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# Тестирование быстродействия системы

## Мониторинг производительности БД

Данная инструкция предназначена для мониторинга производительности БД [PostgreSQL](#), решение для [Microsoft SQL Server](#) отсутствует.

Мониторинг времени выполнения запросов в БД [PostgreSQL](#) осуществляется с помощью инструмента pgBadger. pgbadger – это анализатор журналов Postgres Pro/[PostgreSQL](#), который быстро строит подробные отчёты, обрабатывая файлы журналов сервера.

Инструкция по установке pgBadger и мониторингу: 1. Установить pgBadger. Анализатор устанавливается на Linux-сервере БД [PostgreSQL](#).

```
sudo apt install pgbadger
```

2. Настроить логирование.

```
log_line_prefix = '%t [%p]: [%l-1] '
log_statement = 'none'
log_min_duration_statement = 1
log_checkpoints = on
log_connections = on
log_disconnections = on
log_lock_waits = on
log_temp_files = 0
log_autovacuum_min_duration = 0
logging_collector = on
log_directory = '/var/log/postgresquerylog/'
log_filename = 'postgresql.log'
log_destination = 'csvlog,stderr'
```

`log_min_duration_statement` – параметр, который отвечает за попадание запросов длительностью более `log_min_duration_statement` секунд в лог для изучения инструментом pgBadger.

3. Создать папку для логов.

```
mkdir -p /var/log/
```

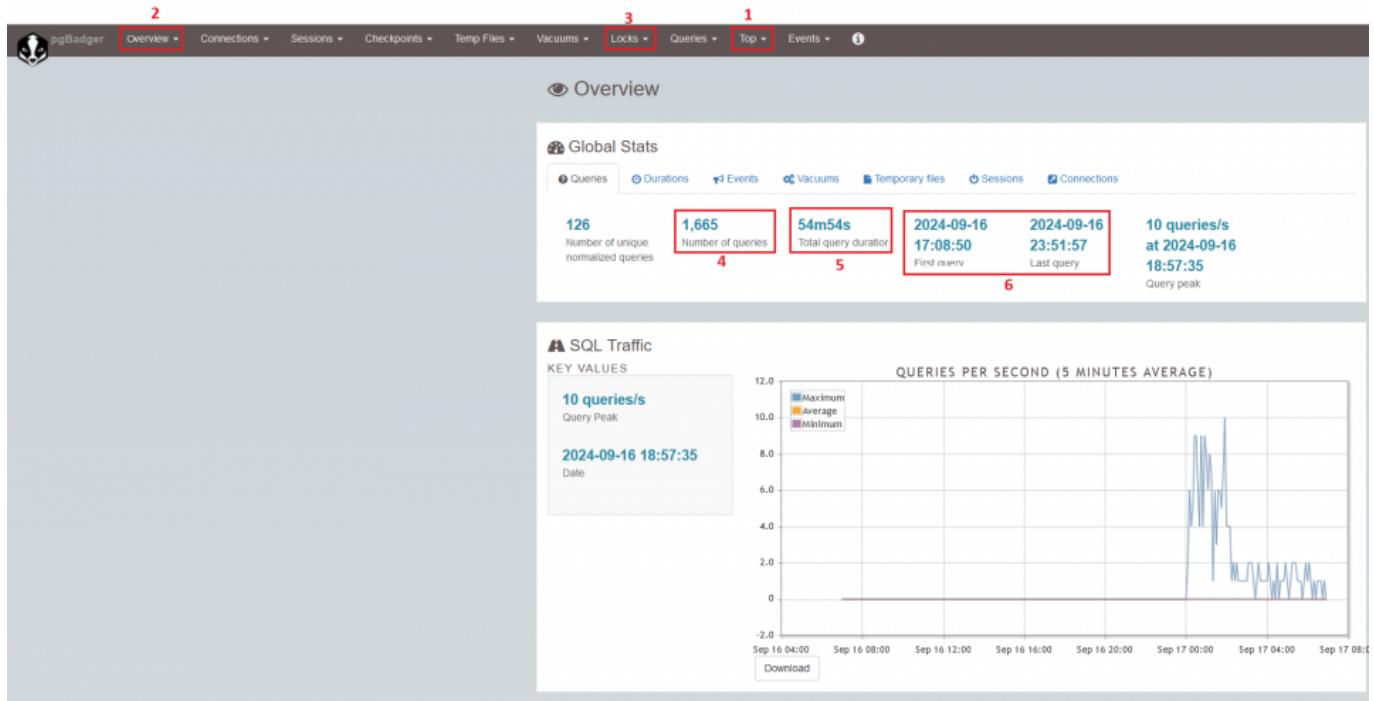
4. Снять отчет.

```
cat /rs-analyse/log/postgresql-2024-09-16*.log | grep -viE "create
index|insert into analytics|vacuum analyze analytics" > /rs-
analyse/log/pg_clean.log
```

