

## Elasticsearch template mapping example

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Year	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Math	...	...	...	...	...	...	...	...	...	...	...	...	...
Science	...	...	...	...	...	...	...	...	...	...	...	...	...
History	...	...	...	...	...	...	...	...	...	...	...	...	...
Language Arts	...	...	...	...	...	...	...	...	...	...	...	...	...
Physical Education	...	...	...	...	...	...	...	...	...	...	...	...	...
Art	...	...	...	...	...	...	...	...	...	...	...	...	...
Music	...	...	...	...	...	...	...	...	...	...	...	...	...
Foreign Languages	...	...	...	...	...	...	...	...	...	...	...	...	...
Health	...	...	...	...	...	...	...	...	...	...	...	...	...
Computer Science	...	...	...	...	...	...	...	...	...	...	...	...	...
Special Education	...	...	...	...	...	...	...	...	...	...	...	...	...

## 8D Problem-Solving Worksheet

Project Tracking Number: \_\_\_\_\_ Date Initiated: \_\_\_\_\_ Date Closed: \_\_\_\_\_

Discipline	0	1	2	3	4	5	6	7	8
Identify the Problem									
Use a Team Approach									
Describe the Problem									
Interim Containment									
Define the Root Cause(s)									
Develop Solution(s)									
Implement the Solution(s)									
Prevent Recurrence									
Congratulate the Team									

**0: Identify the Problem**

We can learn of problems from many sources, including: internal metrics used to monitor the health of processes and the organization, feedback from customers and employees and results of audits against standards and regulations. Use data, not emotions, to prioritize the order of problems to work on.

Questions & Considerations:	Responses:
▶ How was the problem identified?	
▶ Are "real" data available to confirm and diagnose the problem?	
▶ Is a team needed to tackle the problem or can one person handle the job working alone?	
▶ What is the level of urgency and impact of the problem?	

**1: Use a Team Approach**

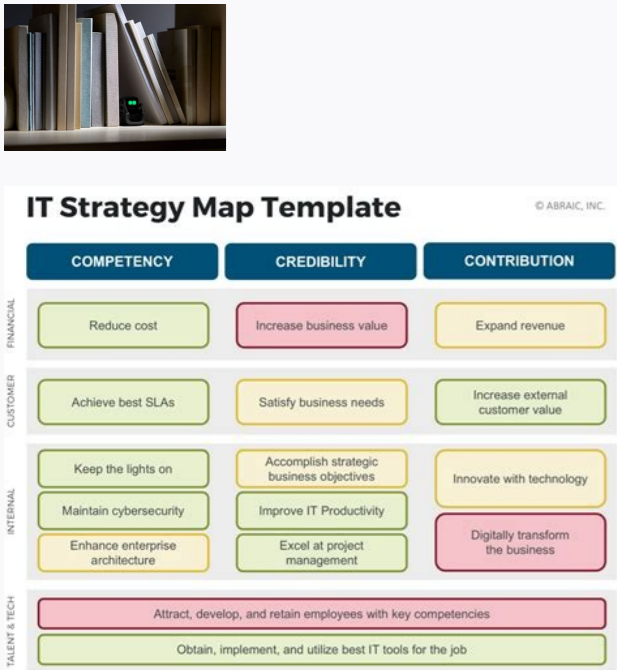
When setting up a problem-solving team, consider team membership, roles of the members, boundaries of freedom for the team and the team start-up process.

Questions & Considerations:	Responses:
▶ Who are the project team members?	
▶ What is the role of each team member?	
▶ Have a Team Champion and SME (Subject Matter Expert) been identified?	
▶ What are the boundaries of freedom for the team?	
▶ How will team activities be documented and communicated?	
▶ Has a Team Start-Up Worksheet been used?	

**2: Describe the Problem**

Describing the problem starts with a well-thought-out Problem Statement. The Problem Statement communicates the scope of the problem that the team is working on and gets the team focused. A complete Problem Statement should also provide information relevant to the problem to help the team get started and clarify what is expected from the team. (Note: In actual use, the Second Discipline might precede the first. To be effective, the team must have the right mix of skills and relevant experience. Sometimes it is almost impossible to select and form an effective team until the scope of the problem is defined.)

