

Chapter 3 – Document APIs

Example Request - index_cf_etf_doc_acwf

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

HEADERS

Content-Type
application/json

BODY

```
{
  "symbol": "ACWF",
  "fund_name": "iShares Edge MSCI Multifactor Global ETF",
  "rating": 3,
  "morningstar_category": "World Large Stock",
  "category": "Equity",
  "family": "iShares",
  "market_cap": "large",
  "description": "The investment seeks to track the investment results of the MSCI ACWI Diversified Multiple-Factor Index.\n The fund generally will invest at least 90% of its assets in the component securities of the underlying index and in investments that have economic characteristics that are substantially identical to the component securities of the underlying index. The underlying index is designed to contain equity securities from the MSCI ACWI Index (the \"parent index\") that have high exposure to four investment style factors: value, quality, momentum and low size, while maintaining a level of risk similar to that of the parent index.",
  "exchange": "NYSE Arca"
}
```

```
curl --location --request PUT "http://localhost:9200/cf_etf/_doc/1" --header "Content-Type: application/json" --data "{ \"symbol\": \"ACWF\", \"fund_name\": \"iShares Edge MSCI Multifactor Global ETF\", \"rating\": 3, \"morningstar_category\": \"World Large Stock\", \"category\": \"Equity\", \"family\": \"iShares\", \"market_cap\": \"large\", \"description\": \"The investment seeks to track the investment results of the MSCI ACWI Diversified Multiple-Factor Index.\n\n The fund generally will invest at least 90% of its assets in the component securities of the underlying index and in investments that have economic characteristics that are substantially identical to the component securities of the underlying index. The underlying index is designed to contain equity securities from the MSCI ACWI Index (the \"parent index\") that have high exposure to four investment style factors: value, quality, momentum and low size, while maintaining a level of risk similar to that of the parent index.\", \"exchange\": \"NYSE Arca\" }"
```

Example Request - index_cf_etf_doc_acwi

POST http://localhost:9200/cf_etf/_doc

HEADERS

Content-Type

application/json

BODY

```
{
  "symbol": "ACWI",
  "fund_name": "iShares MSCI ACWI ETF",
  "rating": 3,
  "morningstar_category": "World Large Stock",
  "category": "International",
  "family": "iShares",
  "market_cap": "large",
  "description": "The investment seeks to track the investment results of the MSCI ACWI composed of large- and mid-capitalization developed and emerging market equities.\\n The fund generally will invest at least 90% of its assets in the component securities of the underlying index and in investments that have economic characteristics that are substantially identical to the component securities of the underlying index. The index is a free float-adjusted market capitalization index designed to measure the combined equity market performance of developed and emerging markets countries.",
  "exchange": "NASDAQ Global Market"
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_doc" --header "Content-Type: application/json" --data "{ \"symbol\": \"ACWI\", \"fund_name\": \"iShares MSCI ACWI ETF\", \"rating\": 3, \"morningstar_category\": \"World Large Stock\", \"category\": \"International\", \"family\": \"iShares\", \"market_cap\": \"large\", \"description\": \"The investment seeks to track the investment results of the MSCI ACWI composed of large- and mid-capitalization developed and emerging market equities.\\\\ The fund generally will invest at least 90% of its assets in the component securities of the underlying index and in investments that have economic characteristics that are substantially identical to the component securities of the underlying index. The index is a free float-adjusted market capitalization index designed to measure the combined equity market performance of developed and emerging markets countries.\", \"exchange\": \"NASDAQ Global Market\" }"
```

Example Request - get_cf_etf_doc_acwi

GET http://localhost:9200/cf_etf/_doc/1

HEADERS

Content-Type
application/json

```
curl --location --request GET "http://localhost:9200/cf_etf/_doc/1" --header "Content-Type: application/json"
```

Example Request - get_cf_etf_parital_doc_acwf

GET http://localhost:9200/cf_etf/_doc/1?_source=symbol,rating,category

HEADERS

Content-Type

application/json

PARAMS

_source
symbol,rating,category

```
curl --location --request GET  
"http://localhost:9200/cf_etf/_doc/1?_source=symbol,rating,category" --header  
"Content-Type: application/json"
```

Example Request - update_cf_etf_doc_acwf

POST http://localhost:9200/cf_etf/_doc/1/_update

HEADERS

Content-Type
application/json

BODY

```
{  
  "doc": {  
    "market_cap": "mid"  
  }  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_doc/1/_update" --header  
"Content-Type: application/json" --data "{ \"doc\": { \"market_cap\": \"mid\" } }"
```

