Become a

Sumo Search Master

Search Mastery Certification

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Course Agenda

5 min.	Introduction & objectives
15 min.	**Hands-on Labs:** Search, parse, and FERs
15 min.	Conditional & filtering operations
10 min.	Plotting on a map, formatting results, and moving averages
15 min.	Trends, outliers, and comparisons
15 min.	Metrics and creating an alert
60 min.	Get certified

Tutorial: Hands-on Exercises

Training Environment:

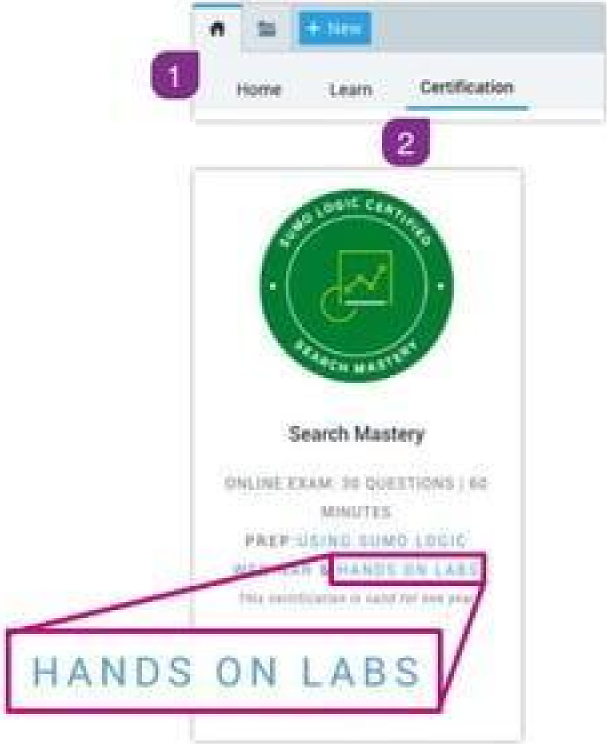
service.sumologic.com

username: training+labs@sumologic.com

password:

Level 2 Hands-on Labs:

- Follow along using the labs found under **Home > Certifications**



Search Mastery

ONLINE EXAM: 30 QUESTIONS | 60 MINUTES

PREP: USING SUMO LOGIC WEBINAR & HANDS ON LABS

This certification is valid for one year

Reviewing the Basics

Demo & Dataflow

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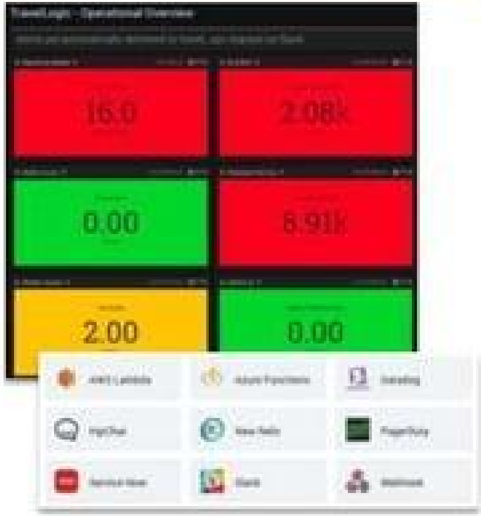
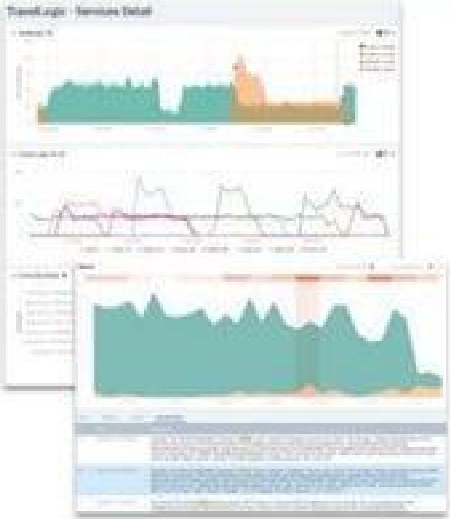
Demo: Monitor and Troubleshoot

ALERTS
notify of a critical event

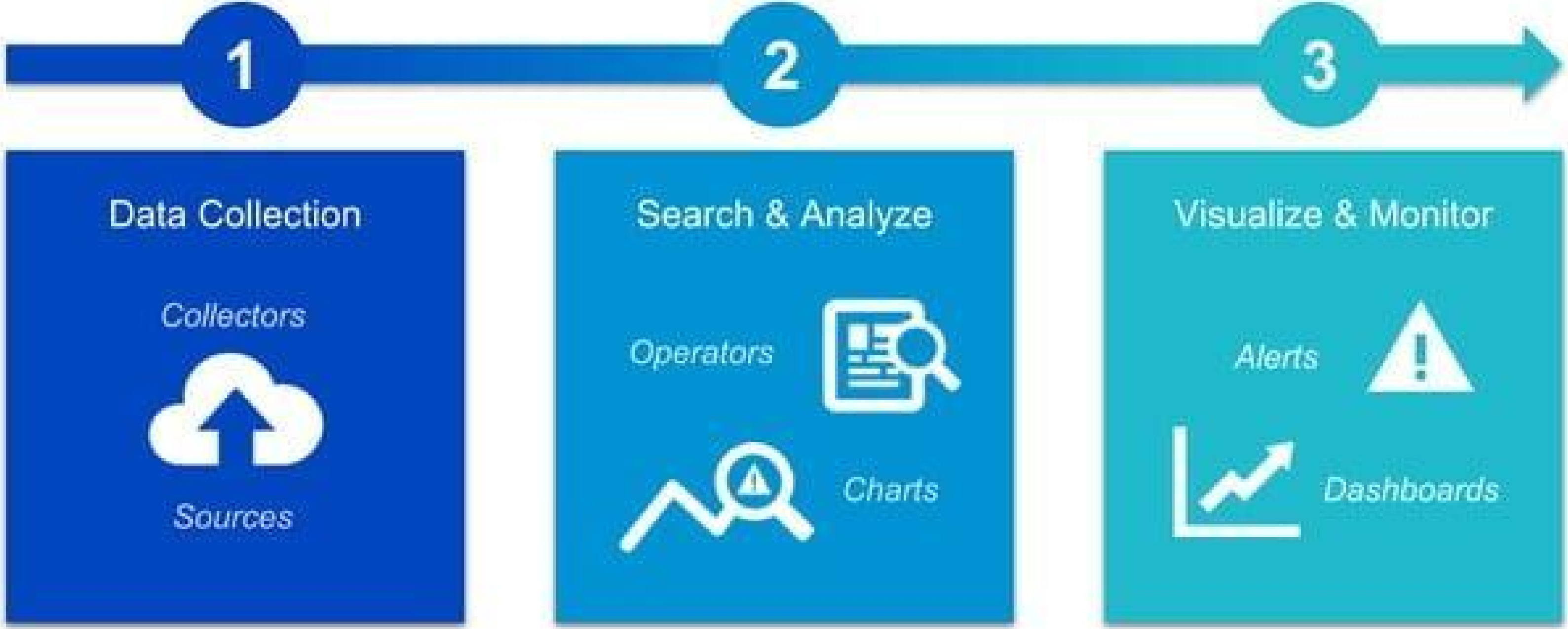


METRICS
to identify what's going on



LOGS
to identify why it's happening

Sumo Logic Data Flow



1

Data Collection

Collectors

Sources

2

Search & Analyze

Operators

Charts

3

Visualize & Monitor

Alerts

Dashboards

Search and Parse

Filter and Provide Structure

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Sending Data ⇨ Metadata

Metadata tags are associated with each log message that is collected.

