

## # OpenPipeline Migration Guide: Part 3









> **Series:** OPMIG | **Notebook:** 3 of 9 | **Created:** December 2025

### ## Migration Assessment & Planning

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#### ## Learning Objectives

By the end of this notebook, you will:

-  Discover and analyze your current data landscape
-  **Use Davis Copilot for intelligent discovery**
-  Assess parsing requirements and coverage
-  Identify cost optimization opportunities
-  Detect sensitive data requiring masking
-  **Prioritize sources using scoring matrix**
-  **Create data-driven migration waves**
-  Generate comprehensive source inventory

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#### ## Discovery: Current Data Landscape

Start by understanding what data you're currently ingesting and how it's being processed.

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#### ## Using Davis Copilot for Discovery

If you have access to the Dynatrace MCP Server, you can use Davis Copilot to assist with migration discovery.

##### ### Davis Copilot Capabilities

Tool	Purpose	Example Use Case
<b>chat_with_davis_copilot</b>	Ask any Dynatrace question	"What log sources exist in my environment?"
<b>generate_dql_from_natural_language</b>	Natural language → DQL	"Show me error logs from the last week"
<b>explain_dql_in_natural_language</b>	Explain complex queries	Understand existing queries

```
| **verify_dql** | Validate DQL syntax | Check queries before running |
| **execute_dql** | Run queries against tenant | Get real data |
```

### ### Example: Discovery with Davis Copilot

**\*\*Question to Davis:\*\***

...

"What are the top 10 log sources by volume in the last 7 days?"

...

**\*\*Davis generates DQL:\*\***

```dql

```
fetch logs, from: now() - 7d
| summarize {log_count = count()}, by: {log.source}
| sort log_count desc
| limit 10
```

...

**\*\*Question to Davis:\*\***

...

"Show me logs that might contain credit card numbers"

...

**\*\*Davis generates DQL:\*\***

```dql

```
// Security pattern detection – look for potential credit card or payment
data
fetch logs, from: now() - 1h
| filter contains(toString(content), "card") OR contains(toString(content),
"payment") OR contains(toString(content), "credit")
| summarize {count = count()}, by: {log.source}
| sort count desc
```

...

### ### Benefits of MCP-Assisted Discovery

| Benefit                      | Description                   |
|------------------------------|-------------------------------|
| <b>**Natural Language**</b>  | No need to know DQL syntax    |
| <b>**Real Data**</b>         | Execute against live tenant   |
| <b>**Syntax Validation**</b> | Catch errors before execution |
| <b>**Explanation**</b>       | Understand complex patterns   |
| <b>**Faster Discovery**</b>  | Iterate quickly on queries    |

> 💡 **\*\*Tip:\*\*** Use Davis Copilot iteratively. Ask initial questions, review results, then refine your questions based on what you discover.

### ### Discovery Workflow with MCP

```
```
```

1. ASK DAVIS

```
└─ "What log sources exist?"
```

2. DAVIS GENERATES DQL

```
└─ fetch logs | summarize...
```

3. VERIFY SYNTAX

```
└─ mcp verify_dql(query)
```

4. EXECUTE

```
└─ mcp execute_dql(query)
```

5. ANALYZE RESULTS

```
└─ Identify patterns, volumes
```

6. REFINE

```
└─ Ask follow-up questions
```

```
```
```

```
---
```

```
```python
```

```
// Overall data volume summary by data type
```

```
// Understand the scale of your migration
```

```
fetch logs, from: now() - 7d
```

```
| summarize {log_count = count()}
```

```
| fieldsAdd data_type = "logs", daily_avg = log_count / 7
```

```
```
```

```
```python
```

```
// Compare logs processed by OpenPipeline vs potentially classic
```

```
// Identifies migration progress
```

```
fetch logs, from: now() - 7d
```

```
| fieldsAdd processing_type = if(isNotNull(dt.openpipeline.source),  
"OpenPipeline", else: "Unknown/Classic")
```

