Chapter8

```
GET IEX_ACWF_chart_3m
    https://api.iextrading.com/1.0/stock/ACWF/chart/3m
   Example Request
   IEX_ACWF_chart_3m
     curl --location --request GET "https://api.iextrading.com/1.0/stock/ACWF/chart/3m"
   GET cf_etf_historical_prices_mapping
'n
    http://localhost:9200/cf_etf_hist_price/
t
   Example Request
   cf_etf_historical_prices_mapping
     curl --location --request GET "http://localhost:9200/cf_etf_hist_price/"
```

http://localhost:9200/cf_etf_hist_price/_count

GET cf_etf_historical_prices document_count

```
Example Request
    cf_etf_historical_prices document_count
     curl --location --request GET "http://localhost:9200/cf_etf_hist_price/_count"
   POST cf_etf_hist_price_dcoument_search_all
    http://localhost:9200/cf_etf_hist_price/_search
   HEADERS
   Content-Type
   application/json
   BODY
е
    "size":61,
c
    "query":{"match":{"symbol":"ACWF"}}
```

Example Request

```
cf_etf_hist_price_dcoument_search_all
     curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
е
       --header "Content-Type: application/json" \
ti
       --data "{
     \"size\":61,
     \"query\":{\"match\":{\"symbol\":\"ACWF\"}}
e
     }"
```

POST cf_etf_hist_price_matrix_stats

```
HEADERS
```

```
Content-Type
   application/json
   accept
   application/json
   BODY
         "size": 0,
         "query": { "match": { "symbol": "ACWF"}},
         "aggs": {
ą
              "statistics": {
                  "matrix_stats": {
İ
                      "fields": ["volume", "changePercent"]
                  }
е
             }
         }
    }
Э
```

```
£ Example Request
```

e

```
cf_etf_hist_price_matrix_stats

curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
    --header "Content-Type: application/json" \
    --header "accept: application/json" \
    --data "{ \"size\": 0,
    \"query\": { \"match\": { \"symbol\": \"ACWF\"}},
    \"aggs\": {
    \"statistics\": {
    \"matrix_stats\": {
    \"fields\": [\"volume\", \"changePercent\"]
}
```

GET count_cf_etf_hist_price_index_dcoument

```
http://localhost:9200/cf_etf_hist_price/_count
```

```
Example Request
    count_cf_etf_hist_price_index_dcoument
     curl --location --request GET "http://localhost:9200/cf_etf_hist_price/_count"
Э
   DEL delete_cf_etf_hist_price_index
    http://localhost:9200/cf_etf_hist_price/
   Example Request
    delete_cf_etf_hist_price_index
     curl --location --request DELETE "http://localhost:9200/cf_etf_hist_price/"
1
е
   POST cf_etf_hist_price_avg_acwf_change
    http://localhost:9200/cf_etf_hist_price/_search
   HEADERS
   Content-Type
   application/json
   Accept
   application/json
e
   BODY
         "size": 0,
         "query": { "match": { "symbol": "ACWF"}},
         "aggs": {"acwf_avg_change_price": {"avg": { "field": "change" }}}
    }
```

```
Example Request
```

```
cf_etf_hist_price_avg_acwf_change

curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
     --header "Content-Type: application/json" \
     --header "Accept: application/json" \
     --data "{ \"size\": 0,
     \"query\": { \"match\": { \"symbol\": \"ACWF\"}},
     \"aggs\": {\"acwf_avg_change_price\": {\"avg\": { \"field\": \"change\" }}}
}"
```

POST cf_etf_hist_price_weight_avg_acwf_change

```
http://localhost:9200/cf_etf_hist_price/_search
```

HEADERS

е

Content-Type

application/json

```
∮ accept
```

```
application/json
```

BODY

```
{
H
         "size": 0,
         "query": { "match": { "symbol": "ACWF"}},
         "aggs": {
е
             "acwf_avg_change_with_vol_weight": {
                 "weighted_avg": {
ti
                     "value": {"field": "change"}, "weight": {"field": "volume"}
า
                 }
e
             }
         }
Ţ
```

