



ЛР 3. Loki + Zabbix + Grafana

▼ Задача

Подключить к тестовому сервису Nextcloud мониторинг + логирование. Осуществить визуализацию через Grafana

▼ Гайд

▼ Часть 1. Логирование

- Создать файл docker-compose.yml, который содержит в себе тестовый сервис Nextcloud, Loki, Promtail, Grafana, Zabbix и Postgres для него

```
▼ docker-compose.yml

services:
  nextcloud:
    image: nextcloud:29.0.6
    container_name: nextcloud # на это имя будет завязана настройка забикса далее, так что лучше не менять
    ports:
      - "8080:80"
    volumes:
      - nc-data:/var/www/html/data

  loki: # сервис-обработчик логов
    image: grafana/loki:2.9.0
    container_name: loki
    ports:
      - "3100:3100"
    command: -config.file=/etc/loki/local-config.yaml # запуск с дефолтным конфигом

  promtail: # сервис-сборщик логов
    image: grafana/promtail:2.9.0
    container_name: promtail
    volumes:
      - nc-data:/opt/nc_data # та же самая директория, которая монтируется в Nextcloud
      - ./promtail_config.yaml:/etc/promtail/config.yaml
    command: -config.file=/etc/promtail/config.yaml

  grafana: # сервис визуализации
    environment:
      - GF_PATHS_PROVISIONING=/etc/grafana/provisioning # просто
      - GF_AUTH_ANONYMOUS_ENABLED=true # дефолтные
      - GF_AUTH_ANONYMOUS_ORG_ROLE=Admin # настройки
    command: /run.sh
    image: grafana/grafana:11.2.0
    container_name: grafana
    ports:
      - "3000:3000"

  postgres-zabbix:
    image: postgres:15
    container_name: postgres-zabbix
    environment:
      POSTGRES_USER: zabbix
      POSTGRES_PASSWORD: zabbix
      POSTGRES_DB: zabbix
    volumes:
```

```

    - zabbix-db:/var/lib/postgresql/data
  healthcheck:
    test: ["CMD", "pg_isready", "-U", "zabbix"]
    interval: 10s
    retries: 5
    start_period: 5s

zabbix-server:
  image: zabbix/zabbix-server-pgsql:ubuntu-6.4-latest # непосредственно бэкенд забикса
  container_name: zabbix-back
  ports:
    - "10051:10051"
  depends_on:
    - postgres-zabbix
  environment:
    POSTGRES_USER: zabbix
    POSTGRES_PASSWORD: zabbix
    POSTGRES_DB: zabbix
    DB_SERVER_HOST: postgres-zabbix

zabbix-web-nginx-pgsql:
  image: zabbix/zabbix-web-nginx-pgsql:ubuntu-6.4-latest # фронтенд забикса
  container_name: zabbix-front
  ports:
    - "8082:8080" # внешний порт можно любой по своему желанию
  depends_on:
    - postgres-zabbix
  environment:
    POSTGRES_USER: zabbix
    POSTGRES_PASSWORD: zabbix
    POSTGRES_DB: zabbix
    DB_SERVER_HOST: postgres-zabbix
    ZBX_SERVER_HOST: zabbix-back

volumes:
  nc-data:
  zabbix-db:

```

2. Создать файл `promtail_config.yml` (или любое другое имя, главное что совпадало с прописанным в композе) со следующим содержанием:

```

server:
  http_listen_port: 9080
  grpc_listen_port: 0

positions:
  filename: /tmp/positions.yaml

clients:
  - url: http://loki:3100/loki/api/v1/push # адрес Loki, куда будут слаться логи

scrape_configs:
  - job_name: system # любое имя
    static_configs:
      - targets:
          - localhost # т.к. монтируем папку с логами прямо в контейнер Loki, он собирает логи со своей локальной файловой системы
    labels:
      job: nextcloud_logs # любое имя, по этому полю будет осуществляться индексирование
      __path__: /opt/nc_data/*.log # необязательно указывать полный путь, главное сказать где искать log файлы

```

3. Запустить compose файл, проверить что все "взлетело"

