

```
# OpenPipeline Migration Guide: Part 4

> **Series:** OPMIG | **Notebook:** 4 of 9 | **Created:** December 2025

## Pipeline Configuration Fundamentals

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## Learning Objectives

By the end of this notebook, you will:

-  Navigate the OpenPipeline UI confidently
-  **Follow step-by-step UI walkthrough**
-  Create custom pipelines from scratch
-  Configure processors with best practices
-  Test configurations with sample data
-  **Build complete end-to-end pipeline examples**
-  **Configure pipelines via API/code**
-  Verify pipeline processing with DQL

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## Accessing OpenPipeline Settings – Detailed Guide

### Navigation Path

**From Dynatrace Home:**

```
1. Click ≡ (hamburger menu) in top-left
2. Scroll to "Manage" section
3. Click "Settings"
4. In left sidebar, expand "Process and contextualize"
5. Click "OpenPipeline"
```

**Direct URL:**

```
https://{{your-environment}}.apps.dynatrace.com/ui/settings/openpipeline
```

### OpenPipeline UI Overview

![OpenPipeline UI Overview]()
```

ciIHZpZXdCb3g9IjAgMCA3MDAgMzgwIj4KICA8ZGVmcz4KICAgIDxsaw5lYXJHcmFkaWVudCBpZD0iaGVhZGvR3JhZC1geDE9IjAlIiB5MT0iMCUiIHgyPSIwJSIgeTI9IjEwMCUiPgogICAgICA8c3RvcCBvZmZzZXQ9IjAlIiBzdHlsZT0ic3RvcC1jb2xvcjojMWU0MGFm03N0b3Atb3BhY2l0eToxIiAvPgogICAgICA8c3RvcC1vcGFjaXR50jEiIC8+CiAgICA8L2xpbmVhckdyYWRpZW50PgogICAgPGZpbHRlcibpZD0idWlTaGFkb3ciPgogICAgICA8ZmVEcm9wU2hhZG93IGR4PSIyIiBkeT0iMiIgc3RkRGV2aWF0aW9uPSIzIiBmbG9vZC1vcGFjaXR5PSIwLjE1Ii8+CiAgICA8L2ZpbHRlcj4KICA8L2R1ZnM+CgogIDwhLS0gQmFja2dyb3VuZCAAtLT4KICA8cmVjdCB3aWR0aD0iNzAwIiBoZWlnaHQ9IjM4MCigZmlsbD0iI2Y4ZjlmYSIgcng9IjEwIi8+CgogIDwhLS0gV2luZG93IGZyYW1lIC0tPgogIDxyZWN0IHg9IjMwIiB5PSIyMCIgd2lkGg9IjY0MCigAGVpZ2h0PSIzNDAlIiHJ4PSI4IiBmaWxsPSJ3aGl0ZSIg3Ryb2tlPSIjZTJl0GYwIiBzdHJva2Utd2lkGg9IjIiIGZpbHRlcj0idXjsKCN1aVNoYWRvdykilz4KCiAgPCetLSBIZWFkZXIgYmFyIC0tPgogIDxyZWN0IHg9IjMwIiB5PSIyMCigd2lkGg9IjY0MCigAGVpZ2h0PSI0NSIgcng9IjgiIGZpbGw9InVybCgjaGVhZGvR3JhZCkiLz4KICA8cmVjdCB4PSIzMCIgeT0iNTciIHdpZHRoPSI2NDAiIGHlaWdodD0iOCigZmlsbD0idXjsKCN0ZWFkZXJHcmFkKSiVPgogIDx0ZXh0IHg9IjUwIiB5PSI00CigZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmIiBmb250LXNpemU9IjE0IiBmb250LXdlaWdodD0iYm9sZCIgZmlsbD0id2hpdGUIPk9wZW5QaXBlbGluZSBdb25maWd1cmF0aW9uPC90ZXh0PgoKICA8IS0tIEh1bHAgYnV0dG9uIC0tPgogIDxyZWN0IHg9IjYyMCiget0iMzIiIHdpZHRoPSIzNSIgaGVpZ2h0PSIyMCigcng9IjQiIGZpbGw9InJnYmEoMjU1LDI1NSwyNTUsMC4yKSiVPgogIDx0ZXh0IHg9IjYzNyIgeT0iNDYiIGZvbnQtZmFtaWx5PSJBcmhbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMiIgZmlsbD0id2hpdGUIIHReHQtYW5jaG9yPSJtaWRkbGUipj8gSGVscDwvdGV4d4KCiAgPCetLSBTY29wZSBkcm9wZG93biAtLT4KICA8dGV4dCB4PSI1MCiget0i0TuiIGZvbnQtZmFtaWx5PSJBcmhbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMiIgZmlsbD0iIzY0NzQ4YiI+Q29uZmlndXJhdGlvbiBzY29wZTo8L3RleHQ+CiAgPHJlY3QgeD0iMTc1IiB5PSI4MCigd2lkGg9IjEyMCigAGVpZ2h0PSIyOCigcng9IjQiIGZpbGw9IndoaXR1IiBzdHJva2U9IiInjYmQ1ZTEiIHn0cm9rZS13aWR0aD0iMSivPgogIDx0ZXh0IHg9IjE5MCiget0i0Tk1IGZvbnQtZmFtaWx5PSJBcmhbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMiIgZmlsbD0iIzMzNDE1NSI+TG9nczwvdGV4d4KICA8dGV4dCB4PSIy0DAiIHk9Ijk5IiBmb250LwZhbwlseT0iQXJpYwsiHNhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTAiIGZpbGw9IiM2NDc00GIiPuKwvDwvdGV4d4KCiAgPCetLSBBcnJvdyBwb2ludGluZyB0byBkcm9wZG93biAtLT4KICA8cGF0aCBkPSJNMzA1LDk0IEwzNDAs0TQjIHN0cm9rZT0iIzNi0DJmNiIgc3Ryb2tlLxdpZHRoPSIyIiBmaWxsPSJub25lIiBtYXJrZXItZW5kPSJ1cmwoI3VpQXJyb3cpIi8+CiAgPHReHQgeD0iMzUwIiB5PSI50CigZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmIiBmb250LXNpemU9IjEwIiBmaWxsPSIjM2I4MmY2IiBmb250LXN0eWx1PSJpdGFsaWMiPlNFTeVDVCBEQVRBIFRZUEU8L3RleHQ+CgogIDwhLS0gVGficyAtLT4KICA8cmVjdCB4PSI1MCiget0iMTIwIiB3aWR0aD0iNjAwIiBoZWlnaHQ9IjM1IiByeD0iNCigZmlsbD0iIzYxjVmOSIg3Ryb2tlPSIjZTJl0GYwIiBzdHJva2Utd2lkGg9IjEiLz4KICA8cmVjdCB4PSI1MiIgeT0iMTIyIiB3aWR0aD0iMTIwIiBoZWlnaHQ9IjMxiIByeD0iMyIgZmlsbD0iIzNi0DjmNiIiVpgogIDx0ZXh0IHg9IjExMiIgeT0iMTQzIiBmb250LwZhbwlseT0iQXJpYwsiHNhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTEiIGZpbGw9IndoaXR1IiB0ZXh0LWFuY2hvcj0ibWlkZgxliiBmb250LXdlaWdodD0iYm9sZCI+UGlwZwpxbmVzPC90ZXh0PgogIDx0ZXh0IHg9IjIzMiIgeT0iMTQzIiBmb250LwZhbwlseT0iQXJpYwsiHNhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTEiIGZpbGw9IiM2NDc00GIiIHReHQtYW5jaG9yPSJtaWRkbGUipkR5bmFtaWmgcm91dGluZzwvdGV4d4KICA8dGV4dCB4PSIzNzIiIHK9IjE0MyIgZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmIiBmb250LXNpemU9IjExIiBmaWxsPSIjNjQ3NDhiIiB0ZXh0LWFuY2hvij0ibWlkZgxlij5jbmldlc3Qgc291cmNlczwvdGV4d4KCiAgPCetLSBBZGqgUGlwZwpxbmUgYnV0dG9uIC0tPgogIDxyZWN0IHg9IjUwIiB5PSIxNzAiIHDpZHRoPSIxMTAiIGHlaWdodD0iMzIiIHJ4PSI2IiBmaWxsPSIjMTBi0TgxIi8+CiAgPHReHQgeD0iMTA1IiB5PSIxOTEiIGZvbnQtZmFtaWx5PSJBcmhbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMiIgZmlsbD0id2hpdGUIIHReHQtYW5jaG9yPSJtaWRkbGUiIGZvbnQtd2VpZ2h0PSJib2xkIj4rIFBpcGVsaW5lPC90ZXh0PgoKICA8IS0tIEFycm93IHBvaW50aW5nIHRvIGJ1dHRvbAtLT4KICA8cGF0aCBkPSJNMTCwLDE4NiBMMjEwLDE4NiIgc3

