

# The OpenTelemetry mistakes I keep seeing

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Founder @ OllyGarden

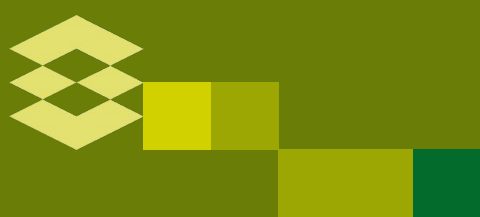
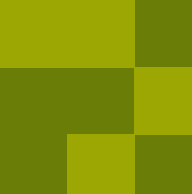
OTel Governance Committee

Telemetry Drops (YouTube, LinkedIn)

CNCF Ambassador (OTel Night)

Emeritus: Jaeger, Collector, Operator, ...





“

I'll help you and your  
agents have the telemetry  
you can trust.

# AGENDA



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1

Telemetry  
primer



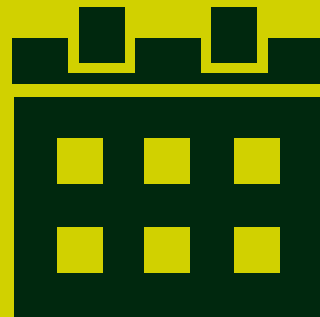
2

Four common  
mistakes



3

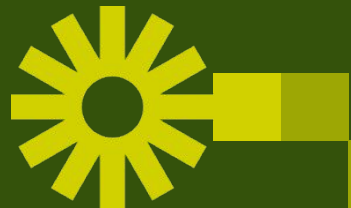
Key  
takeaways





All examples are real.

Anonymized, but real.



01.

# Observability primer

Telemetry, Monitoring,  
Observability, OpenTelemetry

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# Observability Primer

01

## Telemetry

The monitoring data you collect from your application.

02

## Monitoring

Dashboards and alerts answering frequent questions you know you'll have.

03

## Observability

Ability to query your telemetry to answer new questions.

# OpenTelemetry Primer

01

## Instrumentation

You add code to your code in order to generate telemetry: logs, metrics, traces.

02

## Collection

Programs you run at your infra collecting telemetry and sending to an observability backend.

03

## Standards and protocols

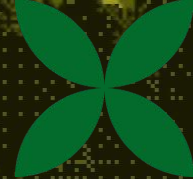
Such as OTLP, to ensure interoperability between pieces and solutions.

01.

# Mistake #1

Leaking sensitive data

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# ■ Sources of sensitive data leaks



## Tools

Auto-instrumentation tools such as eBPF or Java Agent, eagerly capture too much.



## Admins

Simple mistakes now mean sensitive data leaks to your observability vendor.



## Developers

Prefer opaque IDs instead of potentially sensitive information, like email addresses.



## Users

Don't trust your user generated content, don't put it unfiltered at the telemetry.

