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# OpenPipeline Migration Guide: Part 1

> **Series:** OPMIG | **Notebook:** 1 of 9 | **Created:** December 2025

## Introduction & Why Migrate from Classic to OpenPipeline v2.0

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## Learning Objectives

By the end of this notebook, you will:



- Understand what OpenPipeline is and why it replaces Classic log ingestion
- Learn the key architectural differences between Classic and OpenPipeline v2.0
- **Understand API endpoint compatibility and migration requirements**
- **Know OpenPipeline limits and constraints**
- Identify the benefits of migrating (cost, security, performance)
- **Review real-world migration scenarios**
- Assess your readiness to migrate



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## What is OpenPipeline?

**OpenPipeline** is Dynatrace's unified data handling solution that seamlessly ingests and processes data from different sources, at any scale, and in any format.

>💡 **Key Insight:** OpenPipeline is NOT just for logs! It's a comprehensive data processing framework that handles **logs, spans, metrics, events, business events, security events, and more**.

### OpenPipeline Architecture Overview

![OpenPipeline Architecture Diagram]( C8+CiAgICAgIDxzG9wIG9mZnNldD0iMTAwJSIgc3R5bGU9InN0b3AtY29sb3I6IzI1NjNlYjtzdG9wLW9wYWdpdHk6MSIgLz4KICAgIDwvbGluZWFFyR3JhZGllbnQ+CiAgICA8bGluZWFFyR3JhZGllbnQgaWQ9InJvdXRlR3JhZC1geDE9IjAlIiB5MT0iMCUiIHgyPSIxMDALIiB5Mj0iMTAwJSI+CiAgICAgIDxzG9wIG9mZnNldD0iMCUiIH0eWxlPSJzdG9wLWNvbG9y0iM4YjVjZjY7c3RvcC1vcGFjaXR50)
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```

### Core Capabilities

| Capability | Description |
|-----|-----|
| **Unified Ingestion** | Single solution for logs, spans, metrics, events, and business events |
| **Dynamic Routing** | Route data to specific pipelines based on matching conditions |
| **Real-time Processing** | Transform, enrich, and mask data at ingestion time |
| **Metric Extraction** | Create metrics from any data source for long-term analytics |
| **Event Generation** | Generate custom events and business events from incoming data |
| **Bucket Management** | Control retention and cost with targeted storage routing |
| **Security & Compliance** | Mask sensitive data before storage |

```

Classic vs OpenPipeline: Key Differences

Understanding the fundamental differences helps you plan your migration effectively.

Feature Comparison

Feature	Classic Ingestion	OpenPipeline v2.0
Data Types	Logs only	Logs, Spans, Metrics, Events, Bizevents
Processing Location	Post-storage	Pre-storage (at ingestion)
Parsing	Limited built-in parsers	Full DQL + DPL (Dynatrace Pattern Language)
Routing	Basic log sources	Dynamic routing with matching conditions
Metric Extraction	Not available	Extract metrics with dimensions
Event Generation	Not available	Generate events and bizevents
Data Masking	Post-processing only	At ingestion (before storage)
Cost Control	Limited	Drop unwanted data before storage
Bucket Routing	Default only	Route to custom buckets per pipeline
API Endpoints	`/api/v2/logs/ingest`	Multiple endpoints per data type
Configuration	Settings → Logs	Settings → OpenPipeline

Processing Stage Comparison

c3Npbmc8L3RleHQ+CiAgPHRleHQgeD0iNjQwIiB5PSIxMjAiIGZvbnQtZmFtaWx5PSJBcmhbCwg
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```
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```

> **⚠️** **Important:** With OpenPipeline, data processing happens **before** storage. This means you can reduce storage costs by dropping unwanted data and masking sensitive information before it's ever written to Grail.

Benefits of Migrating

1. 💰 Cost Optimization

Drop unwanted data before storage:

- Filter out debug logs, health checks, and noise
- Reduce storage costs by 30–70% in typical deployments
- Route high-volume, low-value data to shorter retention buckets

2. 🔒 Security & Compliance

Mask sensitive data at ingestion:

- PII (Personal Identifiable Information) never touches storage
- Credit card numbers, SSNs, emails masked before persistence
- Meet GDPR, HIPAA, PCI-DSS requirements

3. 📊 Enhanced Analytics

Extract metrics with dimensions:

- Create custom metrics from any log pattern
- Build long-term trend dashboards
- Enable business KPI tracking from technical data

4. ⚡ Improved Query Performance

Parse once, query fast:

- Structured fields extracted at ingestion
- No runtime parsing overhead
- Faster dashboards and alerts

5. ⚙️ Unified Data Processing

Single solution for all data types:

- Consistent processing for logs, spans, metrics, events

- Centralized configuration management
- Simplified operations and governance

6. ⚡ Real-time Enrichment

- **Add context at ingestion:****
- Add environment tags (prod, staging, dev)
 - Enrich with business context
 - Standardize field names across sources

OpenPipeline Configuration Scopes

OpenPipeline supports multiple **configuration scopes** – each handling a different data type:

Configuration Scope	Data Type	Use Case
Logs	Log records	Application logs, system logs, audit logs
Spans	Distributed traces	Span processing, trace enrichment
Metrics	Time-series data	Metric ingestion and transformation
Events	Platform events	Generic events, Davis events, SDLC events
Business Events	Business analytics	User journeys, transactions, conversions
Security Events	Security data	Vulnerability findings, compliance events
System Events	Infrastructure	System-level events and alerts

Ingest Sources per Scope

Each scope supports different ingest sources:

****Logs:****

- OneAgent log ingestion
- Generic log API (`/api/v2/logs/ingest`)
- OTLP logs
- Fluent integrations

****Spans:****

- OneAgent distributed tracing
- OTLP spans
- OpenTelemetry collectors

****Metrics:****

- OneAgent metrics
- OTLP metrics
- Metric ingestion API