```
Ryb2tlPSIjMTBiOTgxIiBzdHJva2Utd2lkGg9IjIiIGZpbGw9Im5vbmUiLz4KICA8dGV4dCB4PSIyMjAiIHk9IjE5MCiGZm9udC1mYW1pbHk9IkFyaWFsLCBzYw5zLXNlcmlmIiBmb250LXNpemU9IjEwIiBmaWxsPSIjMTBiOTgxIiBmb250LXN0eWxlPSJpdGFsaWMiPkNSRUFURSB0RVcgUELQRUxJTKU8L3RleHQ+CgogIDwhLS0gUGlwZWxpbmUgbGlzdCATLT4KICA8ZyB0cmFuc2Zvcm09InRyYW5zbGF0ZSg1MCwgMjIwKSI+CiAgICA8IS0tIFBpcGVsaW5lIDE6IGR1ZmF1bHQgLS0+CiAgICA8cmVjdCB3aWR0aD0iNjAwIiBoZWlnaHQ9IjQwIiByeD0iNCiGZmlsbD0iI2Y4ZmFmYyIgc3Ryb2tlPSIjZTJl0GYwIiBzdHJva2Utd2lkGg9IjEiLz4KICA8IDx0ZXh0IHg9IjE1IiB5PSIyNSiGZm9udC1mYW1pbHk9IkFyaWFsLCBzYw5zLXNlcmlmIiBmb250LXNpemU9IjE4IiBmaWxsPSIjZjU5ZTBiIj7wn50BPC90ZXh0PgogICA8PHRleHQgeD0iNDUiIHk9IjI2IiBmb250LWZhbWlseT0iQXJpYwlsIHNhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTIiIGZpbGw9IiMzMzQxNTUiPmRlZmF1bHQ8L3RleHQ+CiAgICA8dGV4dCB4PSI1NzUiIHk9IjI2IiBmb250LWZhbWlseT0iQXJpYwlsIHNhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTQiIGZpbGw9IiM5NGEzYjgiPuKLrjwvdGV4dD4KCiAgICA8IS0tIFBpcGVsaW5lIDIgLS0+CiAgICA8cmVjdCB5PSI0NSiGd2lkGg9IjYwMCiGaGVpZ2h0PSI0MCiGcng9IjQiIGZpbGw9IiNm0GZhZmMiIHN0cm9rZT0iI2UyZThmMCiGc3Ryb2tlLXdpZHRoPSIxIi8+CiAgICA8dGV4dCB4PSIxNSiGeT0iNzAiiGZvbnQtZmFtaWx5PSJBcmhbCwg2Fucy1zZXJpZiIgZm9udC1zaXplPSIxOCiGZmlsbD0iIzNi0DJmNiI+8J+TgTwvdGV4dD4KICA8IDx0ZXh0IHg9IjQ1IiB5PSI3MSiGZm9udC1mYW1pbHk9IkFyaWFsLCBzYw5zLXNlcmlmIiBmb250LXNpemU9IjEyIiBmaWxsPSIjMz0MTU1Ij5rdWJlcm5ldGVzLWxvZ3M8L3RleHQ+CiAgICA8dGV4dCB4PSI1NzUiIHk9IjcxIiBmb250LWZhbWlseT0iQXJpYwlsIHNhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTQiIGZpbGw9IiM5NGEzYjgiPuKLrjwvdGV4dD4KCiAgICA8IS0tIFBpcGVsaW5lIDM6IGN1c3RvbSATLT4KICA8IDx0ZXh0IHg9IjE1IiB5PSIxMTUiIGZvbnQtZmFtaWx5PSJBcmhbCwg2Fucy1zZXJpZiIgZm9udC1zaXplPSIxOCiGZmlsbD0iIzNi0DJmNiI+8J+TgTwvdGV4dD4KICA8IDx0ZXh0IHg9IjQ1IiB5PSIxMTUiIGZvbnQtZmFtaWx5PSJBcmhbCwg2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMiIgZmlsbD0iIzFlNDbhZiIgZm9udC13ZWlnaHQ9ImJvbGQiPm15LWN1c3RvbS1waXB1bGluzTwvdGV4dD4KICA8IDx0ZXh0IHg9IjU3NSiGeT0iMTE2IiBmb250LWZhbWlseT0iQXJpYwlsIHNhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTQiIGZpbGw9IiM5NGEzYjgiPuKLrjwvdGV4dD4KICA8L2c+Cjwvc3ZnPgo=)
```