▼ Пример того, что должно получиться:

```

$ docker-compose up -d
[+] Running 29/29
  ✓ postgres-zabbix Pulled
    ✓ a2318d6c47ec Already exists
    ✓ 293ff58fffc95 Pull complete
    ✓ e03fd0ed521a Pull complete
    ✓ 618b85f70713 Pull complete
    ✓ fefee7186940 Pull complete
    ✓ 6bd68db7324 Pull complete
    ✓ 2fd2333708a2 Pull complete
    ✓ a9193c797654 Pull complete
    ✓ 9db671ef13b2 Pull complete
    ✓ 229510061cf7 Pull complete
    ✓ 5d0d6d069b83 Pull complete
    ✓ c31960c64c87 Pull complete
    ✓ 1c0a1dca29f0 Pull complete
    ✓ de96e3ff4e81 Pull complete
  ✓ zabbix-web-nginx-pgsql Pulled
    ✓ 857cc8cb19c0 Pull complete
    ✓ c86452278f7a Pull complete
    ✓ d6e8ec8b8a3d Pull complete
    ✓ 4439fb60c120 Pull complete
    ✓ 4f4fb700ef54 Pull complete
    ✓ 38ce30f8b7bb Pull complete
  ✓ zabbix-server Pulled
    ✓ 8b992c3b7fb9 Pull complete
    ✓ 84886ea05dd3 Pull complete
    ✓ c0cf2e9ab0a0 Pull complete
    ✓ ee95cdbe068b Pull complete
    ✓ 888666777ed6 Pull complete
    ✓ 17af2629efc8 Pull complete
[+] Running 8/8
  ✓ Network 130924_default      Created
  ✓ Container promtail          Started
  ✓ Container nextcloud          Started
  ✓ Container loki               Started
  ✓ Container grafana            Started
  ✓ Container postgres-zabbix   Started
  ✓ Container zabbix-front     Started
  ✓ Container zabbix-back      Started

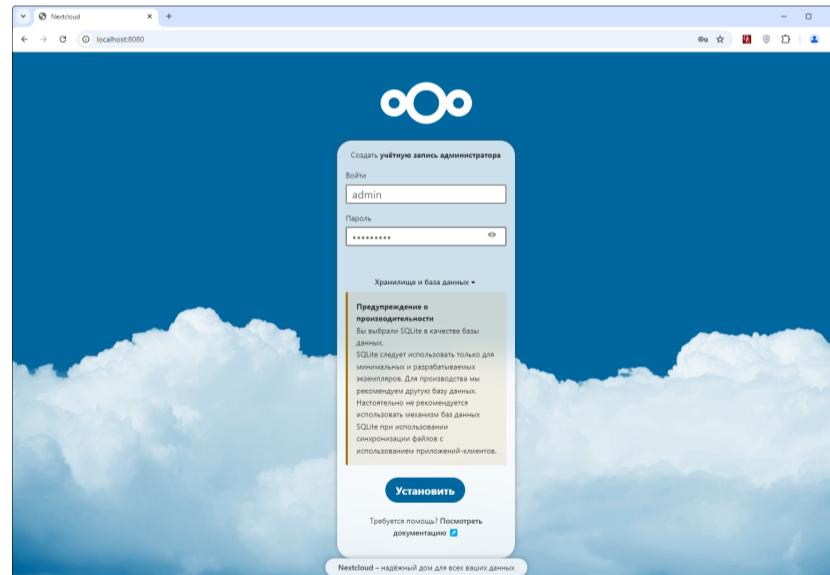
llidd@winlid MINGW64 ~/itmo/130924
$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
73427f4219ed zabbix/zabbix-server-pgsql:ubuntu-6.4-latest "/usr/bin/tini -- /u..." 59 seconds ago Up 56 seconds 0.0.0.0:10051->10051/tcp zabbix-back
e1b3b00e4c5a zabbix/zabbix-web-nginx-pgsql:ubuntu-6.4-latest "docker-entrypoint.sh" 59 seconds ago Up 56 seconds 8443/tcp, 0.0.0.0:8082->8080/tcp zabbix-front
dbb81c6c7e50 grafana/loki:2.9.0 "/usr/bin/loki -conf." About a minute ago Up 57 seconds 0.0.0.0:3100->3100/tcp loki
e04132abde64 grafana/grafana:11.2.0 "/run.sh /run.sh" About a minute ago Up 57 seconds 0.0.0.0:3000->3000/tcp grafana
176ae048c8d3 nextcloud:29.0.6 "/entrypoint.sh apac..." About a minute ago Up 57 seconds 0.0.0.0:8080->80/tcp nextcloud
802c12548aa4 grafana/promtail:2.9.0 "/usr/bin/promtail -..." About a minute ago Up 57 seconds promtail

llidd@winlid MINGW64 ~/itmo/130924
$ ls -la
total 28
drwxr-xr-x 1 llidd 197609 0 Sep 13 01:31 .
drwxr-xr-x 1 llidd 197609 0 Sep 13 00:37 ..
-rw-r--r-- 1 llidd 197609 2498 Sep 13 01:30 docker-compose.yml
drwxr-xr-x 1 llidd 197609 0 Sep 13 01:14 nc_data
-rw-r--r-- 1 llidd 197609 941 Sep 13 01:05 promtail_config.yml
drwxr-xr-x 1 llidd 197609 0 Sep 13 01:31 zabbix-db

```

4. Для начала инициализируем Nextcloud. Для этого заходим на веб интерфейс через внешний порт, указанный в compose файле, создаем учетку и проверяем, что логи "пошли" в нужный нам файл /var/www/html/data/nextcloud.log

