

Analyzing Machine Data with Datadog



Get started log management with Datadog

Datadog Log Management: Rapid Troubleshooting

Discover Datadog Log Management

Rapid troubleshooting

Full observability

Seamless integrations

Customizable processing

Visualization and alerting

Rapid troubleshooting and exploration

Quickly search, filter, and analyze your logs for troubleshooting and open-ended exploration of your data.

- Explore and analyze logs from all your services, applications, and platforms.
- Search and filter your logs on the fly using automatically generated facets.
- See log data in context with automated tagging and correlation.

Datadog Log Management: Full observability

Discover Datadog Log Management

Rapid troubleshooting

Full observability

Seamless integrations

Customizable processing

Visualization and alerting

Unifying the three pillars of observability

Smoothly navigate between logs, metrics, and request traces for a clear view of all your systems.

- Pivot from metric graphs directly to related logs from the same host or service.
- Jump from any log entry to a dashboard of metrics for the host.
- Put logs in a performance context by pivoting to APM for the service.

Datadog Log Management: Seamless Integration

Discover Datadog Log Management

Rapid troubleshooting

Full observability

Seamless integrations

Customizable processing

Visualization and alerting

Centralize log data from any source

Automatically collect, tag, and enrich logs with Datadog's built-in integrations.

- Send logs using your existing Datadog integrations with applications, services, and cloud providers.
- Automatically apply facets to your log data, such as availability zone, role, or HTTP status code.
- Use third-party log shippers such as Logstash, rsyslog, or FluentD.

Datadog Log Management: Customizable Processing

Discover Datadog Log Management

Rapid troubleshooting

Full observability

Seamless integrations

Customizable processing

Visualization and alerting

Build log-processing pipelines

Enrich and process logs from common technologies instantly — or build your own custom pipelines.

- Automatically process logs from integrated technologies.
- Clone and modify built-in pipelines to capture custom data fields or facets.
- Build new pipelines to extract and enrich data from any log format.

Datadog Log Management: Visualization and Alerting

Discover Datadog Log Management

Rapid troubleshooting

Full observability

Seamless integrations

Customizable processing

Visualization and alerting

Follow connections between logs, metrics, and traces

Visualize log data on Datadog dashboards or build sophisticated alerts.

- Add streams of logs matching any query to your Datadog dashboards.
- Visualize aggregated or processed log data in customizable graphs.
- Build real-time alerts that trigger on any combination of indicators.

Sending Logs to Datadog

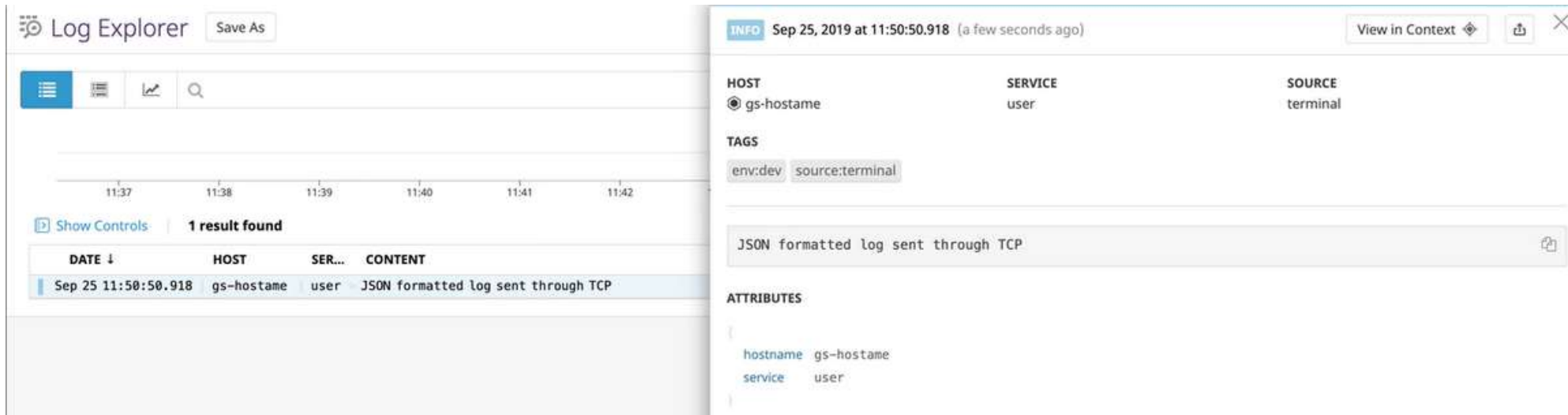
1. Sending logs manually
2. Send logs from a file

Sending Logs to Datadog: Sending logs manually

The secure TCP endpoint is `intake.logs.datadoghq.com`(or port 10514 for nonsecure connections).

```
telnet intake.logs.datadoghq.com 10514
<DATADOG_API_KEY> Plain text log sent through TCP
```

```
telnet intake.logs.datadoghq.com 10514
<DATADOG_API_KEY> {"message":"JSON formatted log sent through TCP", "ddtags":"env:dev", "ddsource":"terminal",
"hostname":"gs-hostame", "service":"user"}
```



The screenshot displays the Datadog Log Explorer interface. The main panel shows a search results table with one entry. The right-hand sidebar provides detailed information about the selected log entry, including its timestamp, host, service, source, tags, and attributes.