### ### Configuration Scopes

The dropdown at the top lets you switch between data types:

Scope	Icon	What It Handles
**Logs**	📝	Log records from all sources
**Spans**	🔗	Distributed trace spans
**Metrics**	📊	Metric data ingestion
**Events**	⚡	Platform events
**Business Events**	📦	Business analytics events
**Security Events**	🔑	Security data

> **Tip:** Each scope has its own separate set of pipelines. Start with \*\*Logs\*\* for your migration.

### ### Three Main Tabs

```
#### 1. Pipelines Tab
- View all pipelines for selected scope
- Create new pipelines
- Edit pipeline configuration
- Configure processing, extraction, storage
```

```
#### 2. Dynamic Routing Tab
- Create routing rules
- Map data to pipelines
- Set matching conditions
- Control route order
```

```
#### 3. Ingest Sources Tab
- View data sources
- See ingestion statistics
- Monitor source health
- Troubleshoot ingestion issues
```

---

## ## Step-by-Step: Creating Your First Pipeline

Let's walk through creating a complete pipeline for nginx access logs.

### ### Step 1: Create the Pipeline

#### \*\*Actions:\*\*

1. Go to OpenPipeline → Logs scope
2. Click **[+ Pipeline]** button (top-left)
3. Enter name: `nginx-access-logs`
4. Add description: `Process nginx access logs with parsing and metric extraction`
5. Click **Create**

\*\*Result:\*\* New empty pipeline appears in list

---

### ### Step 2: Configure Processing Stage

#### #### 2a. Add DQL Processor for Parsing

#### \*\*Actions:\*\*

1. Click on your `nginx-access-logs` pipeline
2. Go to **Processing** tab
3. Click **[+ Processor]** button
4. Select **DQL** from processor types

```

**Configuration:**
```
Name: Parse nginx access log

Matching condition:
log.source == "nginx" OR contains(content, "GET") OR contains(content, "POST")

Processor definition:
parse content, "IPADDR:client_ip SPACE '-' SPACE LD:user SPACE '['
LD:timestamp ']' SPACE '\\" LD:method SPACE LD:path SPACE LD:protocol '\\"'
SPACE INT:status_code SPACE INT:bytes"
```

**Test with Sample Data:**
```json
{
    "content": "192.168.1.100 -- [12/Dec/2024:10:30:45 +0000] \"GET /api/users
HTTP/1.1\" 200 1234",
    "log.source": "nginx"
}
```

5. Click **[Run sample data]**
6. Verify fields extracted: `client_ip`, `method`, `path`, `status_code`, `bytes`
7. Click **[Save]**


#### 2b. Add Enrichment Processor

**Actions:**
1. Click **[+ Processor]** again
2. Select **DQL**


**Configuration:**
```
Name: Add environment tags

Matching condition:
(leave empty to apply to all)

Processor definition:
fieldsAdd environment = "production"
| fieldsAdd service_type = "web-server"
| fieldsAdd response_category = if(status_code < 400, "success",
else: if(status_code < 500, "client_error",
else: "server_error"))
```

```

```
```
3. Click **[Save]**


---


### Step 3: Configure Metric Extraction

**Actions:**
1. Go to **Metric extraction** tab
2. Click **[+ Metric]**


**Configuration for Request Count:**

```
Metric type: Counter
Metric key: log.nginx.request_count

Dimensions:
- method
- status_code
- environment

Matching condition:
isNotNull(status_code)
```

```
3. Click **[Save]***
4. Click **[+ Metric]** again for bytes metric


**Configuration for Response Size:**

```
Metric type: Value
Metric key: log.nginx.response_bytes
Value field: bytes

Dimensions:
- method
- path

Matching condition:
isNotNull(bytes)
```

```
5. Click **[Save]**


---


### Step 4: Configure Storage
```

```
**Actions:**  
1. Go to **Storage** tab  
2. Select target bucket: `default_logs`  
3. Click **[Save]**  
  
>  **Tip:** If you created custom buckets, select the appropriate one here (e.g., `web_logs` with 14-day retention)
```

---

### ### Step 5: Create Dynamic Routing

```
**Actions:**  
1. Go to **Dynamic routing** tab (top of OpenPipeline page)  
2. Click **[+ Dynamic route]**
```

```
**Configuration:**
```

```

Name: Route nginx logs

Matching condition:

```
log.source == "nginx" OR contains(content, "nginx")
```

Pipeline: nginx-access-logs

```

3. Click \*\*[Save]\*\*

---

### ### Step 6: Test End-to-End