# ■ Examples

PII (personally identifiable information)



```
> 2026-07-07 13:42:42.016 INFO Traitement du message reçu avec succès: EvenementSuccesDTO(evento=comunicacao-open-api
-exemplo, action=200: Notification envoyée avec succès, messageId=J210119734UYIZ71GBZON7KS, tipo=EMAIL, broker=EMSG, d
ataEvento=2026-07-06T00:01:19.875370451Z, identificadores=IdentificadoresSucessoDTO(seletor=000123456789000098), dados
Produto=DadosProdutoDTO(destinatarios=celine.morin@example.com))

: 2026-07-07 13:42:41.922 INFO Traitement du message reçu avec succès: EvenementSuccesDTO(evento=comunicacao-open-api
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ataEvento=2026-07-06T00:01:19.870068524Z, identificadores=IdentificadoresSucessoDTO(seletor=000123456789000098), dados
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ataEvento=2026-07-06T00:01:19.877133264Z, identificadores=IdentificadoresSucessoDTO(seletor=000123456789000098), dados
Produto=DadosProdutoDTO(destinatarios=juliette.garnier@example.com))

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ataEvento=2026-07-06T00:01:19.859176224Z, identificadores=IdentificadoresSucessoDTO(seletor=000123456789000098), dados
Produto=DadosProdutoDTO(destinatarios=emma.simon@example.com))

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ataEvento=2026-07-06T00:01:19.863200759Z, identificadores=IdentificadoresSucessoDTO(seletor=000123456789000098), dados
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ataEvento=2026-07-06T00:01:19.868808370Z, identificadores=IdentificadoresSucessoDTO(seletor=000123456789000098), dados
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: 2026-07-07 13:42:39.721 INFO Traitement du message reçu avec succès: EvenementSuccesDTO(evento=comunicacao-open-api
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ataEvento=2026-07-06T00:01:19.868808370Z, identificadores=IdentificadoresSucessoDTO(seletor=000123456789000098), dados
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```

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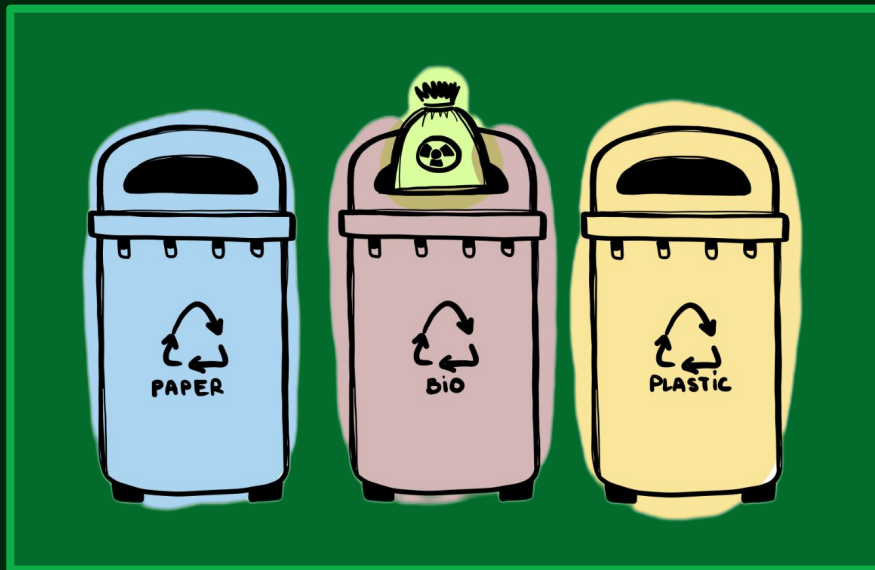
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## ■ Examples

PII (personally identifiable information)

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# ■ Examples

## Signed URLs

| ▼ Span attributes         |                                                                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| http.request.method       | "POST"                                                                                                                                                                   |
| http.response.status_code | "202"                                                                                                                                                                    |
| network.protocol.version  | "1.1"                                                                                                                                                                    |
| server.address            | "<REDACTED>.e7.environment.api.powerplatform.com"                                                                                                                        |
| server.port               | "443"                                                                                                                                                                    |
| thread.id                 | "20024"                                                                                                                                                                  |
| thread.name               | "org.springframework.jms.JmsListenerEndpointContainer#0-4"                                                                                                               |
| url.full                  | "https://<REDACTED>.e7.environment.api.powerplatform.com:443/powerautomate/automations/direct/workflows/7a111sig=***&api-version=1&sv=1.0&sp=%2Ftriggers%2Fmanual%2Frun" |

▼ Span attributes

http.request.method "POST"

http.response.status\_code "202"

network.protocol.version "1.1"

server.address "<REDACTED>.e7.environment.api.powerplatform.com"

server.port "443"

thread.id "20024"

thread.name "org.springframework.jms.JmsListenerEndpointContainer#0-4"

url.full "https://<REDACTED>.e7.environment.api.powerplatform.com:443/powerautomate/automations/direct/workflows/7a111111-1111-1111-1111-111111111111?sig=\*\*\*&api-version=1&sv=1.0&sp=%2Ftriggers%2Fmanual%2Frun"

# ■ Examples

## JVM trust store passwords