POST cf_etf_morningstart_categories_cardinality

```
http://localhost:9200/cf_etf/_search
```

HEADERS

е

£

e

Content-Type

application/json

accept

application/json

BODY

```
cf_etf_morningstart_categories_cardinality
```

```
4/10/2019
                                                        Chapter8
     curl --location --request POST "http://localhost:9200/cf_etf/_search" \
       --header "Content-Type: application/json" \
       --header "accept: application/json" \
       --data "{
i
         \"size\": 0,
         \"aggs\": {
             \"number_of_morningstar_category\": {
Э
                 \"cardinality\": {\"field\": \"morningstar_category\"}
             }
         }
   POST cf_etf_morningstart_categories_value_count
    http://localhost:9200/cf_etf/_search
   HEADERS
   Content-Type
```

application/json

accept

application/json

```
BODY
```

£

ti 1

Example Request

cf_etf_morningstart_categories_value_count

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" \
     --header "Content-Type: application/json" \
     --header "accept: application/json" \
     --data "{
          \"size\": 0,
          \"aggs\": {
                \"num_of_etfs_have_market_cap\": {
                \"value_count\": {\"field\": \"market_cap\"}
          }
}
```

POST cf_etf_dividend_acwf_amount_sum

```
http://localhost:9200/cf_etf_dividend_denormalize/_search
```

HEADERS

բ Content-Type

application/json

e BODY

1

е

ti

T Example Request

```
e cf_etf_dividend_acwf_amount_sum
```

https://documenter.getpostman.com/view/1235836/S1EMVfGx

```
curl --location --request POST "http://localhost:9200/cf_etf_dividend_denormalize/_search" \
       --header "Content-Type: application/json" \
       --data "{
         \"size\": 0,
i
         \"query\": { \"match\": { \"symbol\": \"ACWF\"}},
         \"aggs\": {
             \"sum_amount\": {
Э
                 \"sum\": {\"field\": \"amount\"}
             }
         }
   POST cf_etf_hist_price_acwf_minimum_open_price
    http://localhost:9200/cf_etf_hist_price/_search
   HEADERS
   Content-Type
   application/json
   accept
   application/json
£
   BODY
'n
    {
         "size": 0,
Н
         "query": { "match": { "symbol": "ACWF"}},
         "aggs": {
             "minimum_open_price": {
                 "min": {"field": "open"}
            }
        }
е
    }
```

Example Request

ti า

e

cf_etf_hist_price_acwf_minimum_open_price

```
curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
       --header "Content-Type: application/json" \
       --header "accept: application/json" \
       --data "{
i
         \"size\": 0,
         \"query\": { \"match\": { \"symbol\": \"ACWF\"}},
         \"aggs\": {
Э
             \"minimum_open_price\": {
                 \"min\": {\"field\": \"open\"}
             }
   POST cf_etf_hist_price_acwf_maximum_open_price
    http://localhost:9200/cf_etf_hist_price/_search
   HEADERS
   Content-Type
   application/json
   accept
   application/json
£
   BODY
    {
         "size": 0,
         "query": { "match": { "symbol": "ACWF"}},
         "aggs": {
             "maximum_open_price": {
                 "max": {"field": "open"}
             }
        }
е
    }
ti
า
e
```

Example Request

cf_etf_hist_price_acwf_maximum_open_price

```
curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
       --header "Content-Type: application/json" \
       --header "accept: application/json" \
       --data "{
i
         \"size\": 0,
         \"query\": { \"match\": { \"symbol\": \"ACWF\"}},
         \"aggs\": {
Э
             \"maximum_open_price\": {
                 \"max\": {\"field\": \"open\"}
             }
   POST cf_etf_hist_price_acwf_stats_open_price
    http://localhost:9200/cf_etf_hist_price/_search
   HEADERS
   Content-Type
   application/json
   accept
   application/json
£
   BODY
'n
    {
         "size": 0,
         "query": { "match": { "symbol": "ACWF"}},
         "aggs": {
             "stats_open_price": {
                 "stats": {"field": "open"}
             }
        }
е
    }
ti
า
e
   Example Request
```

cf_etf_hist_price_acwf_stats_open_price