```
| summarize {record_count = count()}, by: {processing_type}
```

```
| fieldsAdd daily_avg = record_count / 7
```

```
| sort record_count desc
```

```
```
```

```
```python
```

```
// Breakdown by OpenPipeline source type
```

```
// Shows which ingestion methods are being used
```

```
fetch logs, from: now() - 7d
```

```
| summarize {record_count = count()}, by: {dt.openpipeline.source}
```

```
| fieldsAdd daily_avg = round(record_count / 7, decimals: 0)
```

```
| sort record_count desc
```
```

```
```python
// Check span ingestion landscape (OpenPipeline handles spans too!)
fetch spans, from: now() - 7d
| summarize {span_count = count()}, by: {dt.openpipeline.source}
| fieldsAdd daily_avg = round(span_count / 7, decimals: 0)
| sort span_count desc
```
```

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## ## Volume Analysis

Understanding volume patterns helps you prioritize migration and plan for cost optimization.

```
```python
// Daily log volume trend
// Identify growth patterns and peak days
fetch logs, from: now() - 30d
| makeTimeseries {daily_count = count()}, interval: 1d
```
```

```
```python
// Hourly volume pattern (typical day)
// Understand when peak ingestion occurs
fetch logs, from: now() - 7d
| fieldsAdd hour_of_day = getHour(timestamp)
| summarize {avg_hourly = count() / 7}, by: {hour_of_day}
| sort hour_of_day asc
```
```

```
```python
// Volume by log source - TOP 25
// Identify highest volume sources for prioritization
fetch logs, from: now() - 7d
| summarize {record_count = count()}, by: {log.source}
| sort record_count desc
| limit 25
| fieldsAdd daily_avg = round(record_count / 7, decimals: 0)
```
```

```
```python
// Volume by host entity
// Identify which hosts generate the most logs
fetch logs, from: now() - 7d
```

```

| filter isNotNull(dt.entity.host)
| summarize {record_count = count()}, by: {dt.entity.host}
| sort record_count desc
| limit 20
| fieldsAdd daily_avg = round(record_count / 7, decimals: 0)
```

```python
// Volume by Kubernetes namespace (if applicable)
fetch logs, from: now() - 7d
| filter isNotNull(k8s.namespace.name)
| summarize {record_count = count()}, by: {k8s.namespace.name}
| sort record_count desc
| limit 20
| fieldsAdd daily_avg = round(record_count / 7, decimals: 0)
```

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## Source Inventory

Create a comprehensive inventory of log sources for migration planning.

```python
// Complete log source inventory with characteristics
fetch logs, from: now() - 7d
| summarize {
    total_records = count(),
    unique_hosts = countDistinct(dt.entity.host),
    has_loglevel = countIf(isNotNull(loglevel)),
    error_count = countIf(loglevel == "ERROR" OR status == "ERROR")
}, by: {log.source}
| fieldsAdd parsing_coverage = round((toDouble(has_loglevel) /
toDouble(total_records)) * 100, decimals: 1)
| fieldsAdd error_rate = round((toDouble(error_count) /
toDouble(total_records)) * 100, decimals: 2)
| sort total_records desc
| limit 30
```

```python
// Log sources by ingestion method
// Map sources to their OpenPipeline ingestion type
fetch logs, from: now() - 7d
| summarize {record_count = count()}, by: {log.source,
dt.openpipeline.source}
| sort record_count desc
| limit 50

```

```
'''
```

```
```python
```

```
// Log sources by current pipeline assignment
// Identify which sources already have custom pipelines
fetch logs, from: now() - 7d
| summarize {record_count = count()}, by: {log.source,
dt.openpipeline.pipelines}
| sort record_count desc
| limit 50
'''
```

```
```python
```

```
// Log sources by bucket
// Shows current storage distribution
fetch logs, from: now() - 7d
| summarize {record_count = count()}, by: {log.source, dt.system.bucket}
| sort record_count desc
| limit 50
'''
```

```
---
```

## ## Parsing Requirements Analysis

Identify which log sources need parsing pipelines to extract structured data.