```
▼ Resource attributes
os.description      "Linux 5.14.0-427.87.1.el9_4.x86_64"
os.type            "linux"
process.command_args [
    "/usr/lib/jvm/java-21-openjdk-21.0.10.0.7-1.el8.x86_64/bin/java",
    "-Xms768m",
    "-Xmx768m",
    "-Djava.security.egd=file:/dev/./urandom",
    "-Duser.timezone=Europe/Berlin",
    "-Djavax.net.ssl.trustStorePassword=***",
    "-Djavax.net.ssl.trustStore=/home/jboss/trusted.j",
    "org.springframework.boot.loader.launch.JarLaunch"
]
process.executable.path "/usr/lib/jvm/java-21-openjdk-21.0.10.0.7-1.el8.x86_64/bin/java"
process.pid           "1"
process.runtime.description "Red Hat, Inc. OpenJDK 64-Bit Server VM 21.0.10+7-LTS"
process.runtime.name    "OpenJDK Runtime Environment"
process.runtime.version  "21.0.10+7-LTS"
process.vendor           "cd-sonnado_cncp-srv-inse-eme-6c66b7cf7f-66ksh_cncp"
```

▼ Resource attributes

|                             |                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| os.description              | "Linux 5.14.0-427.87.1.el9_4.x86_64"                                                                                                                                                                                                                                                                                                             |
| os.type                     | "linux"                                                                                                                                                                                                                                                                                                                                          |
| process.command_args        | [<br>"/usr/lib/jvm/java-21-openjdk-21.0.10.0.7-1.el8.x86_64/bin/java",<br>"-Xms768m",<br>"-Xmx768m",<br>"-Djava.security.egd=file:/dev/./urandom",<br>"-Duser.timezone=Europe/Berlin",<br>"-Djavax.net.ssl.trustStorePassword=***",<br>"-Djavax.net.ssl.trustStore=/home/jboss/trusted.j",<br>"org.springframework.boot.loader.launch.JarLaunch" |
| process.executable.path     | "/usr/lib/jvm/java-21-openjdk-21.0.10.0.7-1.el8.x86_64/bin/java"                                                                                                                                                                                                                                                                                 |
| process.pid                 | "1"                                                                                                                                                                                                                                                                                                                                              |
| process.runtime.description | "Red Hat, Inc. OpenJDK 64-Bit Server VM 21.0.10+7-LTS"                                                                                                                                                                                                                                                                                           |
