

# Chapter 6 – Search APIs

## Example Request - count\_etf\_list\_bulk\_indexed\_doc

**POST** http://localhost:9200/cf\_etf/\_count

### HEADERS

Content-Type  
application/json

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

## Example Request - search\_within\_cf\_etf

**POST** http://localhost:9200/cf\_etf/\_search

### HEADERS

Content-Type  
application/json

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

## Example Request - search\_within\_cf\_etf\_cf\_view

**POST** http://localhost:9200/cf\_etf,cf\_view/\_search

### HEADERS

Content-Type  
application/json

```
curl --location --request POST "http://localhost:9200/cf_etf,cf_view/_search" --header  
"Content-Type: application/json"
```

## Example Request - search\_within\_all\_indices

**POST** http://localhost:9200/\_search

### HEADERS

Content-Type  
application/json

```
curl --location --request POST "http://localhost:9200/_search" --header "Content-Type: application/json"
```

### Example Request - search\_cf\_etf\_from\_size\_sort\_source\_false

**POST** http://localhost:9200/cf\_etf/\_search?from=2&size=2&sort=symbol:asc&\_source=false

#### HEADERS

Content-Type  
application/json

#### PARAMS

from  
2  
size  
2  
sort  
symbol:asc  
\_source  
false

```
curl --location --request POST  
"http://localhost:9200/cf_etf/_search?from=2&size=2&sort=symbol:asc&_source=false" --  
header "Content-Type: application/json"
```

### Example Request - search\_cf\_etf\_sort\_score

**POST** http://localhost:9200/cf\_etf/\_search?q=fund\_name:ishares edge global&from=2&size=2&sort=\_score:asc

#### HEADERS

Content-Type  
application/json

#### PARAMS

q  
fund\_name:ishares edge global  
from  
2  
size  
2  
sort  
\_score:asc

```
curl --location --request POST  
"http://localhost:9200/cf_etf/_search?q=fund_name:ishares%20edge%20global&from=2&size=2&sort=_score:asc" --header "Content-Type: application/json"
```

### Example Request - search\_query\_default\_operator

## POST search\_query\_default\_operator

`http://localhost:9200/cf_etf/_search?q=fund_name:ishares edge global&default_operator=AND`

### HEADERS

Content-Type  
application/json

### PARAMS

q  
fund\_name:ishares edge global  
default\_operator  
AND

```
curl --location --request POST
"http://localhost:9200/cf_etf/_search?q=fund_name:ishares%20edge%20global&default_operator=AND" --header "Content-Type: application/json"
```

## Example Request - search\_query\_default\_operator\_explain

**POST** `http://localhost:9200/cf_etf/_search?q=fund_name:ishares edge global&default_operator=AND&explain=true`

### HEADERS

Content-Type  
application/json

### PARAMS

q  
fund\_name:ishares edge global  
default\_operator  
AND  
explain  
true

```
curl --location --request POST
"http://localhost:9200/cf_etf/_search?q=fund_name:ishares%20edge%20global&default_operator=AND&explain=true" --header "Content-Type: application/json"
```

## Example Request - search\_query\_keyword\_analyzer

**POST** `http://localhost:9200/cf_etf/_search?q=fund_name:ishares edge global&default_operator=AND&analyzer=keyword`

### HEADERS

Content-Type  
application/json

### PARAMS

q  
fund\_name:ishares edge global  
default\_operator

AND  
analyzer  
keyword

```
curl --location --request POST  
"http://localhost:9200/cf_etf/_search?q=fund_name:ishares%20edge%20global&default_oper  
ator=AND&analyzer=keyword" --header "Content-Type: application/json" --data ""
```

### Example Request - request\_body\_search\_fund\_name\_w\_3\_words

**POST** http://localhost:9200/cf\_etf/\_search

HEADERS  
Content-Type  
application/json

BODY

```
{  
  "query": {  
    "query_string": {  
      "query": "fund_name:ishares edge global",  
      "default_operator": "AND"  
    }  
  }  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header  
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":  
\"fund_name:ishares edge global\", \"default_operator\": \"AND\" } } }"
```

### Example Request. - request\_body\_search\_from\_size\_sort\_source\_false

**POST** request\_body\_search\_from\_size\_sort\_source\_false  
http://localhost:9200/cf\_etf/\_search

HEADERS  
Content-Type  
application/json

BODY

```
{  
  "from":2,  
  "size":2,  
  "sort":{"symbol":"asc"},  
  "_source":false  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header  
"Content-Type: application/json" --data "{ \"from\":2, \"size\":2,  
\"sort\":{\"symbol\":\"asc\"}, \"_source\":false }"
```

### Example Request - request\_body\_search\_sort\_rating\_symbol

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "query_string": {
      "query": "fund_name:ishares edge msci",
      "default_operator": "AND"
    }
  },
  "sort": {"rating": "desc", "symbol": "asc"}
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"fund_name:ishares edge msci\", \"default_operator\": \"AND\" } },
\"sort\":{\"rating\": \"desc\", \"symbol\": \"asc\"} }"
```

### Example Request - search\_query\_scroll\_1

**POST** http://localhost:9200/cf\_etf/\_search?scroll=10m

#### HEADERS

Content-Type  
application/json

#### PARAMS

scroll  
10m

#### BODY

