,33,34,35,36,37,38,39,40]
    }
  }
}
```

El resultado de la consulta fue la que se muestra a continuación.



The screenshot shows the response body for the range query. The `hits.total` value of 20 is highlighted in a red box.

```
1 {
2   "took" : 6,
3   "timed_out" : false,
4   "_shards" : {
5     "total" : 5,
6     "successful" : 5,
7     "skipped" : 0,
8     "failed" : 0
9   },
10  "hits" : {
11    "total" : 20,
12    "max_score" : null,
13    "hits" : [
14      {
15        "_index" : "employee-sps",
16        "_type" : "doc",
17        "_id" : "LzYlV3QBBN-twNAQk_3y",
18        "_score" : 1.0,
19        "_source" : {
20          "name" : {
21            "first" : "Caldwell"
22          },
23          "age" : 31
24        }
25      }
26    ]
27  }
28 }
```



```

1 {
2   "took" : 4,
3   "timed_out" : false,
4   "_shards" : {
5     "total" : 5,
6     "successful" : 5,
7     "skipped" : 0,
8     "failed" : 0
9   },
10  "hits" : {
11    "total" : 0,
12    "max_score" : null,
13    "hits" : [ ]
14  }
15 }
16

```

Ahora toca buscar a los 5 empleados de 30 años o menos que tienen un sueldo superior a los 50,000. La búsqueda se realizó con el siguiente código:

```

GET employee-sps/_search
{
  "sort": [
    { "payment.keyword": { "order": "desc" },
    "age": { "order": "asc" }
  ],
  "_source": ["age", "name.first", "payment"],
  "query": {
    "terms": {
      "age": [20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30]
    }
  }
}

```

El resultado de la consulta fue el siguiente, Castillo, Nolan, Johnston, Kellie y Mia, forman el Top 5, al momento de ejecutar me salía como primer lugar Ferrell, empleado que no debería ir en esa posición, no supe como corregir ese error.

```

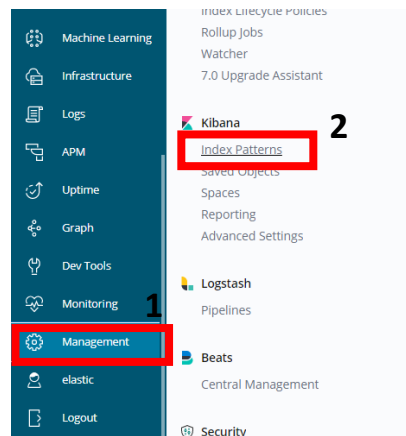
1 {
2   "took" : 6,
3   "timed_out" : false,
4   "_shards" : {
5     "total" : 5,
6     "successful" : 5,
7     "skipped" : 0,
8     "failed" : 0
9   },
10  "hits" : {
11    "total" : 34,
12    "max_score" : null,
13    "hits" : [
14      {
15        "_index" : "employee-sps",
16        "_type" : "doc",
17        "_id" : "UmH_V3QBCYcp2Q9jRwkD",
18        "_score" : null,
19        "_source" : {
20          "name" : {
21            "first" : "Ferrell"
22          },
23          "payment" : "9229.18",
24          "age" : 27
25        },
26        "sort" : [
27          "9229.18"
28        ],
29      },
30      {
31        "_index" : "employee-sps",
32        "_type" : "doc",
33        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
34        "_score" : null,
35        "_source" : {
36          "name" : {
37            "first" : "Castillo"
38          },
39          "payment" : "85014.44",
40          "age" : 21
41        },
42        "sort" : [
43          "85014.44"
44        ],
45      },
46      {
47        "_index" : "employee-sps",
48        "_type" : "doc",
49        "_id" : "ZGH_V3QBCYcp2Q9jRwkE",
50        "_score" : null,
51        "_source" : {
52          "name" : {
53            "first" : "Nolan"
54          },
55          "payment" : "79171.51",
56          "age" : 28
57        },
58        "sort" : [
59          "79171.51"
60        ],
61      },
62      {
63        "_index" : "employee-sps",
64        "_type" : "doc",
65        "_id" : "X2H_V3QBCYcp2Q9jRwkD",
66        "_score" : null,
67        "_source" : {
68          "name" : {
69            "first" : "Johnston"
70          },
71          "payment" : "79123.54",
72          "age" : 20
73        },
74        "sort" : [
75          "79123.54"
76        ],
77      },
78      {
79        "_index" : "employee-sps",
80        "_type" : "doc",
81        "_id" : "WmH_V3QBCYcp2Q9jRwkD",
82        "_score" : null,
83        "_source" : {
84          "name" : {
85            "first" : "Kellie"
86          },
87          "payment" : "77131.15",
88          "age" : 29
89        },
90        "sort" : [
91          "77131.15"
92        ],
93      },
94      {
95        "_index" : "employee-sps",
96        "_type" : "doc",
97        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
98        "_score" : null,
99        "_source" : {
100          "name" : {
101            "first" : "Mia"
102          },
103          "payment" : "77131.15",
104          "age" : 29
105        },
106        "sort" : [
107          "77131.15"
108        ],
109      },
110      {
111        "_index" : "employee-sps",
112        "_type" : "doc",
113        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
114        "_score" : null,
115        "_source" : {
116          "name" : {
117            "first" : "Mia"
118          },
119          "payment" : "77131.15",