## 5. Сгенерировать html-файл.

```
pgbadger -j 4 /rs-analyse/log/pg_clean.log
```

Пример отчета:



Дополнительную информацию можно посмотреть на страницах:

- [Описание pgBadger](#);
- [Установка и настройка pgBadger](#).

## Мониторинг производительности логов IIS

Мониторинг производительности логов IIS (Internet Information Services) осуществляется с помощью платформы [OpenSearch](#).

[OpenSearch](#) – это открытая поисковая и аналитическая платформа, основанная на Elasticsearch. Она была создана Amazon в ответ на изменения в лицензировании Elasticsearch и предоставляет возможности для полнотекстового поиска, анализа данных и визуализации. Состоит из нескольких инструментов:

- OpenSearch Dashboard – интерфейс для визуализации и анализа данных;
- Logstash – централизованная работа с логами;

- OpenSearch – ядро системы, обеспечивающее функции полнотекстового поиска, индексации и анализа данных.

В данном случае [OpenSearch](#) используется как централизованный инструмент хранилища логов для хранения:

- логов IIS (через инструмент FileBeat);
- логов приложения (SeriLog Sinks);
- ошибок приложения (SeriLog Sinks);
- аудита действий пользователей.

На платформе возможен импорт текстовых файлов логов IIS для анализа производительности и проблем.

