



Découvrons ensemble la relève de l'observabilité
avec les logs et traces : Quickwit

BDX/IO à Bordeaux, 08/11/2024

Qui suis-je ?

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CEO de comwork.io

SRE/Platform Engineer

Contributeur OSS (incluant les intégrations à l'éco-système
CNCF pour Quickwit)



idrissneumann

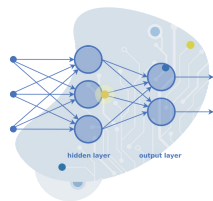
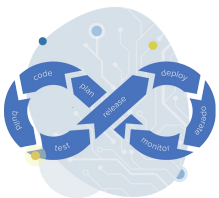


idriss_neumann

Qui sommes nous ?

ESN et éditeur de logiciel basé à Paris et Tunis

4 zone d'expertise: devops & cloud, IOT, full stack dev et AI/ML



Comwork «

Cloud Platform
cloud.comwork.io

- Dashboard
- Projects
- Buckets
- Registries
- Instances
- K8s applications
- Serverless
- Emails
- Over Chat
- Manage support
- Manage users
- Environments
- Kubernetes
- Manage projects
- Manage buckets
- Manage registries
- Manage instances
- Manage DNS
- Serverless
- IOT

Arguments

#	Argument name	Actions
1	name	
2	surname	

Environment variables

Callbacks

Low Code Code

Blockly

```
graph TD; start([start]) --> handle[handle with: name, surname]; handle --> set_name[set an argument with key name]; set_name --> and_value_name[and value name]; and_value_name --> set_surname[set an argument with key surname]; set_surname --> and_value_surname[and value surname]; and_value_surname --> call_sync[call sync serverless function]; call_sync --> with_id[with ID c115c89e-8a8c-4682-bd44-b05ea305ecb]; with_id --> and_arguments[and arguments]; and_arguments --> set_result_variable[set result in variable response]; set_result_variable --> set_entity_to_get_value_response[set entity to get value response from key entity]; set_entity_to_get_value_response --> set_content_to_get_value_entity[set content to get value entity from key content]; set_content_to_get_value_entity --> set_result_to_get_value_content[set result to get value content from key result]; set_result_to_get_value_content --> return_result[return result]; return_result --> end([end]);
```

SAVE

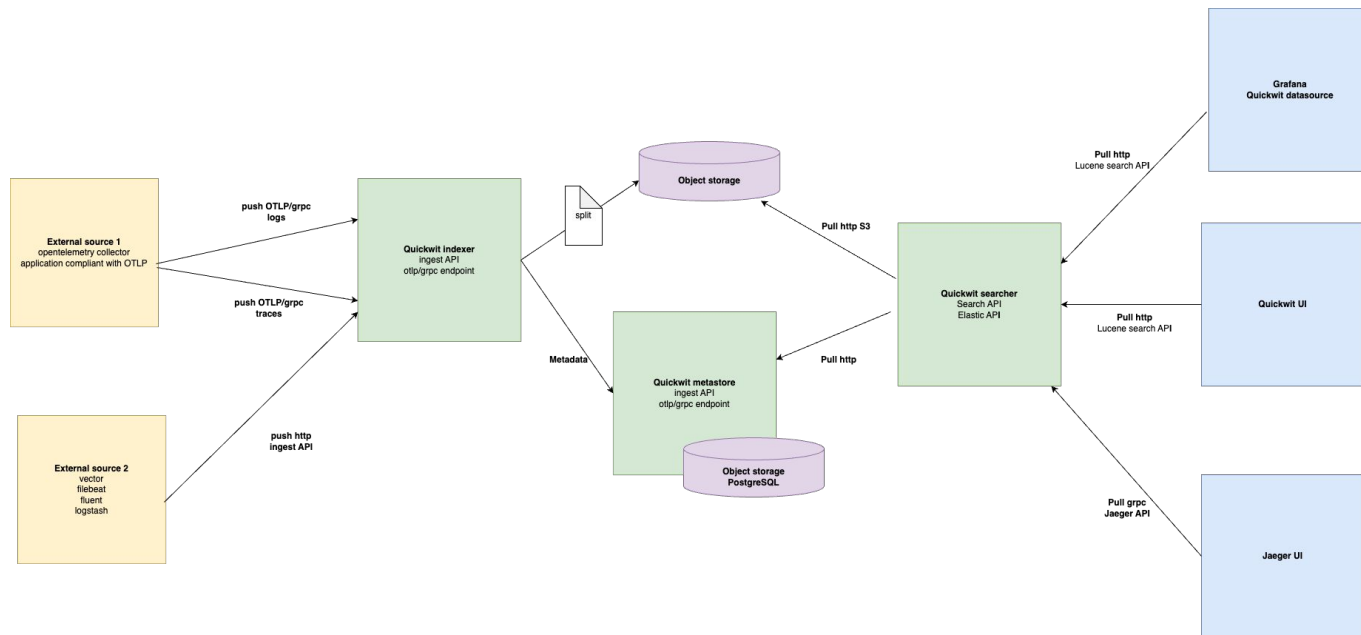
Site web : comwork.io



Qu'est-ce que Quickwit ?