```
```python
```

```
// Overall parsing coverage assessment
// What percentage of logs have structured log levels?
fetch logs, from: now() - 24h
| summarize {
    total = count(),
    with_loglevel = countIf(isNotNull(loglevel)),
    with_status = countIf(isNotNull(status)),
    either = countIf(isNotNull(loglevel) OR isNotNull(status))
}
| fieldsAdd loglevel_coverage = round((toDouble(with_loglevel) /
toDouble(total)) * 100, decimals: 1)
| fieldsAdd status_coverage = round((toDouble(with_status) / toDouble(total))
* 100, decimals: 1)
| fieldsAdd overall_coverage = round((toDouble(either) / toDouble(total)) *
100, decimals: 1)
'''
```

```
```python
```

```
// Sources with low parsing coverage (need custom parsing)
// These sources should be prioritized for parsing pipelines
```

```

fetch logs, from: now() - 7d
| summarize {
    total_records = count(),
    parsed = countIf(isNotNull(loglevel) OR isNotNull(status))
}, by: {log.source}
| filter total_records > 1000
| fieldsAdd parsing_pct = round((toDouble(parsed) / toDouble(total_records))
* 100, decimals: 1)
| filter parsing_pct < 50
| sort total_records desc
| limit 25
```

```

```

```python
// Sample unparsed log content for pattern analysis
// Review these to design parsing rules
fetch logs, from: now() - 1h
| filter isNull(loglevel) AND isNull(status)
| fields timestamp, log.source, content
| limit 50
```

```

```

```python
// Identify JSON logs that could benefit from JSON parsing
// JSON logs can be automatically parsed in OpenPipeline
fetch logs, from: now() - 1h
| filter startsWith(toString(content), "{")
| summarize {json_logs = count()}, by: {log.source}
| sort json_logs desc
| limit 20
```

```

```

```python
// Sample JSON logs for structure analysis
fetch logs, from: now() - 1h
| filter startsWith(toString(content), "{")
| fields timestamp, log.source, content
| limit 20
```

```

---

## ## Cost Optimization Opportunities

Identify logs that can be dropped or routed to shorter retention buckets to reduce costs.

```

```python

```

```
// Debug log volume – prime candidates for dropping
fetch logs, from: now() - 7d
| summarize {
    total = count(),
    debug_logs = countIf(loglevel == "DEBUG" OR status == "DEBUG"),
    trace_logs = countIf(loglevel == "TRACE" OR status == "TRACE")
}
| fieldsAdd debug_pct = round((toDouble(debug_logs) / toDouble(total)) * 100,
decimals: 2)
| fieldsAdd trace_pct = round((toDouble(trace_logs) / toDouble(total)) * 100,
decimals: 2)
| fieldsAdd droppable_pct = round((toDouble(debug_logs + trace_logs) /
toDouble(total)) * 100, decimals: 2)
```
```

```
```python
// Health check and metrics endpoint logs – often droppable
fetch logs, from: now() - 7d
| summarize {
    total = count(),
    health_checks = countIf(contains(toString(content), "health") OR
contains(toString(content), "healthz")),
    readiness = countIf(contains(toString(content), "ready") OR
contains(toString(content), "readiness")),
    liveness = countIf(contains(toString(content), "alive") OR
contains(toString(content), "liveness")),
    metrics = countIf(contains(toString(content), "/metrics") OR
contains(toString(content), "/prometheus"))
}
| fieldsAdd droppable = health_checks + readiness + liveness + metrics
| fieldsAdd savings_pct = round((toDouble(droppable) / toDouble(total)) *
100, decimals: 2)
```
```

```
```python
// Log level distribution by source
// Identify sources with high debug/trace output
fetch logs, from: now() - 7d
| filter isNotNull(loglevel)
| summarize {record_count = count()}, by: {log.source, loglevel}
| sort log.source asc, record_count desc
```
```

```
```python
// Highly repetitive log patterns (noise candidates)
// Find logs with same content appearing many times
fetch logs, from: now() - 1h
| summarize {occurrences = count()}, by: {content}
```



