

ДЗ-09: Loki

Перенаправил Vector из конфигурации 8-го ДЗ на Loki.

Установка

<https://grafana.com/docs/loki/latest/setup/install/>

Конфиги

loki – стандартный конфиг для хранения логов на файловой системе.

auth_enabled: false

server:

http_listen_port: 3100

grpc_listen_port: 9096

common:

instance_addr: 127.0.0.1

path_prefix: /tmp/loki

storage:

filesystem:

chunks_directory: /tmp/loki/chunks

rules_directory: /tmp/loki/rules

replication_factor: 1

ring:

kvstore:

store: inmemory

query_range:

results_cache:

cache:

embedded_cache:

enabled: true

max_size_mb: 100

schema_config:

configs:

- from: 2020-10-24

store: tsdb

object_store: filesystem

schema: v13

index:

prefix: index_

period: 24h

analytics:

reporting_enabled: false

vector.yaml

sources:

sshd_http_source:

type: "socket"

address: "127.0.0.1:10514"

mode: "udp"

decoding:

codec: "json"

sshd_log_source:

type: "file"

read_from: "beginning"

include:

- "/var/log/sshd.log"

transforms:

sshd_http_transform:

type: "remap"

inputs: ["sshd_http_source"]

```

source: '.programname=upcase!(.programname) + "-from-vector-http"'
sshd_log_transform:
  type: "remap"
  inputs: ["sshd_log_source"]
  source: |
    . |= parse_syslog!(.message)
    .@timestamp = .timestamp
    .programname = "SSHD-from-vector-log-file"

```

```

sinks:
  print:
    type: "console"
    inputs: ["sshd_http_transform", "sshd_log_transform"]
    encoding:
      codec: "json"
  loki:
    type: "loki"
    inputs: ["sshd_*_transform"]
    endpoint: http://localhost:3100
    encoding:
      codec: json
    labels:
      source: vector
      programname: "{{ programname }}"
      severity: "{{ severity }}"
    out_of_order_action: drop
    path: /loki/api/v1/push

```

Получение логов

Проверка, что метки появились

```

root@debian:/tmp/loki# ./logcli labels source
2024/04/13 10:50:30 http://localhost:3100/loki/api/v1/label/source/values?end=1712994630122059296&start=1712991030122059296
vector
root@debian:/tmp/loki# ./logcli labels programname
2024/04/13 10:50:32 http://localhost:3100/loki/api/v1/label/programname/values?end=1712994632590196687&start=1712991032590196687
SSHD-from-vector-http
SSHD-from-vector-log-file
root@debian:/tmp/loki#

```

Получение логов

```

root@debian:/tmp/loki# ./logcli query '{source="vector"}'
2024/04/13 10:51:34 http://localhost:3100/loki/api/v1/query_range?direction=BACKWARD&end=1712994694744128114&limit=30&query=%7Bsource%3D%22vector%22%7D&start=1712991094744128114
2024-04-13T10:51:34 Common labels: {service_name="unknown_service", source="vector"}
2024-04-13T10:21:07+03:00 {level="info", programname="SSHD-from-vector-log-file"} {"@timestamp":"2024-04-13T07:21:07.799801Z", "appname":"systemd-logind", "file":"/var/log/sshd.log", "host":"debian", "hostname":"debian", "message":"Removed session 94.", "procid":524, "programname":"SSHD-from-vector-log-file", "source_type":"file"}
2024-04-13T10:21:07+03:00 {level="info", programname="SSHD-from-vector-log-file"} {"@timestamp":"2024-04-13T07:21:07.797792Z", "appname":"systemd-logind", "file":"/var/log/sshd.log", "host":"debian", "hostname":"debian", "message":"Session 94 logged out. Waiting for processes to exit.", "procid":524, "programname":"SSHD-from-vector-log-file", "source_type":"file"}
2024-04-13T10:21:07+03:00 {level="debug", programname="SSHD-from-vector-http", severity="info"} {"@timestamp":"2024-04-13T10:21:07.793062+03:00", "@version":"1", "facility":"authpriv", "host":"127.0.0.1", "message":" pam_unix(sshd:session): session closed for user user", "port":59824, "procid":"20857", "programname":"SSHD-from-vector-http", "severity":"info", "source_type":"socket", "sysloghost":"debian"}
2024-04-13T10:21:07+03:00 {level="debug", programname="SSHD-from-vector-http", severity="info"} {"@timestamp":"2024-04-13T10:21:07.792010+03:00", "@version":"1", "facility":"auth", "host":"127.0.0.1", "message":" Disconnected from user user 127.0.0.1 port 48964", "port":59824, "procid":"20866", "programname":"SSHD-from-vector-http", "severity":"info", "source_type":"socket", "sysloghost":"debian"}
2024-04-13T10:21:07+03:00 {level="debug", programname="SSHD-from-vector-http", severity="info"} {"@timestamp":"2024-04-13T10:21:07.791527+03:00", "@version":"1", "facility":"auth", "host":"127.0.0.1", "message":" Received disconnect from 127.0.0.1 port 48964:11: disconnected by user", "port":59824, "procid":"20866", "programname":"SSHD-from-vector-http", "severity":"info", "source_type":"socket", "sysloghost":"debian"}
2024-04-13T10:21:07+03:00 {level="debug", programname="SSHD-from-vector-http", severity="debug"} {"@timestamp":"2024-04-13T10:21:07.097582+03:00", "@version":"1", "facility":"authpriv", "host":"127.0.0.1", "message":" pam_env(sshd:session): deprecated reading of user environment enabled", "port":59824, "procid":"20857", "programname":"SSHD-from-vector-http", "severity":"debug", "source_type":"socket", "sysloghost":"debian"}
2024-04-13T10:21:07+03:00 {level="debug", programname="SSHD-from-vector-http", severity="info"} {"@timestamp":"2024-04-13T10:21:07.054908+03:00", "@version":"1", "facility":"authpriv", "host":"127.0.0.1", "message":" pam_unix(sshd:session): session opened for user user(uid=1000) by (uid=0)", "port":59824, "procid":"20857", "programname":"SSHD-from-vector-http", "severity":"info", "source_type":"socket", "sysloghost":"debian"}
2024-04-13T10:21:07+03:00 {level="debug", programname="SSHD-from-vector-http", severity="info"} {"@timestamp":"2024-04-13T10:21:07.053369+03:00", "@version":"1", "facility":"auth", "host":"127.0.0.1", "message":" Accepted password for user from 127.0.0.1 port 48964 ssh2", "port":59824, "procid":"20857", "programname":"SSHD-from-vector-http", "severity":"info", "source_type":"socket", "sysloghost":"debian"}

```