chapter9

PUT create_pipeline_range_ratio

http://localhost:9200/_ingest/pipeline/range_ratio

HEADERS

Content-Type
application/json
accept
application/json

BODY

Example Request

create pipeline range ratio

```
curl --location --request PUT "http://localhost:9200/
_ingest/pipeline/range_ratio" --header "Content-Type:
application/json" --header "accept: application/json" --
data $'{\"description\":\"calculate the range of high and
low and divide by the close price\", \"processors\":
[ { \"script\": { \"source\": \"ctx.range_ratio =
(ctx.high-ctx.low)/ctx.close\" } } ] }'}'
```

DEL delete_pipeline_range_ratio

http://localhost:9200/_ingest/pipeline/range_ratio

HEADERS

```
Content-Type
application/json
accept
application/json
```

BODY

delete_pipeline_range_ratio

```
curl --location --request DELETE "http://localhost:9200/
   _ingest/pipeline/range_ratio" --header "Content-Type:
application/json" --header "accept: application/json" --
data $'{\"description\":\"calculate the range of high and
low and divide by the close price\", \"processors\":
[ { \"set\": { \"field\": \"range_ratio\", \"value\":
\"({{high}}-{{low}})/{{close}}\" } } ] }'
```

DEL delete_pipeline_wildcard_expression

http://localhost:9200/_ingest/pipeline/range_ratio*

```
Content-Type
application/json
accept
application/json
BODY
```

```
{
    "description":"calculate the range of high and low
and divide by the close price",
    "processors":[
    {
        "set": {
```

delete pipeline wildcard expression

```
curl --location --request DELETE "http://localhost:9200/
_ingest/pipeline/range_ratio*" --header "Content-Type:
application/json" --header "accept: application/json" --
data $'{\"description\":\"calculate the range of high and
low and divide by the close price\", \"processors\":
[ { \"set\": { \"field\": \"range_ratio\", \"value\":
\"({{high}}-{{low}})/{{close}}\" } } ] }'
```

POST simulate_pipeline_range_ratio

http://localhost:9200/_ingest/pipeline/range_ratio/_simulate

HEADERS

Content-Type
application/json
accept
application/json
BODY

simulate pipeline range ratio

```
curl --location --request POST "http://localhost:9200/
_ingest/pipeline/range_ratio/_simulate" --header "Content-
Type: application/json" --header "accept: application/json"
--data $'{\"docs\" :[ {\"_source\": {\"date\":
\"2018-12-26\", \"open\": 24.8706, \"high\": 25.6553,
\"low\": 24.7117, \"close\": 25.6553, \"volume\": 422158,
\"unadjustedVolume\": 422158, \"change\": 0.84425,
\"changePercent\": 3.403, \"vwap\": 25.2926, \"label\":
\"Dec 26, 18\", \"changeOverTime\": 0, \"symbol\":
\"ACWF\"}} ] }'
```

POST simulate_pipeline_ad_hoc_range_ratio

http://localhost:9200/_ingest/pipeline/_simulate

HEADERS

Content-Type application/json

accept

application/json

BODY

Example Request

simulate pipeline ad hoc range ratio

```
curl --location --request POST "http://localhost:9200/
  _ingest/pipeline/_simulate" --header "Content-Type:
application/json" --header "accept: application/json" --
data $'{\"pipeline\": { \"description\":\"calculate the
range of high and low and divide by the close price\",
\"processors\":[{ \"script\": { \"source\":
```

```
\"ctx.range_ratio = (ctx.high-ctx.low)/ctx.close\" } ] },
\"docs\" :[ {\"_source\": {\"date\": \"2018-12-26\",
\"open\": 24.8706, \"high\": 25.6553, \"low\": 24.7117,
\"close\": 25.6553, \"volume\": 422158,
\"unadjustedVolume\": 422158, \"change\": 0.84425,
\"changePercent\": 3.403, \"vwap\": 25.2926, \"label\":
\"Dec 26, 18\", \"changeOverTime\": 0, \"symbol\":
\"ACWF\"}} ] }'
```

POST index_with_pipeline_range_ratio

http://localhost:9200/cf_etf_pipeline/_doc/1?pipeline=range_ratio

HEADERS

Content-Type
application/json
accept
application/json
PARAMS
pipeline
range_ratio