Пример лога:

```

1 #Software: Microsoft Internet Information Services 10.0
2 #Version: 1.0
3 #Date: 2024-09-24 00:00:00
4 #Fields: date time s-ip cs-method cs-uri-stem cs-uri-query s-port cs-username c-ip cs(User-Agent) cs>Status sc-status sc-substatus sc-win32-status time-taken
5 2024-09-24 00:00:00 192.168.49.5 GET /components/Services/APIService.ashx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 10
6 2024-09-24 00:00:00 192.168.49.5 POST /components/Services/APIService.ashx - 443 apil23 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 19
7 2024-09-24 00:00:00 192.168.49.5 POST /components/Services/APIService.ashx - 443 apil23 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 22
8 2024-09-24 00:00:00 192.168.49.5 POST /components/Services/APIService.ashx - 443 apil23 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 42
9 2024-09-24 00:00:00 192.168.49.5 POST /components/Services/APIService.ashx - 443 apil23 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 24
10 2024-09-24 00:00:00 192.168.49.5 POST /components/Services/APIService.ashx - 443 apil23 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 24
11 2024-09-24 00:00:01 192.168.49.5 GET /components/services/APIProjects.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 13
12 2024-09-24 00:00:01 192.168.49.5 POST /components/services/Login.ashmx wsd1 443 triggers 192.168.49.11 - 200 0 0 16
13 2024-09-24 00:00:01 192.168.49.5 POST /components/services/Login.ashmx wsd1 443 triggers 192.168.49.11 - 200 0 0 12
14 2024-09-24 00:00:01 192.168.49.5 GET /components/Services/APIService.ashx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 9
15 2024-09-24 00:00:01 192.168.49.5 GET /components/Services/APIService.ashx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 10
16 2024-09-24 00:00:01 192.168.49.5 GET /components/services/login.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 7
17 2024-09-24 00:00:01 192.168.49.5 POST /components/Services/APIProjects.ashmx wsd1 443 triggers 192.168.49.11 - 200 0 0 656
18 2024-09-24 00:00:02 192.168.49.5 GET /components/services/APIProjects.ashmx wsd1 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 9
19 2024-09-24 00:00:02 192.168.49.5 GET /components/Services/APIService.ashx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 10
20 2024-09-24 00:00:02 192.168.49.5 GET /components/Services/APIProjects.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 12
21 2024-09-24 00:00:02 192.168.49.5 GET /components/Services/APIProjects.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 8
22 2024-09-24 00:00:02 192.168.49.5 GET /components/Services/APIProjects.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 7
23 2024-09-24 00:00:04 192.168.49.5 POST /components/Services/PageState.ashx action=QueryState 443 Anastasia 192.168.49.11 Mozilla/5.0+(Windows+NT+10.0;+Win64+x64)+AppleWebKit/537.36+(KHTMLML,+like+Gecko)+Chrome/128.0.0.0+safe/537.3
24 2024-09-24 00:00:04 192.168.49.5 GET /signalr/ping _-1727090703222 443 Anastasia 192.168.49.11 Mozilla/5.0+(Windows+NT+10.0;+Win64+x64)+AppleWebKit/537.36+(KHTMLML,+like+Gecko)+Chrome/128.0.0.0+safe/537.3
25 2024-09-24 00:00:04 192.168.49.5 GET /signalr/ping _-1727090703222 443 Anastasia 192.168.49.11 Mozilla/5.0+(Windows+NT+10.0;+Win64+x64)+AppleWebKit/537.36+(KHTMLML,+like+Gecko)+Chrome/128.0.0.0+safe/537.3
26 2024-09-24 00:00:05 192.168.49.5 GET /components/Services/SystemUtil.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 10
27 2024-09-24 00:00:05 192.168.49.5 GET /components/services/login.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 146
28 2024-09-24 00:00:06 192.168.49.5 GET /components/Services/APIService.ashx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 146
29 2024-09-24 00:00:06 192.168.49.5 POST /components/Services/APIService.ashx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 8
30 2024-09-24 00:00:06 192.168.49.5 GET /components/services/persons.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 9
31 2024-09-24 00:00:06 192.168.49.5 GET /components/Services/APIService.ashx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 9
32 2024-09-24 00:00:06 192.168.49.5 GET /components/services/persons.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 15
