

Команды очистки кэша

```
sudo sh -c 'echo 1 >/proc/sys/vm/drop_caches'
sudo sh -c 'echo 2 >/proc/sys/vm/drop_caches'
sudo sh -c 'echo 3 >/proc/sys/vm/drop_caches'
```

docker-compose.yml

```
version: '3'
services:
  opensearch: # This is also the hostname of the container within the Docker
network (i.e. https://opensearch-node1/)
    image: opensearchproject/opensearch:latest
    container_name: opensearch-node1
    environment:
      - cluster.name=mycluster
      - discovery.type=single-node
      - OPENSEARCH_INITIAL_ADMIN_PASSWORD=S1u2pe3r4a5dmin!
    ports:
      - 9200:9200 # REST API
      - 9600:9600 # Performance Analyzer
```

проверка корректной работы opensearch

```
curl -XGET "https://localhost:9200" \
  -u 'admin:S1u2pe3r4a5dmin!' \
  --insecure
```

создание индекса

```
curl -XPUT "https://localhost:9200/wiki" \
  -u 'admin:S1u2pe3r4a5dmin!' \
  --insecure
```

добавляем данные

```
curl -X POST "https://localhost:9200/wiki/_doc/?pretty" \
  -u 'admin:S1u2pe3r4a5dmin!' \
  --insecure \
  -H 'Content-Type: application/json' -d '{
  "title": "value1",
  "description": "value2"
}'
```

```
curl -X GET "https://localhost:9200/wiki/_doc/ИД_ДОКУМЕНТА_ИЗ_ОТВЕТА_СЕРВЕРА?
pretty" \
  -u 'admin:S1u2pe3r4a5dmin!' \
  --insecure \
  -H 'Content-Type: application/json'
```

добавляем данные с нашим id документа

```
curl -X POST "https://localhost:9200/wiki/_doc/1?pretty" -u
'admin:S1u2pe3r4a5dmin!' --insecure -H 'Content-Type:
application/json' -d '{
  "title": "value1",
  "description": "value2"
}'
```

маппинг данных

```
curl -X POST "https://localhost:9200/wiki/_mapping?pretty" \
  -u 'admin:S1u2pe3r4a5dmin!' --insecure \
  -H 'Content-Type: application/json' -d '{
    "properties": {
      "title": { "type": "text" },
      "descr": { "type": "text" },
      "comments": { "type": "text" },
      "decision": { "type": "text" },
      "date": { "type": "date" }
    }
  }'
```

добавляем пример данных 1

```
curl -X POST "https://localhost:9200/wiki/_doc/2?pretty" -u
'admin:S1u2pe3r4a5dmin!' --insecure -H 'Content-Type:
application/json' -d '{
  "title": "инцидент 2",
  "descr": "открытие вклада резиденту согласно положению ЦБ",
  "comments": "произошла ошибка открытия счета",
  "decision": "запустить повторно",
  "date": "2024-01-25"
}'
```

добавляем пример данных 2

```
curl -X POST "https://localhost:9200/wiki/_doc/3?pretty" -u
'admin:S1u2pe3r4a5dmin!' --insecure -H 'Content-Type:
application/json' -d '{
  "title": "инцидент 3",
  "descr": "формирование платежа на выплату ипотеки",
  "comments": "произошла ошибка открытия счета",
  "decision": "запустить повторно",
  "date": "2024-01-26"
}'
```

добавляем пример данных 3

```
curl -X POST "https://localhost:9200/wiki/_doc/4?pretty" -u
'admin:S1u2pe3r4a5dmin!' --insecure -H 'Content-Type:
application/json' -d '{
  "title": "шаблон на отпуск",
  "descr": "загрузить шаблон на отпуск для резидентов",
  "short_descr": "шаблоны",
  "resolution": "выполнено",
  "date": "2024-01-27"
}'
```

поиск всего

```
curl -X GET "https://localhost:9200/wiki/_search?pretty" -u
'admin:S1u2pe3r4a5dmin!' --insecure -H 'Content-Type: application/json' -d '{
  "query": {
    "match_all": {}
  }
}'
```

поиск по совпадению

```
curl -X GET "https://localhost:9200/wiki/_search?pretty" -u
'admin:S1u2pe3r4a5dmin!' --insecure -H 'Content-Type: application/json' -d '{
  "query": {
    "match": {
      "title": "шаблон на отпуск"
    }
  }
}'
```

поиск по неточному сопадению

```
curl -X GET "https://localhost:9200/wiki/_search?pretty" \
-u 'admin:S1u2pe3r4a5dmin!' --insecure \
-H 'Content-Type: application/json' -d '{
  "query": {
    "match_phrase": {
      "descr": "резидентов"
    }
  }
}'
```

или

```
curl -X GET "https://localhost:9200/wiki/_search?pretty" \
-u 'admin:S1u2pe3r4a5dmin!' --insecure \
-H 'Content-Type: application/json' -d '{
  "query": {
    "wildcard": {
      "descr": "*резидентов*"
    }
  }
}'
```

поиск используя multi-match

```
curl -X GET "https://localhost:9200/wiki/_search?pretty" \
-u 'admin:S1u2pe3r4a5dmin!' --insecure \
-H 'Content-Type: application/json' -d '{
  "query": {
    "multi_match": {
      "query": "резидентов",
      "fields": ["title", "descr", "decision"],
      "type": "phrase_prefix"
    }
  }
}'
```

сортировка результатов

```
curl -X GET "https://localhost:9200/wiki/_search?pretty" -u
'admin:S1u2pe3r4a5dmin!' --insecure -H 'Content-Type: application/json' -d '{
  "query": { "match_all": {} },
  "sort": [
    { "date": { "order": "desc" } }
  ]
}'
```

поиск с бустингом результатов

```
curl -X GET "https://localhost:9200/wiki/_search?pretty" -u
'admin:S1u2pe3r4a5dmin!' --insecure -H 'Content-Type: application/json' -d '{
  "query": {
    "function_score": {
      "query": { "match": { "title": "инцидент" }},
      "boost": "5",
      "boost_mode": "multiply"
    }
  }
}'
```

обновление данных документа в индексе

```
curl -X POST "https://localhost:9200/wiki/_update/2?pretty" -u
'admin:S1u2pe3r4a5dmin!' --insecure -H 'Content-Type: application/json' -d '{
  "doc": {
    "comments": "Обновленный комментарий"
  }
}'
```

удаление документа

```
curl -X DELETE "https://localhost:9200/wiki/_doc/2?pretty" -u
'admin:S1u2pe3r4a5dmin!' --insecure
```