| process.runtime.name        | "OpenJDK Runtime Environment"                                                                                                                                                                                                                                                                                                                    |
| process.runtime.version     | "21.0.10+7-LTS"                                                                                                                                                                                                                                                                                                                                  |
|                             | "cd=consigado_cnsq-srv-1nss-smc-6c66b7cf7f-66ksh_cns"                                                                                                                                                                                                                                                                                            |

▼ Resource attributes

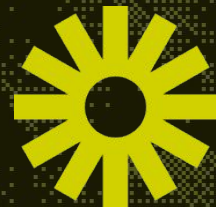
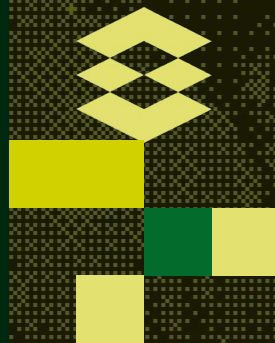
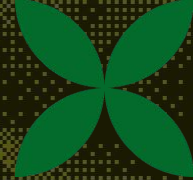
|                             |                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| os.description              | "Linux 5.14.0-427.87.1.el9_4.x86_64"                                                                                                                                                                                                                                                                                                                  |
| os.type                     | "linux"                                                                                                                                                                                                                                                                                                                                               |
| process.command_args        | [<br>"/usr/lib/jvm/java-21-openjdk-21.0.10.0.7-1.el8.x86_64/bin/java",<br>"-Xms768m",<br>"-Xmx768m",<br>"-Djava.security.egd=file:/dev/./urandom",<br>"-Duser.timezone=Europe/Berlin",<br>"-Djavax.net.ssl.trustStorePassword=***",<br>"-Djavax.net.ssl.trustStore=/home/jboss/trusted.j",<br>"org.springframework.boot.loader.launch.JarLaunch"<br>] |
| process.executable.path     | "/usr/lib/jvm/java-21-openjdk-21.0.10.0.7-1.el8.x86_64/bin/java"                                                                                                                                                                                                                                                                                      |
