



FROM ISSUE TO PR MERGED: A FLUENTD “TAIL” KUBECON + CLOUDNATIVECON 2019 N.A.

JORDAN HAMEL

SR MGR SOFTWARE DEVELOPMENT ENGINEERING



1.

ABOUT AMGEN

Amgen is a values-based company, deeply rooted in science and innovation to transform new ideas and discoveries into medicines for patients with serious illnesses.

Our Mission is to Serve Patients
Please visit amgen.com to learn more

The views expressed herein represent those of the presenter and do not necessarily represent the views or practices of the Amgen or any other party.



3.

ABOUT AMGEN

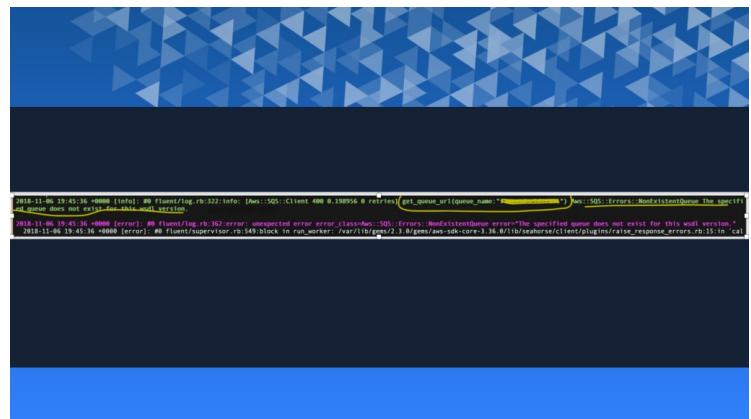
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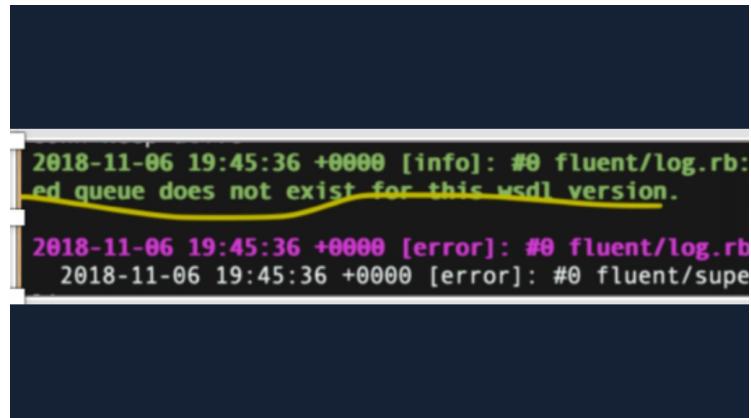
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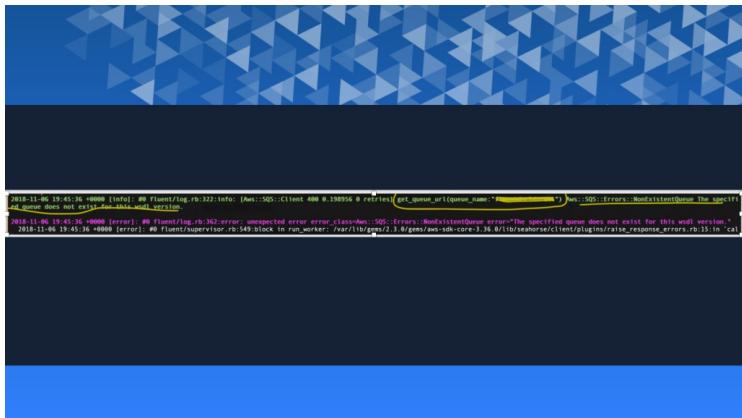
2.



4.



5.



6.

```
322:info: [Aws::SQS::Client 400 0.198956 0 retries]  
:362:error: unexpected error error_class=Aws::SQS::Ex  
rvisor.rb:549:block in run_worker: /var/lib/gems/2.3  
/0/gems/aws-sdk-core-3.36.0/lib/seahorse/client/plugins/raise_respo
```

7.

```
get_queue_url(queue_name:"XXXXXXXXXX") Aws::SQS  
errors::NonExistentQueue error="The specified queue do  
/0/gems/aws-sdk-core-3.36.0/lib/seahorse/client/plugins/raise_respo
```

8.

```
") Aws::SQS::Errors::NonExistentQueue The specific  
ied queue does not exist for this wsdl version."  
client/plugins/raise_response_errors.rb:15:in `cal
```