▼ Выглядит это так:



```

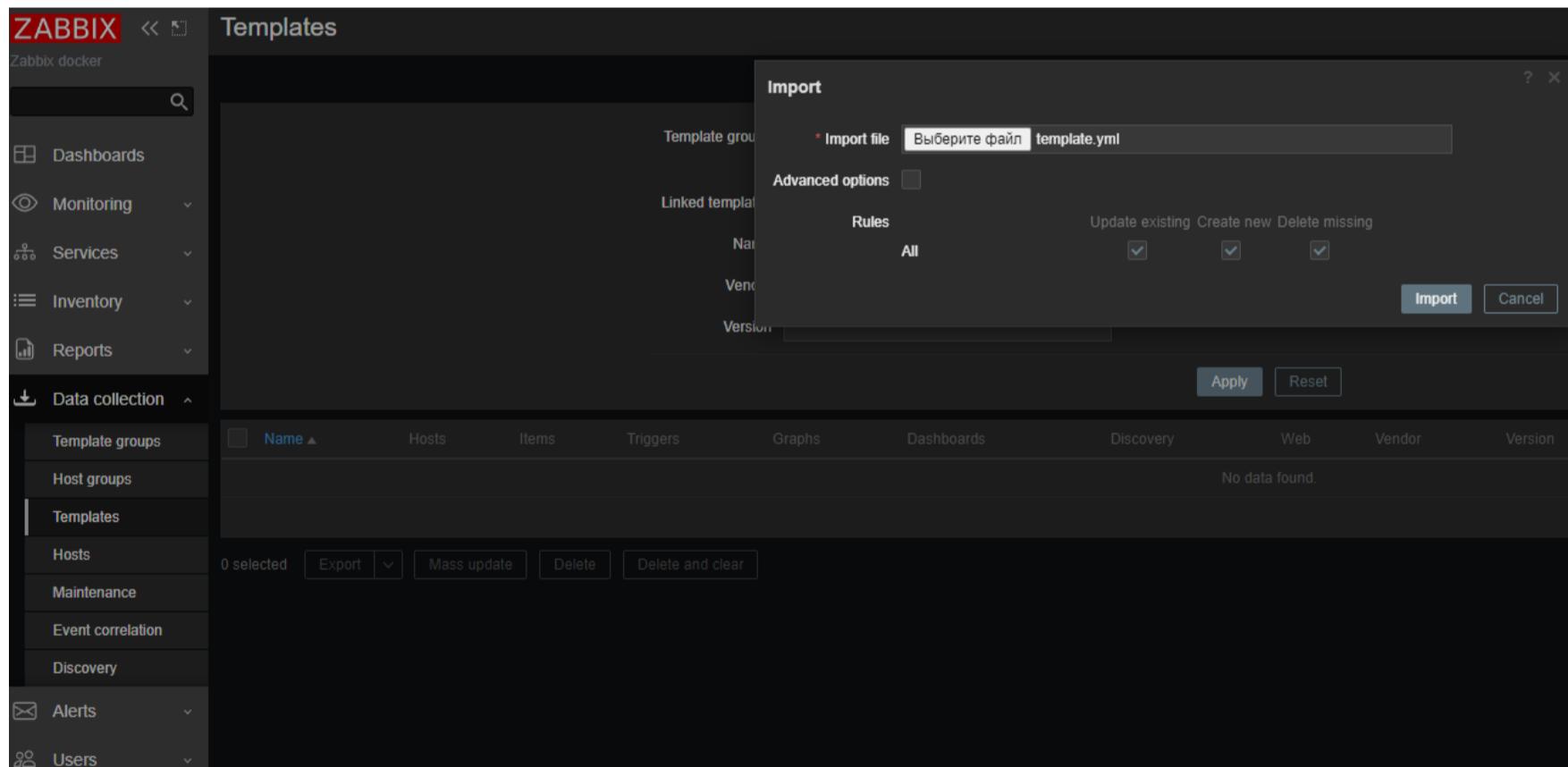
$ docker exec -it e0d292c19162 bash
root@e0d292c19162:/var/www/html# cat data/.htaccess .oddata admin/ appdata.ocyskcpkptv/ index.htm nextcloud.log owncloud.db
root@e0d292c19162:/var/www/html# cat data/nextcloud.log
[{"reqId": "iUXD935kGkEauw0zBm", "level": 2, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "no app in context", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/24.7.0.0 Safari/537.3"}, {"reqId": "iUXD935kGkEauw0zBm", "level": 2, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "no app in context", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/24.7.0.0 Safari/537.3"}, {"reqId": "iUXD935kGkEauw0zBm", "level": 2, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "PHP", "method": "GET", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/24.7.0.0 Safari/537.3"}, {"reqId": "iUXD935kGkEauw0zBm", "level": 3, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "PHP", "method": "GET", "userAgent": "Mozilla/5.0 (Windows NT 10.0; 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Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/24.7.0.0 Safari/537.3"}, {"reqId": "iUXD935kGkEauw0zBm", "level": 3, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "no app in context", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/24.7.0.0 Safari/537.3"}, {"reqId": "iUXD935kGkEauw0zBm", "level": 3, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "no app in context", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/24.7.0.0 Safari/537.3"}, {"reqId": "iUXD935kGkEauw0zBm", "level": 3, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "no app in context", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/24.7.0.0 Safari/537.3"}, {"reqId": "iUXD935kGkEauw0zBm", "level": 3, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "no app in context", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/24.7.0.0 Safari/537.3"}, {"reqId": "iUXD935kGkEauw0zBm", "level": 3, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "no app in context", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/24.7.0.0 Safari/537.3"}, {"reqId": "iUXD935kGkEauw0zBm", "level": 3, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "no app in context", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/24.7.0.0 Safari/537.3"}, {"reqId": "iUXD935kGkEauw0zBm", "level": 3, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "no app in context", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/24.7.0.0 Safari/537.3"}, {"reqId": "iUXD935kGkEauw0zBm", "level": 3, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "no app in context", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/24.7.0.0 Safari/537.3"}, {"reqId": "iUXD935kGkEauw0zBm", "level": 3, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "no app in context", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/24.7.0.0 Safari/537.3"}, {"reqId": "iUXD935kGkEauw0zBm", "level": 3, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "no app in context", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/24.7.0.0 Safari/537.3"}, {"reqId": "iUXD935kGkEauw0zBm", "level": 3, "time": "2024-09-12T21:47:10+00:00", "remoteAddr": "192.168.65.1", "user": "-", "app": "no app in context", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 YaBrowser/2
```

```

▼ template.yml

zabbix_export:
  version: '6.4'
  template_groups:
    - uuid: a571c0d144b14fd4a87a9d9b2aa9fc6
      name: Templates/Applications
  templates:
    - uuid: a615dc391a474a9fb24bee9f0ae57e9e
      template: 'Test ping template'
      name: 'Test ping template'
      groups:
        - name: Templates/Applications
      items:
        - uuid: a987740f59d54b57a9201f2bc2dae8dc
          name: 'Nextcloud: ping service'
          type: HTTP_AGENT
          key: nextcloud.ping
          value_type: TEXT
          trends: '0'
      preprocessing:
        - type: JSONPATH
          parameters:
            - $.body.maintenance
        - type: STR_REPLACE
          parameters:
            - 'false'
            - healthy
        - type: STR_REPLACE
          parameters:
            - 'true'
            - unhealthy
  url: 'http://{{HOST.HOST}}/status.php'
  output_format: JSON
  triggers:
    - uuid: a904f3e66ca042a3a455bcf1c2fc5c8e
      expression: 'last(/Test ping template/nextcloud.ping)="unhealthy"'
      recovery_mode: RECOVERY_EXPRESSION
      recovery_expression: 'last(/Test ping template/nextcloud.ping)="healthy"'
      name: 'Nextcloud is in maintenance mode'
      priority: DISASTER