```
{
  "size": 313
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search?scroll=10m" --
header "Content-Type: application/json" --data "{ \"size\": 313 }"
```

### Example Request - search\_query\_scroll\_2

**POST** http://localhost:9200/\_search/scroll

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "scroll": "10m",
  "scroll_id": "DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAAANQWNWdUemoybmFSOUNvM3gwQkRZT0xBQQ=="
}
```

```
curl --location --request POST "http://localhost:9200/_search/scroll" --header
"Content-Type: application/json" --data "{ \"scroll\": \"10m\", \"scroll_id\":
\\\"DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAAANQWNWdUemoybmFSOUNvM3gwQkRZT0xBQQ==\\\" }"
```

### Example Request - search\_query\_scroll\_3

**POST** http://localhost:9200/\_search/scroll

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "scroll": "10m",
  "scroll_id": "DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAAANQWNWdUemoybmFSOUNvM3gwQkRZT0xBQQ=="
}
```

```
curl --location --request POST "http://localhost:9200/_search/scroll" --header
"Content-Type: application/json" --data "{ \"scroll\": \"10m\", \"scroll_id\":
\\\"DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAAANQWNWdUemoybmFSOUNvM3gwQkRZT0xBQQ==\\\" }"
```

### Example Request - delete\_scroll context

**DEL** http://localhost:9200/\_search/scroll

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "scroll_id":
[ "DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAAANQWNWdUemoybmFSOUNvM3gwQkRZT0xBQQ==" ]
}
```

```
curl --location --request DELETE "http://localhost:9200/_search/scroll" --header
"Content-Type: application/json" --data "{ \"scroll_id\":
[\\\"DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAAANQWNWdUemoybmFSOUNvM3gwQkRZT0xBQQ==\\\"] }"
```

### Example Request request\_body\_search\_after

**POST** [http://localhost:9200/cf\\_etf/\\_search](http://localhost:9200/cf_etf/_search)

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "size":2,
  "sort": {
    "rating":"desc",
    "symbol":"asc"
  },
  "search_after": [5, "EES"]
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"size\":2, \"sort\":
{ \"rating\": \"desc\", \"symbol\": \"asc\" }, \"search_after\": [5, \"EES\"] }"
```

### Example Request - request\_body\_search\_rescore\_original

#### **POST** request\_body\_search\_rescore\_original

[http://localhost:9200/cf\\_etf/\\_search](http://localhost:9200/cf_etf/_search)

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "query_string": {
      "query": "description:emerging non-diversified high-yield gobal
dividend",
      "analyzer":"description_analyzer"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"description:emerging non-diversified high-yield gobal dividend\",
\"analyzer\": \"description_analyzer\" } } }"
```

### Example Request - request\_body\_search\_rescore

**POST** [http://localhost:9200/cf\\_etf/\\_search](http://localhost:9200/cf_etf/_search)

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "query_string": {
      "query": "description:emerging non-diversified high-yield gobal dividend",
      "analyzer": "description_analyzer"
    },
    "rescore": {
      "window_size": 500,
      "query": {
        "rescore_query": {
          "query_string": {
            "query": "description:global",
            "analyzer": "description_analyzer"
          }
        },
        "query_weight" : 0.1,
        "rescore_query_weight" : 0.9
      }
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"description:emerging non-diversified high-yield gobal dividend\",
\"analyzer\": \"description_analyzer\" } }, \"rescore\": { \"window_size\": 500,
\"query\": { \"rescore_query\": { \"query_string\":
{ \"query\": \"description:global\", \"analyzer\": \"description_analyzer\" } },
\"query_weight\" : 0.1, \"rescore_query_weight\" : 0.9 } } }"
```

#### Example Request - request\_body\_search\_rescore\_mode

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "query_string": {
      "query": "description:emerging non-diversified high-yield gobal",
      "analyzer": "description_analyzer"
    },
    "rescore": {
      "window_size": 100,
```



```

        "query": {
          "rescore_query": {
            "query_string": {
              "query": "description:global",
              "analyzer": "description_analyzer"
            }
          },
          "score_mode": "avg"
        }
      }
    }
  }
}

```

```

curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"description:emerging non-diversified high-yield gobal\",
\"analyzer\": \"description_analyzer\" } }, \"rescore\": { \"window_size\": 100,
\"query\": { \"rescore_query\": { \"query_string\":
{ \"query\": \"description:global\", \"analyzer\": \"description_analyzer\" } },
\"score_mode\": \"avg\" } } }"

```

### Example Request - request\_body\_search\_script\_evaluate\_doc

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```

{
  "query": {
    "query_string": {
      "query": "description:emerging non-diversified high-yield gobal",
      "analyzer": "description_analyzer"
    }
  },
  "script_fields": {
    "test": {
      "script": "doc['symbol']"
    }
  }
}

```

```

curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"description:emerging non-diversified high-yield gobal\",
\"analyzer\": \"description_analyzer\" } }, \"script_fields\": { \"test\":
{ \"script\": \"doc['symbol']\" } } }"

```

### Example Request - request\_body\_search\_script\_evaluation\_source

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "query_string": {
      "query": "description:emerging non-diversified high-yield gobal",
      "analyzer": "description_analyzer"
    }
  },
  "script_fields": {
    "test": {
      "script": "doc['symbol']"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\\\"description:emerging non-diversified high-yield gobal\\\",
\\\"analyzer\\\":\\\"description_analyzer\\\" } }, \\\"script_fields\\\": { \\\"test\\\":
{ \\\"script\\\": \\\"doc['symbol']\\\" } } }"
```