```
**Option 1: Send Test Log via API**  
```bash  
curl -i -X POST \  
"https://{{your-environment}}.live.dynatrace.com/api/v2/logs/ingest" \  
-H "Content-Type: application/json" \  
-H "Authorization: Api-Token {{your-token}}" \  
-d '{  
    "content": "192.168.1.100 -- [12/Dec/2024:10:30:45 +0000] \"GET  
    /api/users HTTP/1.1\" 200 1234",  
    "log.source": "nginx"  
}'  
```
```

```
**Option 2: Check with Existing Logs**
```

```
Wait 2-3 minutes for processing, then run verification query (see next section).
```

```
---
```

### ### Step 7: Verify Processing

See the validation queries in the next section to confirm:

- Logs are routed to your pipeline ✓
- Fields are parsed correctly ✓
- Metrics are being generated ✓

```
---
```

## ## Complete Pipeline Examples

### ### Example 1: Application Logs with Error Tracking

**Use Case:** Java application logs with structured format

**Pipeline:** `java-app-logs`

**Processing Stage:**

**Processor 1: Parse Log Structure**

```
```dql
parse content, "'[' TIMESTAMP('yyyy-MM-dd HH:mm:ss'):log_time ']' SPACE '['
LD:level ']' SPACE '[' LD:thread ']' SPACE LD:class ' - ' DATA:message"
```
```

```

**Processor 2: Extract Request ID**

```
```dql
parse content, "requestId=' LD:request_id"
```
```

```

**Processor 3: Classify Errors**

```
```dql
fieldsAdd error_type = if(contains(message, "NullPointerException"), "NPE",
                           else: if(contains(message, "SQLException"), "DB",
                                   else: if(contains(message, "TimeoutException"),
                                         "Timeout",
                                         else: "Other")))
| fieldsAdd severity = if(level == "ERROR", "critical",
                           else: if(level == "WARN", "warning",
                                   else: "info"))
```
```

```

**Metric Extraction:**

```

- **Counter:** `log.java.error_count` (dimensions: error_type, class)
- **Counter:** `log.java.request_count` (dimensions: level, thread)

**Event Extraction:**
- **Event Name:** `application.error`
- **Description:** `Error in {class}: {error_type}`
- **Type:** ERROR
- **Matching:** `level == "ERROR"`

**Storage:** `default_logs` (35 days)

---

### Example 2: Payment Service with PCI-DSS Compliance

**Use Case:** Financial logs requiring credit card masking

##### Pipeline: `payment-service-secure`

**Processing Stage (in order):**

**Processor 1: Mask Credit Cards (FIRST!)**
```dql
fieldsAdd content = replacePattern(content, "CREDITCARD", replacement: "
[CC_REDACTED]")
```

**Processor 2: Mask CVV**
```dql
fieldsAdd content = replacePattern(content, "('cvv='|'cvc=') INT{3,4}",
replacement: "cvv=[REDACTED]")
```

**Processor 3: Parse Payment Data**
```dql
parse content, "'orderId=' INT:order_id ','"
| parse content, "'amount=' DOUBLE:amount"
| parse content, "'currency=' LD:currency"
| parse content, "'status=' LD:payment_status"
```

**Processor 4: Add Tags**
```dql
fieldsAdd service = "payment"
| fieldsAdd compliance = "pci-dss"
| fieldsAdd audit_required = true
```

```

```

**Metric Extraction:**
- **Value:** `log.payment.amount` (value: amount, dimensions: currency,
payment_status)
- **Counter:** `log.payment.transaction_count` (dimensions: payment_status,
currency)

**Business Event Extraction:**
- **Type:** `com.company.payment.processed`
- **Provider:** `payment-service`
- **Fields:** order_id, amount, currency, payment_status

**Storage:** `financial_logs` (90 days – compliance requirement)

---

### Example 3: Kubernetes Logs with Pod Context

**Use Case:** Container logs with K8s metadata

##### Pipeline: `kubernetes-app-logs`

**Processing Stage:**

**Processor 1: Drop System Logs**
```dql
Matching: k8s.namespace.name == "kube-system" AND loglevel == "DEBUG"
Action: Drop
```

**Processor 2: Parse JSON Logs**
```dql
parse content, "JSON:json_payload"
```

**Processor 3: Enrich with K8s Context**
```dql
fieldsAdd app = k8s.deployment.name
| fieldsAdd namespace = k8s.namespace.name
| fieldsAdd pod_name = k8s.pod.name
| fieldsAdd container = k8s.container.name
```

**Metric Extraction:**
- **Counter:** `log.k8s.pod_log_count` (dimensions: namespace, app, loglevel)

**Storage:** Route based on namespace:
- production namespace → `prod_logs` (35 days)
- staging namespace → `staging_logs` (14 days)