```
curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
       --header "Content-Type: application/json" \
       --header "accept: application/json" \
       --data "{
i
         \"size\": 0,
         \"query\": { \"match\": { \"symbol\": \"ACWF\"}},
         \"aggs\": {
Э
             \"stats_open_price\": {
                 \"stats\": {\"field\": \"open\"}
             }
   POST cf_etf_hist_price_acwf_extended_stats_open_price
    http://localhost:9200/cf_etf_hist_price/_search
   HEADERS
   Content-Type
   application/json
   accept
   application/json
£
   BODY
    {
         "size": 0,
         "query": { "match": { "symbol": "ACWF"}},
         "aggs": {
             "extend_stats_open_price": {
                 "extended stats": {"field": "open"}
             }
        }
е
    }
ti
า
e
   Example Request
```

https://documenter.getpostman.com/view/1235836/S1EMVfGx

cf_etf_hist_price_acwf_extended_stats_open_price

```
curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
     --header "Content-Type: application/json" \
     --header "accept: application/json" \
     --data "{
          \"size\": 0,
          \"query\": { \"match\": { \"symbol\": \"ACWF\"}},
          \"aggs\": {
                \"extend_stats_open_price\": {
                \"extended_stats\": {\"field\": \"open\"}
}
```

POST cf_etf_top_hit_morningstar_category

```
http://localhost:9200/cf_etf/_search
```

i HEADERS

_ Content-Type

application/json

accept

application/json

```
BODY
```

£

e

```
cf_etf_top_hit_morningstar_category
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" \
       --header "Content-Type: application/json" \
       --header "accept: application/json" \
       --data "{
i
         \"size\": 0,
         \"aggs\": {
             \"category_top_hits\": {
Э
                 \"terms\": {
                      \"field\":\"morningstar_category\",
                      \"size\": 5
   POST cf_etf_hist_price_percentiles_open_price
    http://localhost:9200/cf_etf_hist_price/_search
   HEADERS
   Content-Type
   application/json
   accept
   application/json
£
   BODY
    {
         "size": 0,
         "query": { "match": { "symbol": "ACWF"}},
         "aggs": {
             "open_price_percentiles": {
                 "percentiles": {"field":"open"}
             }
        }
е
    }
ti
า
e
```

```
cf_etf_hist_price_percentiles_open_price
```

```
curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
       --header "Content-Type: application/json" \
       --header "accept: application/json" \
       --data "{
i
         \"size\": 0,
         \"query\": { \"match\": { \"symbol\": \"ACWF\"}},
         \"aggs\": {
Э
             \"open_price_percentiles\": {
                 \"percentiles\": {\"field\":\"open\"}
             }
   POST cf_etf_hist_price_percentile_rank_open_price
    http://localhost:9200/cf_etf_hist_price/_search
   HEADERS
   Content-Type
   application/json
   accept
   application/json
£
   BODY
    {
         "size": 0,
         "query": { "match": { "symbol": "ACWF"}},
         "aggs": {
             "open_price_percentile_rank": {
                 "percentile ranks": {"field":"open", "values":28.5}
             }
         }
е
    }
ti
า
e
```

Example Request

cf_etf_hist_price_percentile_rank_open_price