BODY

```
{
    "date": "2018-12-26",
    "open": 24.8706,
    "high": 25.6553,
    "low": 24.7117,
    "close": 25.6553,
```

```
"volume": 422158,

"unadjustedVolume": 422158,

"change": 0.84425,

"changePercent": 3.403,

"vwap": 25.2926,

"label": "Dec 26, 18",

"changeOverTime": 0,

"symbol": "ACWF"
}
```

index with pipeline range ratio

```
curl --location --request POST "http://localhost:9200/
cf_etf_pipeline/_doc/1?pipeline=range_ratio" --header
"Content-Type: application/json" --header "accept:
application/json" --data $'{\"date\": \"2018-12-26\",
\"open\": 24.8706, \"high\": 25.6553, \"low\": 24.7117,
\"close\": 25.6553, \"volume\": 422158,
\"unadjustedVolume\": 422158, \"change\": 0.84425,
\"changePercent\": 3.403, \"vwap\": 25.2926, \"label\":
\"Dec 26, 18\", \"changeOverTime\": 0, \"symbol\":
\"ACWF\" }'
```

DEL index_with_pipeline_range_ratio_doc

http://localhost:9200/cf_etf_pipeline/_doc/1

HEADERS

Content-Type application/json

accept

application/json

BODY

```
"date": "2018-12-26",
    "open": 24.8706,
    "high": 25.6553,
    "low": 24.7117,
    "close": 25.6553,
    "volume": 422158,
    "unadjustedVolume": 422158,
    "change": 0.84425,
    "changePercent": 3.403,
    "vwap": 25.2926,
    "label": "Dec 26, 18",
    "changeOverTime": 0,
    "symbol": "ACWF"
}
```

Example Request

index with pipeline range ratio doc

```
curl --location --request DELETE "http://localhost:9200/
cf_etf_pipeline/_doc/1" --header "Content-Type:
application/json" --header "accept: application/json" --
data $'{\"date\": \"2018-12-26\", \"open\": 24.8706,
\"high\": 25.6553, \"low\": 24.7117, \"close\": 25.6553,
\"volume\": 422158, \"unadjustedVolume\": 422158,
\"change\": 0.84425, \"changePercent\": 3.403, \"vwap\":
25.2926, \"label\": \"Dec 26, 18\", \"changeOverTime\": 0,
\"symbol\": \"ACWF\" }'
```

GET

get_document_from_index_with_pipeline_range_ratio

http://localhost:9200/cf_etf_pipeline/_doc/1

HEADERS

Content-Type

application/json

accept

application/json

BODY

{ }

Example Request

get_document_from_index_with_pipeline_range_ratio

curl --location --request GET "http://localhost:9200/ cf_etf_pipeline/_doc/1"

POST simulate_pipeline_ad_hoc_kv_processor

http://localhost:9200/_ingest/pipeline/_simulate

```
Content-Type
application/json
accept
application/json
BODY
```

simulate_pipeline_ad_hoc_kv_processor

curl --location --request POST "http://localhost:9200/

```
_ingest/pipeline/_simulate" --header "Content-Type:
application/json" --header "accept: application/json" --
data $'{\"pipeline\": { \"description\":\"kv processor
demo\", \"processors\":[ {\"kv\": { \"field\":
\"input_field\", \"field_split\":\",\", \"value_split\":\":\",
\"target_field\": \"output_field\", \"trim_key\":\" \",
\"trim_value\":\" \" }}, { \"remove\" : { \"field\":
[\"input_field\"]}} ] }, \"docs\" :[ {\"_source\":
{\"input_field\":\" a:b , c:d \"}} ] }'
```