120          "age" : 29
121        },
122        "sort" : [
123          "77131.15"
124        ],
125      },
126      {
127        "_index" : "employee-sps",
128        "_type" : "doc",
129        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
130        "_score" : null,
131        "_source" : {
132          "name" : {
133            "first" : "Mia"
134          },
135          "payment" : "77131.15",
136          "age" : 29
137        },
138        "sort" : [
139          "77131.15"
140        ],
141      },
142      {
143        "_index" : "employee-sps",
144        "_type" : "doc",
145        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
146        "_score" : null,
147        "_source" : {
148          "name" : {
149            "first" : "Mia"
150          },
151          "payment" : "77131.15",
152          "age" : 29
153        },
154        "sort" : [
155          "77131.15"
156        ],
157      },
158      {
159        "_index" : "employee-sps",
160        "_type" : "doc",
161        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
162        "_score" : null,
163        "_source" : {
164          "name" : {
165            "first" : "Mia"
166          },
167          "payment" : "77131.15",
168          "age" : 29
169        },
170        "sort" : [
171          "77131.15"
172        ],
173      },
174      {
175        "_index" : "employee-sps",
176        "_type" : "doc",
177        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
178        "_score" : null,
179        "_source" : {
180          "name" : {
181            "first" : "Mia"
182          },
183          "payment" : "77131.15",
184          "age" : 29
185        },
186        "sort" : [
187          "77131.15"
188        ],
189      },
190      {
191        "_index" : "employee-sps",
192        "_type" : "doc",
193        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
194        "_score" : null,
195        "_source" : {
196          "name" : {
197            "first" : "Mia"
198          },
199          "payment" : "77131.15",
200          "age" : 29
201        },
202        "sort" : [
203          "77131.15"
204        ],
205      },
206      {
207        "_index" : "employee-sps",
208        "_type" : "doc",
209        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
210        "_score" : null,
211        "_source" : {
212          "name" : {
213            "first" : "Mia"
214          },
215          "payment" : "77131.15",
216          "age" : 29
217        },
218        "sort" : [
219          "77131.15"
220        ],
221      },
222      {
223        "_index" : "employee-sps",
224        "_type" : "doc",
225        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
226        "_score" : null,
227        "_source" : {
228          "name" : {
229            "first" : "Mia"
230          },
231          "payment" : "77131.15",
232          "age" : 29
233        },
234        "sort" : [
235          "77131.15"
236        ],
237      },
238      {
239        "_index" : "employee-sps",
240        "_type" : "doc",
241        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
242        "_score" : null,
243        "_source" : {
244          "name" : {
245            "first" : "Mia"
246          },
247          "payment" : "77131.15",
248          "age" : 29
249        },
250        "sort" : [
251          "77131.15"
252        ],
253      },
254      {
255        "_index" : "employee-sps",
256        "_type" : "doc",
257        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
258        "_score" : null,
259        "_source" : {
260          "name" : {
261            "first" : "Mia"
262          },
263          "payment" : "77131.15",
264          "age" : 29
265        },
266        "sort" : [
267          "77131.15"
268        ],
269      },
270      {
271        "_index" : "employee-sps",
272        "_type" : "doc",
273        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
274        "_score" : null,
275        "_source" : {
276          "name" : {
277            "first" : "Mia"
278          },
279          "payment" : "77131.15",
280          "age" : 29
281        },
282        "sort" : [
283          "77131.15"
284        ],
285      },
286      {
287        "_index" : "employee-sps",
288        "_type" : "doc",
289        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
290        "_score" : null,
291        "_source" : {
292          "name" : {
293            "first" : "Mia"
294          },
295          "payment" : "77131.15",
296          "age" : 29
297        },
298        "sort" : [