```
curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
       --header "Content-Type: application/json" \
       --header "accept: application/json" \
       --data "{
i
         \"size\": 0,
         \"query\": { \"match\": { \"symbol\": \"ACWF\"}},
         \"aggs\": {
Э
             \"open_price_percentile_rank\": {
                 \"percentile_ranks\": {\"field\":\"open\", \"values\":28.5}
             }
   POST cf_etf_hist_price_mad_acwf_percetChange
    http://localhost:9200/cf_etf_hist_price/_search
   HEADERS
   Content-Type
   application/json
   accept
   application/json
£
   BODY
    {
         "size": 0,
         "query": { "match": { "symbol": "ACWF"}},
         "aggs": {
             "mad change percent": {
                 "median absolute deviation": {"field":"changePercent" }
             }
        }
е
    }
ti
า
e
   Example Request
```

https://documenter.getpostman.com/view/1235836/S1EMVfGx

cf_etf_hist_price_mad_acwf_percetChange

```
curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
       --header "Content-Type: application/json" \
       --header "accept: application/json" \
       --data "{
i.
        \"size\": 0,
        \"query\": { \"match\": { \"symbol\": \"ACWF\"}},
        \"aggs\": {
Э
            \"mad_change_percent\": {
                 \"median_absolute_deviation\": {\"field\":\"changePercent\" }
            }
  POST cf_etf_hist_price_scripted_metric
```

```
http://localhost:9200/cf_etf_hist_price/_search
```

HEADERS

Content-Type

application/json

accept

application/json

```
BODY
```

£

e

```
{
        "size": 0,
         "query": { "match": { "symbol": "ACWF"}},
         "aggs": {
             "highest_cp_cot_ratio": {
                 "scripted metric": {
                     "init_script":"state.price_diff = new ArrayList()",
                     "map script":"double value = doc.changeOverTime.value==0 ? 0 : doc.changePercent
е
                     "combine script":"return Collections.max(state.price diff)",
ti
า
```

```
cf_etf_hist_price_scripted_metric
```

POST cf_etf_hist_price_acwf_histogram

```
http://localhost:9200/cf_etf_hist_price/_search
```

i HEADERS

_ Content-Type

application/json

accept

application/json

```
BODY
```

£

e

```
cf_etf_hist_price_acwf_histogram
```

POST cf_etf_hist_price_acwf_date_histogram

```
http://localhost:9200/cf_etf_hist_price/_search
```

i HEADERS

△ Content-Type

application/json

accept

application/json

```
BODY
```

£

e

```
cf_etf_hist_price_acwf_date_histogram
```

POST cf_etf_hist_price_acwf_auto_interval_date_histogram

```
http://localhost:9200/cf_etf_hist_price/_search
```

i HEADERS

_ Content-Type

application/json

accept

application/json

```
BODY
```

£

e

```
cf_etf_hist_price_acwf_auto_interval_date_histogram
```

```
curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
       --header "Content-Type: application/json" \
       --header "accept: application/json" \
       --data "{
i
         \"size\": 0,
         \"query\": { \"match\": { \"symbol\": \"ACWF\"}},
         \"aggs\":{
Э
             \"monthly_trading_days\": {
                 \"auto_date_histogram\":{
                     \"field\": \"date\",
   POST cf_etf_hist_price_acwf_ranges
    http://localhost:9200/cf_etf_hist_price/_search
   HEADERS
   Content-Type
   application/json
   accept
   application/json
£
   BODY
'n
    {
         "size": 0,
         "query": { "match": { "symbol": "ACWF"}},
         "aggs":{
             "monthly_trading_days": {
                 "range":{
                     "field": "date",
                     "format": "yyyy-MM-dd",
е
                     "ranges": [{"from":"2018-12-01"},{"to":"2019-04-01"},{"from":"2019-01-01","to":"
```

Example Request

ti า

e

```
cf_etf_hist_price_acwf_ranges
```

POST cf_etf_hist_price_acwf_date_ranges

```
http://localhost:9200/cf_etf_hist_price/_search
```

i HEADERS

Content-Type

application/json

accept

application/json