```



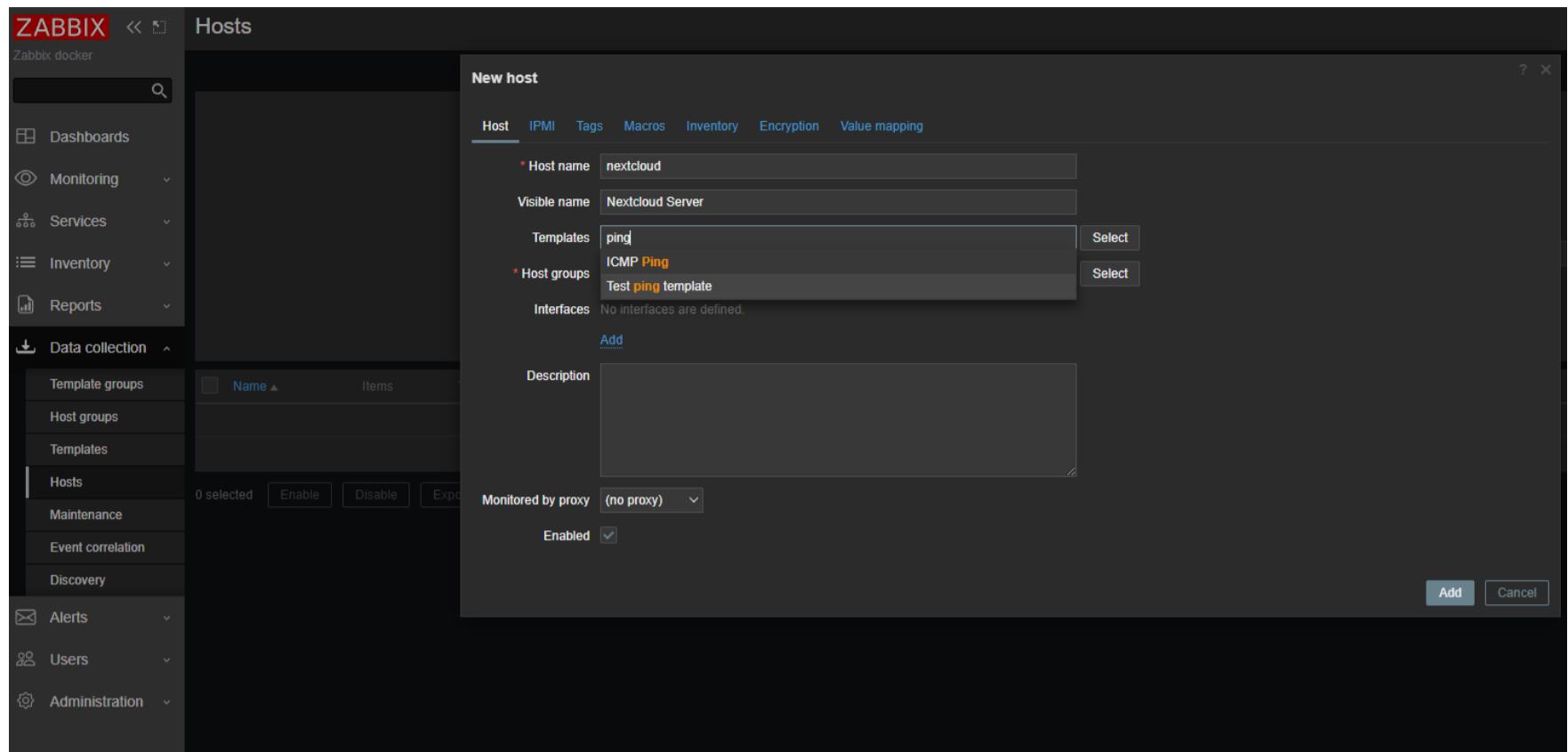
3. Чтобы Zabbix и Nextcloud могли общаться по своим коротким именам внутри докеровской сети, в некстклауде необходимо "разрешить" это имя. Для этого нужно зайти на контейнер некстклауда под юзером `www-data` и выполнить команду `php occ config:system:set trusted_domains 1 --value="nextcloud"`