Example Request - update_cf_etf_doc_acwf_remove_market_cap_field

POST http://localhost:9200/cf_etf/_doc/1/_update

HEADERS

Content-Type
application/json

BODY

```
{  
  "script": "ctx._source.remove('market_cap')"  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_doc/1/_update" --header  
"Content-Type: application/json" --data "{ \"script\":  
\"ctx._source.remove('market_cap')\" }"
```

Example Request - delete_cf_etf_doc_acwf_by_id

DEL http://localhost:9200/cf_etf/_doc/1

HEADERS

Content-Type
application/json

BODY

```
{
  "symbol": "ACWF",
  "fund_name": "iShares Edge MSCI Multifactor Global ETF",
  "rating": 3,
  "morningstar_category": "World Large Stock",
  "category": "Equity",
  "family": "iShares",
  "market_cap": "large",
  "description": "The investment seeks to track the investment results of the MSCI ACWI Diversified Multiple-Factor Index.\\n The fund generally will invest at least 90% of its assets in the component securities of the underlying index and in investments that have economic characteristics that are substantially identical to the component securities of the underlying index. The underlying index is designed to contain equity securities from the MSCI ACWI Index (the \\\"parent index\\\") that have high exposure to four investment style factors: value, quality, momentum and low size, while maintaining a level of risk similar to that of the parent index.",
  "exchange": "NYSE Arca"
}
```

```
curl --location --request DELETE "http://localhost:9200/cf_etf/_doc/1" --header "Content-Type: application/json" --data '{ \"symbol\": \"ACWF\", \"fund_name\": \"iShares Edge MSCI Multifactor Global ETF\", \"rating\": 3, \"morningstar_category\": \"World Large Stock\", \"category\": \"Equity\", \"family\": \"iShares\", \"market_cap\": \"large\", \"description\": \"The investment seeks to track the investment results of the MSCI ACWI Diversified Multiple-Factor Index.\\\"\\\" The fund generally will invest at least 90% of its assets in the component securities of the underlying index and in investments that have economic characteristics that are substantially identical to the component securities of the underlying index. The underlying index is designed to contain equity securities from the MSCI ACWI Index (the \\\"\\\"\\\"\\\"parent index\\\"\\\"\\\"\\\") that have high exposure to four investment style factors: value, quality, momentum and low size, while maintaining a level of risk similar to that of the parent index.\", \"exchange\": \"NYSE Arca\" }'
```

Example Request - reindex_cf_etf_doc_acwf

[PUT http://localhost:9200/cf_etf/_doc/1](http://localhost:9200/cf_etf/_doc/1)

HEADERS

Content-Type
application/json

BODY

```
{
  "symbol": "ACWF",
  "fund_name": "iShares Edge MSCI Multifactor Global ETF",
  "rating": 3,
  "morningstar_category": "World Large Stock",
  "category": "Equity",
  "family": "iShares",
}
```

```

    "market_cap": "large",
    "description": "The investment seeks to track the investment results of the MSCI ACWI Diversified Multiple-Factor Index.\\n The fund generally will invest at least 90% of its assets in the component securities of the underlying index and in investments that have economic characteristics that are substantially identical to the component securities of the underlying index. The underlying index is designed to contain equity securities from the MSCI ACWI Index (the \\\"parent index\\\") that have high exposure to four investment style factors: value, quality, momentum and low size, while maintaining a level of risk similar to that of the parent index.",
    "exchange": "NYSE Arca"
}

```

```

curl --location --request PUT "http://localhost:9200/cf_etf/_doc/1" --header "Content-Type: application/json" --data "{ \"symbol\": \"ACWF\", \"fund_name\": \"iShares Edge MSCI Multifactor Global ETF\", \"rating\": 3, \"morningstar_category\": \"World Large Stock\", \"category\": \"Equity\", \"family\": \"iShares\", \"market_cap\": \"large\", \"description\": \"The investment seeks to track the investment results of the MSCI ACWI Diversified Multiple-Factor Index.\\\" The fund generally will invest at least 90% of its assets in the component securities of the underlying index and in investments that have economic characteristics that are substantially identical to the component securities of the underlying index. The underlying index is designed to contain equity securities from the MSCI ACWI Index (the \\\"\\\"parent index\\\"\\\") that have high exposure to four investment style factors: value, quality, momentum and low size, while maintaining a level of risk similar to that of the parent index.\", \"exchange\": \"NYSE Arca\" }"