9.

```
e_name:"XXXXXXXXXX") Aws::SQS::Errors::NonExistentQueue The specific  
Queue error="The specified queue does not exist for this wsdl version."  
re-3.36.0/lib/seahorse/client/plugins/raise_response_errors.rb:15:in `cal
```

10.

```
What WSDL version works then?  
e_name:"XXXXXXXXXX") Aws::SQS::Errors::NonExistentQueue The specific  
Queue error="The specified queue does not exist for this wsdl version."  
re-3.36.0/lib/seahorse/client/plugins/raise_response_errors.rb:15:in `cal
```

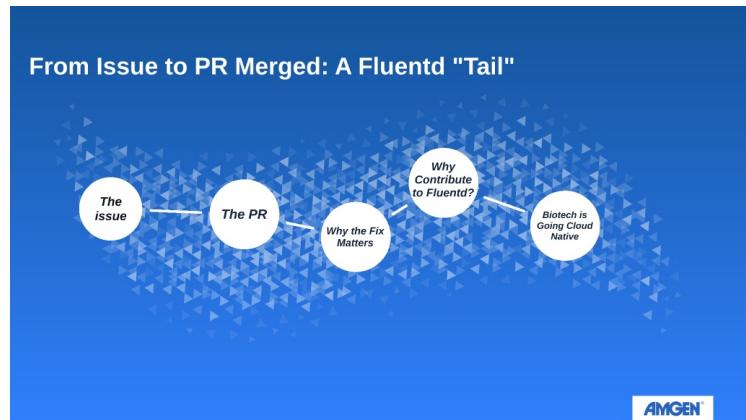
11.

```
e_name:"XXXXXXXXXX") Aws::SQS::Errors::NonExistentQueue The specific  
Queue error="The specified queue does not exist for this wsdl version."  
re-3.36.0/lib/seahorse/client/plugins/raise_response_errors.rb:15:in `cal
```

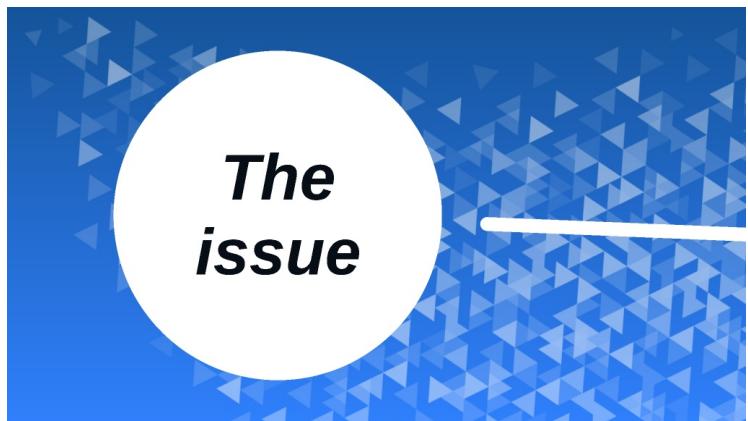
12.



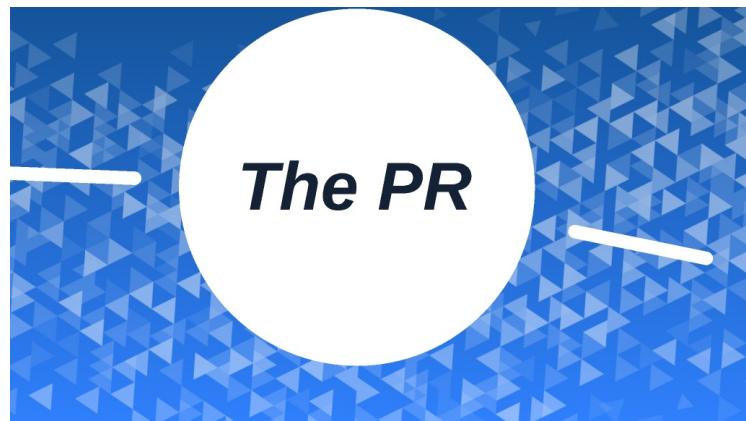
13.



14.



15.



16.



17.