Solution de moteur de recherche concurrente à Elasticsearch, OpenSearch et Grafana Loki

Un peu le meilleur des deux mondes réunis



Site officiel : quickwit.io



Pourquoi choisir Quickwit ?

Les raisons de notre choix de cette solution



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Docker in production, is it really bad?

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September 4, 2024 - 6 min read

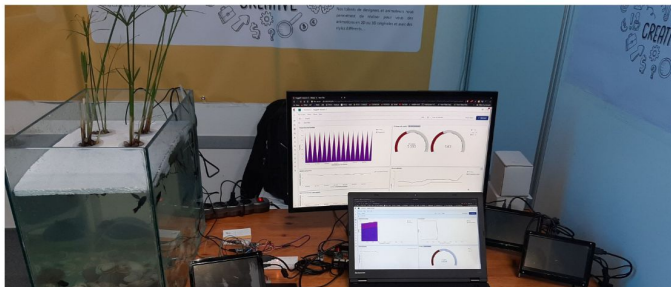


Idriss Neumann
CEO comwork.io

In this blog post, I'll try to explain why we moved from **ElasticStack** to **Quickwit** and **Grafana** and why we choosed it over other solutions.

First, we've been in the observability world for quite some time and have been using ElasticStack for years. I personally used Elasticsearch for more than 10 years and **Apache Solr** before for logging and observability usecases even before Elasticsearch's birth!

We also succeed to use ElasticStack for **IoT (Internet of Things)** projects and rebuilt our own images of Kibana and Elasticsearch for ARM32 and ARM64 before **Elastic** (the company) starts to release official images. We had a lot of fun with it.

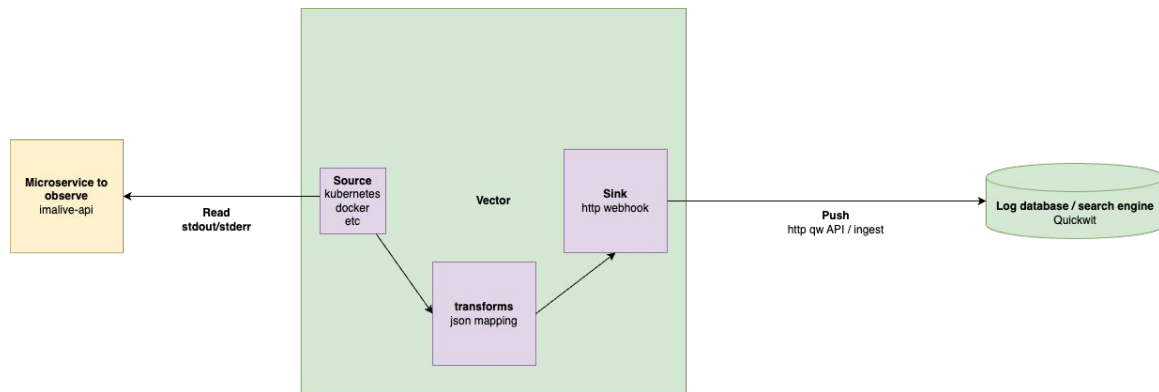


Lien : comwork.io/blog/quickwit

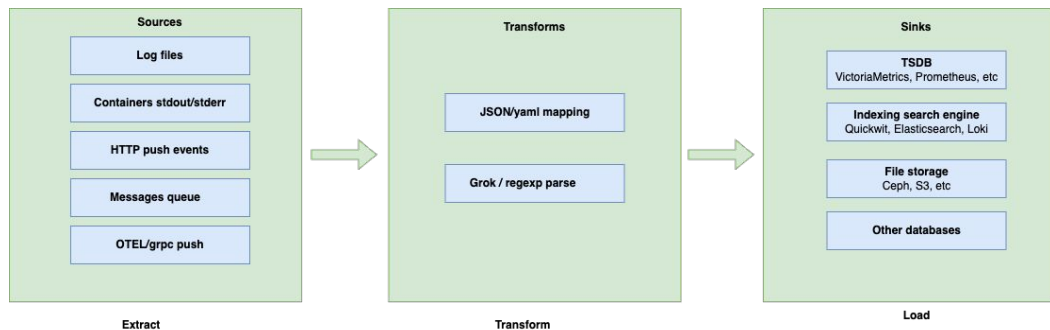


Qu'est-ce que vector ?