DATE ↓	HOST	SER...	CONTENT
Sep 25 11:50:50.918	gs-hostame	user	JSON formatted log sent through TCP

INFO Sep 25, 2019 at 11:50:50.918 (a few seconds ago)

HOST	SERVICE	SOURCE
gs-hostame	user	terminal

TAGS

env:dev source:terminal

JSON formatted log sent through TCP

ATTRIBUTES

```
{
  hostname gs-hostame
  service user
}
```

The TCP endpoint is not supported for this site -
us5.datadoghq.com.

```
curl -X POST "https://http-intake.logs.us5.datadoghq.com/api/v2/logs" \  
-H "Content-Type: application/json" \  
-H "DD-API-KEY: 061585f627bb034f27fc61cec6a35f3b" \  
-d @- << EOF  
[  
  {  
    "ddsource": "nginx",  
    "ddtags": "env:staging,version:5.1",  
    "hostname": "i-012345678",  
    "message": "2019-11-19T14:37:58,995 INFO [process.name][20081] Hello World",  
    "service": "payment"  
  }  
]  
EOF
```

Sending Logs to Datadog: Send logs from a file

- Install the Datadog Agent

- Verify Datadog Agent Status and Look for "Logs Agent" which is not running.

```
$ sudo datadog-agent status
```

- Enable log collection

To enable log collection with the Agent, edit the datadog.yaml configuration file located at `/etc/datadog-agent/datadog.yaml` and set `logs_enabled:true`

- Monitor a custom file

```
$ touch log_file_to_monitor.log
```

```
$ echo "First line of log" >> log_file_to_monitor.log
```

```
$ sudo mkdir /etc/datadog-agent/conf.d/custom_log_collection.d/
```

```
$ sudo touch /etc/datadog-agent/conf.d/custom_log_collection.d/conf.yaml
```

logs:

- type: file

 - path: `/home/ubuntu/log_file_to_monitor.log`

 - source: custom

 - service: user

```
$ sudo service datadog-agent restart
```

- Validation. Verify `Dsudo datadog-agent status`

atadog Agent Status and Look for "Logs Agent" which is running.

```
$
```

- Add new logs to the file

```
$ echo "New line of log in the log file" >> log_file_to_monitor.log
```

Explore Log

Log Explorer: Discover the Log Explorer view, and how to add Facets and Measures.

Search: Search through all of your logs.

Live Tail: See your ingested logs in real time across all your environments.

Analytics: Perform Log Analytics over your indexed logs.

Patterns: Spot Log Patterns by clustering your indexed logs together.

Saved Views: Use Saved Views to automatically configure your Log Explorer.

Log Explorer

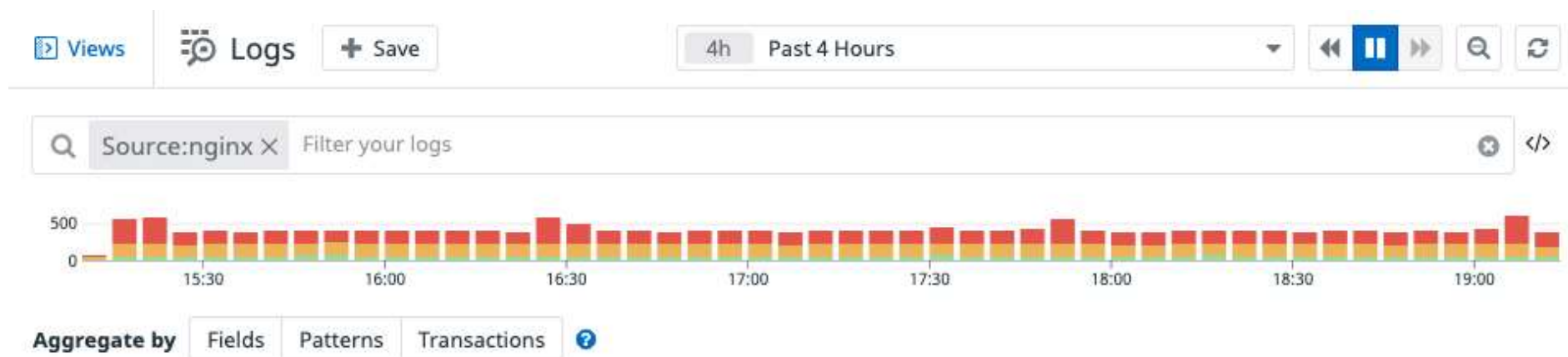
Log Explore: Filters Log

The search filter consists of a timerange and a search query mixing key:value and full-text search. For example, the search query `service:payment status:error rejected` over a Past 5 minutes timerange:



Log Explore: Aggregate and Measure

Aggregate queried logs into higher-level entities in order to derive or consolidate information. Logs can be valuable as individual events, but sometimes valuable information lives in a subset of events. In order to expose this information, aggregate your logs. Aggregations are supported for indexed logs only