```

Example Request - get_cf_etf_multiple_documents

POST http://localhost:9200/_mget

HEADERS

Content-Type
application/json

BODY

```

{
  "docs": [
    { "_index": "cf_view", "_id": "1", "_source": { "symbol", "category" } },
    { "_index": "cf_etf", "_id": "1", "_source": { "symbol", "category" } }
  ]
}

```

```

curl --location --request POST "http://localhost:9200/_mget" --header "Content-Type: application/json" --data "{ \"docs\": [ {\"_index\": \"cf_view\", \"_id\": \"1\", \"_source\": [\"symbol\", \"category\"]}, {\"_index\": \"cf_etf\", \"_id\": \"1\", \"_source\": [\"symbol\", \"category\"]} ] }"

```

Example Request - get_cf_etf_multiple_documents_by_ids

POST http://localhost:9200/cf_etf/_mget

HEADERS

Content-Type
application/json

BODY

```
{
  "ids": ["1", "n01iLGkB_W0hQaVaF0iP"]
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_mget" --header "Content-Type: application/json" --data '{"ids": ["1", "n01iLGkB_W0hQaVaF0iP"]}'
```

Example Request - bulk_api

POST http://localhost:9200/_bulk

HEADERS

Content-Type
application/json

BODY

```
{
  "delete": { "_index": "cf_etf", "_id": "1" },
  "create": { "_index": "cf_etf", "_id": "1" },
  "symbol": "ACWF", "fund_name": "iShares Edge MSCI Multifactor Global ETF", "rating": 3, "morningstar_category": "World Large Stock", "category": "Equity", "family": "iShares", "market_cap": "large", "description": "The investment seeks to track the investment results of the MSCI ACWI Diversified Multiple-Factor Index.\\n\\n The fund generally will invest at least 90% of its assets in the component securities of the underlying index and in investments that have economic characteristics that are substantially identical to the component securities of the underlying index. The underlying index is designed to contain equity securities from the MSCI ACWI Index (the \\\"parent index\\\") that have high exposure to four investment style factors: value, quality, momentum and low size, while maintaining a level of risk similar to that of the parent index.", "exchange": "NYSE Arca" },
  "update": { "_index": "cf_etf", "_type": "_doc", "_id": "1" },
  "script": "ctx._source.remove('market_cap')"
}
```

```
curl --location --request POST "http://localhost:9200/_bulk" --header "Content-Type: application/json" --data '{"delete": {"_index": "cf_etf", "_id": "1"}, "create": {"_index": "cf_etf", "_id": "1"}, "symbol": "ACWF", "fund_name": "iShares Edge MSCI Multifactor Global ETF", "rating": 3, "morningstar_category": "World Large Stock", "category": "Equity", "family": "iShares", "market_cap": "large", "description": "The investment seeks to track the investment results of the MSCI ACWI Diversified Multiple-Factor Index.\\n\\n The fund generally will invest at least 90% of its assets in the component securities of the underlying index and in investments that have economic characteristics that are substantially identical to the component securities of the underlying index. The underlying index is designed to contain equity securities from the MSCI ACWI Index (the \\\"parent index\\\") that have high exposure to four investment style factors: value, quality, momentum and low size, while maintaining a level of risk similar to that of the parent index.", "exchange": "NYSE Arca"}, "update": {"_index": "cf_etf", "_type": "_doc", "_id": "1"}, "script": "ctx._source.remove('market_cap')"}'
```

Example Request - update_by_query

POST http://localhost:9200/cf_etf/_update_by_query

HEADERS

Content-Type
application/json

BODY

```
{"script": "if (ctx._source['rating']==3) {ctx._source['rating']=4}"}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_update_by_query" --header "Content-Type: application/json" --data '{"script": "if (ctx._source[\'rating\']==3) {ctx._source[\'rating\']=4}"'}
```

Example Request - delete_by_query

POST http://localhost:9200/cf_etf/_delete_by_query?conflicts=proceed

HEADERS

Content-Type
application/json

PARAMS

conflicts
proceed

BODY

```
{"query": {"match": {"rating": 4}}}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_delete_by_query?conflicts=proceed" --header "Content-Type: application/json" --data '{"query": {"match": {"rating": 4}}}'
```

Example Request - reindex_api

POST http://localhost:9200/_reindex

HEADERS

Content-Type
application/json

BODY

```
{
  "source": {"index": "cf_view"},
  "dest": {"index": "cf_etf"}
}
```

```
curl --location --request POST "http://localhost:9200/_reindex" --header "Content-Type: application/json" --data '{"source\": {"index\":"cf_view\"}, \"dest\": {"index\": \"cf_etf\"}}'
```

CHAPTER3