Agent de collecte de logs et pipelines d'observabilité / ETL
Très rapide, écrit en Rust par datadog

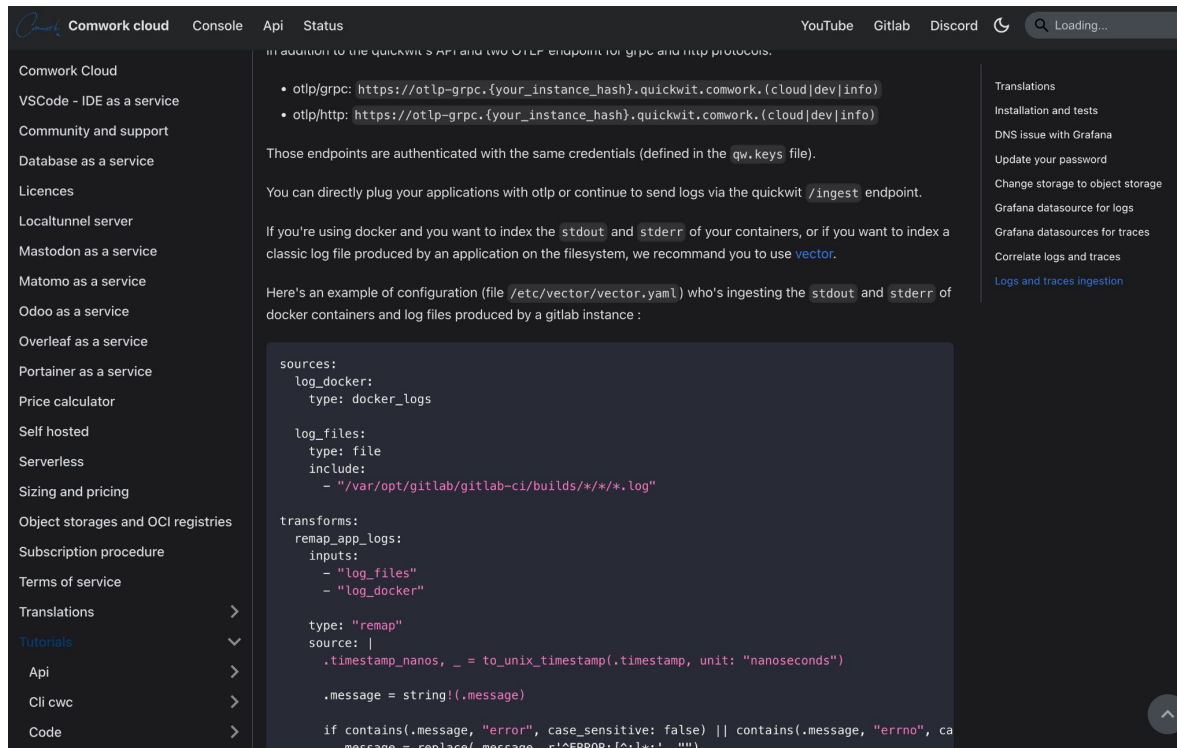


Site officiel : vector.dev



Comment utiliser Vector avec Quickwit ?

Tutoriel pour rendre les logs avec la définition de l'indexe otel-logs par défaut