```
BODY
```

£

e

```
cf_etf_hist_price_acwf_date_ranges
```

```
4/10/2019
                                                          Chapter8
     curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
       --header "Content-Type: application/json" \
       --header "accept: application/json" \
       --data "{
i
         \"size\": 0,
         \"query\": { \"match\": { \"symbol\": \"ACWF\"}},
         \"aggs\":{
Э
              \"monthly_trading_days\": {
                  \"date_range\":{
   POST cf_etf_hist_price_filter_sub_aggs
     http://localhost:9200/cf_etf_hist_price/_search
   HEADERS
   Content-Type
   application/json
   accept
   application/json
£
   BODY
'n
     {
         "size": 0,
         "aggs":{
             "avg_changePercent_at_date": {
                  "filter":{"term": {"date":"2019-02-15"}},
                  "aggs": {"avg changePercent": {"avg":{"field": "changePercent"}}}
             }
         }
е
     }
```

```
Example Request
```

ti 1

e

```
cf_etf_hist_price_filter_sub_aggs
```

```
4/10/2019
                                                           Chapter8
     curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
       --header "Content-Type: application/json" \
       --header "accept: application/json" \
       --data "{
i.
         \"size\": 0,
         \"aggs\":{
              \"avg_changePercent_at_date\": {
Э
                  \"filter\":{\"term\": {\"date\":\"2019-02-15\"}},
                  \" aggs \" : {\" avg\_changePercent \" : {\" avg \" : {\" field \" : \" changePercent \"}}}
             }
   POST cf_etf_hist_price_filters
    http://localhost:9200/cf_etf_hist_price/_search
   HEADERS
   Content-Type
   application/json
   accept
   application/json
£
   BODY
'n
     {
         "size": 0,
         "query": { "term": {"date":"2019-02-15"}},
         "aggs":{
             "filters_avg_changePercent": {
                  "filters":{
                      "filters": {
                          "less than avg": {"range": {"changePercent":{"lt":0.60385}}},
е
                          "greater than avg":{"range": {"changePercent":{"gte":0.60385}}}
```

Example Request

ti

า

e

```
cf\_etf\_hist\_price\_filters
```

}

```
curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
     --header "Content-Type: application/json" \
     --header "accept: application/json" \
     --data "{
          \"size\": 0,
          \"query\": { \"term\": {\"date\":\"2019-02-15\"}},
          \"aggs\":{
                \"filters_avg_changePercent\": {
                \"filters\":{
               \"filters\": {
```

POST cf_etf_hist_price_terms_rating

```
http://localhost:9200/cf_etf/_search
```

i HEADERS

_ Content-Type

application/json

accept

application/json

```
BODY
```

£

e

```
cf_etf_hist_price_terms_rating
```

POST cf_etf_hist_price_significant_terms

```
http://localhost:9200/cf_etf/_search
```

i HEADERS

Content-Type

application/json

accept

application/json

```
BODY
```

£

e

```
cf_etf_hist_price_significant_terms
```

POST cf_etf_hist_price_significant_text

```
http://localhost:9200/cf_etf/_search
```

i HEADERS

_ Content-Type

application/json

accept

application/json

```
BODY
```

£

e

```
cf_etf_hist_price_significant_text
```

POST cf_etf_hist_price_sampler

```
http://localhost:9200/cf_etf/_search
```

i HEADERS

_ Content-Type

application/json

e BODY

1

е

ti

```
cf_etf_hist_price_sampler
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" \
    --header "Content-Type: application/json" \
    --data "{
        \"size\": 0,
        \"aggs\": {
            \"sampling\": {
            \"sampler\": { \"shard_size\":150},
            \"aggs\": {
            \"significant_terms_category\": {
            \"significant_terms\": {
```

POST cf_etf_hist_price_diversified_sampler_10

```
http://localhost:9200/cf_etf/_search
```

HEADERS

Content-Type

application/json

BODY

1

е

ti