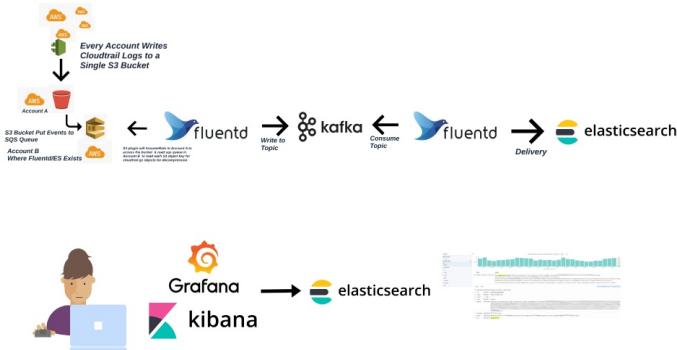


18.

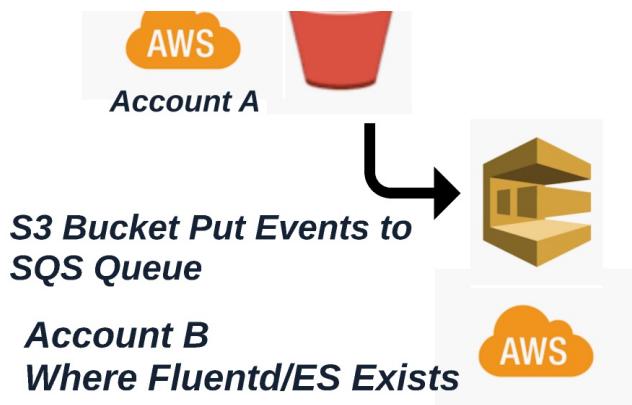
Biotech is Going Cloud Native

19.

Architecture - What We Needed to Do With The S3 Input Plugin



21.

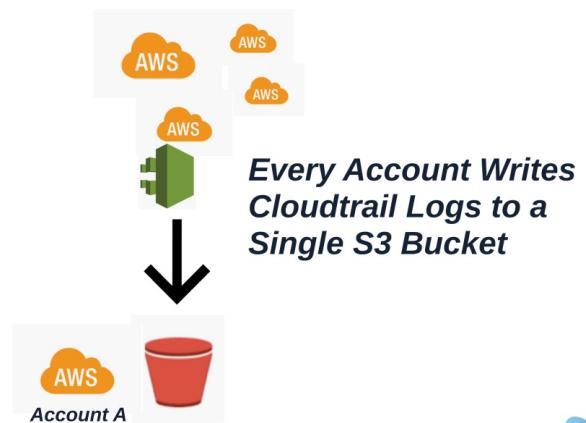


23.

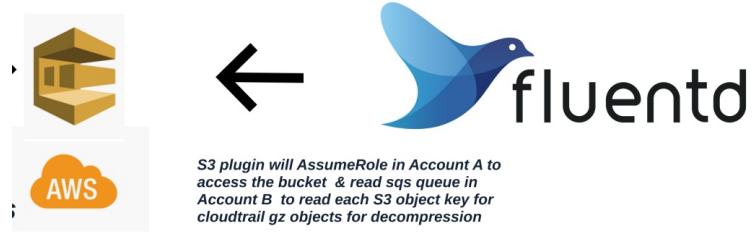
From Issue to PR Merged: A Fluentd "Tail"



20.



22.



24.



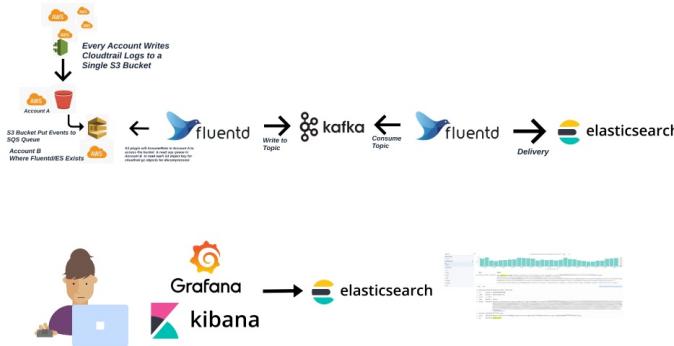


25.