33 2024-09-24 00:00:08 192.168.49.5 GET /components/Services/APIDiscussions.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 9
34 2024-09-24 00:00:08 192.168.49.5 GET /components/Services/APIDiscussions.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 7
35 2024-09-24 00:00:08 192.168.49.5 GET /components/Services/APIProjects.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 9
36 2024-09-24 00:00:10 192.168.49.5 GET /components/Services/APIPlans.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 6
37 2024-09-24 00:00:10 192.168.49.5 GET /signalr/ping _-1727080260199 443 olga.lovvypina@advanta-group.ru 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 8
38 2024-09-24 00:00:10 192.168.49.5 GET /signalr/ping _-1727080260199 443 olga.lovvypina@advanta-group.ru 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 9
39 2024-09-24 00:00:10 192.168.49.5 GET /components/Services/APIPlans.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 9
40 2024-09-24 00:00:10 192.168.49.5 GET /components/Services/APIPlans.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 7
41 2024-09-24 00:00:10 192.168.49.5 GET /components/Services/SystemUtil.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 6
42 2024-09-24 00:00:10 192.168.49.5 POST /components/Services/PageState.ashx action=QueryState 443 Tatjana 192.168.49.11 Mozilla/5.0+(Windows+NT+10.0;+Win64+x64)+AppleWebKit/537.36+(KHTMLML,+like+Gecko)+Chrome/128.0.0.0+safe/537.3
43 2024-09-24 00:00:11 192.168.49.5 GET /components/Services/SystemUtil.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 6
44 2024-09-24 00:00:11 192.168.49.5 GET /components/services/persons.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 8
45 2024-09-24 00:00:13 192.168.49.5 POST /components/services/login.ashmx - 443 - 192.168.49.11 ChangeContext-Authenticate_Request - 200 0 0 19
46 2024-09-24 00:00:13 192.168.49.5 POST /components/Services/APIService.ashx - 443 apil23 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 24
47 2024-09-24 00:00:13 192.168.49.5 POST /components/Services/APIService.ashx - 443 apil23 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 190
48 2024-09-24 00:00:13 192.168.49.5 GET /components/Services/APIDiscussions.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 7
49 2024-09-24 00:00:15 192.168.49.5 GET /components/Services/APIPlans.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 6
50 2024-09-24 00:00:17 192.168.49.5 POST /components/Services/APIPlans.ashmx WSDL 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 7
51 2024-09-24 00:00:19 192.168.49.5 GET /signalr/ping _-1727080260199 443 volokova_192.168.49.11 Mozilla/5.0+(Windows+NT+10.0;+Win64+x64)+AppleWebKit/537.36+(KHTMLML,+like+Gecko)+Chrome/128.0.0.0+safe/537.3
52 2024-09-24 00:00:19 192.168.49.5 GET /signalr/ping _-1727080260199 443 volokova_192.168.49.11 Mozilla/5.0+(Windows+NT+10.0;+Win64+x64)+AppleWebKit/537.36+(KHTMLML,+like+Gecko)+Chrome/128.0.0.0+safe/537.3
53 2024-09-24 00:00:21 192.168.49.5 POST /components/Services/PageState.ashx action=QueryState 443 aghukharenko_192.168.49.11 Mozilla/5.0+(Windows+NT+10.0;+Win64+x64)+AppleWebKit/537.36+(KHTMLML,+like+Gecko)+Chrome/128.0.0.0+safe/537.3
54 2024-09-24 00:00:21 192.168.49.5 POST /components/Services/PageState.ashx action=QueryState 443 aghukharenko_192.168.49.11 Mozilla/5.0+(Windows+NT+10.0;+Win64+x64)+AppleWebKit/537.36+(KHTMLML,+like+Gecko)+Chrome/128.0.0.0+safe/537.3
55 2024-09-24 00:00:28 192.168.49.5 GET /signalr/ping _-1727072992354 443 mbugaykiv 192.168.49.11 Mozilla/5.0+(Windows+NT+10.0;+Win64+x64)+AppleWebKit/537.36+(KHTMLML,+like+Gecko)+Chrome/128.0.0.0+safe/537.3
56 2024-09-24 00:00:28 192.168.49.5 GET /signalr/ping _-1727072992355 443 mbugaykiv 192.168.49.11 Mozilla/5.0+(Windows+NT+10.0;+Win64+x64)+AppleWebKit/537.36+(KHTMLML,+like+Gecko)+Chrome/128.0.0.0+safe/537.3
57 2024-09-24 00:00:29 192.168.49.5 POST /components/services/login.ashmx - 443 - 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 18
58 2024-09-24 00:00:29 192.168.49.5 POST /components/Services/APIService.ashx - 443 apil23 192.168.49.11 Mozilla/4.0+(compatible;+MSIE+6.0;+MS+Web+Services+Client+Protocol+4.0.30319.42000) - 200 0 0 206

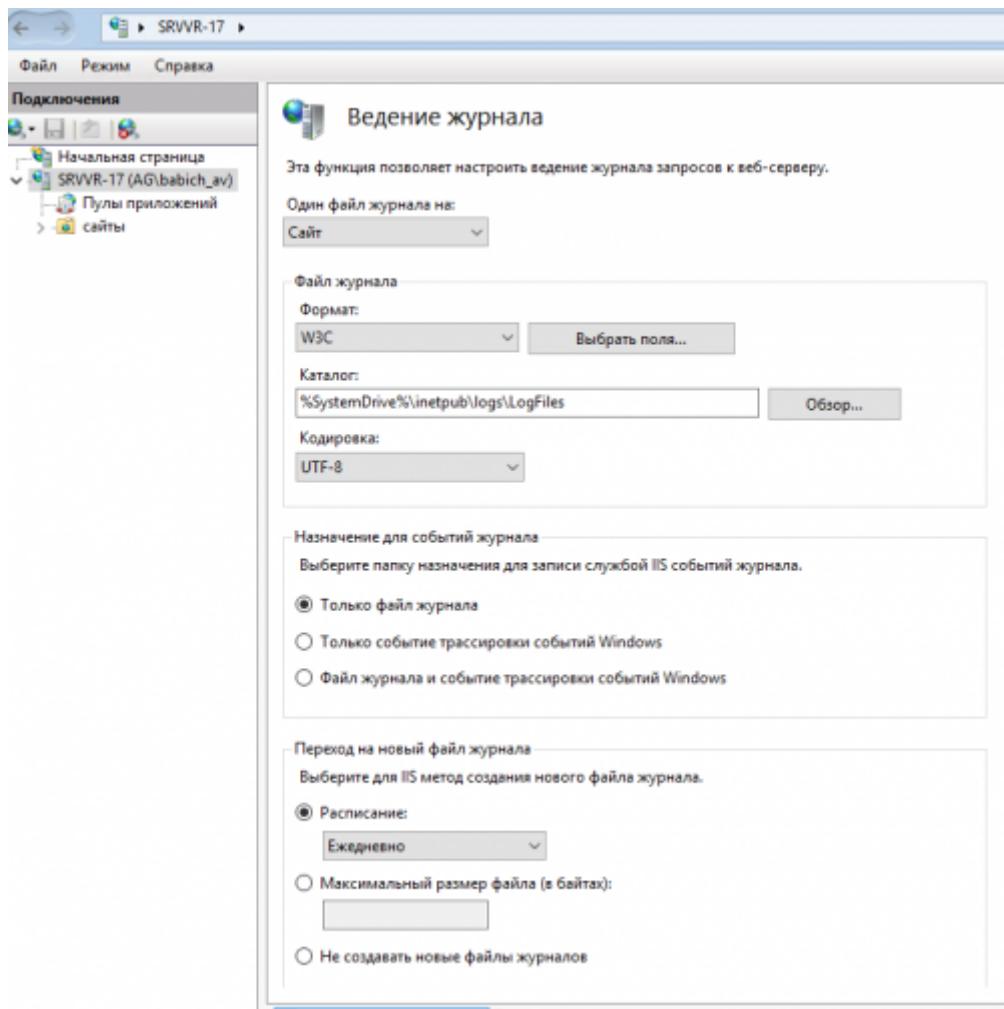
```

