

Chapter 4 – Mapping APIs

Example Request - create_default_mappings_index

PUT http://localhost:9200/default_mappings_index/

HEADERS

Content-Type
application/json

BODY

```
{
  "mappings": {
    "dynamic_date_formats": [ "yyyy/MM/dd" ]
  }
}
```

```
curl --location --request PUT "http://localhost:9200/default_mappings_index/" --header
"Content-Type: application/json" --data "{ \"mappings\": { \"dynamic_date_formats\":
[\"yyyy/MM/dd\"] } }"
```

Example Request - index_default_mappings_index_doc_1

PUT http://localhost:9200/default_mappings_index/_doc/1

HEADERS

Content-Type
application/json

BODY

```
{
  "simple_string_value": "a string",
  "string_w_date_value": "2019/02/07",
  "string_w_floating_point_value": "1.11",
  "string_w_integer_value" : "1",
  "integer_value": 1,
  "floating_piont_value": 1.1,
  "json_object" : {"level_1" : {"level2_1":"a string", "level_2_2":1,
"level_2_3":1.11}},
  "array_of_integer": [1, 2],
  "array_of_float": [1.11, 2.22],
  "array_of_simple_string": ["ab", "cd"],
  "array_of_integer_string": ["1", "2"],
  "array_of_float_string": ["1.11", "2.22"],
  "boolean_value" : true,
  "null_value": null
}
```

```
curl --location --request PUT "http://localhost:9200/default_mappings_index/_doc/1" --
header "Content-Type: application/json" --data "{ \"simple_string_value\": \"a
string\", \"string_w_date_value\": \"2019/02/07\", \"string_w_floating_point_value\":
\"1.11\", \"string_w_integer_value\" : \"1\", \"integer_value\": 1,
\"floating_piont_value\": 1.1, \"json_object\" : {\"level_1\" : {\"level2_1\": \"a
string\", \"level_2_2\": 1, \"level_2_3\": 1.11}}, \"array_of_integer\": [1, 2],
\"array_of_float\": [1.11, 2.22], \"array_of_simple_string\": [\"ab\", \"cd\"],
```

```
\\"array_of_integer_string\\": [\\"1\\", \\"2\\"], \\"array_of_float_string\\": [\\"1.11\\", \\"2.22\\"], \\"boolean_value\\" : true, \\"null_value\\": null }"
```

Example Request -- create_custom_mappings_index

PUT create_custom_mappings_index

http://localhost:9200/custom_mappings_index

HEADERS

Content-Type
application/json

BODY

```
{
  "mappings": {
    "date_detection": false,
    "numeric_detection": true
  }
}
```

```
curl --location --request PUT "http://localhost:9200/custom_mappings_index" --header "Content-Type: application/json" --data "{ \"mappings\": { \"date_detection\": false, \"numeric_detection\": true } }"
```

Example Request - index_custom_mappings_index_doc_1

PUT http://localhost:9200/custom_mappings_index/_doc/1

HEADERS

Content-Type
application/json

BODY

```
{
  "simple_string_value": "a string",
  "string_w_date_value": "2019/02/07",
  "string_w_floating_point_value": "1.11",
  "string_w_integer_value": "1",
  "integer_value": 1,
  "floating_pionnt_value": 1.1,
  "json_object" : {"level_1" : {"level2_1": "a string", "level_2_2": 1, "level_2_3": 1.11}},
  "array_of_integer": [1, 2],
  "array_of_float": [1.11, 2.22],
  "array_of_simple_string": ["ab", "cd"],
  "array_of_integer_string": ["1", "2"],
  "array_of_float_string": ["1.11", "2.22"],
  "boolean_value": true,
  "null_value": null
}
```

```
curl --location --request PUT "http://localhost:9200/custom_mappings_index/_doc/1" --header "Content-Type: application/json" --data "{ \"simple_string_value\": \"a string\", \"string_w_date_value\": \"2019/02/07\", \"string_w_floating_point_value\": \"1.11\", \"string_w_integer_value\" : \"1\", \"integer_value\": 1, \"floating_pionnt_value\": 1.1, \"json_object\" : {\"level_1\" : {\"level2_1\": \"a string\", \"level_2_2\": 1, \"level_2_3\": 1.11}}, \"array_of_integer\": [1, 2],
```

```
\\"array_of_float\\": [1.11, 2.22], \\"array_of_simple_string\\": [\\"ab\\", \\"cd\\"],  
\\"array_of_integer_string\\": [\\"1\\", \\"2\\"], \\"array_of_float_string\\": [\\"1.11\\",  
\\"2.22\\"], \\"boolean_value\\" : true, \\"null_value\\": null }"
```

Example Request - get_default_mappings_index_mappings

GET http://localhost:9200/default_mappings_index/_mappings

HEADERS

Content-Type
application/json

```
curl --location --request GET  
"http://localhost:9200/default_mappings_index/_mappings" --header "Content-Type:  
application/json"
```