```
>💡 **Tip:** Access OpenPipeline configuration at: **Settings → Process and contextualize → OpenPipeline**
```

```
---
```

```
## API Migration: Classic → OpenPipeline v2.0
```

```
### API Endpoint Compatibility
```

```
Good news: **The API endpoint remains the same!**
```

Endpoint	Classic	OpenPipeline	Notes
Logs	`/api/v2/logs/ingest`	`/api/v2/logs/ingest`	✓ No change required
OTLP Logs	Not available	`/otlp/v1/logs`	✓ New endpoint
Spans	`/api/v2/otlp/v1/traces`	`/api/v2/otlp/v1/traces`	✓ No change required

```
>💡 **Migration Tip:** You don't need to update your API calls! OpenPipeline automatically receives data sent to `/api/v2/logs/ingest`. The difference is in **how** the data is processed after ingestion.
```

```
### Ingestion Methods Comparison
```

Method	Classic	OpenPipeline	Value
OneAgent	✓ Supported	✓ Supported	`oneagent`
Generic Log API	✓ Supported	✓ Supported	`generic`
OTLP Protocol	⚠ Limited	✓ Full support	`otlp`
Fluent Bit	✓ Via API	✓ Via API	`generic`
Fluentd	✓ Via API	✓ Via API	`generic`
Logstash	✓ Via API	✓ Via API	`generic`
Vector	✓ Via API	✓ Via API	`generic`

```
### Required Token Permissions
```

Scope	Classic	OpenPipeline	Notes
`logs.ingest`	✓ Required	✓ Required	Same permission
`metrics.ingest`	N/A	⚠ Optional	Only if using metric extraction
`events.ingest`	N/A	⚠ Optional	Only if using event extraction

```
### Migration Strategy for API Clients
```

Scenario	Action Required

```
| **Using OneAgent** | ✅ No code changes | OpenPipeline handles automatically |
| **Using `/api/v2/logs/ingest`** | ✅ No code changes | Same endpoint works |
|
| **Using custom log shippers** | ⚠ Optional | Add `log.source` field for routing |
| **Want to leverage new features** | ⚠ Configure pipelines | Create OpenPipeline config in UI |

---

## Real-World Migration Scenarios

### Scenario 1: E-Commerce Platform

**Challenge:**
- 50M logs/day (70% debug logs)
- Payment logs contain credit card numbers
- Need to track order metrics from logs

**OpenPipeline Solution:**
1. **Drop debug logs** → Reduce volume by 70%
2. **Mask credit cards** → PCI-DSS compliance
3. **Extract payment metrics** → `order.amount`, `order.count`
4. **Route to tiered buckets** → High-value logs = 90 days, others = 7 days

**Result:** 70% cost savings, PCI compliance, new business metrics

### Scenario 2: Healthcare SaaS

**Challenge:**
- HIPAA compliance required
- Logs contain patient IDs, MRNs, SSNs
- Need audit trail for 7 years

**OpenPipeline Solution:**
1. **Mask all PHI fields** → Patient IDs, SSNs, MRNs
2. **Route audit logs** → Dedicated bucket with 2555-day retention
3. **Extract security events** → Failed auth attempts, data access
4. **Drop health checks** → Reduce noise

**Result:** HIPAA compliance, 7-year audit retention, 40% cost savings

### Scenario 3: FinTech Startup (ELK Migration)

**Challenge:**
- Migrating from ELK stack to Dynatrace
- Custom log formats (not JSON)
```

```
- Need APM + logs correlation

**OpenPipeline Solution:**
1. Parse custom log formats → DPL patterns for structured extraction
2. Extract request IDs → Correlate with traces
3. Create SLI metrics → Error rate, latency percentiles
4. Unified observability → Logs + APM in one platform