Поля:

- date;
- time;
- sip;
- csmethod;
- csuristem;
- csuriquery;
- sport;
- csusername;
- cip;
- csUserAgent;
- csReferer;
- scstatus;

- scsubstatus;
- scwin32status;
- timetaken.

Путь, по которому можно найти логи IIS:



Пример импортированного файла логов IIS в [OpenSearch](#):

**OpenSearch Dashboards**

**Discover**

Selected fields: `_source`

Available fields: `_id`, `_index`, `_score`, `_type`, `c-ip`, `cs-method`, `cs-uri-query`, `cs-uri-stem`, `cs-username`, `csReferer`, `csUser-Agent`, `s-ip`, `s-port`, `sc-status`, `sc-substatus`, `sc-win32-status`, `time-taken`, `timestamp`

Time: `2024-09-03 00:00` - `2024-09-05 00:00` - `2024-09-07 00:00` - `2024-09-09 00:00` - `2024-09-11 00:00` - `2024-09-13 00:00` - `2024-09-15 00:00` - `2024-09-17 00:00` - `2024-09-19 00:00` - `2024-09-21 00:00` - `2024-09-23 00:00` - `2024-09-25 00:00` - `2024-09-27 00:00` - `2024-09-29 00:00` - `2024-09-30 00:00` - `2024-10-01 00:00`

timestamp per 12 hours

**Expanded document**

Table: JSON

View surrounding documents | View single document

Selected document:

```

{
  "timestamp": "Sep 24, 2024 @ 09:52:08.000",
  "source": "...",
  "time-taken": 8,
  "s-ip": "192.168.49.5",
  "c-ip": "192.168.49.11",
  "cs-user-agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/129.0.0.0 Safari/537.36",
  "cs-referer": "https://a2nta.ru/cmn.aspx?pageName=Home_Default",
  "cs-method": "GET",
  "cs-uri-query": "/signalr/ping",
  "cs-uri-stem": "/signalr/ping",
  "sc-status": 200,
  "sc-substatus": 0,
  "sc-win32-status": 0,
  "s-port": 443,
  "c-ip": "192.168.49.11",
  "c-port": 1727163724625,
  "sc-win32-status": 0,
  "time-taken": 8,
  "id": "b5bbc4-8cd0-415e-a895-93927ed43dc2",
  "index": "iis-logs",
  "score": 1.26
}