299          "77131.15"
300        ],
301      },
302      {
303        "_index" : "employee-sps",
304        "_type" : "doc",
305        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
306        "_score" : null,
307        "_source" : {
308          "name" : {
309            "first" : "Mia"
310          },
311          "payment" : "77131.15",
312          "age" : 29
313        },
314        "sort" : [
315          "77131.15"
316        ],
317      },
318      {
319        "_index" : "employee-sps",
320        "_type" : "doc",
321        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
322        "_score" : null,
323        "_source" : {
324          "name" : {
325            "first" : "Mia"
326          },
327          "payment" : "77131.15",
328          "age" : 29
329        },
330        "sort" : [
331          "77131.15"
332        ],
333      },
334      {
335        "_index" : "employee-sps",
336        "_type" : "doc",
337        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
338        "_score" : null,
339        "_source" : {
340          "name" : {
341            "first" : "Mia"
342          },
343          "payment" : "77131.15",
344          "age" : 29
345        },
346        "sort" : [
347          "77131.15"
348        ],
349      },
350      {
351        "_index" : "employee-sps",
352        "_type" : "doc",
353        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
354        "_score" : null,
355        "_source" : {
356          "name" : {
357            "first" : "Mia"
358          },
359          "payment" : "77131.15",
360          "age" : 29
361        },
362        "sort" : [
363          "77131.15"
364        ],
365      },
366      {
367        "_index" : "employee-sps",
368        "_type" : "doc",
369        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
370        "_score" : null,
371        "_source" : {
372          "name" : {
373            "first" : "Mia"
374          },
375          "payment" : "77131.15",
376          "age" : 29
377        },
378        "sort" : [
379          "77131.15"
380        ],
381      },
382      {
383        "_index" : "employee-sps",
384        "_type" : "doc",
385        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
386        "_score" : null,
387        "_source" : {
388          "name" : {
389            "first" : "Mia"
390          },
391          "payment" : "77131.15",
392          "age" : 29
393        },
394        "sort" : [
395          "77131.15"
396        ],
397      },
398      {
399        "_index" : "employee-sps",
400        "_type" : "doc",
401        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
402        "_score" : null,
403        "_source" : {
404          "name" : {
405            "first" : "Mia"
406          },
407          "payment" : "77131.15",
408          "age" : 29
409        },
410        "sort" : [
411          "77131.15"
412        ],
413      },
414      {
415        "_index" : "employee-sps",
416        "_type" : "doc",
417        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
418        "_score" : null,
419        "_source" : {
420          "name" : {
421            "first" : "Mia"
422          },
423          "payment" : "77131.15",
424          "age" : 29
425        },
426        "sort" : [
427          "77131.15"
428        ],
429      },
430      {
431        "_index" : "employee-sps",
432        "_type" : "doc",
433        "_id" : "R2H_V3QBCYcp2Q9jRwkD",
434        "_score" : null,
435        "_source" : {
436          "name" : {
437            "first" : "Mia"
438          },
439          "payment" : "77131.15",
440          "age" : 29
441        },
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1034        "sort" : [
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1036        ],
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1042        "_score
```

```

93 ^ },
94 ^ {
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104 ^     "age": 27
105 ^   },
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117 ^       "first": "Meredith"
118 ^     },
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120 ^     "age": 21
121 ^   },
122 ^   "sort": [
123 ^     "76391.98"
124 ^   ]
125 ^ },

```

El siguiente paso es realizar un tablero para visualizar información de empleados. Lo que se debe hacer es ir al menú de la izquierda y buscar *Management* y, ahí seleccionar “*Index Patterns*”.



Se despliega la siguiente información y aquí hay que seleccionar el índice previamente creado, se muestran los índices disponibles y solo hace falta escribirlo en “*Index Pattern*”.