POST simulate_pipeline_grok_processor

http://localhost:9200/_ingest/pipeline/_simulate

```
Content-Type
application/json
accept
application/json
BODY
```

simulate_pipeline_grok_processor

```
curl --location --request POST "http://localhost:9200/
_ingest/pipeline/_simulate" --header "Content-Type:
application/json" --header "accept: application/json" --
data $'{\"pipeline\": { \"description\":\"grok processor
demo\", \"processors\":[ {\"grok\": { \"field\":
\"message\", \"patterns\": [\"\\\[%
{TIMESTAMP_ISO8601:timestamp}\\\\]\\\[%{LOGLEVEL:log-
level}%{SPACE}\\\\]\\\[%{JAVACLASS:class}\\\\]%{SPACE}\\\\
[%{DATA:node}\\\\]%{SPACE}\\\\[%{DATA:index_doc}\\\]%
{GREEDYDATA:action}\"], \"ignore_missing\": true }},
{\"remove\": {\"field\":[\"message\"]}} ] }, \"docs\" :
[ {\"_source\": {\"message\":\"[2019-06-20T00:04:58,856]
[INFO ][o.e.c.m.MetaDataDeleteIndexService] [WTW.local]
[cf_etf/RiYRsKyxTGStNcHczbUxcQ] deleting index\"}} ] }'
```

POST simulate_pipeline_dissect_processor

```
Content-Type
application/json
accept
application/json
BODY
```

```
curl --location --request POST "http://localhost:9200/
_ingest/pipeline/_simulate" --header "Content-Type:
application/json" --header "accept: application/json" --
data $'{\"pipeline\": { \"description\":\"dissect processor
demo\", \"processors\":[ {\"dissect\": { \"field\":
\"message\", \"pattern\": \"[%{timestamp}][%{log-level}][%
{class}] [%{node}] [%{index_doc}]%{action}\",
\"ignore_missing\": true }}, {\"remove\": {\"field\":
[\"message\"]}} ] }, \"docs\" :[ {\"_source\":
{\"message\":\"[2019-06-20T00:04:58,856][INFO ]
[o.e.c.m.MetaDataDeleteIndexService] [WTW.local] [cf_etf/
RiYRsKyxTGStNcHczbUxcQ] deleting index\"}} ] }'
```

POST simulate_pipeline_simple_conditional_execution

http://localhost:9200/ ingest/pipeline/ simulate

```
Content-Type
application/json
accept
application/json
BODY
```

```
{
    "pipeline": {
        "description":"remove the rating field is the
rating is equal to a single space string",
        "processors":[{
```

```
et cap": "mid", "description": "The investment seeks to track
securities of the underlying index and in investments that
constituents, as defined by MSCI, Inc. (the \\\"index
```

simulate_pipeline_simple_conditional_execution

```
curl --location --request POST "http://localhost:9200/
_ingest/pipeline/_simulate" --header "Content-Type:
application/json" --header "accept: application/json" --
data $'{\"pipeline\": { \"description\":\"remove the rating
```

```
field is the rating is equal to a single space string\",
\"processors\":[{ \"remove\": { \"field\": \"rating\",
\"if\": \"ctx.rating == \' \'\" } }] }, \"docs\" :
[ {\"_source\": {\"symbol\":\"AGT\",\"fund_name\":\"iShares
MSCI Argentina and Global Exposure ETF\",\"rating\":\" \",
\"morningstar_category\":\"Miscellaneous Region\",
\"category\":\"International\",\"family\":\"iShares\",
\"market_cap\":\"mid\",\"description\":\"The investment
seeks to track the investment results of the MSCI All
Argentina 25\\/50 Index (the \\\\\"underlying 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 index is designed to measure the
broad Argentina equity universe, while including a minimum
number of constituents, as defined by MSCI, Inc. (the \\\\
\\"index provider\\\\\\" or \\\\\\"MSCI\\\\\\"). The
fund is non-diversified.\",\"exchange\":\"Cboe Global
Markets EDGX\"}} ] }'
```

POST get_document_empty_rating_from_cf_etf

http://localhost:9200/cf etf/ search

HEADERS

Content-Type
application/json
accept
application/json
BODY

get document empty rating from cf etf

```
curl --location --request POST "http://localhost:9200/
cf_etf/_search" --header "Content-Type: application/json"
--header "accept: application/json" --data $'{\"query\":
{ \"match\": { \"symbol\":\"AGT\" } } }'
```