Questions & Considerations:	Responses:
▶ Has a Problem Statement been developed? Note: The Problem Statement communicates the nature of the problem to the team, focuses the team on the scope of the problem, provides data and information on what the problem is AND what it isn't and lets the team know what they are expected to do.)	
▶ Do the expectations clarify the role the team should play (determine root causes and implement or recommend a solution), specify the deadline and include monetary limits for the team?	
▶ Does the Problem Statement communicate a problem to be studied or assign a task to be carried out?	



Elasticsearch Index templates allow you to define templates that will automatically be applied on index creation time. The templates can include both settings and mappings. What are we doing? We want to create a template on how we would a target index to look like. It should consist of 1 primary shard and 2 replica shards and we want to update the mapping that we can make use of text and keyword string fields. So then whenever we create an index which matches our template, the template will be applied on index creation. String Fields We will make use of the following string fields in our mappings which will be included in our templates: Text: A field to index full-text values, such as the body of an email or the description of a product. These fields are analyzed, that is they are passed through an analyzer to convert the string into a list of individual terms before being indexed. The analysis process allows Elasticsearch to search for individual words within each full text field Keyword: A field to index structured content such as email addresses, hostnames, status codes, zip codes or tags. They are typically used for filtering (Find me all blog posts where status is published), for sorting, and for aggregations. Keyword fields are only searchable by their exact value Note about templates: Couple of things to keep in mind: 1 2 1. Templates gets referenced on index creation and does not affect existing indexes 2. When you update a template, you need to specify the exact template, the payload overwrites the whole template View your current templates in your cluster: 1 2 3 4 \$ curl -XGET v name index \_patterns order version .monitoring-kibana [.monitoring-kibana-6-\*] 0 6020099 filebeat-6.3.1 [filebeat-6.3.1-\*] 1 Create the template foobar docs which will match any indexes matching foo\* and bar\* which will inherit index settings of 1 primary shards and 2 replica shards and also apply a mapping template shown below: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 \$ curl -H 'Content-Type: application/json' -XPUT "settings": { "number\_of\_shards": 1, "number\_of\_replicas": 2 }, "mappings": { "type": { "source": { "enabled": true }, "properties": { "created\_at": { "type": "date" }, "title": { "type": "text" }, "status": { "type": "keyword" }, "content": { "type": "text" }, "first\_name": { "type": "keyword" }, "last\_name": { "type": "keyword" }, "age": { "type": "integer" }, "registered": { "type": "boolean" } } } }, { "acknowledged": true } } } } ("acknowledged": true, "shards\_acknowledged": true, "index": "test-2018.07.20") Verify that the index has been created: 1 2 3 \$ curl -XGET v health status index uid pri rep docs.count docs.deleted store.size pri.store.size green open test-2018.07.20-5X0H0GTEGeHycTwL51VQ 5 1 0 0 2kb 1.1kb We can also inspect the template like shown below: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 \$ curl -XGET { "foobar docs": { "order": 0, "index\_patterns": [ "foo-\*", "bar-\*" ], "settings": { "index": { "number\_of\_shards": "1", "number\_of\_replicas": "2" } }, "mappings": { "type1": { "source": { "enabled": true }, "properties": { "created\_at": { "type": "date" }, "title": { "type": "text" }, "status": { "type": "keyword" }, "content": { "type": "text" }, "first\_name": { "type": "keyword" }, "last\_name": { "type": "keyword" }, "age": { "type": "integer" }, "registered": { "type": "boolean" } } } }, "aliases": { } } } } Ingest a document to your index: 1 2 3 4 5 6 7 8 9 10 \$ curl -H 'Content-Type: application/json' -XPOST -d '{ "title": "this is a post", "status": "active", "content": "introduction post", "first\_name": "ruan", "last\_name": "bekker", "age": "31", "registered": "true" }' Run a search against your elasticsearch index to view the data: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 \$ curl -XGET { "took": 0, "timed\_out": false, "shards": { "total": 1, "successful": 1, "skipped": 0, "failed": 0 }, "hits": { "total": 1, "max\_score": 1.0, "hits": [ { "\_index": "foo-2018.07.20", "type": "type1", "id": "ZYfofmQB9mQGwzJT7W2y", "score": 1.0, "source": { "title": "this is a post", "status": "active", "content": "introduction post", "first\_name": "ruan", "last\_name": "bekker", "age": "31", "registered": "true" } }, { "\_index": "foo-2018.07.20", "type": "type1", "id": "roftmQB9mQGwzJT7xnpv", "score": 1.0, "source": { "created\_at": "1532077144", "title": "this is another post", "status": "active", "content": "introduction post", "first\_name": "stefan", "last\_name": "bestor", "age": "34", "registered": "true" } } ] } } Let's run a search query for any