Example Request -- get_custom_mappings_index_mappings

GET http://localhost:9200/custom_mappings_index/_mappings

HEADERS

Content-Type
application/json

```
curl --location --request GET  
"http://localhost:9200/custom_mappings_index/_mappings" --header "Content-Type:  
application/json"
```

Example Request -- delete_default_mappings_index

DEL delete_default_mappings_index

http://localhost:9200/default_mappings_index/

HEADERS

Content-Type
application/json

BODY

```
{  
  "mappings": {  
    "dynamic_date_formats": [ "yyyy/MM/dd" ]  
  }  
}
```

```
curl --location --request DELETE "http://localhost:9200/default_mappings_index/" --  
header "Content-Type: application/json" --data  
"{ \"mappings\":{ \"dynamic_date_formats\": [\"yyyy/MM/dd\"] } }"
```

Example Request - create_default_mappings_index_dynamic_template

PUT http://localhost:9200/default_mappings_index/

HEADERS

Content-Type
application/json

BODY

```
{
  "mappings": {
    "dynamic_templates": [
      {
        "integers_template": {
          "match_mapping_type": "long",
          "mapping": {"type": "integer"}
        },
      },
      {
        "field_name_template": {
          "match_mapping_type": "string",
          "match": "*_simple_string",
          "mapping": {"type": "keyword"}
        },
      },
      {
        "path_match_template": {
          "path_match": "json_object.*.level_2_3",
          "mapping": {"type": "double"}
        },
      },
    ]
  }
}
```

```
curl --location --request PUT "http://localhost:9200/default_mappings_index/" --header
"Content-Type: application/json" --data "{ \"mappings\": { \"dynamic_templates\":
[ { \"integers_template\": { \"match_mapping_type\": \"long\", \"mapping\": {\"type\":
\"integer\"} } }, { \"field_name_template\" :{ \"match_mapping_type\": \"string\",
\"match\": \"*_simple_string\", \"mapping\": {\"type\": \"keyword\"} } },
{ \"path_match_template\":{ \"path_match\": \"json_object.*.level_2_3\", \"mapping\":
{\"type\": \"double\"} } } ] } }
```

Example Request - get_default_mappings_index_mappings_dynamic_template

GET http://localhost:9200/default_mappings_index/_mappings

HEADERS

Content-Type
application/json

```
curl --location --request GET "http://localhost:9200/default_mappings_index/_mappings"
--header "Content-Type: application/json"
```

Example Request - reindex_default_mappings_index_doc_1

PUT http://localhost:9200/default_mappings_index/_doc/1

HEADERS

Content-Type

application/json

BODY

```
{
  "simple_string_value": "a string",
  "string_w_date_value": "2019/02/07",
  "string_w_floating_point_value": "1.11",
  "string_w_integer_value": "1",
  "integer_value": 1,
  "floating_pionnt_value": 1.1,
  "json_object": {"level_1": {"level2_1": "a string", "level_2_2": 1,
"level_2_3": 1.11}},
  "array_of_integer": [1, 2],
  "array_of_float": [1.11, 2.22],
  "array_of_simple_string": ["ab", "cd"],
  "array_of_integer_string": ["1", "2"],
  "array_of_float_string": ["1.11", "2.22"],
  "boolean_value": true,
  "null_value": null
}
```

```
curl --location --request PUT "http://localhost:9200/default_mappings_index/_doc/1" --
header "Content-Type: application/json" --data "{ \"simple_string_value\": \"a
string\", \"string_w_date_value\": \"2019/02/07\", \"string_w_floating_point_value\":
\"1.11\", \"string_w_integer_value\" : \"1\", \"integer_value\": 1,
\"floating_pionnt_value\": 1.1, \"json_object\" : {\"level_1\" : {\"level2_1\": \"a
string\", \"level_2_2\": 1, \"level_2_3\": 1.11}}, \"array_of_integer\": [1, 2],
\"array_of_float\": [1.11, 2.22], \"array_of_simple_string\": [\"ab\", \"cd\"],
\"array_of_integer_string\": [\"1\", \"2\"], \"array_of_float_string\": [\"1.11\",
\"2.22\"], \"boolean_value\" : true, \"null_value\": null }"
```

Example Request - get_default_mappings_index_mappings

GET http://localhost:9200/default_mappings_index/_mappings

HEADERS

Content-Type
application/json

Example Request - create_index_cf_etf_toy

PUT http://localhost:9200/cf_etf_toy

HEADERS

Content-Type
application/json

BODY

```
{
  "mappings": {
    "_meta": {
      "release": "1.0",
      "version": "1"
    },
    "_routing": {
```

```

        "required": true
      },
      "_source": {
        "enabled": false
      }
    }
  }
}

```

```

curl --location --request PUT "http://localhost:9200/cf_etf_toy" --header "Content-Type: application/json" --data "{ \"mappings\": { \"_meta\": { \"release\" : \"1.0\", \"version\": \"1\" }, \"_routing\": { \"required\": true }, \"_source\": { \"enabled\": false } } }"