```
cf_etf_hist_price_diversified_sampler_10
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" \
    --header "Content-Type: application/json" \
    --data "{
      \"size\": 0,
      \"aggs\": {
          \"sampling\": {
          \"diversified_sampler\": {\"field\":\"family\", \"shard_size\":150, \"max_docs_per_\"
          \"aggs\": {
          \"significant_terms_category\": {
```

POST cf_etf_hist_price_diverified_sampler_61

```
http://localhost:9200/cf_etf/_search
```

i HEADERS

_ Content-Type

application/json

BODY

1

е

ti

```
cf_etf_hist_price_diverified_sampler_61
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" \
    --header "Content-Type: application/json" \
    --data "{
        \"size\": 0,
        \"aggs\": {
            \"sampling\": {
                 \"diversified_sampler\": {\"field\":\"family\", \"shard_size\":150, \"max_docs_per_\"
                \"aggs\": {
                 \"significant_terms_category\": {
```

POST cf_etf_dividend_nested_amount

```
http://localhost:9200/cf_etf_dividend_nested/_search
```

HEADERS

Content-Type

application/json

BODY

1

е

ti

```
cf_etf_dividend_nested_amount
```

POST cf_etf_dividend_reverse_nested

```
http://localhost:9200/cf_etf_dividend_nested/_search
```

HEADERS

Content-Type

application/json

BODY

1

е

ti

```
cf_etf_dividend_reverse_nested
```

POST cf_etf_global

```
http://localhost:9200/cf_etf/_search
```

HEADERS

Content-Type

application/json

BODY

1

е

ti

e

```
cf_etf_global
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" \
    --header "Content-Type: application/json" \
    --data "{
        \"size\":0,
        \"query\":{\"prefix\": {\"family\":\"iShares\"}},
        \"aggs\": {
        \"ishares_avg_rating\": {\"avg\": {\"field\":\"rating\"}},
        \"overall_avg_rating\": {\"global\":{}}, \"aggs\":{\"global_avg_rating\":{\"avg\":{\"field\"}};
}
```

POST cf_etf_missing_category

```
http://localhost:9200/cf_etf/_search
```

HEADERS

Content-Type

application/json

BODY

1

е

ti

```
cf_etf_missing_category
e
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" \
    --header "Content-Type: application/json" \
    --data "{
        \"size\":0,
        \"aggs\": {
            \"not_rated_count\": {
              \"missing\": {\"field\":\"rating\"}
        }
    }
}
```

POST cf_etf_hist_price_composite

```
http://localhost:9200/cf_etf/_search
```

HEADERS

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```
cf_etf_hist_price_composite
```

POST cf_etf_hist_price_adjacent_matrix

```
http://localhost:9200/cf_etf/_search
```

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```
cf_etf_hist_price_adjacent_matrix
```

POST cf_etf_dividend_join_parent_aggs

```
localhost:9200/cf_etf_dividend_join/_search
```

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```
cf_etf_dividend_join_parent_aggs
```

POST cf_etf_dividend_join_children_aggs

```
localhost:9200/cf_etf_dividend_join/_search
```

HEADERS

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```
cf_etf_dividend_join_children_aggs
```

```
curl --location --request POST "localhost:9200/cf_etf_dividend_join/_search" \
     --header "Content-Type: application/json" \
     --data "{
          \"size\":0,
          \"aggs\": {
                \"dividend\":{
                \"children\": {
                     \"type\": \"dividend\"
                },
          \"aggs\": {
```

POST cf_etf_hist_price_acwf_avg_monthly_close

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_acwf_avg_monthly_close
```

POST cf_etf_hist_price_acwf_max_monthly_avg_close

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_acwf_max_monthly_avg_close
```

POST cf_etf_hist_price_acwf_min_monthly_avg_close