### Example Request - request\_body\_search\_named\_queries

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "bool": {
      "should": [
        { "query_string": {
          "_name": "Asia",
          "query": "description:asia",
          "analyzer": "description_analyzer"
        } },
        { "query_string": {
          "_name": "usa",
          "query": "description:usa",
          "analyzer": "description_analyzer"
        } },
        { "query_string": {
          "_name": "europe",
          "query": "description:europe",
          "analyzer": "description_analyzer"
        } }
      ]
    }
  }
}
```

```
}  
}  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header  
"Content-Type: application/json" --data "{ \"query\": { \"bool\":  
{ \"should\": [ { \"query_string\": { \"_name\": \"Asia\", \"query\":  
\"description:asia\", \"analyzer\": \"description_analyzer\" } }, { \"query_string\":  
{ \"_name\": \"usa\", \"query\": \"description:usa\",  
\"analyzer\": \"description_analyzer\" } }, { \"query_string\": { \"_name\": \"europe\",  
\"query\": \"description:europe\", \"analyzer\": \"description_analyzer\" } } ] } } }
```

### Example Request - request\_body\_search\_field\_collapse

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{  
  "query": {  
    "range": { "rating": { "gte": 4 } }  
  },  
  "collapse" : {  
    "field": "rating"  
  }  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header  
"Content-Type: application/json" --data "{ \"query\": { \"range\":  
{ \"rating\": { \"gte\": 4 } } }, \"collapse\" : { \"field\": \"rating\" } } }
```

### Example Request - multi\_search\_api

**POST** http://localhost:9200/cf\_etf/\_msearch

#### HEADERS

Content-Type  
application/json

#### BODY

```
{ "index": "cf_etf" }  
{ "query": { "bool": { "must_not": { "exists": { "field": "rating" } } } } }  
{ "index": "cf_view" }  
{ "query": { "bool": { "must_not": { "exists": { "field": "rating" } } } } }
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_msearch" --header  
"Content-Type: application/json" --data '$'{ \"index\": \"cf_etf\" } \n { \"query\":
```

```
{\"bool\":{\"must_not\":{\"exists\":{\"field\":\"rating\"}}}}\n{\"index\":\"cf_view\"\n}\n{\"query\": {\"bool\":{\"must_not\":{\"exists\":{\"field\":\"rating\"}}}}\n'
```

### Example Request - highlighting

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "bool": {
      "should": [
        { "query_string": {
          "query": "description:asia",
          "analyzer": "description_analyzer"
        } },
        { "query_string": {
          "query": "description:usa",
          "analyzer": "description_analyzer"
        } },
        { "query_string": {
          "query": "description:europe",
          "analyzer": "description_analyzer"
        } }
      ]
    }
  },
  "highlight": {
    "fields": {
      "description": {}
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\":
{ \"should\": [ {\"query_string\": { \"query\": \"description:asia\",
\\analyzer\\\": \"description_analyzer\" }}, {\"query_string\": { \"query\":
\\description:usa\", \\analyzer\\\": \"description_analyzer\" }}, {\"query_string\":
{ \"query\": \"description:europe\", \\analyzer\\\": \"description_analyzer\" } } ] } },
\\highlight\": { \\fields\": { \\description\": {} } } }
```

### Example Request - highlighting\_number\_of\_fragments\_0

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

BODY

```
{
  "query": {
    "bool": {
      "must": [
        {"match": {"description": "index"}}
      ]
    },
    "highlight": {
      "fields": {
        "description": {"number_of_fragments": 0}
      }
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\":
{ \"must\": [ {\"match\": {\"description\": \"index\"}} ] } }, \"highlight\":
{ \"fields\": { \"description\": {\"number_of_fragments\": 0} } } }"
```

### Example Request - highlighting\_fragment\_size\_20

**POST** http://localhost:9200/cf\_etf/\_search

HEADERS

Content-Type  
application/json

BODY

```
{
  "query": {
    "bool": {
      "must": [
        {"match": {"description": "index"}}
      ]
    },
    "highlight": {
      "fields": {
        "description": {"fragment_size": 20}
      }
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\":
{ \"must\": [ {\"match\": {\"description\": \"index\"}} ] } }, \"highlight\":
{ \"fields\": { \"description\": {\"fragment_size\": 20} } } }"
```

### Example Request - highlighting\_no\_match\_size\_20

**POST** http://localhost:9200/cf\_etf/\_search

HEADERS

Content-Type  
application/json

BODY

```
{
  "query": {
    "bool": {
      "should": [
        {"match": {"description": "asia"}},
        {"match": {"fund_name": "global"}}
      ]
    },
    "highlight": {
      "no_match_size": 20,
      "fields": {
        "description": {}
      }
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\":
{ \"should\": [ {\"match\": {\"description\": \"asia\"}},
{\"match\": {\"fund_name\": \"global\"}} ] } }, \"highlight\": { \"no_match_size\": 20,
\"fields\": { \"description\": {} } } }"
```

**Example Request - highlighting\_highlight\_fields\_unordered**

**POST** http://localhost:9200/cf\_etf/\_search

HEADERS

Content-Type  
application/json

BODY