```

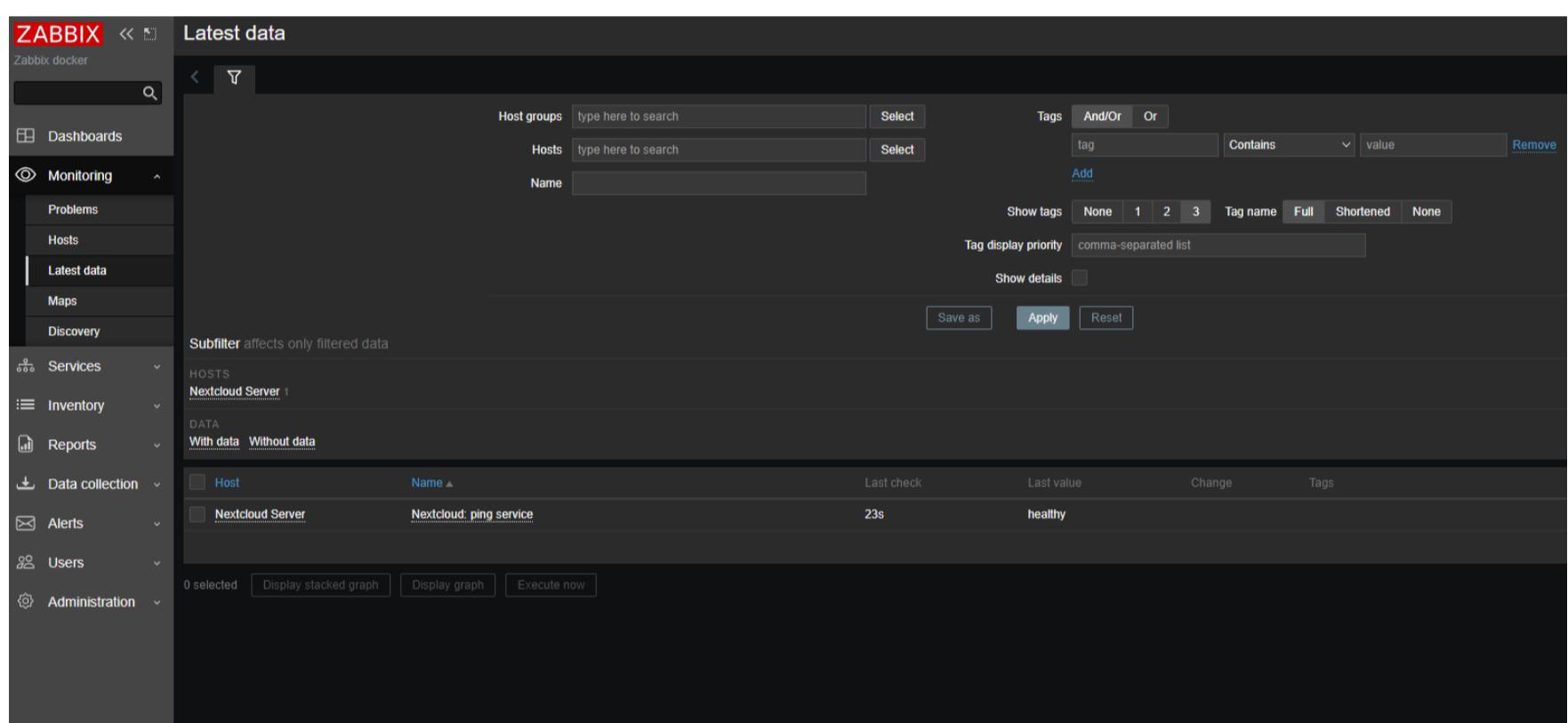
llidd@winlid MINGW64 ~/itmo/130924
$ docker exec -u www-data -it nextcloud bash
www-data@cf0beabb1b45:~/html$ php occ config:system:set trusted_domains 1 --value="nextcloud"
System config value trusted_domains => 1 set to string nextcloud
www-data@cf0beabb1b45:~/html$ 