documents matching people with the age between 30 and 40: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 \$ curl -H 'Content-Type: application/json' -XGET -d '{ "query": { "range": { "age": { "gte": 30, "lte": 40 } } } }' { "took" : 2, "timed\_out" : false, "shards" : { "total" : 1, "successful" : 1, "skipped" : 0, "failed" : 0 }, "hits" : { "total" : 2, "max\_score" : 1.0, "hits" : [ { "index" : "foo-2018.07.20", "type" : "type1", "id" : "ZyfotmOB9mQGwzJT7W2y", "score" : 1.0, "source" : { "title" : "this is a post", "status" : "active", "content" : "introduction post", "first\_name" : "ruan", "last\_name" : "bekker", "age" : 31, "registered" : true } }, { "index" : "foo-2018.07.20", "type" : "type1", "id" : "roftmQB9mQGwzJTxvvp", "score" : 1.0, "source" : { "created\_at" : 1532077144, "title" : "this is a another post", "status" : "active", "content" : "introduction post", "first\_name" : "stefan", "last\_name" : "bester", "age" : 34, "registered" : true } } ] } } Search for people with the age between 32 and 40: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 \$ curl -H 'Content-Type: application/json' -XGET -d '{ "query": { "range": { "age": { "gte": 32, "lte": 40 } } } }' { "took" : 1, "timed\_out" : false, "shards" : { "total" : 1, "successful" : 1, "skipped" : 0, "failed" : 0 }, "hits" : { "total" : 1, "max\_score" : 1.0, "hits" : [ { "index" : "foo-2018.07.20", "type" : "type1", "id" : "roftmQB9mQGwzJTxvvp", "score" : 1.0, "source" : { "created\_at" : 1532077144, "title" : "this is a another post", "status" : "active", "content" : "introduction post", "first\_name" : "stefan", "last\_name" : "bester", "age" : 34, "registered" : true } } ] } } Let's say we want to update our template with refresh\_interval, primary shards of 2 and replicas of 1 settings: 1 2 3 4 5 \$ curl -H 'Content-Type: application/json' -XPUT -d '{ "index\_patterns": ["foo-\*", "bar-\*"], "settings": { "number\_of\_shards": 2, "number\_of\_replicas": 1, "refresh\_interval": "15s" } }' View the template, as you can see the target template will look exactly like the data body that we are posting to the template api: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 \$ curl -XGET { "foo\_bar\_docs" : { "order" : 0, "index\_patterns" : [ "foo-\*", "bar-\*" ], "settings" : { "index" : { "number\_of\_shards" : "2", "number\_of\_replicas" : "1", "refresh\_interval" : "15s" } }, "mappings" : { } } } View our current index, as you can see the index is unaffected of the template change as only new indexes will retrieve the update of the template: 1 2 3 \$ curl -XGET /health status index uuid pri rep docs.count docs.deleted store.size pri.store.size yellow open foo-2018.07.20 o11pGugrQCK0xES4R6oFg 1 2 2 0 20.4kb 10.2kb Create a new index to verify that the template's config is pulled into the new index: 1 \$ curl -H 'Content-Type: application/json' -XPUT View the elasticsearch indexes to verify the behavior: 1 2 3 4 \$ curl -XGET /health status index uuid pri rep docs.count docs.deleted store.size pri.store.size yellow open foo-2018.07.20 o11pGugrQCK0xES4R6oFg 1 2 2 0 20.4kb 10.2kb green open foo-2018.07.20-new g61i8jtkRFa1zDVB2IsDBQ 2 1 0 0 920b 460b Delete the indexes: 1 2 \$ curl -XDELETE {"acknowledged":true} Delete the templates: 1 2 \$ curl -XDELETE ' {"acknowledged":true} Verify that the templates are gone: 1 2 \$ curl -XGET /name index\_patterns order version Resources: My name is Ruan, I'm a DevOps Engineer from South Africa. I'm passionate about AWS, OpenSource, Observability, Containers, Linux, Automation and sharing my findings with the world. More info about me on my website, ruan.dev. Follow @ruanbekker

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