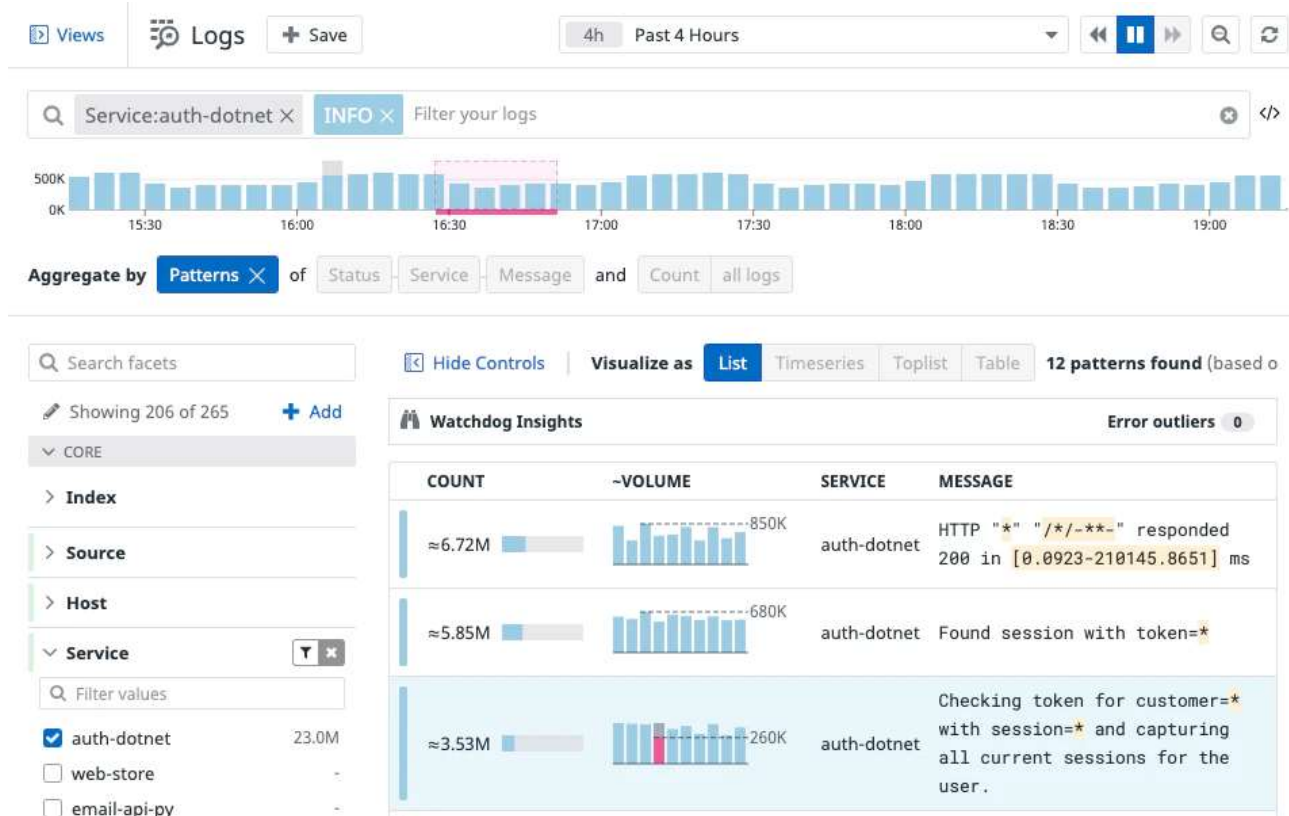
Log Explore: Aggregate -> Fields

With fields aggregation, all logs matching the query filter are aggregated into groups based on the value of one or multiple log facets. On top of these aggregates, you can extract the following measures:

- count of logs per group
- unique count of coded values for a facet per group
- statistical operations (min, max, avg, and percentiles) on numerical values of a facet per group

Log Explore: Aggregate -> Patterns

With pattern aggregation, logs that have a message with similar structures, belong to the same service and have the same status are grouped altogether. The patterns view is helpful for detecting and filtering noisy error patterns that could cause you to miss other issues:



Log Explore: Aggregate -> Transactions

Transactions aggregate indexed logs according to instances of a sequence of events, such as a user session or a request processed across multiple micro-services. For example, an e-commerce website groups log events across various user actions, such as catalog search, add to cart, and checkout, to build a transaction view using a common attribute such as requestId or orderId.

The screenshot displays the Log Explore interface. At the top, there are tabs for 'Views' and 'Logs', a 'Save' button, and a time range selector set to '1m Feb 18, 3:14 pm - Feb 18, 3:15 pm'. A search bar contains the filter 'ERROR'. Below the search bar is a red bar chart representing log frequency over time. The 'Aggregate by' section shows 'Transactions' selected, with filters for 'Cart Id', 'Count all logs', 'Max cart_value', and 'Most frequent merch_detail.merchant_name'. On the left, a 'Search facets' sidebar shows 'CORE' expanded to 'Index', 'Source', and 'Host'. The main area shows '1,793 transactions found (based on 11,641 matching events)'. A 'Watchdog Insights' section highlights 'Error outliers 4'. A table lists transactions with columns for CART ID, TIMELINE, DURATION, MAX SEVERITY, COUNT, MAX:CART_VALUE, and MOST_FREQUENT:MERCH...

