chapter3

PUT index_cf_etf_doc_acwf

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

HEADERS

Content-Type
application/json
BODY

```json
{
        "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"
}
```

Example Request
index_cf_etf_doc_acwf

```
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\"
}"
```

POST index_cf_etf_doc_acwi

http://localhost:9200/cf_etf/_doc

HEADERS

Content-Type
application/json
BODY

```json
{
        "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"
}
```

Example Request
index_cf_etf_doc_acwi

```
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\" }"
```

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

HEADERS

Content-Type
application/json

Example Request
get_cf_etf_doc_acwi

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

GET get_cf_etf_parital_doc_acwf
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"
```

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

HEADERS

Content-Type
application/json
BODY

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

Example Request
update_cf_etf_doc_acwf

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

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

HEADERS

Content-Type
application/json
BODY

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

Example Request
update_cf_etf_doc_acwf_remove_market_cap_field

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

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

HEADERS

Content-Type
application/json

BODY

```json
{
        "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"
}
```

Example Request
delete_cf_etf_doc_acwf_by_id

```
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\"
}"
```

PUT reindex_cf_etf_doc_acwf

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

HEADERS

Content-Type
application/json
BODY

```json
{
        "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"
}
```

Example Request
reindex_cf_etf_doc_acwf

```
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\"
}"
```

POST get_cf_etf_multiple_documents

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"]}
        ]
}
```

Example Request
get_cf_etf_multiple_documents

```
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\"]} ] }"
```

POST get_cf_etf_multiple_documents_by_ids

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\"] }"
```

POST bulk_api

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 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\"}}\n{\"create\":
{\"_index\":\"cf_etf\", \"_id\":\"1\"}}\n{\"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\"}\n{\"update\": {\"_index\":\"cf_etf\", \"_type\":\"_doc\",
\"_id\":\"1\"}}\n{\"script\":\"ctx._source.remove(\'market_cap\')\"}\n'
```

POST update_by_query

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}\"}'
```

POST delete_by_query

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}}}"
```

POST reindex_api

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