```
{
  "query": {
    "multi_match": {
      "query": "asia",
      "fields": ["fund_name", "description"]
    }
  },
  "highlight": {
    "fields": {
      "fund_name": {},
      "description": {}
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"multi_match\": { \"query\":
\"asia\", \"fields\": [\"fund_name\", \"description\"] } }, \"highlight\":
{ \"fields\":{ \"fund_name\":{}, \"description\":{} } } }"
```

### Example Request - highlighting\_highlight\_field\_order\_score

POST http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "match": {"description":"index"}
  },
  "highlight": {
    "number_of_fragments" : 3,
    "fragment_size":20,
    "order":"score",
    "fields":{
      "description":{}
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"match\":
{\"description\":\"index\"} }, \"highlight\": { \"number_of_fragments\" : 3,
\"fragment_size\":20, \"order\":\"score\", \"fields\":{ \"description\":{} } } }"
```

### Example Request - highlighting\_multi\_match

POST http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "multi_match": {
      "query": "asia",
      "fields": ["fund_name", "description"]
    }
  },
  "highlight": {
    "fields":[
      {"fund_name":{}},
      {"description":{}}
    ]
  }
}
```

```
}  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header  
"Content-Type: application/json" --data "{ \"query\": { \"multi_match\": { \"query\":  
\"asia\", \"fields\": [\"fund_name\", \"description\"] } }, \"highlight\":  
{ \"fields\": [ {\"fund_name\":{}}, {\"description\":{}} ] } }"
```

### Example Request - highlighting\_fragmenter\_plain\_span

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{  
  "query": {  
    "match_phrase": {  
      "description": "NASDAQ US Benchmark"  
    }  
  },  
  "highlight": {  
    "type": "plain",  
    "fragmenter": "span",  
    "fields": {  
      "description": {}  
    }  
  }  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header  
"Content-Type: application/json" --data "{ \"query\":  
{ \"match_phrase\": { \"description\": \"NASDAQ US Benchmark\" } }, \"highlight\":  
{ \"type\": \"plain\", \"fragmenter\": \"span\", \"fields\": { \"description\": {} } } }"
```

### Example Request - highlighting\_require\_field\_match\_false

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{  
  "query": {  
    "bool": {  
      "should": [  
        { "match": { "description": "asia" } },  
        { "match": { "fund_name": "global" } }  
      ]  
    }  
  }  
}
```



```

    ]
  },
  "highlight": {
    "require_field_match": false,
    "fields": {
      "description": {}
    }
  }
}

```

```

curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\":
{ \"should\": [ { \"match\": { \"description\": \"asia\" } },
{ \"match\": { \"fund_name\": \"global\" } } ] } }, \"highlight\":
{ \"require_field_match\": false, \"fields\": { \"description\": {} } } }"

```

### Example Request - highlighting\_tags\_schema

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```

{
  "query": {
    "bool": {
      "should": [
        { "query_string": {
          "query": "description:asia",
          "analyzer": "description_analyzer"
        } },
        { "query_string": {
          "query": "description:usa",
          "analyzer": "description_analyzer"
        } },
        { "query_string": {
          "query": "description:europe",
          "analyzer": "description_analyzer"
        } }
      ]
    }
  },
  "highlight": {
    "tags_schema": "styled",
    "fields": {
      "symbol": {},
      "description": {}
    }
  }
}

```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\":
{ \"should\": [ { \"query_string\": { \"query\": \"description:asia\",
\"analyzer\": \"description_analyzer\" } }, { \"query_string\": { \"query\":
\"description:usa\", \"analyzer\": \"description_analyzer\" } }, { \"query_string\":
{ \"query\": \"description:europe\", \"analyzer\": \"description_analyzer\" } } ] } },
\"highlight\": { \"tags_schema\": \"styled\", \"fields\": { \"symbol\": {},
\"description\": {} } } } }
```

### Example Request - highlighting\_boundary\_scanner

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "multi_match": {
      "query": "pacific",
      "fields": ["description", "fund_name"]
    }
  },
  "highlight": {
    "boundary_scanner_locale": "en-US",
    "fields": {
      "description": { "boundary_scanner" : "sentence" },
      "fund_name": { "boundary_scanner" : "word" }
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"multi_match\": { \"query\":
\"pacific\", \"fields\": [\"description\", \"fund_name\"] } }, \"highlight\":
{ \"boundary_scanner_locale\": \"en-US\",
\"fields\": { \"description\": { \"boundary_scanner\" : \"sentence\" }, \"fund_name\":
{ \"boundary_scanner\" : \"word\" } } } }
```

### Example Request - match\_query\_or

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "match": {
```

```

        "fund_name": {
          "query": "ishares global"
        }
      }
    }
  }
}

```

```

curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"match\": { \"fund_name\":
{ \"query\": \"ishares global\" } } } }"

```

### Example Request - match\_query\_and

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```

{
  "query": {
    "match": {
      "fund_name": {
        "query": "ishares global",
        "operator": "and"
      }
    }
  }
}

```

```

curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"match\": { \"fund_name\":
{ \"query\": \"ishares global\", \"operator\": \"and\" } } } }"

```

### Example Request - match\_query\_fuzziness\_2

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```

{
  "query": {
    "match": {
      "fund_name": {
        "query": "ishares global",
        "operator": "and",
        "fuzziness": 2
      }
    }
  }
}

```