```

Selected document:

```

{
  "timestamp": "Sep 24, 2024 @ 09:52:07.999",
  "source": "...",
  "time-taken": 8,
  "s-ip": "192.168.49.5",
  "c-ip": "192.168.49.11",
  "cs-user-agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/129.0.0.0 Safari/537.36",
  "cs-referer": "https://a2nta.ru/cmn.aspx?pageName=Home_Default",
  "cs-method": "GET",
  "cs-uri-query": "/events/pageNumber=1&pageSize=10&filter=$0&authorId=50&filter=$0&eventTypeId=50&filter=$0&startDateTime=$0&filter=$0&endDateTime=$0",
  "cs-uri-stem": "/events",
  "sc-status": 200,
  "sc-substatus": 0,
  "sc-win32-status": 0,
  "s-port": 443,
  "c-ip": "192.168.49.11",
  "c-port": 1727163724625,
  "sc-win32-status": 0,
  "time-taken": 8,
  "id": "8a2de61",
  "index": "iis-logs",
  "score": 1.26
}

```

## Примеры скриншотов из OpenSearch Dashboards:

**OpenSearch Dashboards**

**Discover**

Selected fields: `_source`

Available fields: `_id`, `_index`, `_score`, `_type`, `c-ip`, `cs-method`, `cs-uri-query`, `cs-uri-stem`, `cs-username`, `csReferer`, `csUser-Agent`, `s-ip`, `s-port`, `sc-status`, `sc-substatus`, `sc-win32-status`, `time-taken`, `timestamp`

Time: `2024-09-03 00:00` - `2024-09-05 00:00` - `2024-09-07 00:00` - `2024-09-09 00:00` - `2024-09-11 00:00` - `2024-09-13 00:00` - `2024-09-15 00:00` - `2024-09-17 00:00` - `2024-09-19 00:00` - `2024-09-21 00:00` - `2024-09-23 00:00` - `2024-09-25 00:00` - `2024-09-27 00:00` - `2024-09-29 00:00` - `2024-10-01 00:00`

Count: 108,229 hits

Last 30 days

Refresh

108,229 hits

Sep 2, 2024 @ 10:56:43.375 - Oct 2, 2024 @ 10:56:43.375 per Auto

Timestamps per 12 hours

Time: `2024-09-03 00:00` - `2024-09-05 00:00` - `2024-09-07 00:00` - `2024-09-09 00:00` - `2024-09-11 00:00` - `2024-09-13 00:00` - `2024-09-15 00:00` - `2024-09-17 00:00` - `2024-09-19 00:00` - `2024-09-21 00:00` - `2024-09-23 00:00` - `2024-09-25 00:00` - `2024-09-27 00:00` - `2024-09-29 00:00` - `2024-10-01 00:00`

Source: `.../signalr/ping`

Selected document:

```

{
  "timestamp": "Sep 24, 2024 @ 09:46:37.000",
  "source": ".../signalr/ping",
  "time-taken": 411,
  "s-ip": "192.168.49.5",
  "c-ip": "192.168.49.11",
  "cs-user-agent": "dmitrii.shiptsina@advanta-group.ru",
  "cs-referer": "https://a2nta.ru/cmn.aspx?pageName=Projects.Projects.ProjectId=3aa2ax91-6ed4-435e-8dd8-daa379ad2cc0",
  "cs-method": "POST",
  "cs-uri-query": "transport=webSockets&clientProtocol=2.3&connectionToken=D26552B8d1A10zVUoF1Hm02Tm0H1Gt6n0V2R3mQ1Yuep1152kn0dV3oJgFtE14Z50Y9nBkFx792d6v17z5QpD90AmesWkXv3Rn0F7h6zwe18nV3N08x1502nBfBtBe1qL8hGvGbLsu2cc0B891g9yUj0zpqdk45gCUnWnR10hDgConnectionData&SBnTBn22naen22k3An220tfficitationshub22n7D050",
  "cs-uri-stem": "/signalr/ping",
  "sc-status": 200,
  "sc-substatus": 0,
  "sc-win32-status": 0,
  "s-port": 443,
  "c-ip": "192.168.49.11",
  "c-port": 1727163725359,
  "sc-win32-status": 0,
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  "id": "c1c1363-1496-ac44-96a9372559",
  "index": "iis-logs",
  "score": 1.26
}

```

Selected document:

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{
  "timestamp": "Sep 24, 2024 @ 09:46:37.000",
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  "s-ip": "192.168.49.5",
  "c-ip": "192.168.49.11",
  "cs-user-agent": "dmitrii.shiptsina@advanta-group.ru",
  "cs-referer": "https://a2nta.ru/cmn.aspx?pageName=Projects.Projects.ProjectId=3aa2ax91-6ed4-435e-8dd8-daa379ad2cc0",
  "cs-method": "POST",
  "cs-uri-query": "transport=webSockets&clientProtocol=2.3&connectionToken=Dm1XK31PEtchQDG61jkAV1DK0nEfArBfaqfe69Rt01R8zjPe71SBM0nI1BQjSpcl04evb5n2B8dzsdKtRbaod3Vn2B92P0du0ttaZon54tZEu4irgfjOBPG0AcpdRKY4PnL308yfz2HP6690fMKA10dConnection0tS0BnR222naen22k3An220tfficitationshub22n7D050",
  "cs-uri-stem": "/signalr/ping",
  "sc-status": 200,
  "sc-substatus": 0,
  "sc-win32-status": 0,
  "s-port": 443,
  "c-ip": "192.168.49.11",
  "c-port": 1727163725359,
  "sc-win32-status": 0,
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  "score": 1.26
}

```

Selected document:

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{
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  "s-ip": "192.168.49.5",
  "c-ip": "192.168.49.11",
  "cs-user-agent": "dmitrii.shiptsina@advanta-group.ru",
  "cs-referer": "https://a2nta.ru/cmn.aspx?pageName=Projects.Projects.ProjectId=3aa2ax91-6ed4-435e-8dd8-daa379ad2cc0",
  "cs-method": "GET",
  "cs-uri-query": "transport=webSockets&clientProtocol=2.3&connectionToken=Dm1XK31PEtchQDG61jkAV1DK0nEfArBfaqfe69Rt01R8zjPe71SBM0nI1BQjSpcl04evb5n2B8dzsdKtRbaod3Vn2B92P0du0ttaZon54tZEu4irgfjOBPG0AcpdRKY4PnL308yfz2HP6690fMKA10dConnection0tS0BnR222naen22k3An220tfficitationshub22n7D050",
  "cs-uri-stem": "/signalr/ping",
  "sc-status": 200,
  "sc-substatus": 0,
  "sc-win32-status": 0,
  "s-port": 443,
  "c-ip": "192.168.49.11",
  "c-port": 1727163725359,
  "sc-win32-status": 0,
  "time-taken": 34,
  "id": "f3d83411-2800-491f-8b7a-129162cc0faa",
  "index": "iis-logs",
  "score": 1.26
}

```

Selected document:

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{
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  "s-ip": "192.168.49.5",
  "c-ip": "192.168.49.11",
  "cs-user-agent": "dmitrii.shiptsina@advanta-group.ru",
  "cs-referer": "https://a2nta.ru/cmn.aspx?pageName=Projects.Projects.ProjectId=35ea069-c504-47de-919e-d887402136e3",
  "cs-method": "GET",
  "cs-uri-query": "transport=webSockets&clientProtocol=2.3&connectionToken=Dm1XK31PEtchQDG61jkAV1DK0nEfArBfaqfe69Rt01R8zjPe71SBM0nI1BQjSpcl04evb5n2B8dzsdKtRbaod3Vn2B92P0du0ttaZon54tZEu4irgfjOBPG0AcpdRKY4PnL308yfz2HP6690fMKA10dConnection0tS0BnR222naen22k3An220tfficitationshub22n7D050",
  "cs-uri-stem": "/signalr/ping",
  "sc-status": 200,
  "sc-substatus": 0,
  "sc-win32-status": 0,
  "s-port": 443,
  "c-ip": "192.168.49.11",
  "c-port": 1727163725359,
  "sc-win32-status": 0,
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  "index": "iis-logs",
  "score": 1.26
}

```

Selected document:

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{
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  "c-ip": "192.168.49.11",
  "cs-user-agent": "dmitrii.shiptsina@advanta-group.ru",
  "cs-referer": "https://a2nta.ru/cmn.aspx?pageName=Projects.Projects.ProjectId=35ea069-c504-47de-919e-d887402136e3",
  "cs-method": "GET",
  "cs-uri-query": "transport=webSockets&clientProtocol=2.3&connectionToken=Dm1XK31PEtchQDG61jkAV1DK0nEfArBfaqfe69Rt01R8zjPe71SBM0nI1BQjSpcl04evb5n2B8dzsdKtRbaod3Vn2B92P0du0ttaZon54tZEu4irgfjOBPG0AcpdRKY4PnL308yfz2HP6690fMKA10dConnection0tS0BnR222naen22k3An220tfficitationshub22n7D050",
  "cs-uri-stem": "/signalr/ping",
  "sc-status": 200,
  "sc-substatus": 0,
  "sc-win32-status": 0,
  "s-port": 443,
  "c-ip": "192.168.49.11",
  "c-port": 1727163725359,
  "sc-win32-status": 0,
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  "index": "iis-logs",
  "score": 1.26
}