Tag	Description
`_collector`	Name of the collector (defaults to hostname)
`_sourceHost`	Hostname of the server (defaults to hostname)
`_sourceName`	Name and Path of the log file
`_source`	Name of the source this data came through
`_sourceCategory`	**Can be freely configured. Main metadata tag**

Search and Parse

Search and **Filter** your data

Search and **Filter** your data

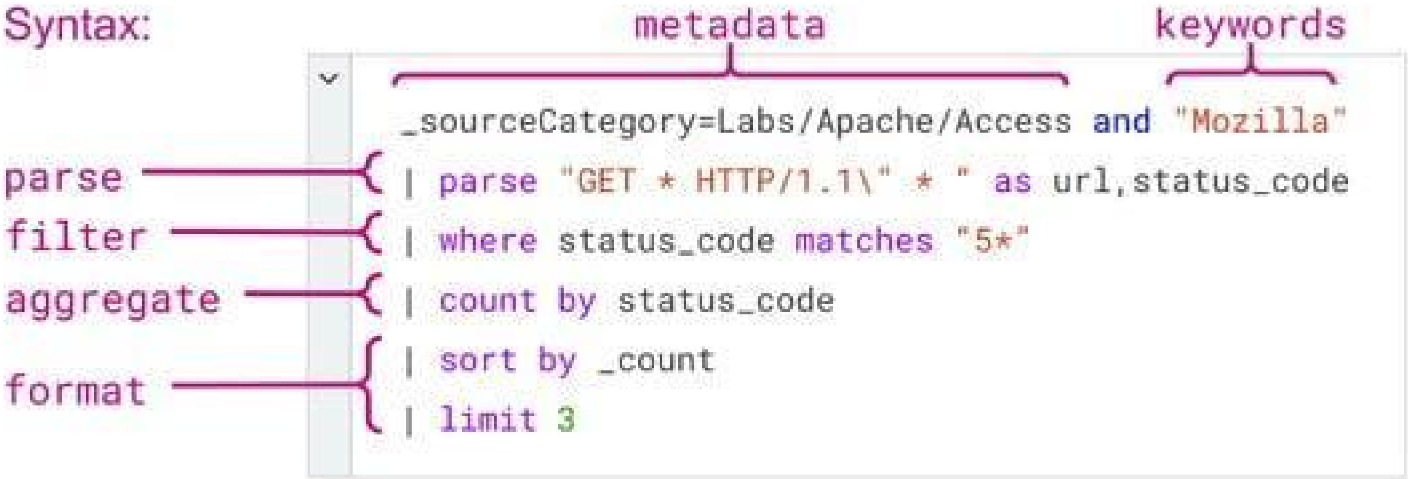
- _metadata
- Keywords
- Live Tail

Parse fields to provide structure to your data

- Query Parsing
- Implement your Field Extraction Rules

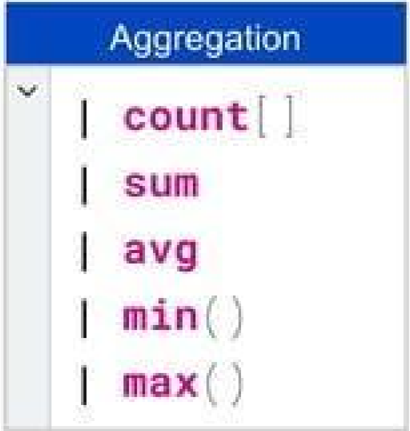
Data Analytics ⇨ Query Syntax

Keywords and operators, separated by pipes, that build on top of each other



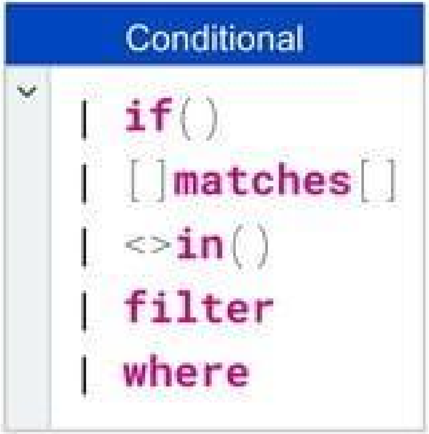
```
_sourceCategory=Labs/Apache/Access and "Mozilla"
| parse "GET * HTTP/1.1\" * " as url,status_code
| where status_code matches "5*"
| count by status_code
| sort by _count
| limit 3
```

Simple Analytics



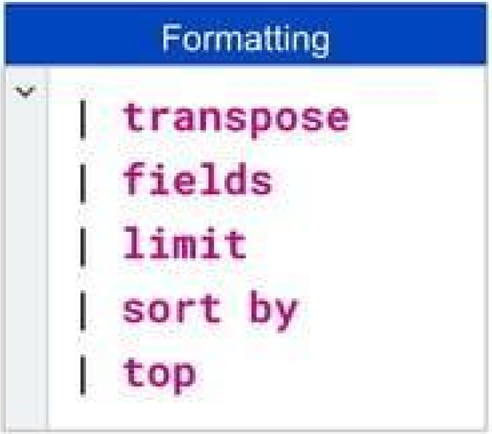
Aggregation

```
| count[]
| sum
| avg
| min()
| max()
```



Conditional

```
| if()
| []matches[]
| <>in()
| filter
| where
```



Formatting

```
| transpose
| fields
| limit
| sort by
| top
```

Level 2 Certification: Hands-on Labs

Using Sumo Logic

Labs 4-5: Conditional & Filtering Operations (5 ILT)

- Common operators: if, matches, in, filter, where

Lab 6: Plotting on a Map, Formatting Results

- Geo lookup, transpose

Lab 8: Changes and Moving Averages (ILT)

- Common operators: Diff, smooth

Advanced Analytics

Outliers, Trends, Needle in the Haystack

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Advanced Analytics

Outlier

```
_sourceCategory=Labs/Apache/Access and status_code=404
| timeslice 1m
| count(status_code) as error_count by _timeslice
| outlier error_count
```

Predict

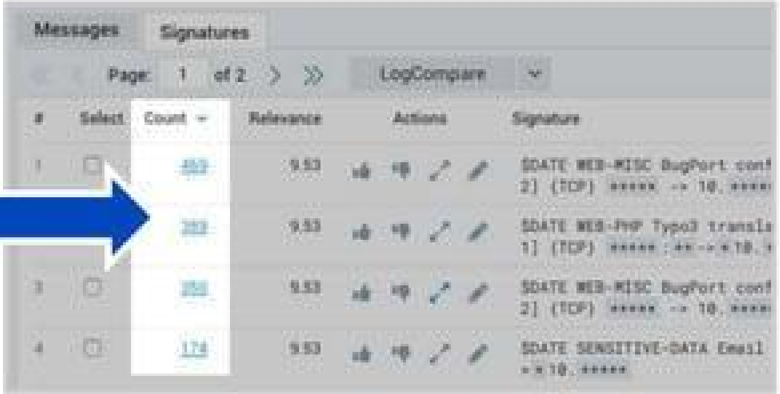
```
_sourceCategory=Labs/Apache/Access
| timeslice 5m
| count as requests by _timeslice
| predict requests by 5m forecast=12
```