```
}  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header  
"Content-Type: application/json" --data "{ \"query\": { \"match\": { \"fund_name\":  
{ \"query\": \"ishares global\", \"operator\": \"and\", \"fuzziness\": 2 } } } }"
```

### Example Request - match\_query\_zero\_terms\_query\_all

GET http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{  
  "query": {  
    "match": {  
      "fund_name": {  
        "query": "to be",  
        "zero_terms_query": "all"  
      }  
    }  
  }  
}
```

```
curl --location --request GET "http://localhost:9200/cf_etf/_search" --header  
"Content-Type: application/json" --data "{ \"query\": { \"match\": { \"fund_name\":  
{ \"query\": \"to be\", \"zero_terms_query\": \"all\" } } } }"
```

### Example Request - match\_query\_cutoff\_frequency\_10

POST match\_query\_cutoff\_frequency\_10

http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{  
  "query": {  
    "match": {  
      "fund_name": {  
        "query": "usa global emerging",  
        "cutoff_frequency": 10  
      }  
    }  
  }  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"match\": { \"fund_name\":
{ \"query\": \"usa global emerging\", \"cutoff_frequency\": 10 } } } }"
```

### Example Request - match\_phrase\_query

#### POST match\_phrase\_query

http://localhost:9200/cf\_etf/\_search

##### HEADERS

Content-Type  
application/json

##### BODY

```
{
  "query": {
    "match_phrase": {
      "fund_name": {
        "query": "iShares MSCI ACWI ETF"
      }
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"match_phrase\":
{ \"fund_name\": { \"query\": \"iShares MSCI ACWI ETF\" } } } }"
```

### Example Request - match\_phrase\_query\_prefix

#### POST http://localhost:9200/cf\_etf/\_search

##### HEADERS

Content-Type  
application/json

##### BODY

```
{
  "query": {
    "match_phrase_prefix": {
      "description": {
        "query": "The investment seeks to track"
      }
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"match_phrase_prefix\":
{ \"description\": { \"query\": \"The investment seeks to track\" } } } }"
```

### Example Request - query\_string\_colon\_character

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "query_string": {
      "query": "fund_name:ishares"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"fund_name:ishares\" } } }"
```

### Example Request - query\_string\_grouping

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "query_string": {
      "query": "fund_name:(usa || asia)"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"fund_name:(usa || asia)\" } } }"
```

### Example Request - query\_string\_boolean\_characters

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

BODY

```
{
  "query": {
    "query_string": {
      "query": "fund_name:((usa || asia) && emerging && ! global)"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\\\"fund_name:((usa || asia) && emerging && ! global)\\\" } } }"
```

### Example Request - query\_string\_boolean\_op

**POST** http://localhost:9200/cf\_etf/\_search

HEADERS

Content-Type  
application/json

BODY

```
{
  "query": {
    "query_string": {
      "query": "rating:>=4"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\\\"rating:>=4\\\" } } }"
```

### Example Request - query\_string\_wildcard

**POST** http://localhost:9200/cf\_etf/\_search

HEADERS

Content-Type  
application/json

BODY

```
{
  "query": {
    "query_string": {
      "query": "symbol:ACW*"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\\\"symbol:ACW*\\\" } } }"
```

### Example Request - query\_string\_exact\_phrase

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "query_string": {
      "query": "fund_name:\\\"iShares MSCI ACWI ETF\\\""
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\\\"fund_name:\\\"iShares MSCI ACWI ETF\\\"\\\" } } }"
```

### Example Request - query\_string\_fuzziness

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "query_string": {
      "query": "fund_name:(ishares~ && global~)"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\\\"fund_name:(ishares~ && global~)\\\" } } }"
```

### Example Request - query\_string\_regex

**POST** http://localhost:9200/cf\_etf/\_search



#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "query_string": {
      "query": "symbol://ACW?//"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"symbol://ACW?//\" } } }"
```

### Example Request - query\_string\_boosting

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "query_string": {
      "query": "fund_name:(ishares global^2)"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data
${'\\"query\":{\\"query_string\":{\\"query\":\\"fund_name:(ishares global^2)\\\"}}}'
```

### Example Request - query\_string\_range\_query

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "sort": {"rating": "desc"},
  "query": {
    "query_string": {
      "query": "rating:[1 TO 3]"
    }
  }
}
```

```
}  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header  
"Content-Type: application/json" --data "{ \"sort\":{\"rating\": \"desc\"}, \"query\":  
{ \"query_string\": { \"query\": \"rating:[1 TO 3]\" } } }"
```

### Example Request - query\_string\_multiple\_fields

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{  
  "sort": {"rating": "desc"},  
  "query": {  
    "query_string": {  
      "fields": ["fund_name", "description"],  
      "query": "emerging"  
    }  
  }  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header  
"Content-Type: application/json" --data "{ \"sort\":{\"rating\": \"desc\"}, \"query\":  
{ \"query_string\": { \"fields\": [\"fund_name\", \"description\"], \"query\":  
\"emerging\" } } }"
```

### Example Request - simple\_query\_string\_boolean\_AND

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{  
  "sort": {"rating": "desc"},  
  "query": {  
    "simple_query_string": {  
      "fields": ["fund_name"],  
      "query": "ishares + global"  
    }  
  }  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\": \"desc\"}, \"query\":
{ \"simple_query_string\": { \"fields\": [\"fund_name\"], \"query\": \"ishares +
global\" } } }"
```