CART ID	TIMELINE	DURATION	MAX SEVERITY	COUNT	MAX:CART_VALUE	MOST_FREQUENT:MERCH...
602e7539bad5d7000fa6...		1649ms	ERROR	9	99.0	Debra's Dinning Rooms
602e75afd5ec0b0019d3...		6.05s	ERROR	10	67.0	Brian's Benches

Log Explore: Aggregate -> Visualize

Lists - The columns displayed in list of aggregates are columns derived from the aggregation.

Timeseries - Visualize the evolution of a single measure (or a facet unique count of values) over a selected time frame, and (optionally) split by an available facet.

Toplists - Visualize the top values from a facet according to the chosen measure.

Nested tables - Visualize the top values from a facet according to a chosen measure (the first measure you choose in the list), and display the value of additional measures for elements appearing in this table.

Export - At any moment, and depending on your current aggregation, export your exploration as a: Saved View, Dashboard widget, Monitor, Metric, CSV & Share

Search Log

Search Syntax

A query filter is composed of terms and operators.

There are two types of terms:

- A single term is a single word such as test or hello.
- A sequence is a group of words surrounded by double quotes, such as "hello dolly".

To combine multiple terms into a complex query, you can use any of the following Boolean operators:

Operator	Description	Example
AND	Intersection: both terms are in the selected events (if nothing is added, AND is taken by default)	authentication AND failure
OR	Union: either term is contained in the selected events	authentication OR password
-	Exclusion: the following term is NOT in the event	authentication AND -password

Search Syntax: AND OR

To combine multiple terms into a complex query, you can use any of the following Boolean operators:

Operator	Description	Example
AND	Intersection: both terms are in the selected events (if nothing is added, AND is taken by default)	authentication AND failure
OR	Union: either term is contained in the selected events	authentication OR password
-	Exclusion: the following term is NOT in the event	authentication AND - password

Search Syntax: Autocomplete

source:

source:nginx - Add member

source:mongodb - Add member

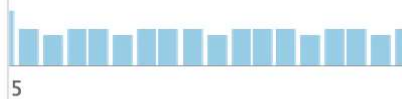
source:agent - Add member

source:training - Add member

[? Help with advanced search](#)



Save



Search Syntax: Escaping of special characters

The following characters are considered special: + - = && || > < ! () { } [] ^ " " " ~ * ? : \, and / require escaping with the \ character.

Note: These characters can be escaped, but are not searchable in logs search. To search for special characters, parse them into an attribute with the grok parser, and then search for logs that contain the attribute.

Search Syntax: Attributes search

Message attribute search

To search for logs that contain user=JaneDoe in the message attribute use the following search:

```
user\=JaneDoe
```

Facets search

To search on a specific attribute, first add it as a facet and then add @ to specify you are searching on a facet. For instance, if your facet name is url and you want to filter on the url value www.datadoghq.com, enter:

```
@url:www.datadoghq.com
```

Search Syntax: Attributes search

SEARCH QUERY	DESCRIPTION
<code>@http.url_details.path:"/api/v1/test"</code>	Searches all logs matching <code>/api/v1/test</code> in the attribute <code>http.url_details.path</code> .
<code>@http.url:\/api\/v1\/*</code>	Searches all logs containing a value in <code>http.url</code> attribute that start with <code>/api/v1/</code>
<code>@http.status_code:[200 TO 299]</code> <code>@http.url_details.path:\/api\/v1\/*</code>	Searches all logs containing a <code>http.status_code</code> value between 200 and 299, and containing a value in <code>http.url_details.path</code> attribute that start with <code>/api/v1/</code>

Search Syntax: Wildcards

To perform a multi-character wildcard search, use the `*` symbol as follows:

- `service:web*` matches every log message that has a service starting with `web`.
- `web*` matches all log messages starting with `web`
- `*web` matches all log messages that end with `web`

Search Syntax: Wildcards

To perform a multi-character wildcard search, use the `*` symbol as follows:

- `service:web*` matches every log message that has a service starting with `web`.
- `web*` matches all log messages starting with `web`
- `*web` matches all log messages that end with `web`

Search Syntax: Numerical values

Use `<`, `>`, `<=`, or `>=` to perform a search on numerical attributes. For instance, retrieve all logs that have a response time over 100ms with:

```
@http.response_time:>100
```

You can search for numerical attribute within a specific range. For instance, retrieve all your 4xx errors with:

```
@http.status_code:[400 TO 499]
```

Search Syntax: Tags

Your logs inherit tags from hosts and integrations that generate them. They can be used in the search and as facets as well:

- `test` is searching for the string "test".
- `env:(prod OR test)` matches all logs with the tag `env:prod` or the tag `env:test`.
- `(env:prod AND -version:beta)` matches all logs that contain tag `env:prod` and that do not contain tag `version:beta`.

If your tags don't follow tags best practices and don't use the `key:value` syntax, use this search query:

- `tags:<MY_TAG>`

Forwarding / Flushing Metrics to Datadog Cloud from restricted outbound traffic

- Using a web proxy, such as Squid or Microsoft Web Proxy, that is already deployed to your network
- Using HAProxy (if you want to proxy more than 16-20 Agents through the same proxy)
- Using the Agent as a proxy (for up to 16 Agents per proxy, only on Agent v5)
- Using Prometheus Pushgateway - Refer - <https://openapm.io/landscape/collector/prometheus-push-gateway>

Pipelines

What is Pipelines?