Advanced Analytics

LogReduce

Find the "needle in the haystack" by identifying patterns.

```
_sourceCategory=Labs/snort
| logreduce
```

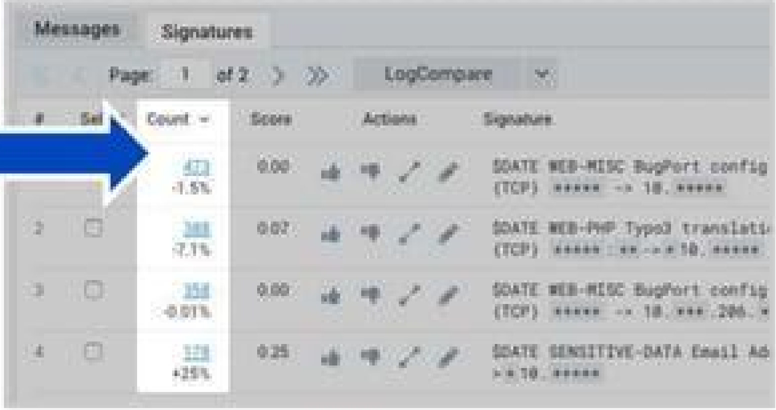


#	Select	Count	Relevance	Actions	Signature
1	☐	453	9.53		$DATE WEB-MISC BugPort conf 2] (TCP) ***** -> 10.****
		393	9.53		$DATE WEB-PHP Typo3 transla 1] (TCP) ***** :** -> *10.*
3	☐	350	9.53		$DATE WEB-MISC BugPort conf 2] (TCP) ***** -> 10.****
4	☐	174	9.53		$DATE SENSITIVE-DATA Email -> *10.*****

LogCompare

Compare today's patterns with patterns in the past.

```
_sourceCategory=Labs/snort
| logcompare -24h
```



#	Sel	Count	Score	Actions	Signature
		473 -1.5%	0.00		$DATE WEB-MISC BugPort config (TCP) ***** -> 10.*****
2	☐	388 -7.1%	0.02		$DATE WEB-PHP Typo3 translati (TCP) ***** :** -> *10.*****
3	☐	358 -0.01%	0.00		$DATE WEB-MISC BugPort config (TCP) ***** -> 10.***.206.*
4	☐	175 +25%	0.25		$DATE SENSITIVE-DATA Email Ad -> *10.*****

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Using Sumo Logic

Labs 9-12: Advanced Analytics (Lab 12 ILT)

- Finding the needle in the haystack
- Comparing time periods
- Identifying Outliers
- Identifying Future trends
- Analyzing related logs

Analyzing your Metrics

Sources, Dashboards and Alerts

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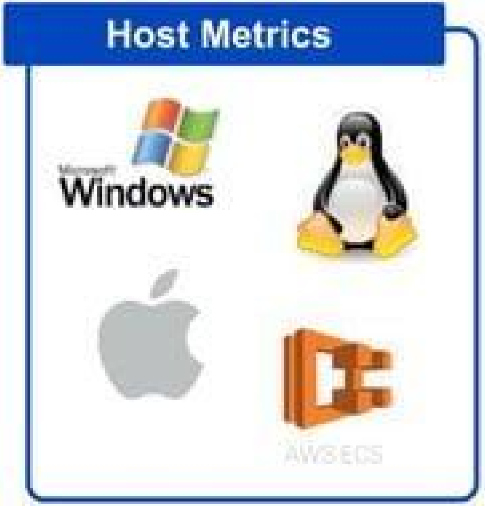
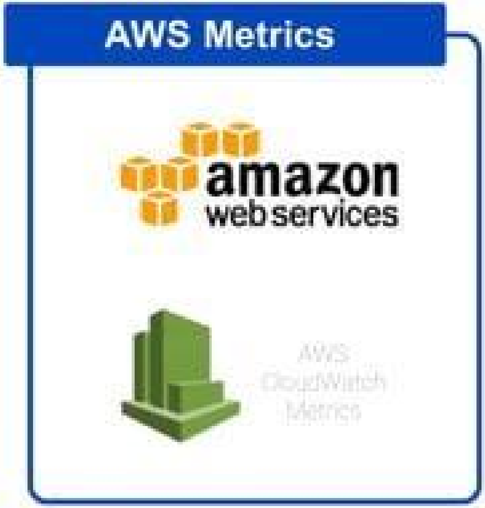
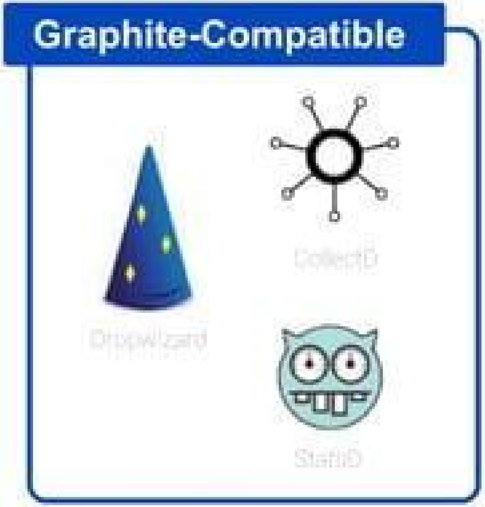
Ingesting Metrics