```

Selected document:

```

{
  "timestamp": "Sep 24, 2024 @ 09:46:37.000",
  "source": ".../signalr/ping",
  "time-taken": 443,
  "s-ip": "192.168.49.5",
  "c-ip": "192.168.49.11",
  "cs-user-agent": "dmitrii.shiptsina@advanta-group.ru",
  "cs-referer": "https://a2nta.ru/cmn.aspx?pageName=Projects.Projects.ProjectId=443",
  "cs-method": "GET",
  "cs-uri-query": "transport=webSockets&clientProtocol=2.3&connectionToken=Dm1XK31PEtchQDG61jkAV1DK0nEfArBfaqfe69Rt01R8zjPe71SBM0nI1BQjSpcl04evb5n2B8dzsdKtRbaod3Vn2B92P0du0ttaZon54tZEu4irgfjOBPG0AcpdRKY4PnL308yfz2HP6690fMKA10dConnection0tS0BnR222naen22k3An220tfficitationshub22n7D050",
  "cs-uri-stem": "/signalr/ping",
  "sc-status": 200,
  "sc-substatus": 0,
  "sc-win32-status": 0,
  "s-port": 443,
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  "c-port": 1727163725359,
  "sc-win32-status": 0,
  "time-taken": 443,
  "id": "443",
  "index": "iis-logs",
  "score": 1.26
}

```

OpenSearch Dashboards

Dashboards Дашборд

Search + Add filter

(Таблица) Список вызванных сервисов

cs-uri-stem.keyword: Descending	Average time-taken	Count
/signalr/reconnect	2 694 669,57	1 151
/signalr/connect	948 761,252	3 769
/components/Services/Scheduler.asmx	285 375,287	101
/api/discussions/51e3c928-6b6f-4afb-9ea3-2cb0b38562c7/fields	11 236	1
/api/discussions/4a71e01e-8085-40a7-9a3e-2b3be5093dbc/replies/a429c9b4-b529-475b-b1d0-8a0b-	11 185	1
/api/discussions/517040b0-9ad3-431b-a79f-a3d4008a80/replies/a66ac596-3483-489c-9183-2a04c	11 184	1
/api/discussions/d9b9a4fd-db36-4460-8b70-0a52edfdbb51/replies/6f971009-dd1d-4097-b0db-feb5	11 032	1
/api/discussions/9218c6e8-57c6-44fd-9030-f60a73a3746c/fields	10 910	1
/api/discussions/9218c6e8-57c6-44fd-9030-f60a73a3746c/solutions	10 574	1
/api/discussions/9218c6e8-57c6-44fd-9030-f60a73a3746c/requests	10 569	1
/api/discussions/9218c6e8-57c6-44fd-9030-f60a73a3746c/requests/presets	10 551	1
/api/discussions/9218c6e8-57c6-44fd-9030-f60a73a3746c	10 550	1

(Таблица) Уникальные пользователи

cs-username.keyword: Descending	Count
liana.makhneva@advanta-group.ru	8 386
-	7 871
verzhukovich	4 681
trigger	4 602
Илья+Большанов	3 800
Сердцев	3 528
aprl23	3 411

## Мониторинг характеристик серверов приложения и БД

Мониторинг характеристик серверов приложения и БД осуществляется с помощью платформы **Zabbix**. **Zabbix** – это бесплатное ПО с открытым исходным кодом.

В **Zabbix** можно мониторить характеристики серверов, например: потребление RAM, нагрузка на CPU, нагрузка на сеть и другие. Также в **Zabbix** возможно настроить триггеры на превышение каких-то значений. Например, при недостаточном количестве места на сервере, либо при нагрузке на CPU или RAM более 90%.

**Zabbix** необходим для оперативного мониторинга нагрузки на тестовом и промышленных контурах продуктов.

Элементы **Zabbix**:

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