```

```
- dev namespace → `dev_logs` (7 days)
```

```
---
```

```
---
```

```
## Understanding the Interface
```

```
### Pipeline Configuration Tabs
```

Each pipeline has these configuration sections:

| Tab                     | Purpose                   | Key Actions                  |
|-------------------------|---------------------------|------------------------------|
| **Processing**          | Transform and enrich data | Add DQL processors, parsers  |
| **Metric extraction**   | Create metrics from data  | Define value/counter metrics |
| **Event extraction**    | Generate events           | Create platform events       |
| **Bizevent extraction** | Create business events    | Generate bizevents           |
| **Storage**             | Configure bucket routing  | Set target bucket            |

```
### Processor Configuration Panel
```

When adding a processor, you configure:

1. **Name**: Descriptive name for the processor
2. **Matching condition**: When this processor runs
3. **Processor definition**: What the processor does
4. **Sample data**: Test data to validate

```
![Processor Configuration Panel]
```

```
(
```

## ## Creating Your First Pipeline

```

### Step-by-Step: Create a Log Processing Pipeline

Example: Create a pipeline for nginx access logs

#### Step 1: Navigate to OpenPipeline
```
Settings → Process and contextualize → OpenPipeline → Logs
```

#### Step 2: Create Pipeline
1. Click Pipeline
2. Enter name: `nginx-access-logs`
3. Click Create

#### Step 3: Add Processing (Parsing)
1. Go to Processing tab
2. Click Processor → DQL
3. Configure:
   - Name: `Parse nginx access log`
   - Matching condition: `matchesValue(content, "*HTTP*")`
   - Processor definition:
     ```
     parse content, "IPADDR:client_ip SPACE '-' SPACE LD:user SPACE '['
     LD:timestamp ']' SPACE '\"' LD:method SPACE LD:path SPACE LD:protocol '\"'
     SPACE INT:status_code SPACE INT:bytes"
     ```

#### Step 4: Test with Sample Data
1. Enter sample log:
```
```json
{"content": "192.168.1.100 -- [12/Dec/2024:10:30:45 +0000] \"GET
/api/users HTTP/1.1\" 200 1234"}
```
```

2. Click Run sample data
3. Verify extracted fields

#### Step 5: Save Pipeline
Click Save to store the configuration.

---

## Configuring Processors

### DQL Processor Examples

The DQL processor is the most flexible. Here are common patterns:

```

```

##### Add Static Fields
```
fieldsAdd environment = "production"
fieldsAdd application = "web-frontend"
```

##### Add Conditional Fields
```
fieldsAdd severity = if(loglevel == "ERROR", "critical",
                        else: if(loglevel == "WARN", "warning",
                                else: "normal"))
```

##### Parse with DPL Pattern
```
parse content, "'userId=' LD:user_id ''"
```

##### Remove Sensitive Fields
```
fieldsRemove password, secret_key, api_token
```

##### Rename Fields for Standardization
```
fieldsRename old_field_name = standardized_name
```

### Drop Processor Examples

Drop processors remove records matching conditions:

| Matching Condition | Effect |
|-----|-----|
| `loglevel == "DEBUG"` | Drop all debug logs |
| `contains(content, "healthz")` | Drop health check logs |
| `contains(content, "/metrics")` | Drop Prometheus scrapes |
| `status == "TRACE"` | Drop trace-level logs |

### Technology Parsers

Built-in parsers for common formats:

| Parser | Applies To | Extracted Fields |
|-----|-----|-----|
| **Apache** | Apache access logs | client_ip, method, path, status |
| **Nginx** | Nginx access logs | Similar to Apache |
| **JSON** | JSON-formatted logs | All JSON fields flattened |

```

```
| **Syslog** | Syslog format | facility, severity, hostname |  
---  
## Setting Up Dynamic Routing  
  
Dynamic routing sends data to specific pipelines based on matching  
conditions.  
  
#### Routing Configuration Steps  
  
1. Go to **Dynamic routing** tab  
2. Click *** Dynamic route***  
3. Configure:  
   - **Name**: Descriptive route name  
   - **Matching condition**: When to use this route  
   - **Pipeline**: Target pipeline
```