✓ **Learn More:**
Setting up Host Metrics

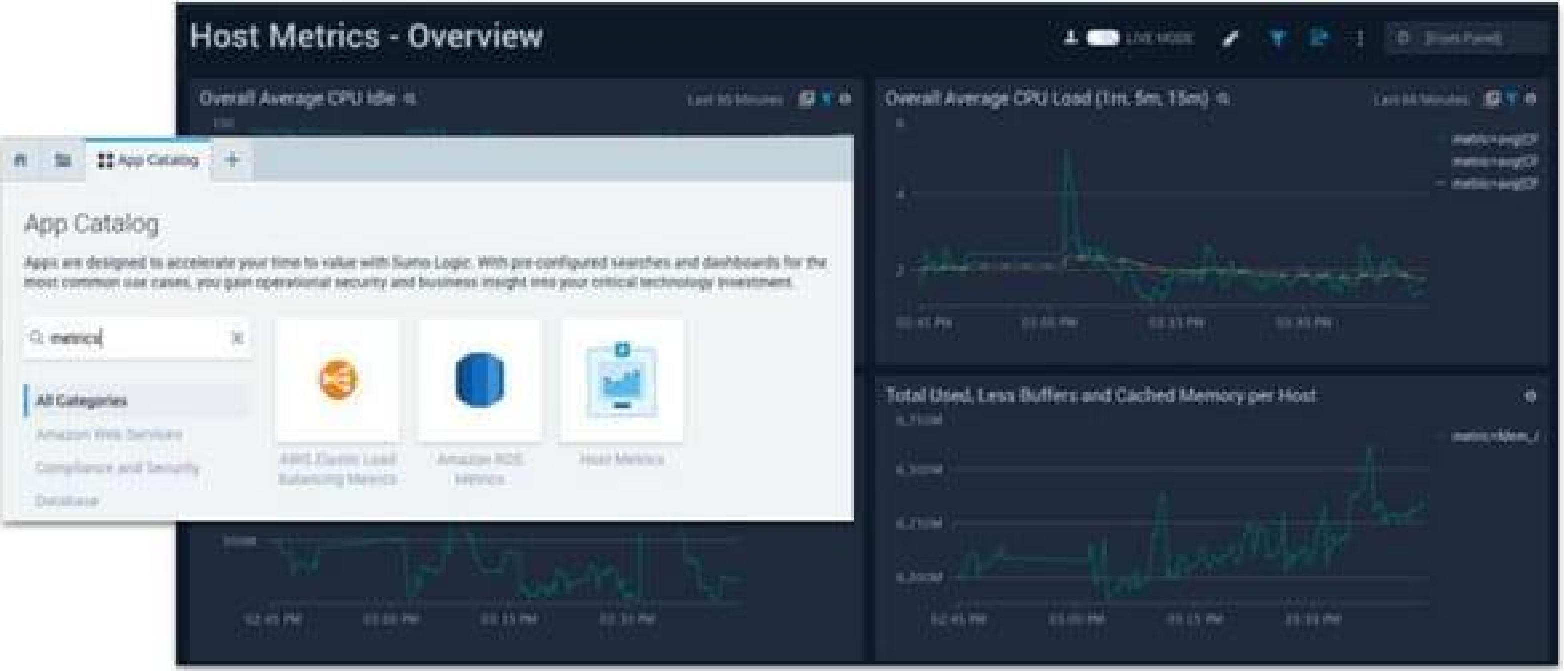


✓ **Learn More:**
Setting up AWS Metrics



✓ **Learn More:**
Setting up Graphite Metrics

Metrics Apps: Out-of-the-Box Content



App Catalog

Apps are designed to accelerate your time to value with Sumo Logic. With pre-configured searches and dashboards for the most common use cases, you gain operational security and business insight into your critical technology investment.

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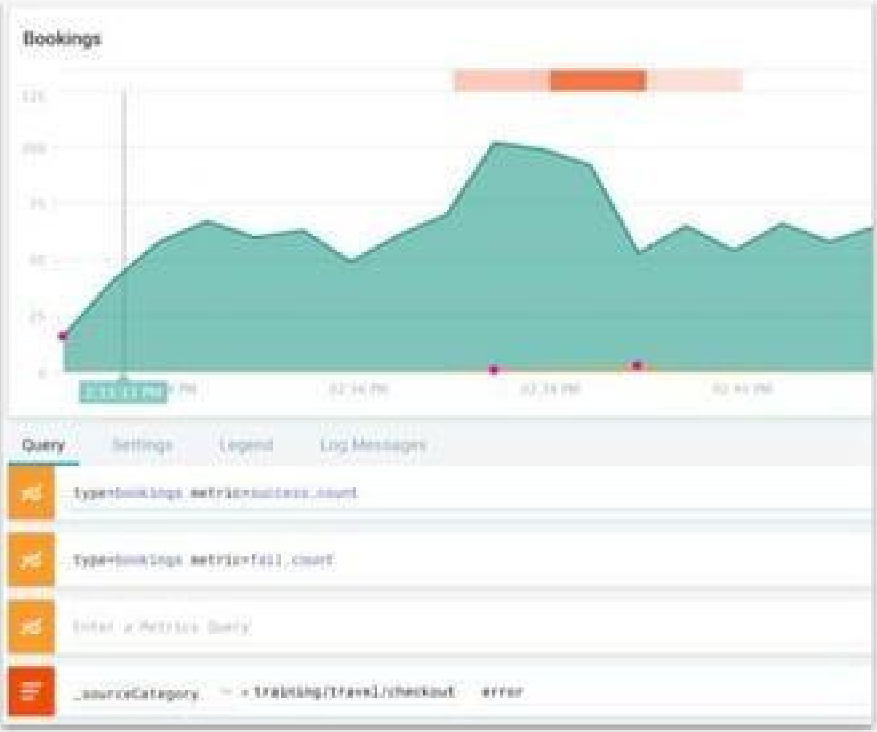
Logs and Metrics - Overlay

Overlay helps you correlate metrics to the relevant logs.

- Metrics identify the **what**.
- Logs help identify **why**.

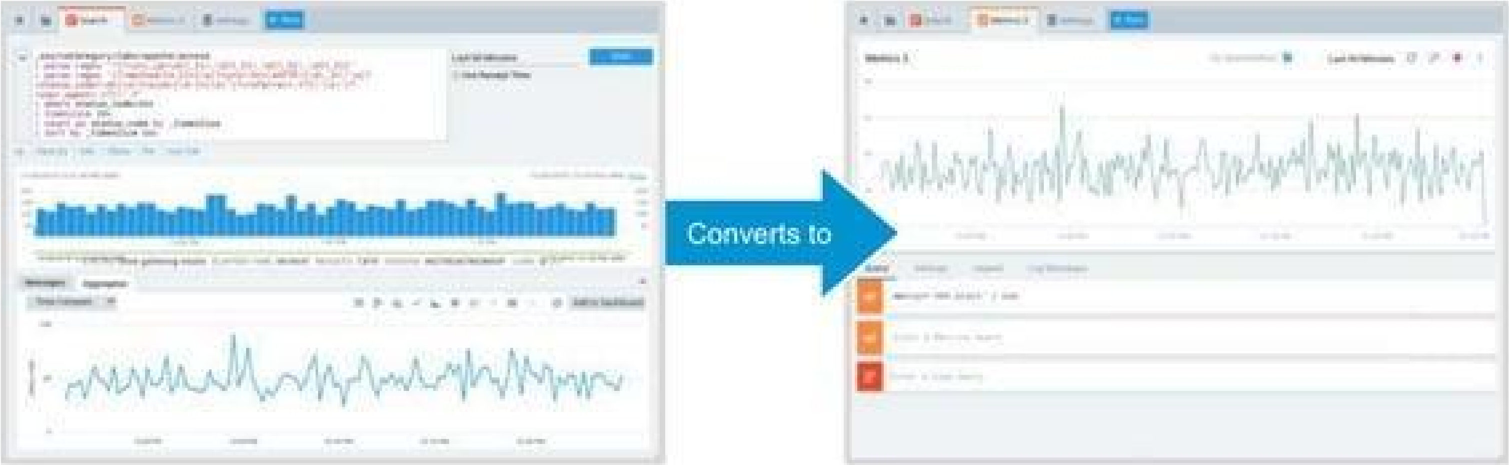


```
type=bookings metric=success.count
type=bookings metric=fail.count
Enter a Metrics Query
_sourceCategory = training/travel/checkout error
```

Logs-to-Metrics

What is it?

Logs-to-Metrics is a feature which converts the results of a log search to a metric view.



Logs-to-Metrics

Why do this?

