Chapter 2 - Index APIs

Example Request - create_index_cf_etf
PUT http://localhost:9200/cf_etf

```
curl --location --request PUT "http://localhost:9200/cf_etf"
```

Example Request - check_if_exist_index_cf_etf
HEAD http://localhost:9200/cf_etf

```
curl --location --head "http://localhost:9200/cf_etf"
```

Example Request - create_index_with_invalid_index_name
PUT http://localhost:9200/cf:etf

```
curl --location --request PUT "http://localhost:9200/cf:etf"
```

Example Request - get_index_cf_etf
GET http://localhost:9200/cf_etf

```
curl --location --request GET "http://localhost:9200/cf_etf"
```

Example Request - get_invalid_index_name
GET http://localhost:9200/cf:etf

```
curl --location --request GET "http://localhost:9200/cf:etf"
```

Example Request - delete index_cf_etf
DEL http://localhost:9200/cf_etf

```
curl --location --request DELETE "http://localhost:9200/cf_etf"
```

Example Request - close_index_cf_etf
POST http://localhost:9200/cf_etf/_close

```
curl --location --request POST "http://localhost:9200/cf_etf/_close"
```

Example Request - open_index_cf_etf
POST http://localhost:9200/cf_etf/_open

```
curl --location --request POST "http://localhost:9200/cf_etf/_open"
```

Example Request - get_index_settings_cf_etf

GET http://localhost:9200/cf_etf/_settings

```
curl --location --request GET "http://localhost:9200/cf_etf/_settings"
```

Example Request - update_dynamic_index_settings

PUT http://localhost:9200/cf_etf/_settings

HEADERS
Content-Type
application/json

BODY
```
{
        "index": {
                "number_of_replicas": 2
        }
}
```

```
curl --location --request PUT "http://localhost:9200/cf_etf/_settings" --header
"Content-Type: application/json" --data "{ \"index\": { \"number_of_replicas\":
2 } } }"
```

Example Request - update_static_index_settings

PUT http://localhost:9200/cf_etf/_settings

HEADERS
Content-Type
application/json

BODY
```
{
        "index": {
                "codec": "best_compression"
        }
}
```

```
curl --location --request PUT "http://localhost:9200/cf_etf/_settings" --header
"Content-Type: application/json" --data "{ \"index\": { \"codec\":
\"best_compression\" } }"
```

Example Request - create_index_template_cf_etf

PUT http://localhost:9200/_template/cf_etf_template

HEADERS
Content-Type
application/json

BODY
```
{
        "index_patterns": ["cf_etf*"],
        "settings": {
                "number_of_replicas": 2,
                "codec": "best_compression"
        }
}
```

```
curl --location --request PUT "http://localhost:9200/_template/cf_etf_template" --
header "Content-Type: application/json" --data "{ \"index_patterns\": [\"cf_etf*\"],
\"settings\": { \"number_of_replicas\": 2, \"codec\": \"best_compression\" } }"
```


Example Request - get_index_template_cf_etf
GET http://localhost:9200/_template/cf_etf_template

HEADERS
Content-Type
application/json

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


Example Request - check_if_exist_cf_etf_template
HEAD http://localhost:9200/_template/cf_etf_template

HEADERS
Content-Type
application/json

```
curl --location --head "http://localhost:9200/_template/cf_etf_template" --header
"Content-Type: application/json"
```


Example Request - delete_cf_etf_template
DEL http://localhost:9200/_template/cf_etf_template

HEADERS
Content-Type
application/json

```
curl --location --request DELETE "http://localhost:9200/_template/cf_etf_template" --
header "Content-Type: application/json"
```


Example Request - create_index_cf_etf_large
PUT http://localhost:9200/cf_etf_large

HEADERS
Content-Type
application/json

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

Example Request - get_index_cf_etf_large
GET http://localhost:9200/cf_etf_large

HEADERS
Content-Type
application/json

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

Example Request - create_alias_cf_etf_1
PUT http://localhost:9200/cf_etf/_alias/cf_etf_1

HEADERS
Content-Type
application/json

```
curl --location --request PUT "http://localhost:9200/cf_etf/_alias/cf_etf_1" --header
"Content-Type: application/json"
```

Example Request - get_alias_cf_etf_1
GET http://localhost:9200/cf_etf/_alias/cf_etf_1

HEADERS
Content-Type
application/json

```
curl --location --request GET "http://localhost:9200/cf_etf/_alias/cf_etf_1"  --header
"Content-Type: application/json"
```

Example Request - create_index_cf_etf_to_be_deleted
PUT http://localhost:9200/cf_etf_to_be_deleted

HEADERS
Content-Type
application/json

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

Example Request - check_if_existcf_etf_alias_cf_etf_1
HEAD http://localhost:9200/cf_etf/_alias/cf_etf_1

HEADERS
```

Content-Type
application/json

```
curl --location --head "http://localhost:9200/cf_etf/_alias/cf_etf_1" --header
"Content-Type: application/json"
```

Example Request - delete_cf_etf__alias_cf_etf_1

DEL http://localhost:9200/cf_etf/_alias/cf_etf_1

HEADERS
Content-Type
application/json