```

| filter occurrences > 100
| sort occurrences desc
| limit 25
...

```python
// Estimate potential cost savings from dropping debug/noise
fetch logs, from: now() - 7d
| summarize {
    total = count(),
    droppable_debug = countIf(loglevel == "DEBUG" OR status == "DEBUG" OR
loglevel == "TRACE"),
    droppable_health = countIf(contains(toString(content), "health") OR
contains(toString(content), "/metrics")),
    info_logs = countIf(loglevel == "INFO" OR status == "INFO")
}, by: {log.source}
| fieldsAdd potential_drops = droppable_debug + droppable_health
| fieldsAdd drop_pct = round((toDouble(potential_drops) / toDouble(total)) *
100, decimals: 1)
| filter potential_drops > 100
| sort potential_drops desc
| limit 25
...

```

## ## Migration Priority Scoring Matrix

Use this data-driven approach to prioritize which log sources to migrate first.

### ### Scoring Factors

Factor	Weight	High Score (5)	Low Score (1)
**Volume**	25%	>1M logs/day	<10K logs/day
**Cost Savings Potential**	25%	>50% droppable	<5% droppable
**Security Risk**	25%	Contains PII/PHI	No sensitive data
**Parsing Complexity**	10%	JSON/simple format	Complex multi-format
**Business Criticality**	15%	Production core services	Dev/test environments

### ### Calculating Priority Score

...

```

Priority Score =
  (Volume Score × 0.25) +
  (Cost Savings Score × 0.25) +
  (Security Risk Score × 0.25) +
  (Parsing Complexity Score × 0.10) +

```

(Business Criticality Score × 0.15)

Range: 1.0 (lowest) to 5.0 (highest)

...

### Priority Tiers

Score Range	Tier	Action
****4.0 – 5.0**	🔴 Critical	Wave 1 – Migrate immediately
****3.0 – 3.9**	🟡 High	Wave 2 – Migrate within 2 weeks
****2.0 – 2.9**	🟡 Medium	Wave 3 – Migrate within 1 month
****1.0 – 1.9**	🟢 Low	Wave 4 – Migrate when convenient

### Example: E-Commerce Logs

\*\*Source:\*\* `payment-service`

Factor	Score	Justification
Volume	5	2M logs/day
Cost Savings	4	60% debug logs droppable
Security Risk	5	Contains credit card numbers
Parsing	4	JSON format (easy)
Criticality	5	Core payment processing

\*\*Priority Score:\*\*

...

$$(5 \times 0.25) + (4 \times 0.25) + (5 \times 0.25) + (4 \times 0.10) + (5 \times 0.15) = 4.65$$

...

\*\*Result:\*\* 🔴 \*\*Wave 1 – Critical Priority\*\*

### Example: Development Logs

\*\*Source:\*\* `dev-test-service`

Factor	Score	Justification
Volume	2	50K logs/day
Cost Savings	3	30% debug logs
Security Risk	1	No sensitive data
Parsing	3	Moderate complexity
Criticality	1	Non-production

\*\*Priority Score:\*\*

...

$$(2 \times 0.25) + (3 \times 0.25) + (1 \times 0.25) + (3 \times 0.10) + (1 \times 0.15) = 1.95$$

■■■■■ ■■■■■ ■■■■■

Organize your migration into manageable waves based on priority scores.