Create index pattern

Kibana uses index patterns to retrieve data from Elasticsearch indices for things like visualizations. ☐ Include system indices

Step 1 of 2: Define index pattern

index-name.*

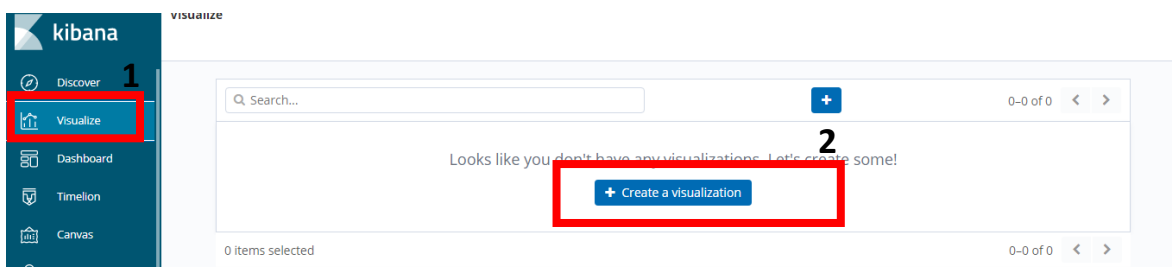
You can use * as a wildcard in your index pattern. You can't use spaces or the characters \, /, ?, *, <, >, |.

Your index pattern **1** matches any of your **2** indices, below.

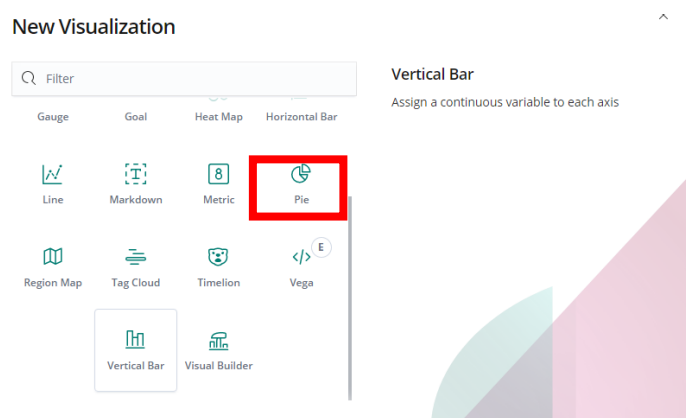
employee-sps

Rows per page: 10

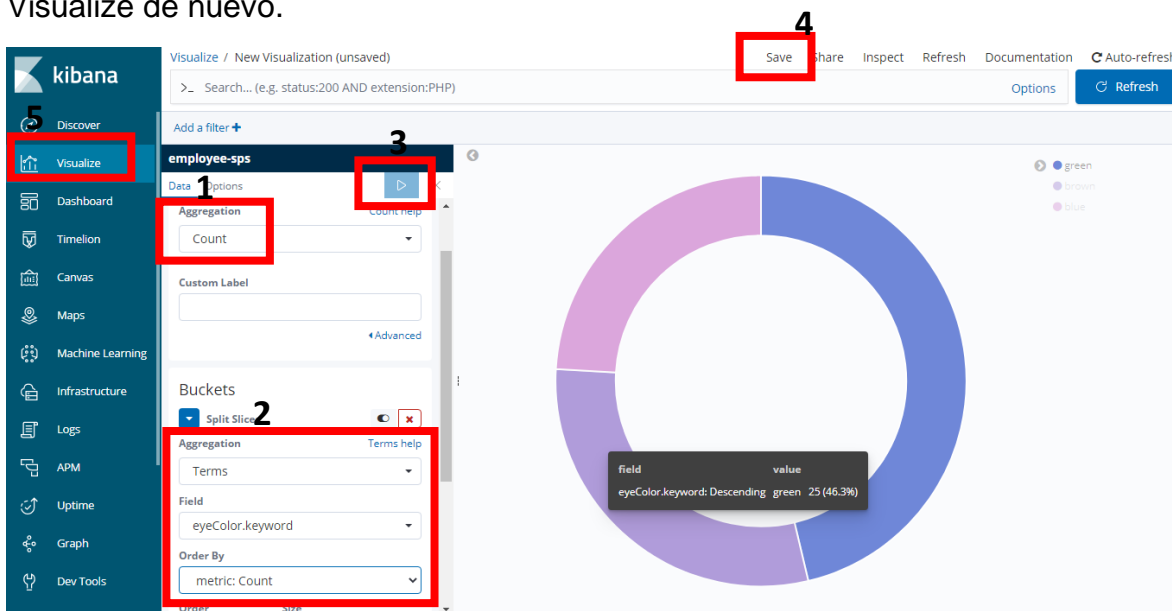
Ahora se pulsa en *Visualize* y crearemos dos vistas, primero vamos a clasificar a los empleados por color de ojos, con un tipo de vista *Pie*, se pulsa en “*Create visualization*”.