```

4. В разделе *Data collection* → *Hosts* делаем (*Create host*). Указываем адрес (имя) контейнера `nextcloud`, видимое имя - любое, хост группа - *Applications* (но в целом можно любую другую). Чтобы не просто добавить хост, а начать его мониторинг, необходимо подключить к нему нужный шаблон мониторинга. Поэтому в поле *Templates* нужно выбрать добавленный на шаге 2 *Templates/Applications* → *Test ping template*



5. Настройка хоста закончена, можно сохранить и перейти в раздел *Monitoring → Latest data*. Через какое-то время там должны появиться первые данные, в нашем случае значение **healthy**



6. На этом мониторинг можно считать успешно настроенным. При желании можно временно включить в некстклавде *maintenance mode* (`php occ maintenance:mode --on` в контейнере), проверить что сработал триггер (раздел *Monitoring → Problems*), выключить режим обратно (`php occ maintenance:mode --off`), убедиться что проблема помечена как "решенная"

▼ Как это выглядит:

```
Ulidd@winlid MINGW64 ~/itmo/130924
$ docker exec -u www-data -it nextcloud bash
www-data@e8f8ed75a06f:~/html$ php occ maintenance:mode --on
Maintenance mode enabled
www-data@e8f8ed75a06f:~/html$
exit

What's next?
Try Docker Debug for seamless, persistent debugging tools in any container or image → docker debug nextcloud
Learn more at https://docs.docker.com/go/debug-cli/

Ulidd@winlid MINGW64 ~/itmo/130924
$ curl http://localhost:8080/status.php
{"installed":true,"maintenance":true,"needsDbUpgrade":false,"version":"29.0.6.1","versionstring":"29.0.6","edition":"","productname":"Nextcloud","extendedSupport":false}
Ulidd@winlid MINGW64 ~/itmo/130924
$
```

The screenshot shows the Zabbix 'Problems' interface. On the left is a navigation sidebar with 'Monitoring' selected, followed by 'Hosts', 'Latest data', 'Maps', 'Discovery', 'Services', 'Inventory', 'Reports', 'Data collection', 'Alerts', 'Users', and 'Administration'. The main area is titled 'Problems' and contains search and filter fields for 'Host groups', 'Hosts', 'Triggers', 'Problem', 'Severity' (Not classified, Warning, High, Information, Average, Disaster), 'Age less than' (14 days), 'Show symptoms', 'Show suppressed problems', 'Show unacknowledged only', and 'Tags'. Below these are buttons for 'Save as', 'Apply', and 'Reset'. A table lists one problem: '01:31:31 | Disaster' for host 'Nextcloud Server' with the description 'Nextcloud is in maintenance mode'. The status is 'Duration: 18s, Update: Update'.

This screenshot is identical to the first one, except the status of the problem row has changed from 'Disaster' to 'RESOLVED' in green text. The rest of the interface and data remain the same.

▼ Часть 3. Визуализация

- В терминале выполнить команду `docker exec -it grafana bash -c "grafana cli plugins install alexanderzobnin-zabbix-app"`, затем `docker restart grafana`

```
llidd@winlid MINGW64 ~/itmo/130924
$ docker exec -it grafana bash -c "grafana cli plugins install alexanderzobnin-zabbix-app"
✓ Downloaded and extracted alexanderzobnin-zabbix-app v4.5.4 zip successfully to /var/lib/grafana/plugins/alexanderzobnin-zabbix-app

Please restart Grafana after installing or removing plugins. Refer to Grafana documentation for instructions if necessary.

What's next?
Try Docker Debug for seamless, persistent debugging tools in any container or image → docker debug grafana
Learn more at https://docs.docker.com/go/debug-cli/

llidd@winlid MINGW64 ~/itmo/130924
$ docker restart grafana
grafana

llidd@winlid MINGW64 ~/itmo/130924
$
```

- Заходим в Grafana (по умолчанию `http://localhost:3000/`), раздел Administration → Plugins. Найти там Zabbix, активировать (Enable)
- Подключаем Loki к Grafana, раздел Connections → Data sources → Loki. В настройках подключения указать любое имя и адрес `http://loki:3100`, все остальное можно оставить по дефолту:

The screenshot shows the Grafana interface for managing data sources. On the left, a sidebar menu is open under 'Connections' with 'Data sources' selected. The main panel displays a configuration for a 'my_loki_datasource' of type 'Loki'. It includes fields for 'Name' (set to 'my_loki_datasource'), 'Default' status (checked), and a 'URL' field containing 'http://loki:3100'. Below these, sections for 'Connection' and 'Authentication' are shown, with 'No Authentication' selected. Under 'TLS settings', there are three checkboxes: 'Add self-signed certificate', 'TLS Client Authentication', and 'Skip TLS certificate validation', none of which are checked.