[illegible]

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### ### Wave 1: Critical (Weeks 1-2)

#### \*\*Criteria:\*\*

- Priority score  $\geq 4.0$
- High security risk OR high business criticality
- Quick wins with significant impact

#### \*\*Typical Sources:\*\*

- Payment/financial transaction logs
- Authentication/authorization logs
- Production API gateways
- Customer-facing services

#### \*\*Migration Activities:\*\*

1. Configure masking for sensitive data
2. Set up high-retention buckets (90+ days)
3. Extract critical business metrics
4. Implement drop rules for noise
5. Validate thoroughly before cutover

### ### Wave 2: High Priority (Weeks 3-4)

#### \*\*Criteria:\*\*

- Priority score 3.0 – 3.9
- High volume sources
- Significant cost savings potential

#### \*\*Typical Sources:\*\*

- High-volume application logs
- Microservices with debug logs
- Infrastructure logs (K8s, cloud)
- Database audit logs

#### \*\*Migration Activities:\*\*

1. Implement tiered bucket strategy
2. Configure aggressive drop rules
3. Extract SLI/SLO metrics



#### 4. Parse for standard fields

##### ### Wave 3: Medium Priority (Weeks 5-6)

###### \*\*Criteria:\*\*

- Priority score 2.0 – 2.9
- Moderate volume
- Standard processing requirements

###### \*\*Typical Sources:\*\*

- Supporting microservices
- Batch processing logs
- Background workers
- Scheduled jobs

###### \*\*Migration Activities:\*\*

1. Use default bucket with standard retention
2. Basic parsing and enrichment
3. Standard drop rules

##### ### Wave 4: Low Priority (Weeks 7+)

###### \*\*Criteria:\*\*

- Priority score < 2.0
- Low volume or non-critical
- Development/test environments

###### \*\*Typical Sources:\*\*

- Development environment logs
- Test automation logs
- Experimental services
- Legacy systems (soon to be retired)

###### \*\*Migration Activities:\*\*

1. Short retention buckets (7 days)
2. Minimal processing
3. May consider NOT migrating if retiring soon

##### ### Wave Planning Template

Wave	Timeline	Sources	Expected Outcome
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**Wave 1**	Week 1-2	5-10 critical sources	Security compliance, audit logs
**Wave 2**	Week 3-4	10-20 high-volume sources	50%+ cost savings
**Wave 3**	Week 5-6	20-30 standard sources	Complete production migration
**Wave 4**	Week 7+	Remaining sources	100% migration complete

### ### Risk Mitigation Per Wave

Wave	Mitigation Strategy
**Wave 1**	Extra validation, staged rollout, 24/7 monitoring
**Wave 2**	Standard validation, rollout groups, business hours monitoring
**Wave 3**	Standard process, batch rollout
**Wave 4**	Minimal ceremony, quick rollout

---

```dql

// Generate priority scoring data for your log sources  
// Use this data to calculate priority scores manually

```
fetch logs, from: now() - 7d
| summarize {
    // VOLUME FACTOR
    total_records = count(),
    daily_avg = count() / 7,

    // COST SAVINGS FACTOR
    debug_count = countIf(loglevel == "DEBUG" OR status == "DEBUG"),
    trace_count = countIf(loglevel == "TRACE" OR status == "TRACE"),
    health_checks = countIf(contains(toString(content), "health") OR
contains(toString(content), "/ready")),

    // SECURITY FACTOR (indicators)
    potential_pii = countIf(
        contains(toString(content), "@") OR
        contains(toString(content), "card") OR
        contains(toString(content), "ssn") OR
        contains(toString(content), "password")
    ),

    // PARSING FACTOR
    parsed_records = countIf(isNotNull(loglevel)),

    // ERROR RATE (criticality indicator)
    error_count = countIf(loglevel == "ERROR" OR status == "ERROR"),

    unique_hosts = countDistinct(dt.entity.host)
}, by: {log.source}
| filter total_records > 1000 // Only sources with meaningful volume
| fieldsAdd droppable = debug_count + trace_count + health_checks
| fieldsAdd drop_pct = round((toDouble(droppable) / toDouble(total_records))
```