The screenshot shows the Comwork Cloud documentation page. The left sidebar contains a navigation menu with items like 'Comwork Cloud', 'VSCode - IDE as a service', 'Community and support', 'Database as a service', 'Licences', 'Localtunnel server', 'Mastodon as a service', 'Matomo as a service', 'Odoo as a service', 'Overleaf as a service', 'Portainer as a service', 'Price calculator', 'Self hosted', 'Serverless', 'Sizing and pricing', 'Object storages and OCI registries', 'Subscription procedure', 'Terms of service', 'Translations', 'Tutorials' (highlighted), 'Api', 'Cli cwc', and 'Code'. The main content area is titled 'In addition to the quickwit's API and the OTLP endpoint for grpc and http protocols.' and lists two endpoints: 'otlp/grpc' and 'otlp/http', both pointing to 'https://otlp-grpc.{your_instance_hash}.quickwit.comwork.{cloud|dev|info}'. It explains that these endpoints are authenticated with credentials from the 'qw.keys' file. Below, it states that you can directly plug your applications with otlp or continue to send logs via the quickwit '/ingest' endpoint. A section for Docker usage follows, recommending the use of 'vector' to index 'stdout' and 'stderr' of containers or log files. An example configuration for 'vector.yaml' is provided, showing sources for 'log_docker' and 'log_files', and a transform to 'remap' logs. The right sidebar contains links for 'Translations', 'Installation and tests', 'DNS issue with Grafana', 'Update your password', 'Change storage to object storage', 'Grafana datasource for logs', 'Grafana datasources for traces', 'Correlate logs and traces', and 'Logs and traces ingestion'.

Comwork Cloud Console Api Status YouTube Gitlab Discord Loading...

Comwork Cloud

VSCode - IDE as a service

Community and support

Database as a service

Licences

Localtunnel server

Mastodon as a service

Matomo as a service

Odoo as a service

Overleaf as a service

Portainer as a service

Price calculator

Self hosted

Serverless

Sizing and pricing

Object storages and OCI registries

Subscription procedure

Terms of service

Translations

Tutorials

Api

Cli cwc

Code

In addition to the quickwit's API and the OTLP endpoint for grpc and http protocols.

- otlp/grpc: `https://otlp-grpc.{your_instance_hash}.quickwit.comwork.{cloud|dev|info}`
- otlp/http: `https://otlp-grpc.{your_instance_hash}.quickwit.comwork.{cloud|dev|info}`

Those endpoints are authenticated with the same credentials (defined in the `qw.keys` file).

You can directly plug your applications with otlp or continue to send logs via the quickwit `/ingest` endpoint.

If you're using docker and you want to index the `stdout` and `stderr` of your containers, or if you want to index a classic log file produced by an application on the filesystem, we recommend you to use `vector`.

Here's an example of configuration (file `/etc/vector/vector.yaml`) who's ingesting the `stdout` and `stderr` of docker containers and log files produced by a gitlab instance :

```
sources:
  log_docker:
    type: docker_logs

  log_files:
    type: file
    include:
      - "/var/opt/gitlab/gitlab-ci/builds/*/*/*.log"

transforms:
  remap_app_logs:
    inputs:
      - "log_files"
      - "log_docker"

    type: "remap"
    source: |
      .timestamp_nanos, _ = to_unix_timestamp(timestamp, unit: "nanoseconds")

      .message = string!(.message)

    if contains(.message, "error", case_sensitive: false) || contains(.message, "errno", ca
      .message = replace(.message, r'^ERROR:[^:]*:', '')
```