### Example Request - simple\_query\_string\_boolean\_OR

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "sort": {"rating": "desc"},
  "query": {
    "simple_query_string": {
      "fields": ["fund_name"],
      "query": "ishares | global"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\": \"desc\"}, \"query\":
{ \"simple_query_string\": { \"fields\": [\"fund_name\"], \"query\": \"ishares |
global\" } } }"
```

### Example Request - simple\_query\_string\_must\_not\_match

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "sort": {"rating": "desc"},
  "query": {
    "simple_query_string": {
      "fields": ["fund_name"],
      "query": "-ishares + -global"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\": \"desc\"}, \"query\":
{ \"simple_query_string\": { \"fields\": [\"fund_name\"], \"query\": \"-ishares + -
global\" } } }"
```

### Example Request - simple\_query\_string\_match\_phrase

POST http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "sort":{"rating":"desc"},
  "query": {
    "simple_query_string": {
      "fields": ["fund_name"],
      "query": "\"iShares MSCI ACWI ETF\""
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\":\"desc\"}, \"query\":
{ \"simple_query_string\": { \"fields\": [\"fund_name\"], \"query\": \"\\\"iShares
MSCI ACWI ETF\\\"\" } } }"
```

### Example Request - simple\_query\_string\_fuzziness

POST http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "sort":{"rating":"desc"},
  "query": {
    "simple_query_string": {
      "fields": ["fund_name"],
      "query": "global~"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\":\"desc\"}, \"query\":
{ \"simple_query_string\": { \"fields\": [\"fund_name\"], \"query\":
\"global~\" } } }"
```

### Example Request - simple\_query\_string\_prefix

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "sort":{"rating":"desc"},
  "query": {
    "simple_query_string": {
      "fields": ["fund_name"],
      "query": "ishares~"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\": \"desc\"}, \"query\":
{ \"simple_query_string\": { \"fields\": [\"fund_name\"], \"query\": \"
ishares~\" } } }"
```

### Example Request - simple\_query\_string\_precedence

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "sort":{"rating":"desc"},
  "query": {
    "simple_query_string": {
      "fields": ["fund_name"],
      "query": "(usa | asia) + emerging"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\": \"desc\"}, \"query\":
{ \"simple_query_string\": { \"fields\": [\"fund_name\"], \"query\": \"(usa | asia) +
emerging\" } } }"
```

### Example Request - intervals\_query\_order\_and\_max\_gap

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

BODY

```
{
  "size":50,
  "query": {
    "intervals": {
      "fund_name": {
        "all_of": {
          "ordered":true,
          "intervals":[
            {"match": {"query":"MSCI Markets"},
            {"match": {"query": "ETF"}}
          ]
        }
      }
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"size\":50, \"query\": { \"intervals\":
{ \"fund_name\": { \"all_of\": { \"ordered\":true, \"intervals\":[ {\"match\":
{\"query\":\"MSCI Markets\", \"max_gaps\" : 1}}, {\"match\": {\"query\":
\"ETF\"}} ] } } } } } }
```

### Example Request - intervals\_query\_max\_gap\_not\_match

**POST** http://localhost:9200/cf\_etf/\_search

HEADERS

Content-Type  
application/json

BODY

```
{
  "size":50,
  "query": {
    "intervals": {
      "fund_name": {
        "all_of": {
          "ordered":true,
          "intervals":[
            {"match": {"query":"MSCI Markets"},
            {"match": {"query": "ETF"}}
          ]
        }
      }
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"size\":50, \"query\": { \"intervals\":
{ \"fund_name\": { \"all_of\": { \"ordered\":true, \"intervals\":[ {\"match\":
{\"query\": \"MSCI Markets\", \"max_gaps\" : 0}}, {\"match\": {\"query\":
\"ETF\"}} ] } } } } }
```

### Example Request - intervals\_query\_order\_not\_match

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "size":50,
  "query": {
    "intervals": {
      "fund_name": {
        "all_of": {
          "ordered":true,
          "intervals":[
            {"match": {"query": "ETF"}},
            {"match": {"query": "MSCI Markets",
"max_gaps" : 1}}
          ]
        }
      }
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"size\":50, \"query\": { \"intervals\":
{ \"fund_name\": { \"all_of\": { \"ordered\":true, \"intervals\":[ {\"match\":
{\"query\": \"ETF\"}}, {\"match\": {\"query\": \"MSCI Markets\", \"max_gaps\" :
1}} ] } } } } }
```

### Example Request - term\_query\_term

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "term": {
      "symbol": "ACWI"
    }
  }
}
```

```
}  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header  
"Content-Type: application/json" --data "{ \"query\": { \"term\": { \"symbol\":  
\"ACWI\" } } }"
```

### Example Request - term\_query\_terms

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{  
  "query": {  
    "terms": {  
      "symbol": [ "ACWI", "ACWF" ]  
    }  
  }  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header  
"Content-Type: application/json" --data "{ \"query\": { \"terms\": { \"symbol\":  
[\"ACWI\", \"ACWF\"] } } }"
```

### Example Request - term\_query\_range

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{  
  "query": {  
    "range": {  
      "rating": {  
        "gte": 3,  
        "lt": 5  
      }  
    }  
  }  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header  
"Content-Type: application/json" --data "{ \"query\": { \"range\": { \"rating\":  
{ \"gte\": 3, \"lt\": 5 } } } }"
```