| process.pid                 | "1"                                                                                                                                                                                                                                                                                                                                                   |
| process.runtime.description | "Red Hat, Inc. OpenJDK 64-Bit Server VM 21.0.10+7-LTS"                                                                                                                                                                                                                                                                                                |
| process.runtime.name        | "OpenJDK Runtime Environment"                                                                                                                                                                                                                                                                                                                         |
| process.runtime.version     | "21.0.10+7-LTS"                                                                                                                                                                                                                                                                                                                                       |
|                             | "cd-consignado_cnsq-srv-iness-smc-6c66b7cf7f-66ksh_cnsq"                                                                                                                                                                                                                                                                                              |

03.

## Mistake #2

Over instrumentation

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# ■ Sources of over-instrumentation



## Traces

One span per function call, health-checks, static assets, ...



## Metrics

High-cardinality attributes (user IDs), collection too frequent, ...

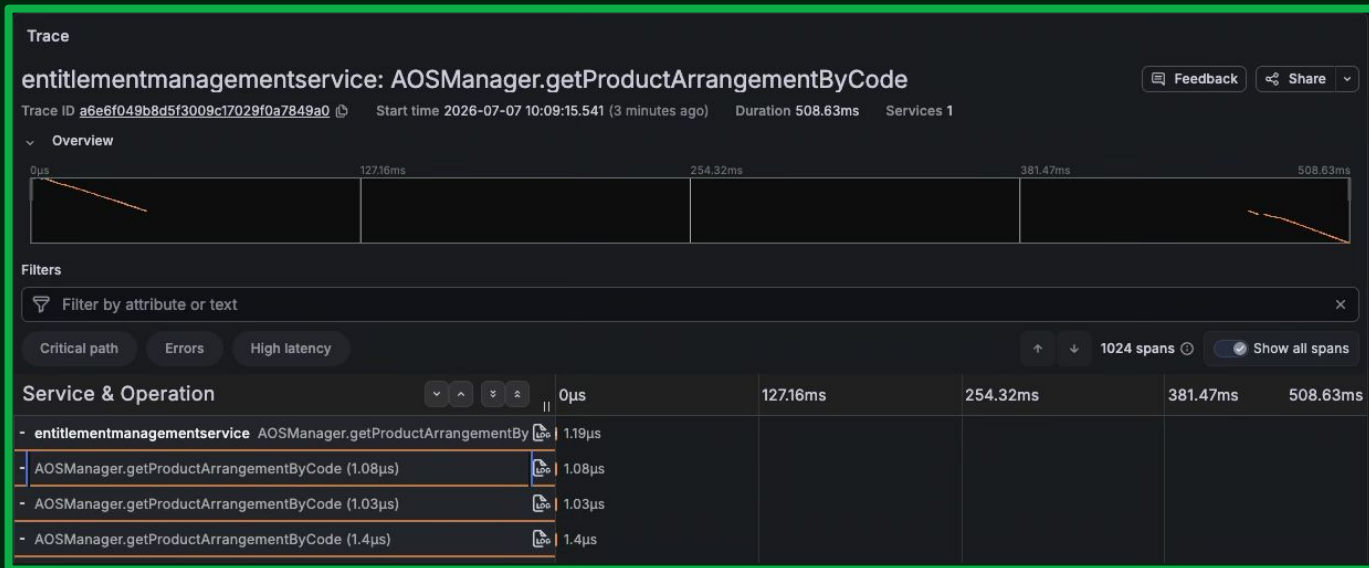


## Logs

Debug logs in the hot path in production, "I'm here", ...

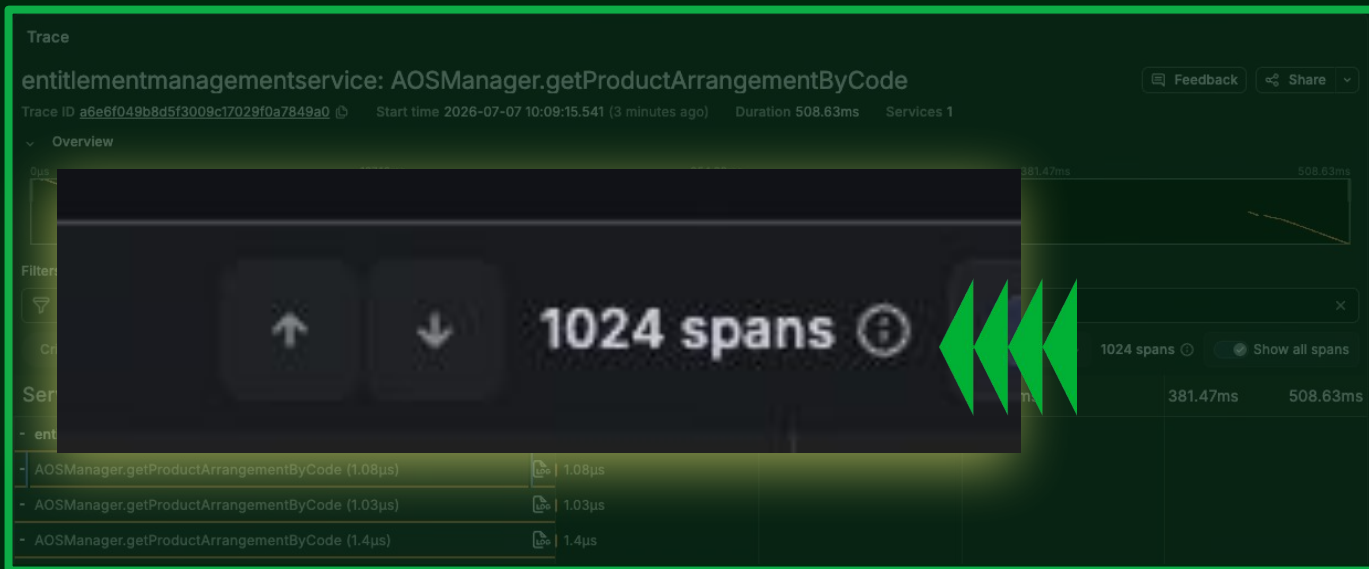
# Examples

Huge traces



# ■ Examples

Huge traces



# ■ Examples

Debug logs in hot path

▼ Log line

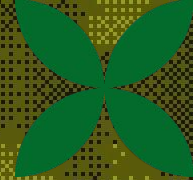
```
{  
  "level": 20,  
  "severity": "DEBUG",  
  "time": 1783299600010,  
  "service": "payments-service-api",  
  "context": "***",  
  "msg": "Payout settlement disabled (PAYOUT_SETTLEMENT_ENABLED), skipping scheduled sweep"  
}
```

04.

## Mistake #3

Thinking only about the happy path

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66

What do I need to know at  
2am in the morning when I  
haven't had enough caffeine?

05.

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## Mistake #4

Not using the right tool for the job



# ■ Examples

## Counting logs vs. metrics