Datadog automatically parses JSON-formatted logs.

When logs are not JSON-formatted, you can add value to your raw logs by sending them through a **processing pipeline**.

What is Pipelines?

Pipelines take logs from a wide **variety of formats** and translate them into a **common format** in Datadog.

Implementing a log pipelines and processing strategy is beneficial as it introduces an **attribute naming convention** for your organization.

What is Pipelines?

With pipelines, logs are parsed and enriched by chaining them sequentially **through processors**. This extracts meaningful information or attributes from semi-structured text to reuse as facets.

Each log that comes through the pipelines is tested against every **pipeline filter**. If it matches a filter, then all the processors are applied sequentially before moving to the next pipeline.

Processors

<input checked="" type="checkbox"/>	Grok Parser	5
<input checked="" type="checkbox"/>	Date Remapper	5
<input checked="" type="checkbox"/>	Status Remapper	5
<input checked="" type="checkbox"/>	Remapper	4
<input checked="" type="checkbox"/>	Service Remapper	2
<input checked="" type="checkbox"/>	Arithmetic Processor	2
<input checked="" type="checkbox"/>	Trace Id Remapper	2
<input checked="" type="checkbox"/>	User-Agent Parser	1

<input checked="" type="checkbox"/>	Url Parser	1
<input checked="" type="checkbox"/>	Message Remapper	1
<input checked="" type="checkbox"/>	Category Processor	1
<input checked="" type="checkbox"/>	No processors or n...	-
<input checked="" type="checkbox"/>	Nested pipeline	-
<input checked="" type="checkbox"/>	GeoIP Parser	-
<input checked="" type="checkbox"/>	Threat Intel Proces...	-
<input checked="" type="checkbox"/>	Severity Remapper	-
<input checked="" type="checkbox"/>	String Builder Proc...	-