### ### Matching Condition Examples

```
| Condition | Routes To |
|-----|-----|
| `log.source == "nginx"` | nginx-logs pipeline |
| `k8s.namespace.name == "production"` | prod-logs pipeline |
| `contains(content, "payment")` | payment-logs pipeline |
| `dt.openpipeline.source == "generic"` | api-ingested pipeline |
| `host.name == "web-server-01"` | specific host pipeline |
```

### ### Route Evaluation Order

! [Dynamic Routing Flow]  
(

NkYjI3Nzc7c3RvcC1vcGFjaXR50jEiIC8+CiAgICA8L2xpbmVhckdyYWRpZW50PgogICAgPGxpBM  
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```
9udC1zaXplPSIxMC IgZmlsbD0iIzMzMyI+4oCiIERlZmF1bHQgY2F0Y2hlc ByZXN0PC90ZXh0Pgo
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MC Ig eT0iMjk1IiB3aWR0aD0iNzQwIiBoZWlnaHQ9IjMwIiByeD0iNC IgZmlsbD0iI2ZlZjNjNyIvP
gogIDx0ZXh0IHg9IjQwMC Ig eT0iMzE1IiBmb250LWZhbWlseT0iQXJpYw wsIHNhbnMtc2VyaWYiIG
ZvbnQtc2l6ZT0iMTAiIGZpbGw9IiM5MjQwMGUiIHRleHQtYw5jaG9yPSJtaWRkbGU iPk5vdGU6IEE
gcmVjb3JkIGlzIHN0b3JlZCBPTkNFIGluIHRoZSBmaXJzdCBtYXRjaGluZyBwaXBlbGluzSdzIGJ1
Y2tldCwgZXZlb iBpZiBwcm9jZXNzZWQgYnkgbXVs dGlwbGUgcGlwZWxpbmVzPC90ZXh0Pgo8L3N2Z
z4K)
```

>  **Tip:** Routes are evaluated in order. Place more specific routes first, general routes last.

---

## Testing Your Configuration

### Using Sample Data in UI

Every processor supports sample data testing:

1. Enter JSON sample in **Sample data** field
2. Click **Run sample data**
3. Review output in preview panel
4. Adjust processor definition as needed

### Sample Data Format

```
```json
{
  "content": "Your log message here",
  "log.source": "your-source",
  "timestamp": "2024-12-12T10:30:00Z",
  "k8s.namespace.name": "production"
}
```

```

### Testing via API

```
Send test logs to validate end-to-end:

```bash
curl -i -X POST \
"https://{{your-environment}}.live.dynatrace.com/api/v2/logs/ingest" \
-H "Content-Type: application/json" \
-H "Authorization: Api-Token {{your-token}}" \
-d '{"content":"Test log message","log.source":"test-source"}'
```

```

Response `204` indicates successful ingestion.

## ## Configuration Best Practices

### ### Pipeline Design Principles

| Principle            | Recommendation                                    |
|----------------------|---|
| **Single Purpose**   | One pipeline per use case (not one mega-pipeline) |
| **Specific Routing** | Use precise matching conditions                   |
| **Security First**   | Add masking processors early in the chain         |
| **Drop Early**       | Remove unwanted data before processing            |
| **Test Thoroughly**  | Validate every processor with sample data         |

### ### Processor Ordering

Within a pipeline, order processors logically:

- ```
```
1. Masking      → Protect sensitive data first
2. Drop         → Remove unwanted records
3. Parse        → Extract structured fields
4. Enrich       → Add context fields
5. Transform    → Compute derived values
```

```

### ### Naming Conventions

Type	Convention	Example
Pipeline	`{{source}}-{{purpose}}`	`nginx-access-logs`
Processor	`{{action}}-{{target}}`	`parse-request-line`
Route	`route-to-{{pipeline}}`	`route-to-nginx-logs`

### ### Common Mistakes to Avoid

Mistake	Problem	Solution
Overly broad routing	Too many logs hit pipeline	Use specific conditions
No masking	Sensitive data stored	Add masking before processing
Complex conditions	Hard to maintain	Break into multiple pipelines
Untested patterns	Parsing fails on real data	Always test with samples
Missing fallback	Unknown data lost	Configure default pipeline

---

```
## Verifying Pipeline Processing
```

After configuring pipelines, verify they're working correctly with these queries.