### Example Request - term\_query\_exists

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "exists": { "field": "fund_name" }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" \
--header "Content-Type: application/json" \
--data "{
  \"query\": {
    \"exists\": {\"field\":\"fund_name\"}
  }
}"
```

### Example Request - term\_query\_prefix

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "prefix": { "symbol": "ACW" }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data
"{\"query\":{\"prefix\":{\"symbol\":\"ACW\"}}}"
```

### Example Request - term\_query\_wildcard

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

BODY

```
{
  "query": {
    "wildcard": {"symbol": "A*I"}
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"wildcard\":
{\\\"symbol\\\":\\\"A*I\\\"} } }"
```

### Example Request - term\_query\_regexp

**POST** http://localhost:9200/cf\_etf/\_search

HEADERS

Content-Type  
application/json

BODY

```
{
  "query": {
    "regexp": {"symbol": "ACW[IF]"}
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"regexp\":
{\\\"symbol\\\":\\\"ACW[IF]\\\"} } }"
```

### Example Request - term\_query\_fuzzy

**POST** http://localhost:9200/cf\_etf/\_search

HEADERS

Content-Type  
application/json

BODY

```
{
  "query": {
    "fuzzy": {"symbol": "ACW~"}
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"fuzzy\":
{\\\"symbol\\\":\\\"ACW~\\\"} } }"
```

### Example Request - term\_query\_ids

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "ids": {"values": ["oU2jLGkB_W0hQaVaoEie", "o02jLGkB_W0hQaVaoEif"]}
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" \ --header
"Content-Type: application/json" \ --data "{ \"query\": { \"ids\":
{ \"values\": [\"oU2jLGkB_W0hQaVaoEie\", \"o02jLGkB_W0hQaVaoEif\"] } } }
```

### Example Request - script\_query

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "bool": {
      "must": {"match_phrase_prefix": {"fund_name": "ishares edge" }},
      "filter": {
        "script": {
          "script": {
            "lang": "painless",
            "source": "if (!doc['rating'].empty &&
doc['rating'].value >= 4) return true; else false;"
          }
        }
      }
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data '${ \"query\": { \"bool\": { \"must\":
{ \"match_phrase_prefix\": { \"fund_name\": \"ishares edge\" }}, \"filter\":
{ \"script\": { \"script\": { \"lang\": \"painless\", \"source\": \"if
(!doc[\\'rating\\'].empty && doc[\\'rating\\'].value >= 4) return true; else
false;\" } } } } } }
```

### Example Request - bool\_query

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "bool": {
      "must": {"match_phrase_prefix": {"fund_name": "ishares edge" }},
      "must_not": {"match": {"fund_name": "global"}}
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\": { \"must\":
{\\\"match_phrase_prefix\\\": {\\\"fund_name\\\": \\\"ishares edge\\\" }}, \\\"must_not\\\":
{\\\"match\\\": {\\\"fund_name\\\":\\\"global\\\"}} } } }
```

### Example Request - boosting\_query

**POST** boosting\_query

http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "boosting": {
      "positive": {"match_phrase_prefix": {"fund_name": "ishares
edge" }},
      "negative": {"term":{"category":"Equity"}},
      "negative_boost":0.1
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"boosting\": { \"positive\":
{\\\"match_phrase_prefix\\\": {\\\"fund_name\\\": \\\"ishares edge\\\" }}, \\\"negative\\\":
{\\\"term\\\":{\\\"category\\\":\\\"Equity\\\"}}, \\\"negative_boost\\\":0.1 } } }
```

### Example Request - dismax\_query\_query\_1

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "dis_max": {
      "queries": [
        {"match_phrase": {"fund_name": "ishares edge" }}
      ]
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"dis_max\": { \"queries\":
[ {\"match_phrase\": {\"fund_name\": \"ishares edge\" }} ] } } }
```

### Example Request - dismax\_query\_query\_2

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "query": {
    "dis_max": {
      "queries": [
        {"match": {"morningstar_category": "World Large Stock"}}
      ]
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"dis_max\": { \"queries\":
[ {\"match\": {\"morningstar_category\": \"World Large Stock\"}} ] } } }
```

### Example Request - dismax\_query\_query\_1&2

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

BODY

```
{
  "query": {
    "dis_max": {
      "queries": [
        {"match_phrase": {"fund_name": "ishares edge" }},
        {"match": {"morningstar_category": "World Large Stock"}}
      ]
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"dis_max\": { \"queries\":
[ {\"match_phrase\": {\"fund_name\": \"ishares edge\" }}, {\"match\":
{\"morningstar_category\": \"World Large Stock\"}} ] } } }
```

### Example Request - function\_score\_query

POST http://localhost:9200/cf\_etf/\_search

HEADERS

Content-Type  
application/json

BODY

```
{
  "query": {
    "function_score": {
      "query": {"match_phrase": {"fund_name": "ishares edge" }},
      "functions": [
        {"filter": {"wildcard": {"morningstar_category": "*Stock"}}},
        {"filter": {"wildcard": {"morningstar_category": "*Growth"}}},
        {"filter": {"wildcard": {"morningstar_category": "*Blend"}}}
      ],
      "weight": 2},
      {"weight": 1.5},
      {"weight": 0.5}
    ]
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"function_score\":
{ \"query\": {\"match_phrase\": {\"fund_name\": \"ishares edge\" }},
\"functions\": [ {\"filter\": {\"wildcard\": {\"morningstar_category\": \"*Stock\"}},
\"weight\": 2}, {\"filter\": {\"wildcard\": {\"morningstar_category\": \"*Growth\"}},
\"weight\": 1.5}, {\"filter\": {\"wildcard\": {\"morningstar_category\": \"*Blend\"}},
\"weight\": 0.5} ] } } }
```