```
curl --location --request DELETE "http://localhost:9200/cf_etf/_alias/cf_etf_1" --
header "Content-Type: application/json"
```

Example Request - create_index_cf_etf_new

PUT http://localhost:9200/cf_etf_new

```
curl --location --request PUT "http://localhost:9200/cf_etf_new"
```

Example Request - create_alias_cf_etf_production

PUT http://localhost:9200/cf_etf/_alias/cf_etf_production

HEADERS
Content-Type
application/json

```
curl --location --request PUT "http://localhost:9200/cf_etf/_alias/cf_etf_production"
```

Example Request - reindexing_with_zero_downtime_by_aliases

POST http://localhost:9200/_aliases

HEADERS
Content-Type
application/json

BODY
```
{
      "actions" : [
              {"remove": {"index":"cf_etf", "alias":"cf_etf_production"}},
              {"add": {"index": "cf_etf_new", "alias": "cf_etf_production"}}
      ]
}
```

```
curl --location --request POST "http://localhost:9200/_aliases" --header "Content-
Type: application/json" --data "{ \"actions\" : [ {\"remove\": {\"index\":\"cf_etf\",
\"alias\":\"cf_etf_production\"}}, {\"add\": {\"index\": \"cf_etf_new\", \"alias\":
\"cf_etf_production\"}} ] }"
```

Example Request - create_index_cf_etf_mid
PUT http://localhost:9200/cf_etf_mid

HEADERS
Content-Type
application/json

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

Example Request - create_index_cf_etf_small
PUT http://localhost:9200/cf_etf_small

HEADERS
Content-Type
application/json

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

Example Request - create_index_cf_etf_others

PUT http://localhost:9200/cf_etf_others

HEADERS
Content-Type
application/json

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

Example Request - create_alias_cf_etf_alias
PUT http://localhost:9200/cf*/_alias/cf_etf_alias

HEADERS
Content-Type
application/json

```
curl --location --request PUT "http://localhost:9200/cf*/_alias/cf_etf_alias" --header
"Content-Type: application/json"
```

Example Request - get_cf_etf_alias
GET http://localhost:9200/cf*/_alias/cf_etf_alias

HEADERS
Content-Type

application/json

```
curl --location --request GET "http://localhost:9200/cf*/_alias/cf_etf_alias" --header
"Content-Type: application/json"
```

Example Request - create_index_cf_view
PUT http://localhost:9200/cf_view

HEADERS
Content-Type
application/json

BODY
```
{
        "mappings": {
                "properties": {
                        "symbol": {"type": "keyword"},
                        "category": {"type": "keyword"}
                }
        }
}
```

```
curl --location --request PUT "http://localhost:9200/cf_view" --header "Content-Type:
application/json" --data "{ \"mappings\": { \"properties\": { \"symbol\": {\"type\":
\"keyword\"}, \"category\": {\"type\": \"keyword\"} } } }"
```

Example Request - index_cf_view_doc_ACWF
POST http://localhost:9200/cf_view/_doc/1

HEADERS
Content-Type
application/json

BODY
```
{ "symbol":"ACWF", "category":"Equity"}
```

```
curl --location --request POST "http://localhost:9200/cf_view/_doc/1" --header
"Content-Type: application/json" --data "{ \"symbol\":\"ACWF\",
\"category\":\"Equity\"}"
```

Example Request - index_cf_view_doc_ACWI
POST http://localhost:9200/cf_view/_doc

HEADERS
Content-Type
application/json

BODY
```
{ "symbol":"ACWI", "category":"International"}
```

```
curl --location --request POST "http://localhost:9200/cf_view/_doc" --header "Content-
Type: application/json" --data "{ \"symbol\":\"ACWI\",
\"category\":\"International\"}"
```

Example Request - create_cf_view_international_aliases
POST http://localhost:9200/_aliases

HEADERS
Content-Type
application/json

BODY
```
{
       "actions":[
               {"add":{"index":"cf_view", "alias":"cf_view_international",
"filter":{"term":{"category":"International"}}}}
       ]
}
```

```
curl --location --request POST "http://localhost:9200/_aliases" --header "Content-
Type: application/json" --data "{ \"actions\":[ {\"add\":{\"index\":\"cf_view\",
\"alias\":\"cf_view_international\",
\"filter\":{\"term\":{\"category\":\"International\"}}}} ] }"
```

Example Request - search_cf_view_international
GET http://localhost:9200/cf_view_international/_search

HEADERS
Content-Type
application/json

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

Example Request - search_cf_view
GET http://localhost:9200/cf_view/_search

HEADERS
Content-Type
application/json

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

Example Request - get_cf_view_stats
GET http://localhost:9200/cf_view/_stats

HEADERS
Content-Type
application/json
```