Se despliega la siguiente ventana y se elige la opción de Pie.

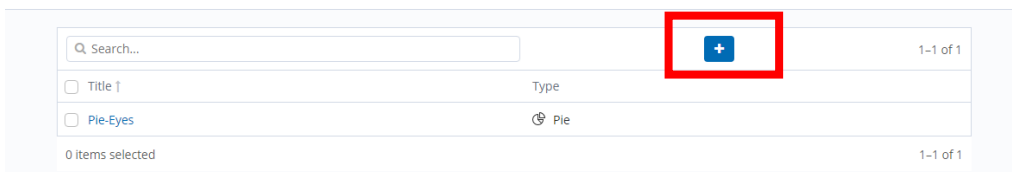


Una vez que hemos accedido, en Metrics/Aggregation se selecciona Count y en Buckets/Aggregation se selecciona Terms, en Field eyeColor.keyword, en Order By, se selecciona metric: Count y finalmente clickar el botón de play que esta en la parte superior de las opciones que acabamos de ingresar, guardamos y clickamos en Visualize de nuevo.



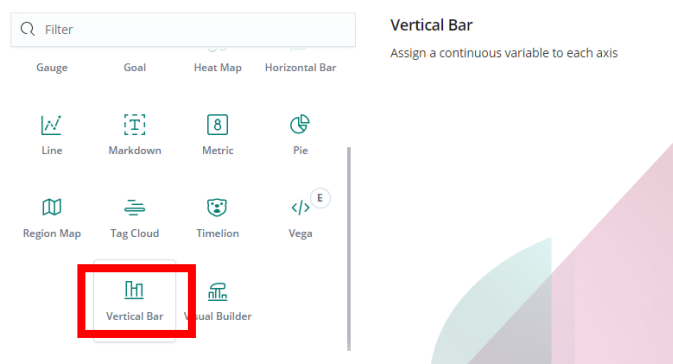
Se oprime en más.

Visualize

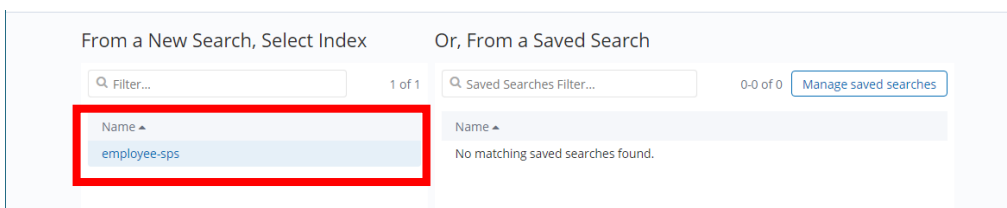


Se selecciona alguna de las dos vistas de barra, en este caso barra vertical.