```

* 100, decimals: 1)
| fieldsAdd parsing_pct = round((toDouble(parsed_records) /
toDouble(total_records)) * 100, decimals: 1)
| fieldsAdd error_rate = round((toDouble(error_count) /
toDouble(total_records)) * 100, decimals: 2)
| fieldsAdd pii_pct = round((toDouble(potential_pii) /
toDouble(total_records)) * 100, decimals: 2)
| sort total_records desc
| limit 50
```

---

## Security & Compliance Assessment

Identify logs containing sensitive data that needs masking before storage.

```python
// Search for potential PII patterns
// CAUTION: Review results carefully for actual sensitive data
fetch logs, from: now() - 1h
| filter contains(toString(content), "email")
      OR contains(toString(content), "password")
      OR contains(toString(content), "credit")
      OR contains(toString(content), "ssn")
      OR contains(toString(content), "social security")
| summarize {potential_pii = count()}, by: {log.source}
| sort potential_pii desc
| limit 20
```

```python
// Look for email patterns in logs
fetch logs, from: now() - 1h
| filter contains(toString(content), "@")
| summarize {email_patterns = count()}, by: {log.source}
| sort email_patterns desc
| limit 20
```

```python
// Sample logs with potential sensitive data for review
// Review these to design masking rules
fetch logs, from: now() - 1h
| filter contains(toString(content), "email") OR contains(toString(content),
"password")
| fields timestamp, log.source, content
| limit 25

```

```
```
```

```
```python
```

```
// Look for IP addresses in logs (may need masking for GDPR)
fetch logs, from: now() - 1h
| filter contains(toString(content), ".")
| summarize {logs_with_dots = count()}, by: {log.source}
| sort logs_with_dots desc
| limit 20
```
```

```
```python
```

```
// Audit log sources - may need longer retention
fetch logs, from: now() - 7d
| filter contains(toString(log.source), "audit")
    OR contains(toString(content), "audit")
    OR contains(toString(content), "login")
    OR contains(toString(content), "authentication")
| summarize {audit_logs = count()}, by: {log.source}
| sort audit_logs desc
| limit 20
```
```

```
---
```

## ## Migration Priority Matrix

Based on your assessment, prioritize sources for migration using this framework:

### ### Priority Scoring Criteria

| Factor                 | Weight | High Score             | Low Score            |
|------------------------|--------|------------------------|----------------------|
| Volume                 | 30%    | >1M logs/day           | <10K logs/day        |
| Cost Savings Potential | 25%    | >30% droppable         | <5% droppable        |
| Security Risk          | 25%    | Contains PII           | No sensitive data    |
| Parsing Complexity     | 10%    | Simple JSON/structured | Complex multi-format |
| Business Criticality   | 10%    | Core business app      | Development/test     |

### ### Recommended Migration Waves

| Wave   | Priority   | Criteria                    | Examples                |
|--------|------------|-----------------------------|-------------------------|
| Wave 1 | 🔴 Critical | High volume + security risk | Payment logs, auth logs |
| Wave 2 | 🟡 High     | High volume + cost savings  | Debug-heavy apps,       |

```
health checks |
| **Wave 3** | 🟡 Medium | Medium volume, standard processing | Application logs |
| **Wave 4** | 🟢 Low | Low volume, minimal processing | Development, test environments |
```

```
```python
// Generate migration priority assessment by source
fetch logs, from: now() - 7d
| summarize {
    total_records = count(),
    debug_count = countIf(loglevel == "DEBUG" OR status == "DEBUG"),
    error_count = countIf(loglevel == "ERROR" OR status == "ERROR"),
    has_parsing = countIf(isNotNull(loglevel)),
    unique_hosts = countDistinct(dt.entity.host)
}, by: {log.source}
| filter total_records > 1000
| fieldsAdd daily_avg = round(total_records / 7, decimals: 0)
| fieldsAdd drop_opportunity = round((toDouble(debug_count) /
toDouble(total_records)) * 100, decimals: 1)
| fieldsAdd parsing_coverage = round((toDouble(has_parsing) /
toDouble(total_records)) * 100, decimals: 1)
| fieldsAdd error_rate = round((toDouble(error_count) /
toDouble(total_records)) * 100, decimals: 2)
| sort total_records desc
| limit 30
```
```