POST

simulate_pipeline_conditional_execution_null_safe_operat or

http://localhost:9200/_ingest/pipeline/_simulate

HEADERS

Content-Type
application/json
accept
application/json
BODY

simulate pipeline conditional execution null safe operator

```
curl --location --request POST "http://localhost:9200/
_ingest/pipeline/_simulate" --header "Content-Type:
application/json" --header "accept: application/json" --
data $'{\"pipeline\": { \"description\":\"calculate the
range of high and low and divide by the close price\",
\"processors\":[ {\"set\":{ \"field\": \"new_id\",
\"value\": \"{{id}}}\", \"if\": \"ctx.parent?.child !=
null\" }} ] }, \"docs\" :[ {\"_source\": {\"id\":1,
\"parent\": {\"child\":\"value\"}}}, {\"_source\": {\"id\":
```

```
2, \"parent\": {}}}, {\"_source\": {\"id\":3}} ] }'
```

PUT define_for_market_cap__null_processor

http://localhost:9200/_ingest/pipeline/for_market_cap_null_processor

HEADERS

```
Content-Type
application/json
accept
application/json
BODY
```

Example Request

define_for_market_cap__null_processor

```
curl --location --request PUT "http://localhost:9200/
_ingest/pipeline/for_market_cap_null_processor" --header
"Content-Type: application/json" --header "accept:
application/json" --data $'{\"description\":
```

```
\"for_market_cap_null_processor\", \"processors\":
[ {\"set\":{ \"field\": \"market_cap_type\", \"value\":
\"no_market_cap_ETF\" }} ] }'
```

PUT define_for_market_cap_processor

http://localhost:9200/_ingest/pipeline/for_market_cap_processor

HEADERS

```
Content-Type
application/json
accept
application/json
BODY
```

Example Request

define for market cap processor

```
curl --location --request PUT "http://localhost:9200/
_ingest/pipeline/for_market_cap_processor" --header
```

```
"Content-Type: application/json" --header "accept:
application/json" --data $'{\"description\":
\"for_market_cap_processor\", \"processors\":[ {\"set\":
{ \"field\": \"market_cap_type\", \"value\":
\"market_cap_ETF\" }} ] }'
```

GET symbo_bil_market_cap_null_etf

http://localhost:9200/cf_etf/_search?q=symbol:BIL

HEADERS

Content-Type
application/json
accept
application/json
PARAMS

q symbol:BIL

Example Request

symbo bil market cap null etf

```
curl --location --request GET "http://localhost:9200/
cf_etf/_search?q=symbol:BIL" --header "Content-Type:
application/json" --header "accept: application/json"
```

POST

simulate_pipeline_conditional_execution_switch_case

http://localhost:9200/_ingest/pipeline/_simulate

HEADERS

```
Content-Type
application/json
accept
application/json
```

BODY

simulate pipeline conditional execution switch case

```
curl --location --request POST "http://localhost:9200/
_ingest/pipeline/_simulate" --header "Content-Type:
application/json" --header "accept: application/json" --
data $'{\"pipeline\": { \"description\":\"calculate the
range of high and low and divide by the close price\",
\"processors\":[ {\"pipeline\":{ \"name\":
\"for_market_cap_null_processor\", \"if\": \"ctx.market_cap
== null\" }}, {\"pipeline\":{ \"name\":
\"for_market_cap_processor\", \"if\": \"ctx.market_cap !=
null\" }} ], \"docs\" :[ {\"_source\": {\"id\":1,
\"market_cap\": null}}, {\"_source\": {\"id\":2,
\"market_cap\": \"large\"}} ]}'
```

POST simulate_pipeline_hit_exception_error

http://localhost:9200/_ingest/pipeline/_simulate

HEADERS

Content-Type
application/json
accept
application/json
BODY

simulate pipeline hit exception error

```
curl --location --request POST "http://localhost:9200/
  _ingest/pipeline/_simulate" --header "Content-Type:
application/json" --header "accept: application/json" --
data $'{\"pipeline\": { \"description\":\"test parameter
on_failure when error occurs\", \"processors\":
[{ \"remove\": { \"field\": \"rating\", \"on_failure\":
[ {\\"set\": { \"field\": \"error\\", \"value\\":-1}},
  {\\"set\\": { \"field\\": \"message\\", \"value\\":\"remove
processor failure: {{ _ingest.on_failure_message }}
```

```
\"}} ] } ], \"docs\" :[ {\"_source\": {\"id\":3}} ] }'
CHAPTER9
```