Processors

Grok parser

Log date remapper

Log status remapper

Service remapper

Log message remapper

Remapper

https://docs.datadoghq.com/logs/log_configuration/processors

URL parser

User-Agent parser

Category processor

Arithmetic processor

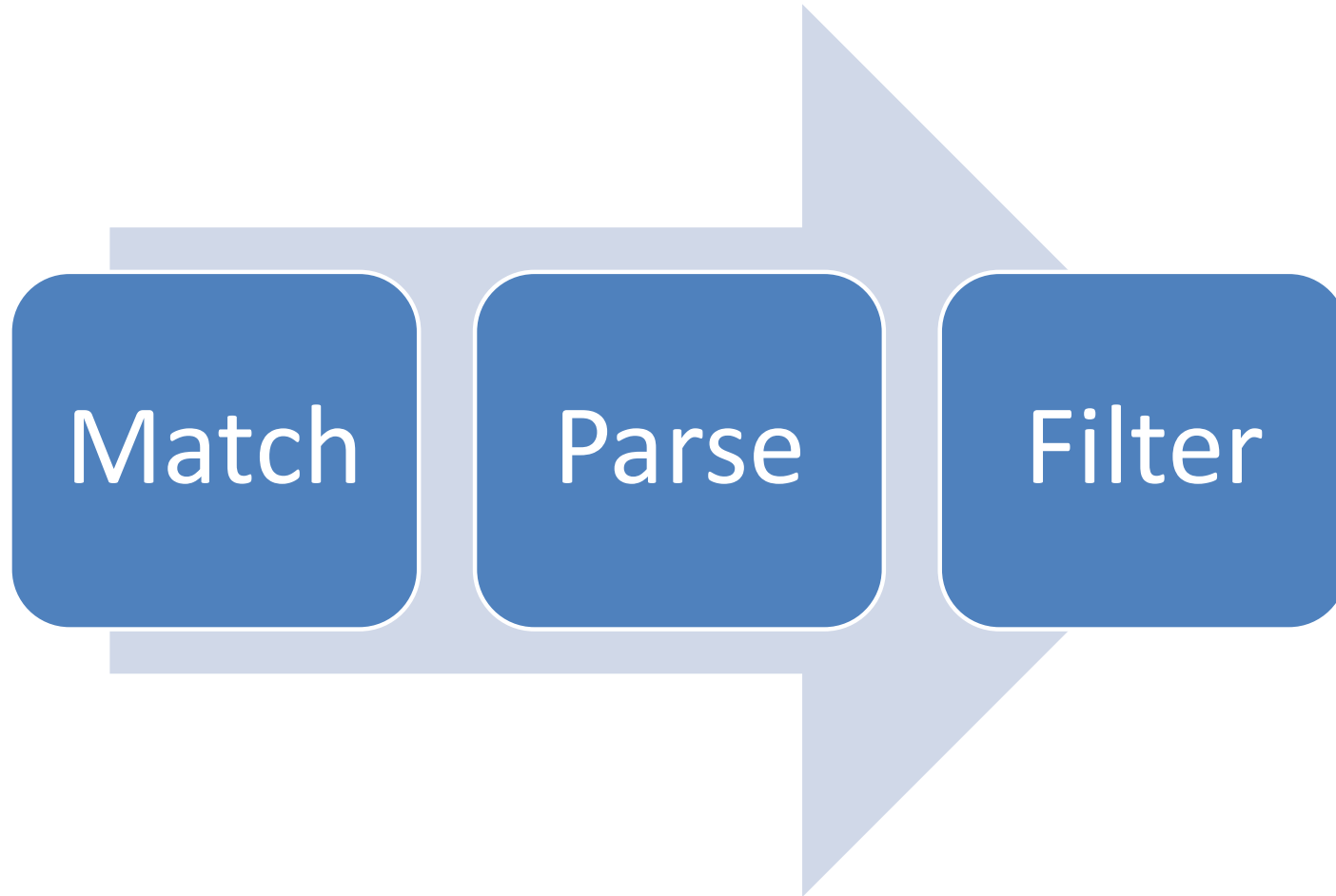
String builder processor

GeoIP parser

Lookup processor

Trace remapper

Pipelines Workflow



You can write parsing rules with the `%{MATCHER:EXTRACT:FILTER}` syntax:

- **Matcher**: A rule (possibly a reference to another token rule) that describes what to expect (number, word, notSpace, etc.).
- **Extract** (optional): An identifier representing the capture destination for the piece of text matched by the *Matcher*.
- **Filter** (optional): A post-processor of the match to transform it.

Step 1 – Know a Log Pattern

The screenshot shows the Datadog Logs interface. At the top, there's a navigation bar with 'Welcome, Rajesh!', 'Get Started', and 'You have 7 days left in your trial. Upgrade'. Below this, there are tabs for 'Views' and 'Logs', and a '+ Save' button. A time range selector is set to '4h Past 4 Hours'. A search bar contains 'filter your logs'. Below the search bar, there are filters for 'Group into Patterns', 'Show Count of all logs', and 'by Status and Service'. There are also visualization options: 'List', 'Timeseries', 'Top List', 'Table', 'Tree Map', and 'Pie Chart'. A bar chart shows log volume over time from 09:30 to 13:00. On the left, there's a 'Search facets' section with 'Showing 31 of 31' and a '+ Add' button. Under 'CORE', there are sections for 'Index', 'Source', 'Host', and 'Service'. The 'Service' section is expanded to show 'quake' with a count of 1.22k. In the main area, there's a 'Watchdog Insights' section with a table of log results. The table has columns for 'COUNT', '-VOLUME', 'STATUS', 'SERVICE', and 'MESSAGE'. The second row is circled in pink, showing a count of 42 for the 'info' status of the 'quake' service. The message text is also circled in pink.

4h Past 4 Hours

Search for filter your logs

Group into Patterns Show Count of all logs by Status and Service

Visualize as List Timeseries Top List Table Tree Map NEW Pie Chart NEW

1k
0k

09:30 10:00 10:30 11:00 11:30 12:00 12:30 13:00

Search facets

Hide Controls 409 patterns found (based on 1,217 logs) Export Options

Showing 31 of 31 + Add

CORE

> Index

> Source

> Host

> Service

quake 1.22k

Watchdog Insights

COUNT	-VOLUME	STATUS	SERVICE	MESSAGE
75	68	info	quake	Jun 24 HH:mm:ss datadog-vm-rajesh dhcpclient[692]: DHCPREQUEST on enp0s3 to XXX.XXX.XXX.XXX port 67 (xid=*)
42	41	info	quake	Jun 24 HH:mm:ss datadog-vm-rajesh agent: yyyy-MM-dd HH:mm:ss EDT CORE INFO (pkg/collector/worker/check_logger.go:38 in CheckStarted) check:* Running check...
	20			Jun 24 08:39:42 datadog-vm-rajesh containerd: time="yyyy-MM-

Step 2 – Understand a Pattern & Parsing Rule

The screenshot shows the Datadog interface with a pattern selected. The pattern is: `Jun 24 HH:mm:ss datadog-vm-rajesh agent: yyyy-MM-dd HH:mm:ss EDT | CORE | INFO | (pkg/collector/worker/check_logger.go:38 in CheckStarted) | check:* | Running check...`

The interface shows 409 patterns found, with 42 events out of 42 displayed. The 'Show Parsing Rule' button is circled in pink. The bar chart shows the count of events for each pattern, with 42 being the highest count, also circled in pink.

DATE	CONTENT
Jun 24 12:54:53.106	> Jun 24 03:24:52 datadog-vm-rajesh agent: 2022-06-24 03:24:52 EDT ...
Jun 24 12:41:06.501	> Jun 24 03:11:06 datadog-vm-rajesh agent: 2022-06-24 03:11:06 EDT ...
Jun 24 12:41:05.500	> Jun 24 03:11:05 datadog-vm-rajesh agent: 2022-06-24 03:11:05 EDT ...
Jun 24 12:41:04.499	> Jun 24 03:11:04 datadog-vm-rajesh agent: 2022-06-24 03:11:04 EDT ...
Jun 24 12:40:59.493	> Jun 24 03:10:59 datadog-vm-rajesh agent: 2022-06-24 03:10:59 EDT ...
Jun 24 12:40:58.492	> Jun 24 03:10:58 datadog-vm-rajesh agent: 2022-06-24 03:10:58 EDT ...
Jun 24 12:40:57.492	> Jun 24 03:10:57 datadog-vm-rajesh agent: 2022-06-24 03:10:57 EDT ...
Jun 24 12:40:56.491	> Jun 24 03:10:56 datadog-vm-rajesh agent: 2022-06-24 03:10:56 EDT ...
Jun 24 12:40:52.488	> Jun 24 03:10:52 datadog-vm-rajesh agent: 2022-06-24 03:10:52 EDT ...
Jun 24 12:40:51.488	> Jun 24 03:10:51 datadog-vm-rajesh agent: 2022-06-24 03:10:51 EDT ...
Jun 24 12:40:50.488	> Jun 24 03:10:50 datadog-vm-rajesh agent: 2022-06-24 03:10:50 EDT ...
Jun 24 12:40:49.487	> Jun 24 03:10:49 datadog-vm-rajesh agent: 2022-06-24 03:10:49 EDT ...
Jun 24 12:40:44.485	> Jun 24 03:10:44 datadog-vm-rajesh agent: 2022-06-24 03:10:44 EDT ...