### Example Request - explain\_api

**POST** http://localhost:9200/cf\_etf/\_explain/o02jLGkB\_W0hQaVaoEif

HEADERS

Content-Type  
application/json

BODY

```
{
  "query": {
    "match": {"fund_name": "ishares edge global"}
  }
}
```

```
curl --location --request POST
"http://localhost:9200/cf_etf/_explain/o02jLGkB_W0hQaVaoEif" --header "Content-Type:
application/json" --data "{ \"query\": { \"match\": {\"fund_name\": \"ishares edge
global\"} } }"
```

**Example Request - validate\_api**

**POST** http://localhost:9200/cf\_etf/\_validate/query?explain=true

HEADERS

Content-Type  
application/json

PARAMS

explain  
true

BODY

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

```
curl --location --request POST
"http://localhost:9200/cf_etf/_validate/query?explain=true" --header "Content-Type:
application/json" --data "{ \"query\": { \"match\": {\"rating\": \"five\"} } }"
```

**Example Request - search\_count\_api\_fund\_name\_w\_asia**

**POST** http://localhost:9200/cf\_etf/\_count

HEADERS

Content-Type  
application/json

BODY

```
{
  "query": {
```

```
    "term": {"fund_name": "asia"}  
  }  
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_count" --header  
"Content-Type: application/json" --data "{ \"query\": { \"term\":  
{\"fund_name\": \"asia\"} } }"
```

### Example Request - field\_capabilities

**GET** http://localhost:9200/\_field\_caps?fields=fund\_name,description

#### HEADERS

Content-Type  
application/json

#### PARAMS

fields  
fund\_name,description

```
curl --location --request GET  
"http://localhost:9200/_field_caps?fields=fund_name,description" --header "Content-  
Type: application/json"
```

### Example Request - ranking\_evaluation

**POST** http://localhost:9200/cf\_etf/\_rank\_eval

#### HEADERS

Content-Type  
application/json

#### BODY

```
{  
  "requests": [  
    {  
      "id": "Asia",  
      "request": {"query": {"match": {"description": "asia"}}},  
      "ratings": []  
    },  
    {  
      "id": "Global",  
      "request": {"query": {"match": {"description": "global"}}},  
      "ratings": []  
    }  
  ],  
  "metric": {  
    "precision": {  
      "k" : 3,  
      "relevant_rating_threshold" : 1  
    }  
  }  
}
```



```
curl --location --request POST "http://localhost:9200/cf_etf/_rank_eval" --header
"Content-Type: application/json" --data "{ \"requests\": [ { \"id\": \"Asia\",
\"request\":{\"query\": {\"match\":{\"description\":\"asia\"}}}, \"ratings\": [ ] },
{ \"id\": \"Global\", \"request\":{\"query\":
{\"match\":{\"description\":\"global\"}}}, \"ratings\": [ ] } ], \"metric\":
{ \"precision\": { \"k\" : 3, \"relevant_rating_threshold\" : 1 } } }
```

### Example Request - search\_request\_profiling

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "profile":true,
  "query": {
    "query_string": {
      "query": "fund_name:ishares description:global",
      "default_operator": "AND"
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"profile\":true, \"query\":
{ \"query_string\": { \"query\": \"fund_name:ishares description:global\",
\"default_operator\": \"AND\" } } }
```

### Example Request - term\_suggester

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "suggest": {
    "text": "asian stock",
    "suggester_1": {
      "term": {
        "field": "fund_name"
      }
    },
    "suggester_2": {
      "term": {
        "field": "description"
      }
    }
  }
}
```

```
}
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"suggest\": { \"text\": \"asian stock\",
\"suggester_1\": { \"term\": { \"field\": \"fund_name\" } }, \"suggester_2\":
{ \"term\": { \"field\": \"description\" } } } }
```

### Example Request - phrase\_suggester

**POST** http://localhost:9200/cf\_etf/\_search

#### HEADERS

Content-Type  
application/json

#### BODY

```
{
  "suggest": {
    "text": "divide weigh index",
    "suggester": {
      "phrase": {
        "field": "description"
      }
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"suggest\": { \"text\": \"divide weigh
index\", \"suggester\": { \"phrase\": { \"field\": \"description\" } } } }
```

### Example Request - cf\_etf\_suggester\_mappings

**GET** http://localhost:9200/cf\_etf\_suggester/\_mappings

#### HEADERS

Content-Type  
application/json

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

### Example Request - cf\_etf\_suggester

**POST** http://localhost:9200/cf\_etf\_suggester/\_search

#### HEADERS

Content-Type

application/json

BODY

```
{
  "suggest": {
    "fund_name_suggester": {
      "prefix": "ishares edge",
      "completion": {
        "field": "fund_name"
      }
    }
  }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf_suggester/_search" --
header "Content-Type: application/json" --data "{ \"suggest\":
{ \"fund_name_suggester\": { \"prefix\": \"ishares edge\", \"completion\": { \"field\":
\"fund_name\" } } } }"
```

CHAPTER6