4. Сохранить подключение, нажав *Save & Test*. Если нет ошибок и сервис предлагает перейти к визуализации и/или просмотру данных, значит в Части 1 все настроено правильно

The screenshot shows the 'Queries' configuration page. It features a 'Maximum lines' input set to '1000'. A prominent green success message at the bottom states 'Data source successfully connected.' followed by the instruction 'Next, you can start to visualize data by [building a dashboard](#), or by querying data in the [Explore view](#)'. At the bottom, there are two buttons: 'Delete' (pink) and 'Save & test' (blue).

5. Точно так же с забиксом: снова подключаем новый датасурс, в этот раз Zabbix. В качестве *URL* указываем http://zabbix-frontend:8082/api_jsonrpc.php, заполняем *Username* и *Password*, через *Save & test* проверяем, что подключение успешно

The screenshot shows the Grafana interface with the following details:

- Header:** Includes the Grafana logo, a search bar ("Search or jump to..."), and a keyboard shortcut ("ctrl+k").
- Left sidebar:** Shows navigation links including Home, Starred, Dashboards, Explore, Alerting, Connections (selected), Data sources (selected), Administration, General, Plugins and data (selected), Plugins, Correlations, and Users and access.
- Page title:** "Z my_zabbix_datasource"
- Type:** Zabbix
- Settings tab:** Active, showing the data source name "my_zabbix_datasource" and a "Default" toggle switch.
- Configuration area:** A note states: "Before you can use the Zabbix data source, you must configure it below or in the config file. For detailed instructions, [view the documentation](#)." It also specifies that fields marked with * are required.
- Connection section:** URL is set to "http://zabbix-front:8080/api/jsonrpc.php".
- Authentication section:** Set to "No Authentication".
- TLS settings:** Options include "Add self-signed certificate", "TLS Client Authentication", and "Skip TLS certificate validation".
- HTTP headers:** A dropdown menu with the note: "Pass along additional context and metadata about the request/response".
- Zabbix Connection section:** Auth type is "User and password", with Username "Admin" and Password masked as "*****".

6. Собственно, можно перейти в *Explore* (на этой же странице или через общее меню), выбрать в качестве селектора (индекса) `job` либо `filename` — если все было правильно настроено, то нужные значения будут в выпадающем списке. Затем нажать *Run query* и увидеть свои логи (но это неточно)

The screenshot shows the Grafana interface with the following details:

- Left sidebar:** Home, Explore (selected), Metrics, Alerting, Connections, Add new connection, Data sources, Administration, General, Plugins and data, Plugins, Correlations, Users and access.
- Top bar:** Search bar, Split, Add, Last 3 hours, Run query, Live.
- Central area:**
 - Outline:** my_loki_datasource
 - Queries:** (my_loki_datasource)
 - Label filters:** job = nextcloud_logs
 - Operations:** Line contains, Text to find, + Operations, hint: add json parser.
 - Text area:** (job="nextcloud_logs") |= ``
 - Options:** Type, Range, Line limit: 1000.
 - Add query:** + Add query, Query inspector.
- Logs volume chart:** Shows a single data point at approximately 1:20 on the x-axis with a value of about 4. The y-axis ranges from 0 to 4. The x-axis shows time from 23:05 to 02:00. A note below says "logs: Total: 6".
- Logs table:** Logs, Time (radio button selected), Unique labels, Wrap lines, Pretty JSON, Deduplication (radio button selected), None, Exact, Numbers, Signature, Display results (radio button selected), Newest first, Oldest first, Download.
- Log entries:** Common labels: job=nextcloud_logs, Line limit: 1800 (6 displayed), Total bytes processed: 2.67 kB. The log entries are as follows:
 - > 2024-09-14 01:21:35.693 {"reqId": "P8JD0jXtgkECZeb0v39", "level": 2, "time": "2024-09-13T22:21:37+00:00", "remoteAddr": "192.168.65.1", "user": "", "app": "no app in context", "method": "POST", "url": "/", "message": "Host localhost was not connected to because it violates local access rules", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/128.0.0.0 Safari/537.36", "version": "", "data": []}
 - > 2024-09-14 01:21:35.693 {"reqId": "P8JD0jXtgkECZeb0v39", "level": 2, "time": "2024-09-13T22:21:37+00:00", "remoteAddr": "192.168.65.1", "user": "", "app": "no app in context", "method": "POST", "url": "/", "message": "Host localhost was not connected to because it violates local access rules", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/128.0.0.0 Safari/537.36", "version": "", "data": []}
 - > 2024-09-14 01:21:35.693 {"reqId": "Iob5mhzJGCKB0MhdLwW", "level": 3, "time": "2024-09-13T22:21:38+00:00", "remoteAddr": "192.168.65.1", "user": "", "app": "no app in context", "method": "GET", "url": "/", "message": "Failed to open stream: No such file or directory at /var/www/html/lib/private/Config.php:221", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/128.0.0.0 Safari/537.36", "version": "", "data": [{"app": "PHP"}]}
 - > 2024-09-14 01:21:35.693 {"reqId": "Iob5mhzJGCKB0MhdLwW", "level": 2, "time": "2024-09-13T22:21:38+00:00", "remoteAddr": "192.168.65.1", "user": "", "app": "no app in context", "method": "GET", "url": "/", "message": "Host localhost was not connected to because it violates local access rules", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/128.0.0.0 Safari/537.36", "version": "", "data": []}
 - > 2024-09-14 01:21:35.692 {"reqId": "Iob5mhzJGCKB0MhdLwW", "level": 2, "time": "2024-09-13T22:21:38+00:00", "remoteAddr": "192.168.65.1", "user": "", "app": "no app in context", "method": "GET", "url": "/", "message": "Host localhost was not connected to because it violates local access rules", "userAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/128.0.0.0 Safari/537.36", "version": "", "data": []}