1 Performance

2 Retention

3 Alerting

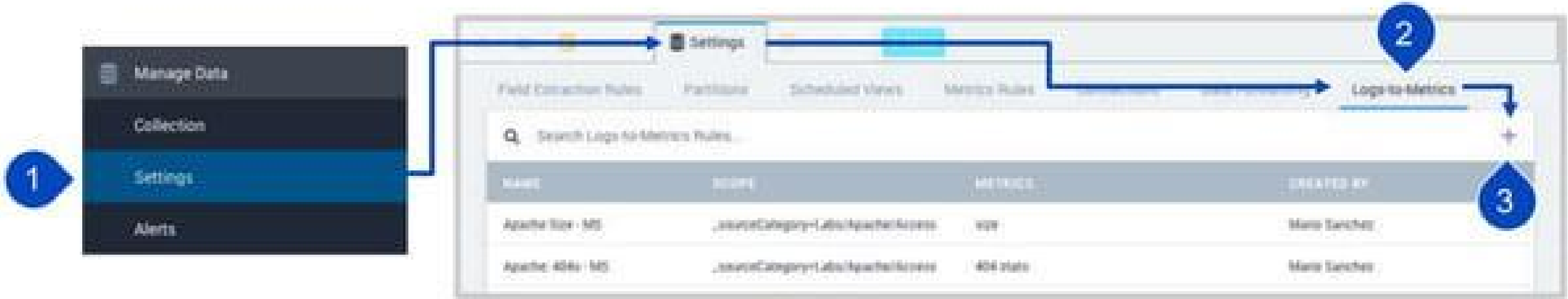
Analyzing time-series data is much faster than parsing and querying unstructured data.

Metrics are retained for 13 months by default. Good for long-term KPIs or operational trends.

High-performing, near real-time alerts optimized for time-series data.

Logs-to-Metrics

How to create a metric from a log:



NAME	SCOPE	METRICS	CREATED BY
Apache Size - MS	_sourceCategory=Labs/Apache/Access	size	Mario Sanchez
Apache: 404s - MS	_sourceCategory=Labs/Apache/Access	404 stats	Mario Sanchez

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Using Sumo Logic

Labs 13: Analyzing your Metrics (Lab 14 ILT)

- Basic Analytics
- Logs-to-Metrics

Note: *Lab 13 needs to run for -60m*

Monitoring your Data

Dashboards and Alerts

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Monitoring Your Data

Visualize your data through Dashboards

- Chart your Data
- Create Panels
- Share your Content!

Receive notification of your Critical Events

- Schedule Your Searches
- Use Webhook Connections to reach your audience
- Create Meaningful Alerts

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Using Sumo Logic

Lab 14: Relating your metrics and logs

Lab 15: Create meaningful alerts (ILT)

Use Cases

“How To” Template to implement in your Environment

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General Use Cases

How to Create and Alert on Ratios or Percentages

- Outlier

How to Compare and Alert on Historical Data

- Compare and Outlier

Detect Patterns and Changes Across Environments and Time

- LogCompare

Visualize Trends in Your Signatures

- LogReduce and Timeslice

Where do I go from here?

Training, Docs, Community, Support

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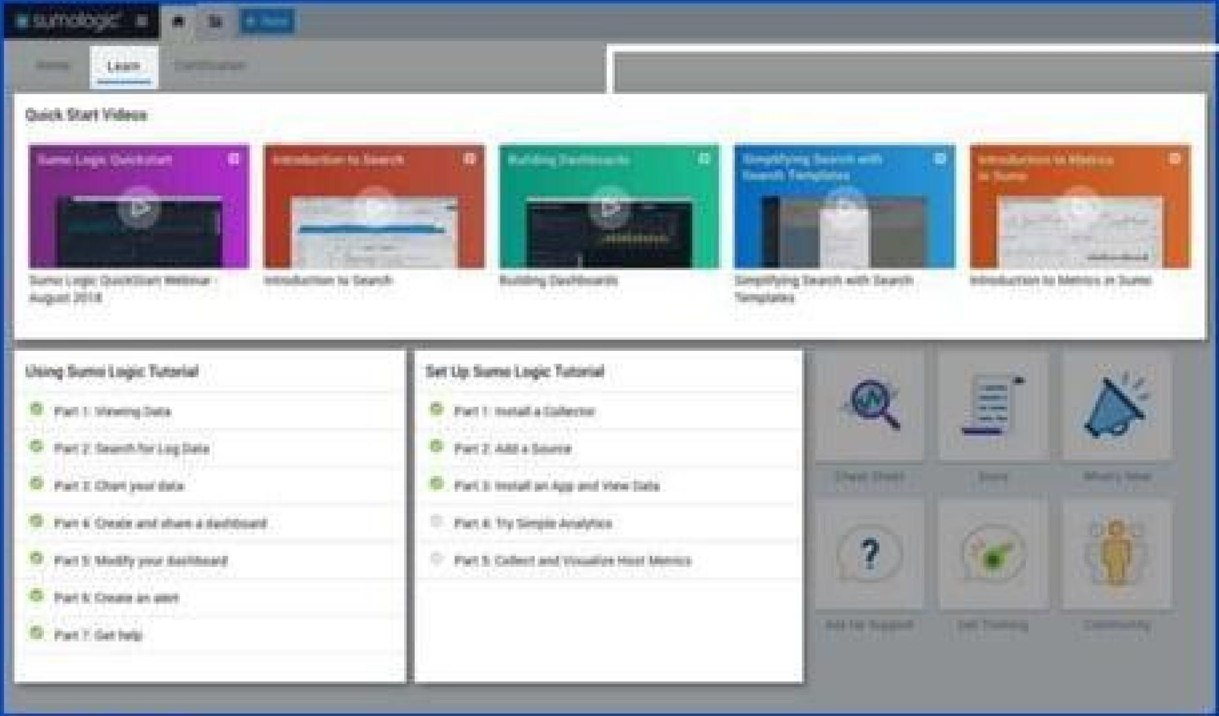
Need knowledge? ⇨ try the **Learn** tab



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- Introduction to Search
- Building Dashboards
- Simplifying Search with Search Templates
- Introduction to Metrics in Sumo

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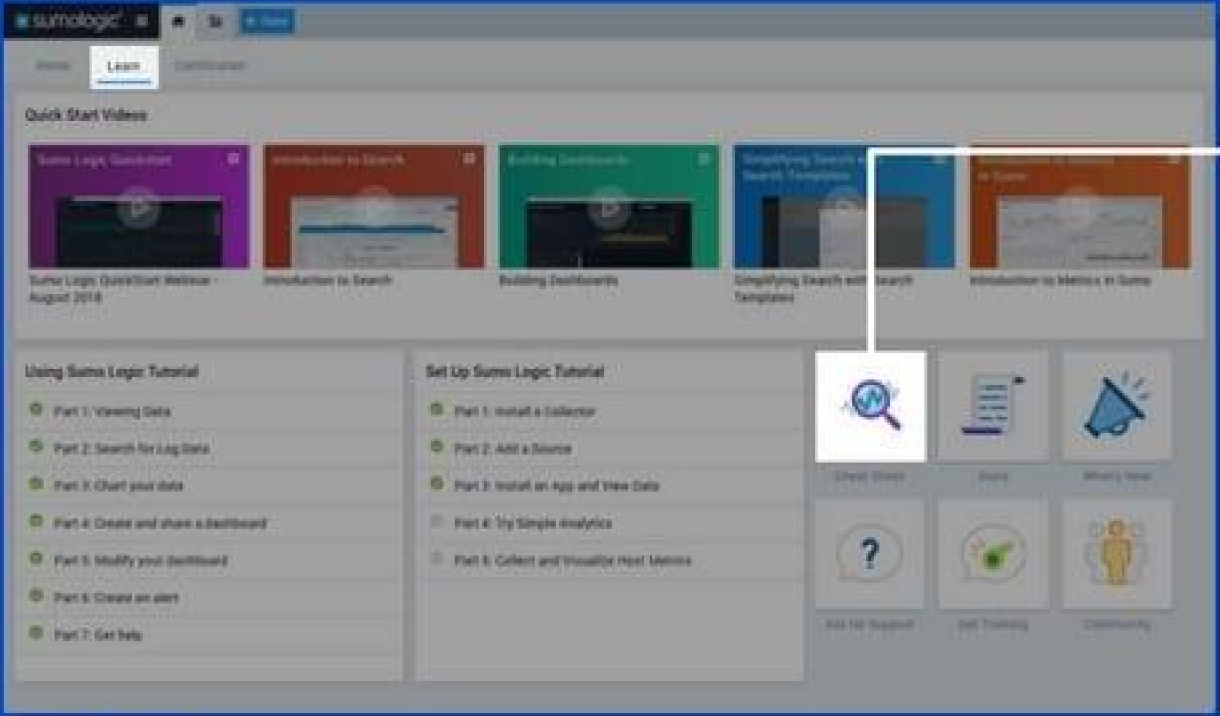