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

Example Request - get_cf_view_segments

GET http://localhost:9200/cf_view/_segments

HEADERS
Content-Type
application/json

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

Example Request - get_cf_view_recovery

GET http://localhost:9200/cf_view/_recovery

HEADERS
Content-Type
application/json

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

Example Request - get_cf_view_shard_stores

GET http://localhost:9200/cf_view/_shard_stores

HEADERS
Content-Type
application/json

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

Example Request - clear_cf_view_query_cache

POST http://localhost:9200/cf_view/_cache/clear?query=true

HEADERS
Content-Type
application/json

PARAMS
query
true

BODY
```
{
}
```

```
curl --location --request POST "http://localhost:9200/cf_view/_cache/clear?query=true"
--header "Content-Type: application/json" --data "{}"
```

Example Request - create_cf_view_request_cache

POST http://localhost:9200/cf_view/_cache/clear?request=true

HEADERS
Content-Type
application/json

PARAMS
request
true

BODY
```
{
}
```

```
curl --location --request POST
"http://localhost:9200/cf_view/_cache/clear?request=true" --header "Content-Type:
application/json" --data "{}"
```

Example Request - clear_cf_view_fielddata_cache

POST http://localhost:9200/cf_view/_cache/clear?fielddata=true

HEADERS
Content-Type
application/json

PARAMS
fielddata
true

BODY
```
{
}
```

```
curl --location --request POST
"http://localhost:9200/cf_view/_cache/clear?fielddata=true"  --header "Content-Type:
application/json" --data "{}"
```

Example Request - cf_view_refresh_action

POST http://localhost:9200/cf_view/_refresh

HEADERS
Content-Type
application/json

BODY
```
{
}
```

```
curl --location --request POST "http://localhost:9200/cf_view/_refresh" --header
"Content-Type: application/json" --data "{}"
```

Example Request - cf_view_flush_action

POST http://localhost:9200/cf_view/_flush

HEADERS
Content-Type
application/json

BODY
```
{
}
```

```
curl --location --request POST "http://localhost:9200/cf_view/_flush" --header
"Content-Type: application/json" --data "{}"
```

Example Request - cf_view_flush_synced_action

POST http://localhost:9200/cf_view/_flush/synced

HEADERS
Content-Type
application/json

BODY
```
{
}
```

```
curl --location --request POST "http://localhost:9200/cf_view/_flush/synced" --header
"Content-Type: application/json" --data "{}"
```

Example Request - cf_view_forcemerge_action

POST http://localhost:9200/cf_view/_forcemerge

HEADERS
Content-Type
application/json

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

Example Request - update_cf_etf_read_only_settings

PUT http://localhost:9200/cf_etf/_settings

HEADERS
Content-Type
application/json

BODY

```
{
        "settings": {
                "index.blocks.write": true
        }
}
```

```
curl --location --request PUT "http://localhost:9200/cf_etf/_settings" --header
"Content-Type: application/json" --data "{ \"settings\": { \"index.blocks.write\":
true } }"
```

Example Request - cf_etf_split_action

POST http://localhost:9200/cf_etf/_split/cf_etf_split

HEADERS
Content-Type
application/json

BODY
```
{
        "settings": {
                "index.number_of_shards": 4
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_split/cf_etf_split" --
header "Content-Type: application/json" --data "{ \"settings\":
{ \"index.number_of_shards\": 4 } }"
```

Example Request - update_cf_etf_split_settings_for_shrink

PUT http://localhost:9200/cf_etf_split/_settings

HEADERS
Content-Type
application/json

BODY
```
{
        "settings": {
                "index.routing.allocation.require._name":"shrink_node_name",
                "index.blocks.write": true
        }
}
```

```
curl --location --request PUT "http://localhost:9200/cf_etf_split/_settings" --header
"Content-Type: application/json" --data "{ \"settings\":
{ \"index.routing.allocation.require._name\":\"shrink_node_name\",
\"index.blocks.write\": true } }"
```

Example Request - cf_etf_split_shrink_action

PUT http://localhost:9200/cf_etf_split/_shrink/cf_etf_shrink?copy_settings=true

HEADERS

Content-Type
application/json

PARAMS
copy_settings
true

BODY

```
{
        "settings": {
                "index.number_of_shards": 2,
                "index.routing.allocation.require._name": null,
                "index.blocks.write": null
        }
}
```

```
curl --location --request PUT
"http://localhost:9200/cf_etf_split/_shrink/cf_etf_shrink?copy_settings=true" --header
"Content-Type: application/json" --data "{ \"settings\": { \"index.number_of_shards\":
2, \"index.routing.allocation.require._name\": null, \"index.blocks.write\": null } }"
```

Example Request - create_index_rollover-000001
PUT http://localhost:9200/rollover-000001

HEADERS
Content-Type
application/json

BODY

```
{
        "settings": {
                "rollover_alias":{}
        }
}
```

```
curl --location --request PUT "http://localhost:9200/rollover-000001" --header
"Content-Type: application/json" --data "{ \"settings\": { \"rollover_alias\":{} } }"
```

Example Request - rollover_index_rollover-000001
POST http://localhost:9200/rollover_alias/_rollover

HEADERS
Content-Type
application/json

BODY

```
{
        "settings": {
                "rollover_alias":{}
        }
}
```

```
curl --location --request POST "http://localhost:9200/rollover_alias/_rollover" --
header "Content-Type: application/json" --data
$'{\"settings\":{\"rollover_alias\":{}}}'
```

CHAPTER 2