```
: 2026-07-07 13:12:35.500 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.498 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.498 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.491 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.491 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.491 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.483 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.483 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.482 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.476 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.474 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.474 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.468 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.467 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.466 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.460 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.459 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.459 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
: 2026-07-07 13:12:35.453 WARN Execution of JMS message listener failed, and no ErrorHandler has been set.
```

# ■ Examples

## Logs instead of traces

```
» 2026-07-07 13:42:42.016 INFO Traitement du message reçu avec succès: EvenementSuccesDTO(evento=comunicacao-open-api
-exemplo, action=200: Notification envoyée avec succès, messageId=J210119734UYIZ71G8ZON7KS, tipo=EMAIL, broker=EMSG, d
ataEvento=2026-07-06T00:01:19.875370451Z, identificadores=IdentificadoresSucessoDTO(seletor=000123456789000098), dados
Produto=DadosProdutoDTO(destinatarios=celine.morin@example.com))

: 2026-07-07 13:42:41.922 INFO Traitement du message reçu avec succès: EvenementSuccesDTO(evento=comunicacao-open-api
-exemplo, action=200: Notification envoyée avec succès, messageId=J210119725YC3EGJ82LBQ28W, tipo=EMAIL, broker=EMSG, d
ataEvento=2026-07-06T00:01:19.870068524Z, identificadores=IdentificadoresSucessoDTO(seletor=000123456789000098), dados
Produto=DadosProdutoDTO(destinatarios=chloe.rousseau@example.com))

: 2026-07-07 13:42:41.922 INFO Traitement du message reçu avec succès: EvenementSuccesDTO(evento=comunicacao-open-api
-exemplo, action=200: Notification envoyée avec succès, messageId=J210119737JCZK5GE3XCPL71, tipo=EMAIL, broker=EMSG, d
ataEvento=2026-07-06T00:01:19.877133264Z, identificadores=IdentificadoresSucessoDTO(seletor=000123456789000098), dados
Produto=DadosProdutoDTO(destinatarios=juliette.garnier@example.com))

: 2026-07-07 13:42:41.921 INFO Traitement du message reçu avec succès: EvenementSuccesDTO(evento=comunicacao-open-api
-exemplo, action=200: Notification envoyée avec succès, messageId=J210119719Z1Z0E76M10ZE50, tipo=EMAIL, broker=EMSG, d
ataEvento=2026-07-06T00:01:19.859176224Z, identificadores=IdentificadoresSucessoDTO(seletor=000123456789000098), dados
Produto=DadosProdutoDTO(destinatarios=emma.simon@example.com))

: 2026-07-07 13:42:41.921 INFO Traitement du message reçu avec succès: EvenementSuccesDTO(evento=comunicacao-open-api
-exemplo, action=200: Notification envoyée avec succès, messageId=J210119724068ENSY7PBK6ZF, tipo=EMAIL, broker=EMSG, d
ataEvento=2026-07-06T00:01:19.863200759Z, identificadores=IdentificadoresSucessoDTO(seletor=000123456789000098), dados
Produto=DadosProdutoDTO(destinatarios=paul.rousseau@example.com))

: 2026-07-07 13:42:41.921 INFO Traitement du message reçu avec succès: EvenementSuccesDTO(evento=comunicacao-open-api
-exemplo, action=200: Notification envoyée avec succès, messageId=J210119742UDK140GSSXTTZM, tipo=EMAIL, broker=EMSG, d
ataEvento=2026-07-06T00:01:19.868808370Z, identificadores=IdentificadoresSucessoDTO(seletor=000123456789000098), dados
Produto=DadosProdutoDTO(destinatarios=alexandre.roux@example.com))

: 2026-07-07 13:42:39.721 INFO Traitement du message reçu avec succès: EvenementSuccesDTO(evento=comunicacao-open-api
-exemplo, action=200: Notification envoyée avec succès, messageId=J210116280STBZV90KKLBWWR, tipo=EMAIL, broker=EMSG, d
ataEvento=2026-07-06T00:01:19.8048742728Z, identificadores=IdentificadoresSucessoDTO(seletor=000123456789000098), dados
```

06.

 OillyGarden

# Key takeaways

How to get better



# ■ Takeaways



With OTel, you can get telemetry to understand your code.



Instrumentation is boring. Our instinct is to automate.



Automation helps for the most part. But brings junk.



Some of that junk is nuclear waste. You don't want that.



Look at your telemetry, think before you act.





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