Step 3 – Copy Parsing Rule & Pattern

The screenshot displays the Datadog logs interface. On the left, there are navigation and filtering options including a '+ Save' button, a search bar, and view options like 'Timeseries', 'Top List', 'Table', and 'Tree'. A time range is set from 10:00 to 10:30. Below this, there are 'Hide Controls' and 'Watchdog Insights' sections. The main area shows a 'PARSING RULE' and a 'PATTERN' for a log entry. The parsing rule is a regular expression designed to extract structured data from the log messages. The pattern shows a sample log entry with the extracted fields highlighted in yellow. Below the pattern, there are 'Events Samples' and a table showing 42 events out of 42.

PARSING RULE

```
Jun\s+24\s+%\{date("HH:mm:ss"):date}\s+datadog-vm-rajesh\s+agent\:\s+%\{date("yyyy-MM-dd HH:mm:ss"):date_1}\s+EDT\s+\\|\s+CORE\s+\\|\s+%\{word:level}\s+\\|\s+%\{pkg%\{notSpace:http.url}\s+in\s+CheckStarted\}\s+\\|\s+check\:%\{notSpace:token_1}\s+%\{data\}
```

PATTERN

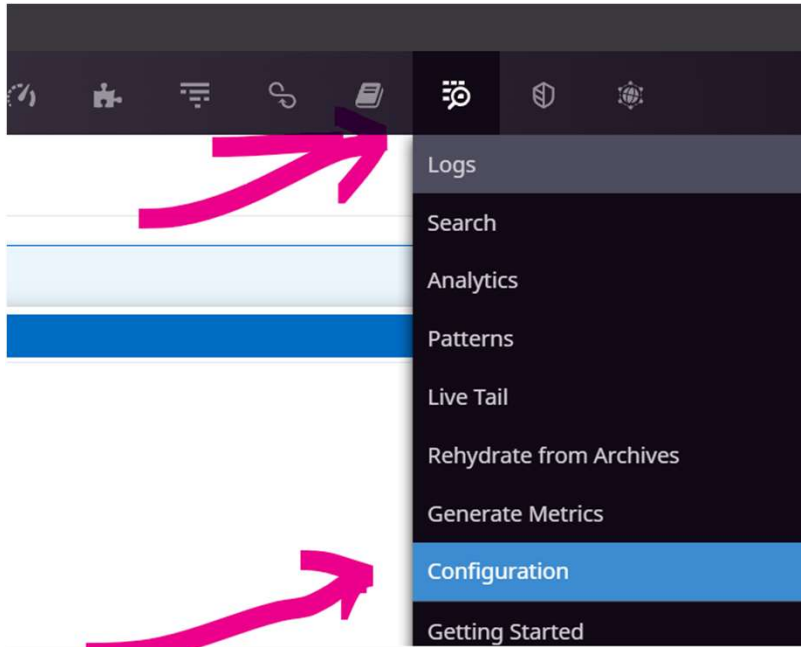
```
Jun 24 HH:mm:ss datadog-vm-rajesh agent: yyyy-MM-dd HH:mm:ss EDT | CORE | INFO | (pkg/collector/worker/check_logger.go:38 in CheckStarted) | check:* | Running check...
```

Events Samples

Showing 42 events out of 42

↓ DATE	CONTENT
Jun 24 12:54:53.106	> Jun 24 03:24:52 datadog-vm-rajesh agent: 2022-06-24 03:24:52 EDT ...
Jun 24 12:41:06.501	> Jun 24 03:11:06 datadog-vm-rajesh agent: 2022-06-24 03:11:06 EDT ...
Jun 24 12:41:05.500	> Jun 24 03:11:05 datadog-vm-rajesh agent: 2022-06-24 03:11:05 EDT ...
Jun 24 12:41:04.499	> Jun 24 03:11:04 datadog-vm-rajesh agent: 2022-06-24 03:11:04 EDT ...
Jun 24 12:40:59.493	> Jun 24 03:10:59 datadog-vm-rajesh agent: 2022-06-24 03:10:59 EDT ...
Jun 24 12:40:58.492	> Jun 24 03:10:58 datadog-vm-rajesh agent: 2022-06-24 03:10:58 EDT ...