Translations

Installation and tests

DNS issue with Grafana

Update your password

Change storage to object storage

Grafana datasource for logs

Grafana datasources for traces

Correlate logs and traces

Logs and traces ingestion

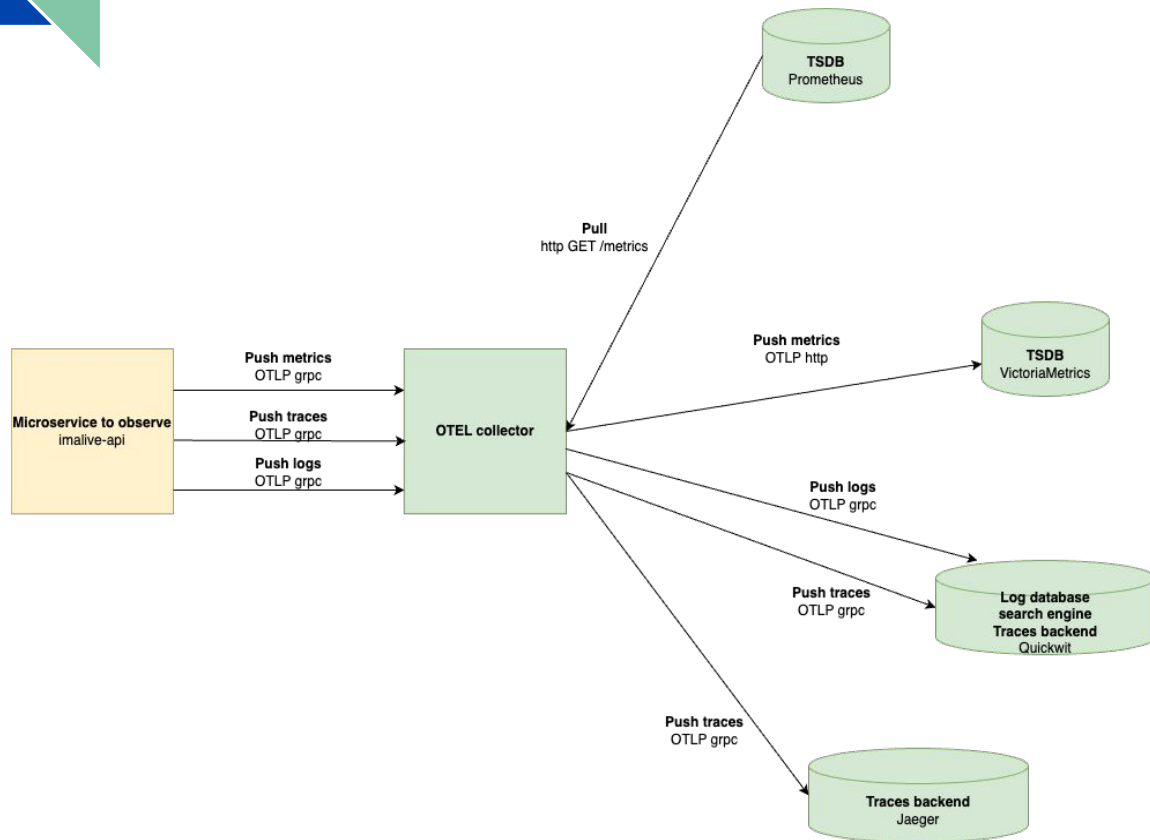
Tutoriel :

doc.cloud.comwork.io/docs/tutorials/quickwit#logs-and-traces-ingestion



Qu'est-ce qu'OpenTelemetry ?

Un standard d'observabilité interopérable pour les logs, traces et métriques

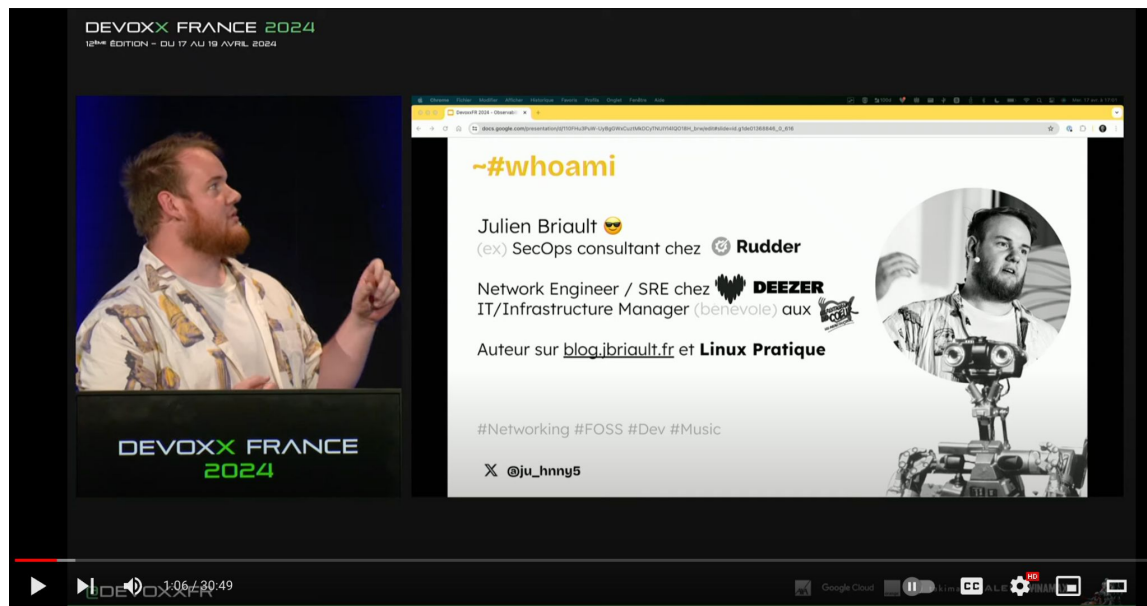


Site officiel : opentelemetry.io



Qu'est-ce que VictoriaMetrics ?

Petite parenthèse pour aller voir le talk de Julien



Talk de Julien "Observabilité : dépoussiérer Prometheus avec VictoriaMetrics":

youtu.be/bzLtWjUj2k0



A blue parallelogram and a light green parallelogram are positioned in the upper-left corner of the slide.

Comwork

Thanks