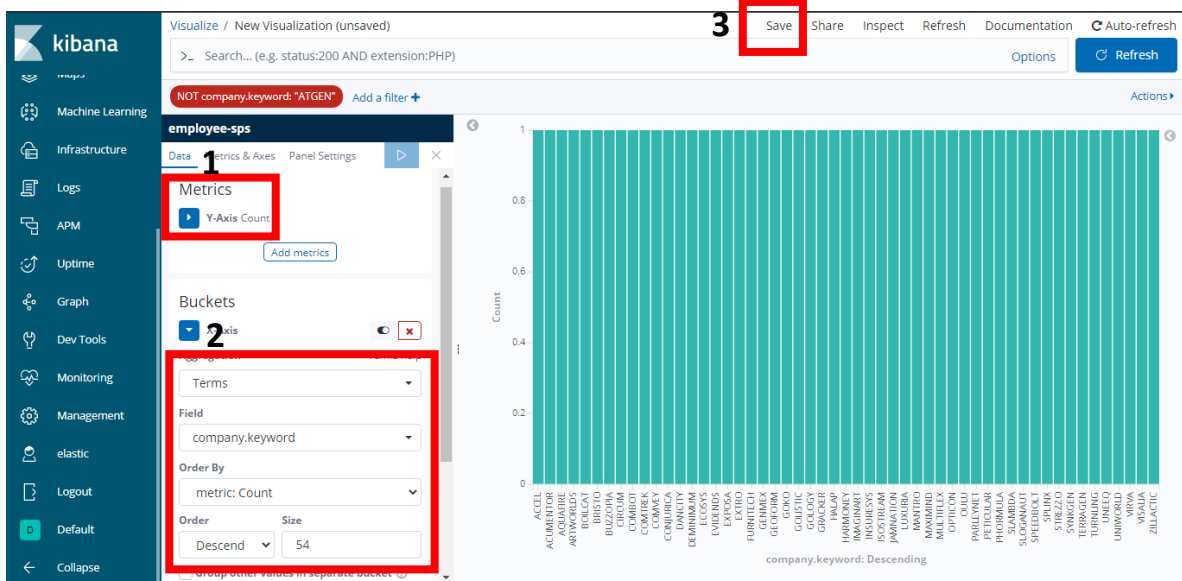
New Visualization



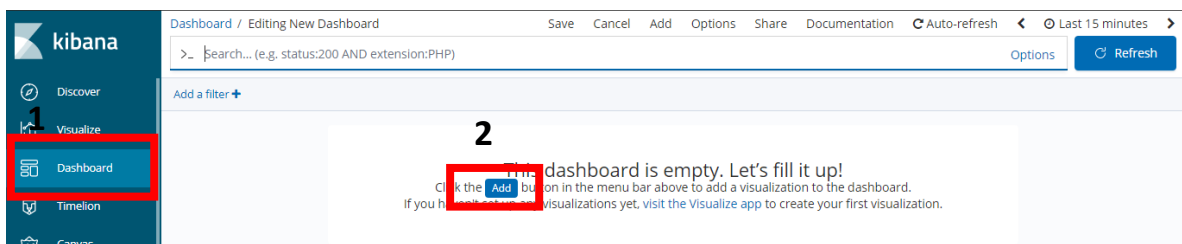
Pulsamos en employee-sys



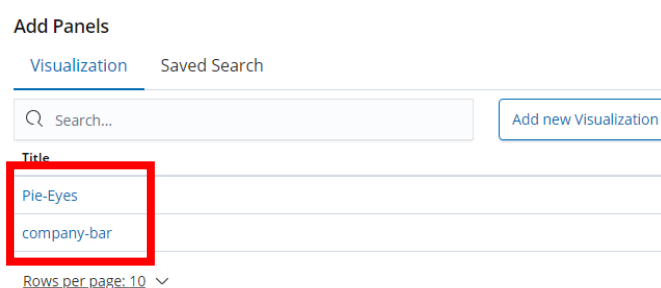
Y ahora toca realizar una gráfica de los empleados activos por compañía, en *Metrics*, se selecciona *Count*, y en *Bucket en Aggregation* se seleccionare *Terms*, en *Fiel*, *company.keyword*, en *Order by*, *metric:Count* y en *Size* pondremos 54, guardamos y salimos.



Finalmente crearemos un tablero con las visualizaciones recién creadas, para esto iremos al menú de la izquierda y se pulsa en *Dashbord*, ahí se presiona en *Add*.



Y se seleccionan ambas visualizaciones, una por una.



Y aquí el resultado final, visualizamos, guardamos y salimos, hemos concluido.

The screenshot shows the Kibana dashboard interface. The left sidebar contains navigation links for Discover, Visualize, Dashboard, Timelion, Canvas, Maps, Machine Learning, Infrastructure, Logs, APM, Uptime, and Graph. The main area displays two visualizations:

- Pie-Eyes**: A donut chart showing the distribution of data across three categories: green (approximately 55%), brown (approximately 35%), and blue (approximately 10%). A legend on the right identifies the colors.
- company-bar**: A bar chart showing the count of data points for various company keywords. The y-axis represents the count (0 to 1.0), and the x-axis lists company keywords. The bars are colored teal. The chart is sorted by 'company.keyword: Descending'.