```
http://localhost:9200/cf_etf_hist_price/_search
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```
cf_etf_hist_price_acwf_min_monthly_avg_close
```

POST cf_etf_hist_price_acwf_sum_monthly_change

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_acwf_sum_monthly_change
```

```
curl --location --request POST "http://localhost:9200/cf_etf_hist_price/_search" \
    --header "Content-Type: application/json" \
    --header "accept: application/json" \
    --data "{
        \"size\": 0,
        \"query\":{\"match\": {\"symbol\":\"ACWF\"}},
        \"aggs\":{
        \"monthly_change\": {
        \"date_histogram\":{
        \"field\": \"date\",
```

POST cf_etf_hist_price_acwf_statistics_monthly_change

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_acwf_statistics_monthly_change
```

POST cf_etf_hist_price_acwf_extended_statistics_monthly_change

```
http://localhost:9200/cf_etf_hist_price/_search
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```
cf_etf_hist_price_acwf_extended_statistics_monthly_change
```

POST cf_etf_hist_price_acwf_percentiles_weekly_change

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_acwf_percentiles_weekly_change
```

POST cf_etf_hist_price_acwf_cumulative_sum

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_acwf_cumulative_sum
```

POST cf_etf_hist_price_acwf_derivative

```
http://localhost:9200/cf_etf_hist_price/_search
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```
cf_etf_hist_price_acwf_derivative
```

POST cf_etf_hist_price_bucket_script

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_bucket_script
```

POST cf_etf_hist_price_bucket_selector

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_bucket_selector
```

POST cf_etf_dividend_nested_amount bucket_sort

```
http://localhost:9200/cf_etf_dividend_nested/_search
```

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```
cf_etf_dividend_nested_amount bucket_sort
```

POST cf_etf_hist_price_acwf_serial_diff

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_acwf_serial_diff
```

POST cf_etf_hist_price_acwf_moving_avg_simple

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_acwf_moving_avg_simple
```

```
POST cf_etf_hist_price_acwf_moving_avg_linear
```

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_acwf_moving_avg_linear
```

POST cf_etf_hist_price_acwf_moving_avg_ewma

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_acwf_moving_avg_ewma
```

POST cf_etf_hist_price_acwf_moving_avg_holt_linear

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_acwf_moving_avg_holt_linear
```

POST cf_etf_hist_price_acwf_moving_avg_holt_winters

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_acwf_moving_avg_holt_winters
```

POST cf_etf_hist_price_acwf_moving_fn_max

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_acwf_moving_fn_max
```

```
POST cf_etf_hist_price_acwf_moving_fn_min
```

```
http://localhost:9200/cf_etf_hist_price/_search
```

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```
cf_etf_hist_price_acwf_moving_fn_min
```

POST cf_etf_hist_price_acwf_moving_fn_sum

```
http://localhost:9200/cf_etf_hist_price/_search
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```
cf_etf_hist_price_acwf_moving_fn_sum
```

POST cf_etf_hist_price_acwf_moving_fn_unweightedAvg

```
http://localhost:9200/cf_etf_hist_price/_search
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```
cf_etf_hist_price_acwf_moving_fn_unweightedAvg
```

POST cf_etf_hist_price_acwf_moving_fn_linearweightedAvg

```
http://localhost:9200/cf_etf_hist_price/_search
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cf_etf_hist_price_acwf_moving_fn_linearweightedAvg
```

POST cf_etf_hist_price_acwf_moving_fn_stdDev

```
http://localhost:9200/cf_etf_hist_price/_search
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```
cf_etf_hist_price_acwf_moving_fn_stdDev
```

POST cf_etf_hist_price_acwf_moving_fn_ewma

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http://localhost:9200/cf_etf_hist_price/_search
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cf_etf_hist_price_acwf_moving_fn_ewma
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POST cf_etf_hist_price_acwf_moving_fn_holt

```
http://localhost:9200/cf_etf_hist_price/_search
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```
cf_etf_hist_price_acwf_moving_fn_holt
```

POST cf_etf_hist_price_acwf_moving_fn_holtwinters

```
http://localhost:9200/cf_etf_hist_price/_search
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