Step 4 – Navigate to Pipeline



Welcome, Rajesh! Get Started

Pipelines Standard Attributes Indexes Archives Rehydrate From Archives

View docs

Filter pipelines

Hide Controls

Is pipeline enabled

- Enabled 6
- Disabled -

Pipeline Type

- Integration Pipeline 5
- Read-only Pipeline 5
- Custom Pipeline 1

Ingest API

Preprocessing for JSON logs

PIPELINES 6 active 0 disabled

PIPELINE NAME	FILTERS
> 1 python	source:python

Step 5 – Understand a Pattern & Parsing Rule

The screenshot shows the 'Create Pipeline' interface. The title 'Create Pipeline' is at the top left, with a pink arrow pointing to it. Below the title is a 'PREVIEW' section with a 'Live Tail' button and an 'Open in Log Explorer' link. The main area contains input fields for 'Filter', 'Name', 'Tags', and 'Description'. The 'Description' field has a rich text editor toolbar. On the right side, there is a sidebar with a 'New Pipeline' button, which has a purple arrow pointing to the 'Open in Log Explorer' link. The sidebar also contains a table with columns 'LAST EDITED' and 'BY', and a 'Browse Pipeline Library' button.

Create Pipeline

PREVIEW Live Tail [Open in Log Explorer](#)

Filter: </>


Name:

Tags:

Description: Edit Preview H B I S | [🔗](#) [”](#) [</>](#) [📄](#) | [☰](#) [☰](#) [☑](#) | [🖼](#) [🗪](#) [—](#)

Enter a description for the pipeline

LAST EDITED **BY**

Jun 24 2022  ☑ ☰

[Browse Pipeline Library](#) [New Pipeline](#)

Step 6 – Understand a Pattern & Parsing Rule

Edit Grok Parser: Parsing Postgresql logs [?](#)

- 1 Name the processor**
Parsing Postgresql logs
- 2 Log samples**
 - 2017-11-07 17:30:39 UTC LOG: incomplete startup packet MATCH [Need Help?](#)
 - 2017-11-07 17:37:22 UTC FATAL: role "myrole" does not exist MATCH
 - 2017-11-08 18:11:35.727 UTC [5237] postgres psql postgres [local] 5a0348cd.1475 LOG: statement: SELECT * FROM playground; MATCH
 - 2019-12-10 18:27:45.389 UTC [114] datadog_test datadog-agent datadog 172.28.0.1 5defc7c5.72 LOG: duration: 0.140 ms statement: select checkpoints_timed, checkpoints_req, buffers_checkpoint, buffers_clean, maxwritten_clean, buffers_backend, buffers_alloc, buffers_backend_fsync, checkpoint_write_time, checkpoint_sync_time FROM pg_stat_bgwriter MATCH

[+ Add](#)
- 3 Define parsing rules**

```
#Check documentation for the setup of the suggested format  
suggested_format with duration %{ prefix} %{ severity}:\s+duration:\s+%( duration)\s+ms\s+%(regex("statement:")\s+
```

[Cancel](#)

Step 8 – Results - Before

The screenshot shows the Datadog Logs interface. At the top, the user is logged in as 'Rajesh!'. The main search bar contains the filter 'Patterns' (circled in red). Below the search bar, there are options to 'Show Count of all logs by Status and Service'. A log message is displayed: 'Jun 24 03:10:52 datadog-vm-rajesh agent: 2022-06-24 03:10:52 EDT | CORE | INFO | (pkg/collector/worker/check_logger.go:38 in CheckStarted) | check:cpu | Running check...'. Below the log message, there is a table of results with columns 'COUNT', '~VOLUME', 'STATUS', and 'SERVICE'. A red circle highlights a 'Need Help?' button in the 'Event Attributes' section.

INFO Jun 24, 2022 at 12:40:52.488 (41 minutes ago) View in Context Expo

HOST datadog-vm-rajesh SERVICE quake SOURCE usearth

ALL TAGS datadog.index:main datadog.pipelines:false filename:messages service:quake source:usearth

Jun 24 03:10:52 datadog-vm-rajesh agent: 2022-06-24 03:10:52 EDT | CORE | INFO | (pkg/collector/worker/check_logger.go:38 in CheckStarted) | check:cpu | Running check...

Event Attributes Trace Metrics Processes

No attributes have been extracted from the log message. Set the source value to an integration name to benefit from aut setup or create a custom pipeline to process this log format.

Need Help?

COUNT	~VOLUME	STATUS	SERVICE
103	66	info	quake
43	42	info	quake
39	39	info	quake
36	21	info	quake

Step 9 – Results - After

The screenshot displays the Datadog Logs interface. At the top, the user is identified as 'Rajesh!'. The main search bar contains the query '@http.url:/collector/worker/check_logger.go:38', which is circled in pink. The search results are filtered by 'Status' (Info) and 'Service' (quake). The 'List' view is selected, showing a table of log entries. A specific log entry is highlighted, and its 'Event Attributes' are expanded, showing the following details:

- date: 1656041992000
- date_1: 1656041992000
- http: {
 - url: /collector/worker/check_logger.go:38
- level: INFO
- source: ntp

The interface also shows a sidebar with filters for 'Source', 'Host', 'Service', and 'Status'. The 'Service' filter is set to 'quake', and the 'Status' filter is set to 'Info'. A 'Watchdog Insights' panel is visible, showing a bar chart of log counts over time. A pink checkmark is placed next to the 'url' attribute in the expanded event attributes.