```

Example Request - delete_cf_etf_index

DEL http://localhost:9200/cf_etf

HEADERS

Content-Type
application/json

BODY

```

{
  "mappings": {
    "dynamic_date_formats": [ "yyyy/MM/dd" ]
  }
}

```

```

curl --location --request DELETE "http://localhost:9200/cf_etf" --header "Content-Type: application/json" --data "{ \"mappings\": { \"dynamic_date_formats\": [ \"yyyy/MM/dd\" ] } }"

```

Example Request - create_cf_etf_index_with_static_mapping

PUT [create_cf_etf_index_with_static_mapping](http://localhost:9200/cf_etf/)

http://localhost:9200/cf_etf/

HEADERS

Content-Type
application/json

BODY

```

{
  "mappings": {
    "dynamic": false,
    "properties": {
      "symbol": { "type": "keyword" },
      "fund_name": { "type": "text" },
      "rating": { "type": "byte" },
      "morningstar_category": { "type": "keyword" },
      "category": { "type": "keyword" },
      "family": { "type": "keyword" },
      "market_cap": { "type": "keyword" },
      "description": { "type": "text", "fields": { "raw": { "type": "keyword" } } }
    }
  }
}

```

```
    }  
  }  
}
```

```
curl --location --request PUT "http://localhost:9200/cf_etf/" --header "Content-Type: application/json" --data "{ \"mappings\": { \"dynamic\": false, \"properties\": { \"symbol\": {\"type\": \"keyword\"}, \"fund_name\": {\"type\": \"text\"}, \"rating\": {\"type\": \"byte\"}, \"morningstar_category\": {\"type\": \"keyword\"}, \"category\": {\"type\": \"keyword\"}, \"family\": {\"type\": \"keyword\"}, \"market_cap\": {\"type\": \"keyword\"}, \"description\": {\"type\": \"text\"}, \"fields\": {\"raw\": {\"type\": \"keyword\"}}} } } }
```

Example Request - get_cf_etf_index_with_static_mapping

GET get_cf_etf_index_with_static_mapping

http://localhost:9200/cf_etf/_mappings

HEADERS

Content-Type
application/json

```
curl --location --request GET "http://localhost:9200/cf_etf/_mappings" --header "Content-Type: application/json"
```

Example Request - update_static_mapping_to_search

PUT http://localhost:9200/cf_etf/_mappings/

HEADERS

Content-Type
application/json

BODY

```
{  
  "dynamic": false,  
  "properties": {  
    "symbol": {"type": "keyword"},  
    "fund_name": {"type": "text"},  
    "rating": {"type": "byte"},  
    "morningstar_category": {"type": "keyword"},  
    "category": {"type": "keyword"},  
    "family": {"type": "keyword"},  
    "market_cap": {"type": "keyword"},  
    "description": {"type": "text", "fields": {"raw": {"type": "keyword"}}},  
    "exchange": {"type": "keyword"}  
  }  
}
```

```
curl --location --request PUT "http://localhost:9200/cf_etf/_mappings" --header "Content-Type: application/json" --data "{ \"dynamic\": false, \"properties\": { \"symbol\": {\"type\": \"keyword\"}, \"fund_name\": {\"type\": \"text\"}, \"rating\": {\"type\": \"byte\"}, \"morningstar_category\": {\"type\": \"keyword\"}, \"category\": {\"type\": \"keyword\"}, \"family\": {\"type\": \"keyword\"}, \"market_cap\": {\"type\": \"keyword\"}, \"description\": {\"type\": \"text\"}, \"fields\": {\"raw\": {\"type\": \"keyword\"}}} } }
```

```
\\"fields\\": {\\"raw\\": {\\"type\\":\\"keyword\\"}}}, \\"exchange\\": {\\"type\\":\\"keyword\\"} } }"
```

Example Request – update_by_query_refresh

POST update_by_query_refresh
http://localhost:9200/cf_etf/_update_by_query?refresh

HEADERS
Content-Type
application/json

PARAMS
refresh

```
curl --location --request POST "http://localhost:9200/cf_etf/_update_by_query?refresh" --header "Content-Type: application/json"
```

Example Request - search_NYSE_Arca_after_static_mapping_updated

POST http://localhost:9200/cf_etf/_search?q=exchange:"NYSE Arca"

HEADERS
Content-Type
application/json

PARAMS
q
exchange:"NYSE Arca"

```
curl --location --request POST "http://localhost:9200/cf_etf/_search?q=exchange:%22NYSE%20Arca%22" --header "Content-Type: application/json"
```

Example Request - typeless_get_request_w_include_type_name=false

GET http://localhost:9200/cf_etf/_mappings?include_type_name=false

HEADERS
Content-Type
application/json

PARAMS
include_type_name
false

```
curl --location --request GET "http://localhost:9200/cf_etf/_mappings?include_type_name=false" \ --header "Content-Type: application/json"
```