Result: ELK replacement, APM correlation, unified observability

### Scenario 4: Global Retailer (Multi-Region)

Challenge:
- Multi-region deployment (US, EU, APAC)
- GDPR compliance for EU customers
- 100+ microservices

OpenPipeline Solution:
1. Environment-based routing → prod/staging/dev to different buckets
2. Mask PII for EU → Email, IP addresses for EU region logs
3. Service-level pipelines → Dedicated processing per critical service
4. Metric extraction → Service-level SLIs

Result: Multi-region compliance, per-service observability, 50% cost reduction

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## Understanding Your Current State

Before migrating, you need to understand your current log ingestion landscape. The following queries help you assess what you're working with.

```python
// Identify your current log sources and volume
// This shows which sources are sending the most logs
fetch logs, from: now() - 7d
| summarize {log_count = count()}, by: {log.source}
| sort log_count desc
| limit 25
```

```python
// Check which logs are already processed by OpenPipeline vs Classic
// This helps identify migration progress
fetch logs, from: now() - 24h
```
```

```

| fieldsAdd pipeline_type = if(isNotNull(dt.openpipeline.pipelines),
"OpenPipeline",
                           else: if(isNotNull(dt.openpipeline.source),
"OpenPipeline",
                           else: "Classic"))
| summarize {log_count = count()}, by: {pipeline_type}
| sort log_count desc
```

```python
// Analyze log volume by OpenPipeline source
// Identify the ingestion methods being used
fetch logs, from: now() - 24h
| summarize {log_count = count()}, by: {dt.openpipeline.source}
| sort log_count desc
```

```python
// Check current bucket distribution
// Understand where your logs are being stored
fetch logs, from: now() - 24h
| summarize {log_count = count()}, by: {dt.system.bucket}
| sort log_count desc
```

```python
// Identify which pipelines are processing your logs
// Shows custom pipelines already configured
fetch logs, from: now() - 24h
| filter isNotNull(dt.openpipeline.pipelines)
| summarize {log_count = count()}, by: {dt.openpipeline.pipelines}
| sort log_count desc
```

Migration Readiness Assessment

Use these queries to assess your migration readiness and identify areas that need attention.

```python
// Check parsing coverage – how many logs have structured data?
// Low coverage indicates need for parsing pipelines
fetch logs, from: now() - 24h
| fieldsAdd has_structured_data = isNotNull(loglevel) OR isNotNull(status)
| summarize {
    total = count(),
    ...
}
```

```

```

 structured = countIf(has_structured_data),
 unstructured = countIf(NOT has_structured_data)
 }
| fieldsAdd coverage_pct = round((toDouble(structured) / toDouble(total)) *
100, decimals: 1)
```

````python
// Identify logs that could be dropped to save costs
// Debug logs and health checks are common candidates
fetch logs, from: now() - 24h
| summarize {
 total = count(),
 debug_logs = countIf(loglevel == "DEBUG" OR status == "DEBUG"),
 info_logs = countIf(loglevel == "INFO" OR status == "INFO"),
 health_checks = countIf(contains(toString(content), "health") OR
contains(toString(content), "heartbeat")),
 metrics_endpoints = countIf(contains(toString(content), "/metrics") OR
contains(toString(content), "/prometheus"))
}
| fieldsAdd droppable = debug_logs + health_checks + metrics_endpoints
| fieldsAdd potential_savings_pct = round((toDouble(droppable) /
toDouble(total)) * 100, decimals: 1)
```

````python
// Find logs with potential PII that needs masking
// Look for common patterns that might contain sensitive data
fetch logs, from: now() - 1h
| filter contains(toString(content), "email")
 OR contains(toString(content), "password")
 OR contains(toString(content), "ssn")
 OR contains(toString(content), "credit")
 OR contains(toString(content), "@")
| summarize {potentially_sensitive = count()}, by: {log.source}
| sort potentially_sensitive desc
| limit 20
```

````python
// Analyze log level distribution
// Helps identify noise reduction opportunities
fetch logs, from: now() - 24h
| summarize {log_count = count()}, by: {loglevel}
| sort log_count desc
```

````python

```

```
// Check log volume trends over time
// Understand your ingestion patterns
fetch logs, from: now() - 7d
| makeTimeseries {log_count = count()}, interval: 1h
```
---


## Migration Readiness Checklist

Based on your assessment queries, complete this checklist:

### Discovery Phase


- [ ] Identified all log sources (`log.source` values)
- [ ] Documented current log volume by source
- [ ] Identified which logs are already on OpenPipeline
- [ ] Analyzed current bucket usage



### Planning Phase


- [ ] Identified logs that can be dropped (debug, health checks)
- [ ] Identified logs requiring parsing (unstructured content)
- [ ] Identified logs with sensitive data requiring masking
- [ ] Planned bucket strategy (retention periods, cost tiers)



### Configuration Phase


- [ ] Created custom pipelines for each use case
- [ ] Configured dynamic routing rules
- [ ] Set up parsing processors (DQL/DPL)
- [ ] Configured masking for sensitive data
- [ ] Set up metric extraction where needed
- [ ] Configured bucket routing



### Validation Phase


- [ ] Tested pipelines with sample data
- [ ] Verified parsing produces expected fields
- [ ] Confirmed masking works correctly
- [ ] Validated metrics are being extracted
- [ ] Checked data appears in correct buckets


---


## OpenPipeline Limits & Constraints

Before migrating, understand these key limits:

### Data Size Limits


| Limit | Value | What Happens if Exceeded |
|-------|-------|--------------------------|
|       |       |                          |


```

| |
|--|
| ----- ----- ----- |
| **Max record size (after processing)** 16 MB Record is **dropped** |
| **Working memory per record** 16 MB Processing fails, record dropped |
| **Log attribute size** 32 KB Attribute is **truncated** |
| **Max field name length** 255 characters Field creation fails |
| **Max string field length** 4 KB Content truncated |

Processing Limits

| |
|--|
| ----- ----- ----- |
| Limit Value Impact |
| ----- ----- ----- |
| **Max extractions per record** 5 pipelines Record processed by max 5 pipelines |
| **Max processors per pipeline** 50 processors Cannot add more processors |
| **Max DQL commands per processor** 10 commands Split into multiple processors |
| **Max parse operations per processor** 100 patterns Create multiple parse processors |
| **Processing timeout** 30 seconds Record dropped if processing exceeds |
| |

Timestamp Constraints

| |
|---|
| ----- ----- ----- |
| Data Type Timestamp Range Records Outside Range |
| ----- ----- ----- |
| **Logs** 24 hours past to 10 min future **Dropped** |
| **Spans** 2 hours past **Dropped** |
| **Events** 24 hours past to 10 min future **Dropped** |

> **⚠ Important:** Always send data with recent timestamps. Historical data imports require special considerations.

Routing & Pipeline Limits

| |
|--|
| ----- ----- ----- |
| Limit Value Notes |
| ----- ----- ----- |
| **Max custom pipelines** 100 pipelines Per environment |
| **Max dynamic routes** 100 routes Per configuration scope |
| **Max conditions per route** 10 conditions Use AND/OR to combine |

Field Restrictions

****Read-Only Fields**** (Cannot be modified in pipelines):

- `dt.ingest.*` – Ingestion metadata
- `dt.openpipeline.*` – Pipeline processing metadata
- `dt.retain.*` – Retention information
- `dt.system.*` – System metadata (including bucket)

```
**Entity Fields** (Added **after** Processing stage):
- `dt.entity.service`
- `dt.entity.host`
- `dt.entity.process_group`
- `dt.entity.kubernetes_cluster`
```

>💡 **Design Tip:** Entity fields are NOT available during routing or processing. They're added automatically by Dynatrace before the Extraction stage.

Next Steps

Now that you understand OpenPipeline and have assessed your current state, continue with the migration series:

| Notebook | Focus Area |
|----------|--|
| OPMIG-02 | OpenPipeline Architecture & Key Concepts |
| OPMIG-03 | Migration Assessment & Planning |
| OPMIG-04 | Pipeline Configuration Fundamentals |
| OPMIG-05 | Routing & Bucket Management |
| OPMIG-06 | Processing, Parsing & Transformation |
| OPMIG-07 | Metric & Event Extraction |
| OPMIG-08 | Security, Masking & Compliance |
| OPMIG-09 | Troubleshooting & Validation |

References

- [OpenPipeline Documentation](https://docs.dynatrace.com/docs/discover-dynatrace/platform/openpipeline)
- [OpenPipeline Limits](https://docs.dynatrace.com/docs/discover-dynatrace/platform/openpipeline/reference/limits)
- [Processing Examples](https://docs.dynatrace.com/docs/discover-dynatrace/platform/openpipeline/use-cases/processing-examples)
- [Log Processing Tutorial](https://docs.dynatrace.com/docs/discover-dynatrace/platform/openpipeline/use-cases/tutorial-log-processing-pipeline)
- [Ingest API Reference](https://docs.dynatrace.com/docs/discover-dynatrace/platform/openpipeline/reference/api-ingestion-reference)

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