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Access comprehensive lists of operators and more

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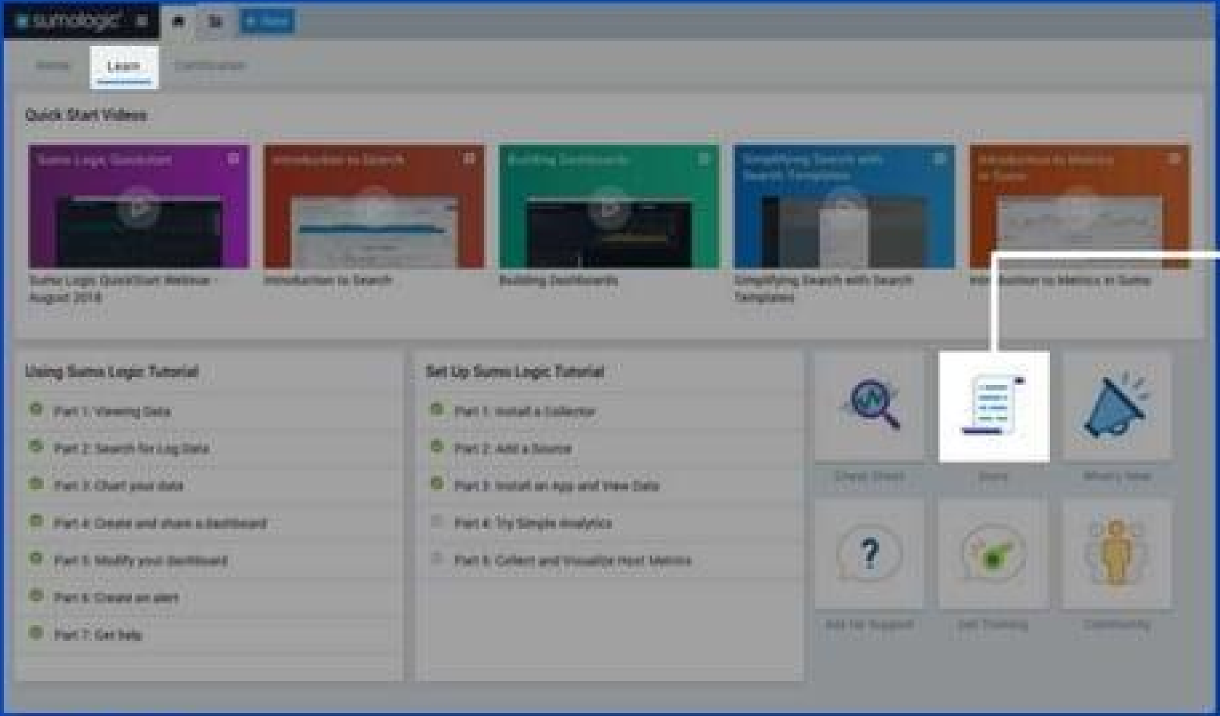

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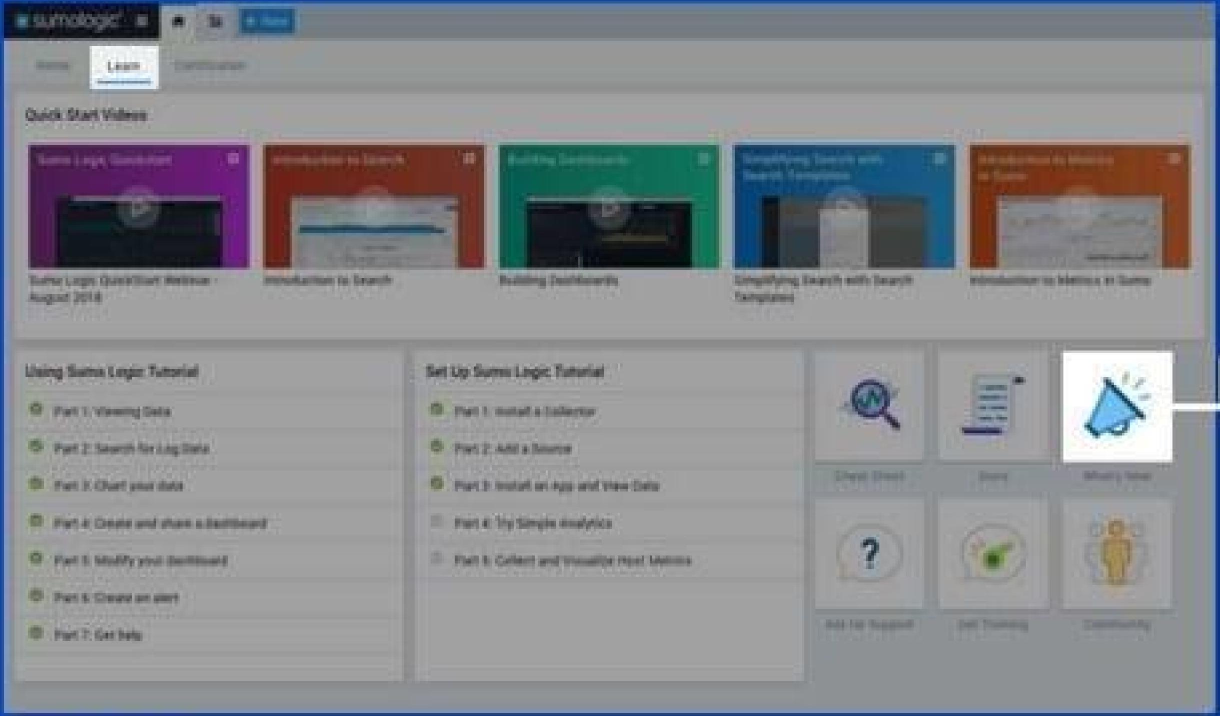