---

## ## Planning Your Migration

### ### Migration Checklist

Use this checklist to track your migration planning:

#### #### Discovery Phase ✓

- [ ] Inventoried all log sources
- [ ] Documented volume by source
- [ ] Identified OpenPipeline sources vs classic
- [ ] Analyzed current bucket distribution

#### #### Assessment Phase ✓

- [ ] Identified parsing requirements
- [ ] Calculated cost savings opportunities
- [ ] Found sources with sensitive data
- [ ] Assigned migration priorities

#### #### Planning Phase

- [ ] Defined migration waves
- [ ] Designed pipeline structure
- [ ] Planned routing rules
- [ ] Documented parsing patterns (DPL)
- [ ] Defined masking requirements
- [ ] Planned bucket strategy

#### #### Pre-Migration Testing

- [ ] Tested parsing patterns in DPL Architect
- [ ] Validated masking rules
- [ ] Tested routing conditions
- [ ] Verified metric extraction

#### ### Pipeline Design Template

For each source being migrated, document:

| Aspect            | Details                         |
|-------------------|---------------------------------|
| Source Name       | (e.g., `nginx-access`)          |
| Volume            | (e.g., `500K/day`)              |
| Pipeline Name     | (e.g., `nginx-logs`)            |
| Routing Condition | (e.g., `log.source == "nginx"`) |
| Parsing Required? | Yes/No                          |
| Parse Pattern     | (DPL pattern)                   |
| Masking Required? | Yes/No                          |
| Masking Rules     | (fields to mask)                |
| Drop Rules        | (conditions to drop)            |
| Metric Extraction | (metrics to create)             |
| Target Bucket     | (bucket name)                   |
| Retention         | (days)                          |

---

#### ## Assessment Summary Export

Run these queries to create a summary you can export and share with your team.

```
```python
// Complete source inventory with all metrics
// Export this for migration planning documentation
fetch logs, from: now() - 7d
| summarize {
    total_records = count(),
    daily_avg = count() / 7,
    unique_hosts = countDistinct(dt.entity.host),
```

```

        debug_count = countIf(loglevel == "DEBUG" OR status == "DEBUG"),
        error_count = countIf(loglevel == "ERROR" OR status == "ERROR"),
        parsed_count = countIf(isNotNull(loglevel))
    }, by: {log.source, dt.openpipeline.source, dt.system.bucket}
| fieldsAdd parsing_pct = round((toDouble(parsed_count) /
toDouble(total_records)) * 100, decimals: 1)
| fieldsAdd drop_opportunity_pct = round((toDouble(debug_count) /
toDouble(total_records)) * 100, decimals: 1)
| fieldsAdd error_rate_pct = round((toDouble(error_count) /
toDouble(total_records)) * 100, decimals: 2)
| sort total_records desc
| limit 100
```

```

---

### ## Next Steps

With your assessment complete, continue with:

| Notebook     | Focus Area                           |
|--------------|--------------------------------------|
| **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       |

----

### ## References

- [OpenPipeline Configuration Tutorial](https://docs.dynatrace.com/docs/discover-dynatrace/platform/openpipeline/getting-started/tutorial-configure-processing)
- [Log Management Limits](https://docs.dynatrace.com/docs/analyze-explore-automate/logs/lma-limits)
- [Grail Buckets](https://docs.dynatrace.com/docs/platform/grail/data-model/buckets)

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