```
```python
// Verify logs are being processed by your new pipeline
// Replace 'your-pipeline-name' with your actual pipeline name
fetch logs, from: now() - 1h
| filter contains(toString(dt.openpipeline.pipelines), "your-pipeline-name")
| summarize {processed_count = count()}
| fieldsAdd status = if(processed_count > 0, "✅ Pipeline is processing logs", else: "⚠ No logs processed yet")
```

```python
// Check routing distribution across all pipelines
fetch logs, from: now() - 1h
| summarize {record_count = count()}, by: {dt.openpipeline.pipelines}
| sort record_count desc
```

```python
// Verify parsing is extracting expected fields
// Check for a specific field that should be parsed
fetch logs, from: now() - 1h
| filter isNotNull(dt.openpipeline.pipelines)
| summarize {
    total = count(),
    with_loglevel = countIf(isNotNull(loglevel)),
    with_status = countIf(isNotNull(status))
}, by: {dt.openpipeline.pipelines}
| fieldsAdd parsing_rate = round((toDouble(with_loglevel) / toDouble(total)) * 100, decimals: 1)
```

```python
```

```

// Sample recent logs from your pipeline to inspect parsed fields
fetch logs, from: now() - 1h
| filter contains(toString(dt.openpipeline.pipelines), "your-pipeline-name")
| limit 10
```

```python
// Check logs going to default pipeline (may need routing)
// High counts here suggest missing routing rules
fetch logs, from: now() - 1h
| filter isNull(dt.openpipeline.pipelines) OR dt.openpipeline.pipelines == []
| summarize {unrouted = count()}, by: {log.source}
| sort unrouted desc
| limit 20
```

```python
// Monitor pipeline processing over time
fetch logs, from: now() - 24h
| filter isNotNull(dt.openpipeline.pipelines)
| makeTimeseries {record_count = count()}, by: {dt.openpipeline.pipelines},
interval: 1h
```

```python
// Verify bucket routing is working
fetch logs, from: now() - 1h
| filter isNotNull(dt.openpipeline.pipelines)
| summarize {record_count = count()}, by: {dt.openpipeline.pipelines,
dt.system.bucket}
| sort record_count desc
```

---

## Complete Pipeline Example

Here's a complete example of a production pipeline configuration:

### Pipeline: `payment-service-logs`

**Routing Condition:**
```
k8s.namespace.name == "payments" OR log.source == "payment-service"
```

**Processors (in order):**

```

```

1. **Mask Credit Cards** (Masking)
  - Matching: `contains(content, "card")`
  - Definition: `fieldsAdd content = replacePattern(toString(content),
"\d{4}[- ]?\d{4}[- ]?\d{4}[- ]?\d{4}", "****-****-****-****")`

2. **Drop Health Checks** (Drop)
  - Matching: `contains(content, "/health") OR contains(content, "/ready")`

3. **Parse Payment Logs** (DQL)
  - Matching: `matchesValue(content, "*transaction")`
  - Definition: `parse content, "'transaction_id=' LD:transaction_id ',' 'amount=' DOUBLE:amount ',' 'status=' LD:payment_status"`

4. **Add Environment Tag** (DQL)
  - Matching: (none – applies to all)
  - Definition: `fieldsAdd service = "payment-service", criticality = "high"`

**Metric Extraction:**
- Name: `payment_amount_by_status`
- Field: `amount`
- Dimensions: `payment_status`


**Storage:**
- Bucket: `financial_logs` (90-day retention)

---
```

## ## Next Steps

Now that you can create and configure pipelines, continue with:

| Notebook | Focus Area                           |
|----------|--------------------------------------|
| OPMIG-05 | Routing & Bucket Management          |
| OPMIG-06 | Processing, Parsing & Transformation |
| OPMIG-07 | Metric & Event Extraction            |
| OPMIG-08 | Security, Masking & Compliance       |

## ## References

- [Configure Processing Pipeline](<https://docs.dynatrace.com/docs/discover-dynatrace/platform/openpipeline/getting-started/tutorial-configure-processing>)
- [Processing Examples]([https://docs.dynatrace.com/docs/discover-](https://docs.dynatrace.com/docs/discover)

[dynatrace/platform/openpipeline/use-cases/processing-examples\)](#)  
– [\[DQL Functions in OpenPipeline\]\(https://docs.dynatrace.com/docs/discover-dynatrace/platform/openpipeline/reference/openpipeline-dql-functions\)](#)  
– [\[Dynatrace Pattern Language\]\(https://docs.dynatrace.com/docs/discover-dynatrace/platform/grail/dynatrace-pattern-language\)](#)

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