7. То же самое с забиком при выставлении всех фильтров:

The screenshot shows the Grafana Explore interface. On the left sidebar, under the 'Explore' section, 'Metrics' is selected. In the main area, a query is being run against the 'my_zabbix_datasource'. The query configuration table shows:

Query type	Text	Host	Nextcloud Server
Group	Applications	Item	Nextcloud: ping service
Text filter		Use capture groups <input checked="" type="checkbox"/>	

Below the configuration is a table titled 'Table - Nextcloud: ping service' showing log entries from September 14, 2024:

Time	Nextcloud: ping service
2024-09-14 01:25:31	healthy
2024-09-14 01:26:31	healthy
2024-09-14 01:27:31	healthy
2024-09-14 01:28:31	healthy
2024-09-14 01:29:31	healthy
2024-09-14 01:30:31	healthy
2024-09-14 01:31:31	unhealthy
2024-09-14 01:32:31	unhealthy
2024-09-14 01:33:31	healthy
2024-09-14 01:34:31	healthy
2024-09-14 01:35:31	healthy
2024-09-14 01:36:31	healthy

▼ Задание

1. "Поиграться" с запросами
2. Создать два простеньких дашборда в Grafana с использованием датасурсов Zabbix (цветная плашка) и Loki (таблица с логами). Пример:

The screenshot shows a Grafana dashboard titled 'Nextcloud status'. The top half of the dashboard features a large green status card with the text 'Nextcloud is: HEALTHY' in white. The bottom half contains a table titled 'Nextcloud Logs' with the heading 'Line ▾'. The table displays a series of log entries in JSON format, all of which show 'Host localhost was not connected to because it violates local access rules' as the message.

reqId	time	remoteAddr	user	app	method	url	message	userAgent
"reqId": "HuYJzish4puv8VvIw2E1"	"2024-09-13T22:22:01+00:00"	"192.168.65.1"	"admin"	"PHP"	"GET"	"/settings/apps/list"	"dns_get_record(): A temporary server error occurred at /var/www/html/lib/private/Http/Client.php:103"	"Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/115.0.5790.152 Safari/537.36"
"reqId": "PBjD2jXtgkECze8vov39"	"2024-09-13T22:21:37+00:00"	"192.168.65.1"	"--"	"no app in context"	"POST"	"/"	"Host localhost was not connected to because it violates local access rules"	"Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/115.0.5790.152 Safari/537.36"
"reqId": "PBjD2jXtgkECze8vov39"	"2024-09-13T22:21:37+00:00"	"192.168.65.1"	"--"	"no app in context"	"POST"	"/"	"Host localhost was not connected to because it violates local access rules"	"Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/115.0.5790.152 Safari/537.36"
"reqId": "Io05nhXZ3GK2BM2bdM"	"2024-09-13T22:21:30+00:00"	"192.168.65.1"	"--"	"no app in context"	"GET"	"/"	"fopen(/var/www/html/config/config.php): Failed to open stream: No such file or directory at /var/www/html/lib/private/Http/Client.php:103"	"Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/115.0.5790.152 Safari/537.36"
"reqId": "Io05nhXZ3GK2BM2bdM"	"2024-09-13T22:21:30+00:00"	"192.168.65.1"	"--"	"no app in context"	"GET"	"/"	"Host localhost was not connected to because it violates local access rules"	"Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/115.0.5790.152 Safari/537.36"
"reqId": "Io05nhXZ3GK2BM2bdM"	"2024-09-13T22:21:30+00:00"	"192.168.65.1"	"--"	"no app in context"	"GET"	"/"	"Host localhost was not connected to because it violates local access rules"	"Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/115.0.5790.152 Safari/537.36"

▼ Вопросы

1. В чем разница между мониторингом и observability? Своими словами

▼ Отчетность

Ссылка на репозиторий, где содержится

- docker-compose.yml
- ответ на вопрос
- скриншот дашборда в графане