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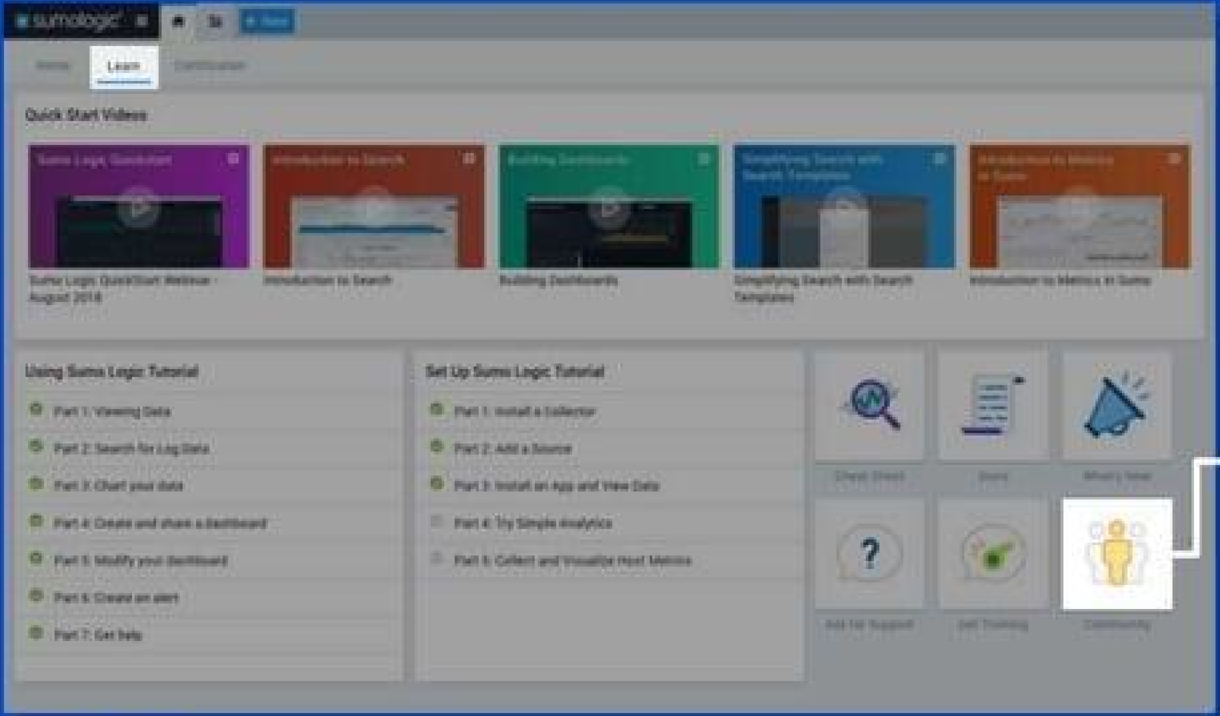

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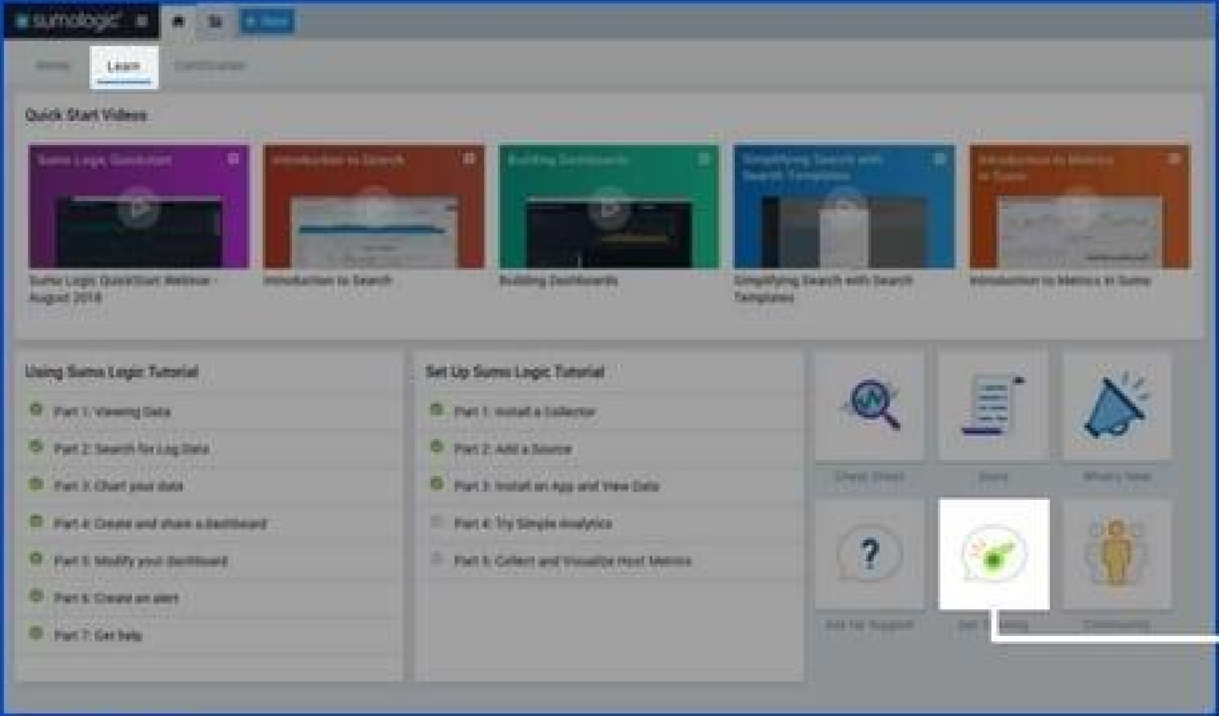

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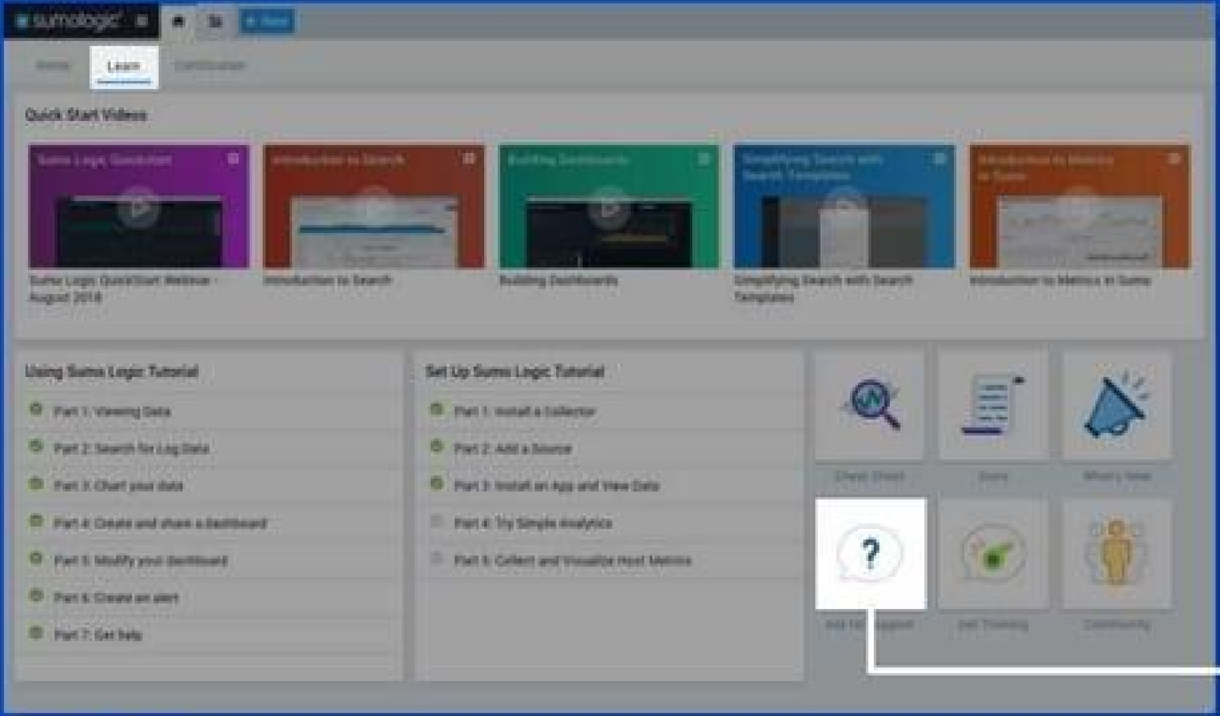
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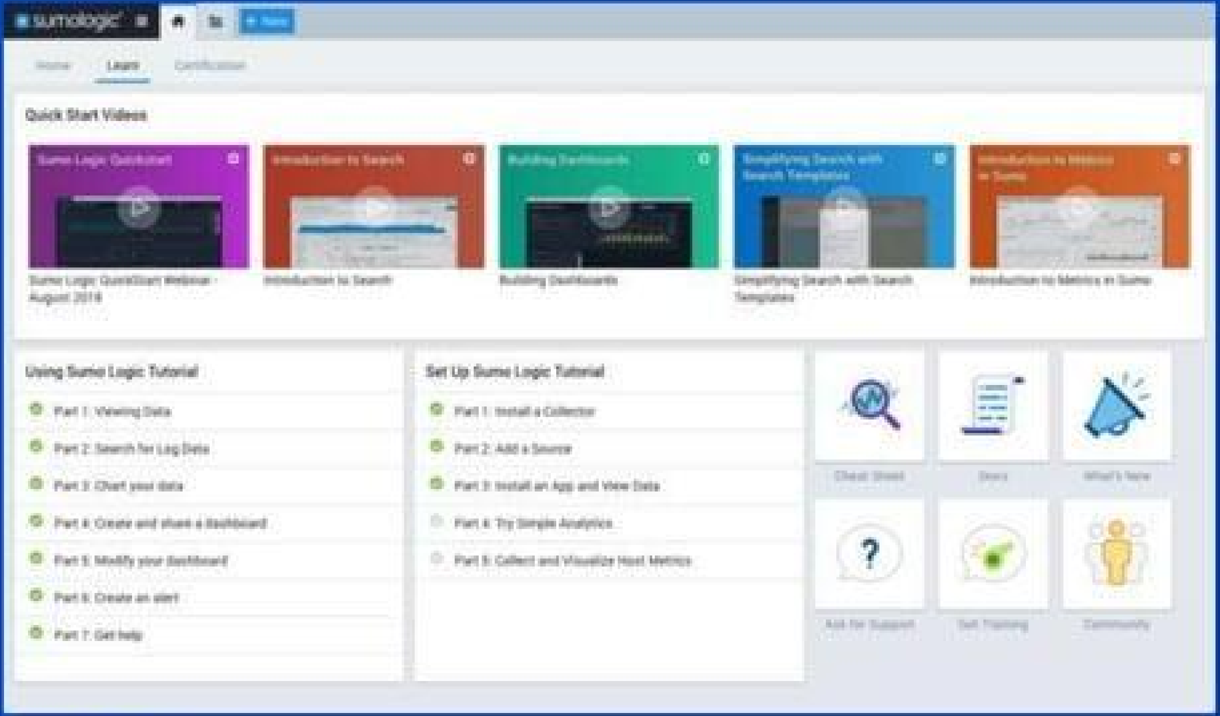

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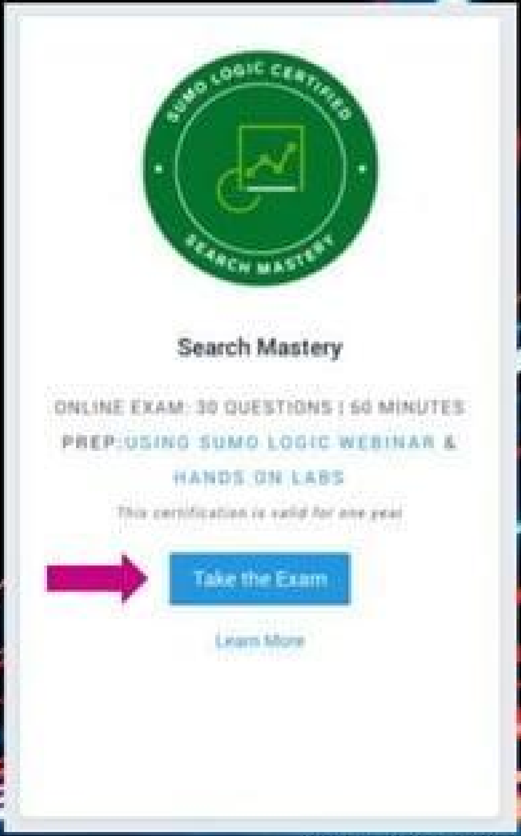
Questions?

Take the exam

In order to get credit for the exam, In YOUR OWN INSTANCE, go to Certification Tab.

- Online Exam
- 30 Multiple choice questions
- 60-minute time limit
- 3 attempts
- sumologic.talentlms.com



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- Make sure to log out of the training account you were using and sign in with your own account
- If you do not have a working login, go to sumologic.talentlms.com to sign up for an account

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If you find your login is cycling back to the exam screen, do the following:

- Click on Help in the black left bar
- Click Community in the black left bar
- An email verification should be sent
- Once you verify, you should able to take the exam without any issues

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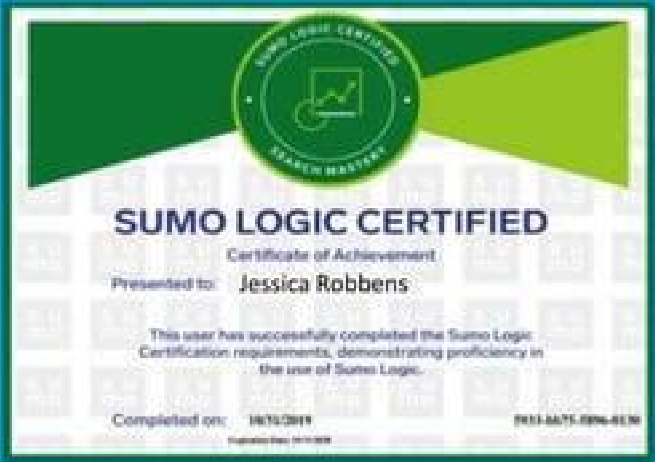
For passing the exam, you will earn:

- SWAG
- A Certificate
- An invitation to our LinkedIn Group
- The respect of your peers
- Fame, Fortune and more...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Certificate of Achievement

Presented to: Jessica Robbens

This user has successfully completed the Sumo Logic Certification requirements, demonstrating proficiency in the use of Sumo Logic.

Completed on: 10/31/2019 [illegible]

[illegible]

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Please take our survey:

https://forms.gle/2KMtxPuD9cSYV8SJ6

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