26

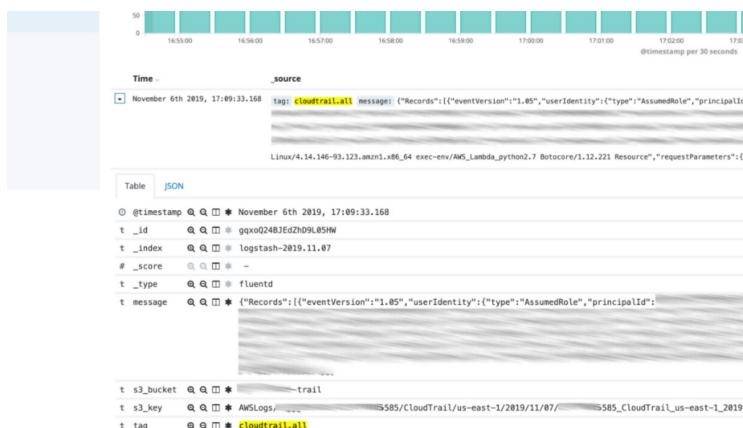
Architecture - What We Needed to Do With The S3 Input Plugin



27.



28



29



30

fluent-plugin-s3 Issue #247+ PR #248

fluent-plugin-s3 Issue #247+ PR #248

- IAM User/Key + local account queue and bucket worked!
- I tried using the assume role feature and failed - no region set

31.

fluent-plugin-s3 Issue #247+ PR #248

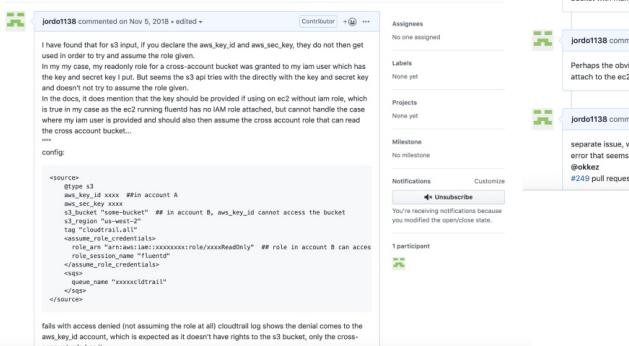
- IAM User/Key + local account queue and bucket worked!
- I tried using the assume role feature and failed - no region set



33.

if aws_key_id and aws_sec_key are declared, no assume role takes place #247

(5) Closed jordo1138 opened this issue on Nov 5, 2018 · 3 comments

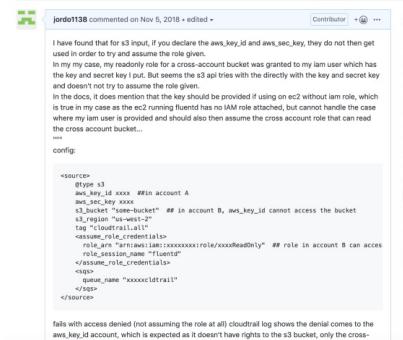


35.

32.

if aws_key_id and aws_sec_key are declared, no assume role takes place #247

(5) Closed jordo1138 opened this issue on Nov 5, 2018 · 3 comments



34.

is this a feature request then? bug? If I had to use assume role, the docs seem to say that I need to have instance profile creds, which implies iam role attached to the instance. Correct me if I'm wrong @repeatedly thanks so much for your help so far. It's working great with my test sqs and bucket for my aws account where assumeRole isn't needed. Right now issue is this since I have to reach a bucket with many accounts cloudtrail logs

jordo1138 commented on Nov 5, 2018

Perhaps the obvious workaround is to grant assumeRole rights to a new iam role in account A and attach to the ec2 instance?

jordo1138 commented on Nov 5, 2018 · edited

separate issue, when I did go to use assumeRole for input I'm getting the same "region not set" error that seems to have been fixed with #122 back in 2015 but was only fixed for out, not input.rb @okkez
#249 pull request opened for matching in/out behavior with assumeRole

36.

Perhaps the obvious workaround is to grant assumeRole rights to a new identity in account A and attach to the ec2 instance?

jordo1138 commented on Nov 5, 2018 • edited

Contributor Author +

separate issue, when I did go to use assumeRole for input I'm getting the same "region not set" error that seems to have been fixed with #122 back in 2015 but was only fixed for out, not input.rb @okkez

#249 pull request opened for matching in/out behavior with assumeRole

37.

```
diff --git a/lib/fluent/plugin/route.rb b/lib/fluent/plugin/route.rb
index 02-235-6...02-235-7 100644
--- a/lib/fluent/plugin/route.rb
+++ b/lib/fluent/plugin/route.rb
@@ -230,6 +230,10 @@ credentials_options[:client] = c.client if c.policy
 credentials_options[:duration_seconds] = c.duration_seconds if c.duration_seconds
 credentials_options[:external_id] = c.external_id if c.external_id
 credentials_options[:external_id] = c.external_id if c.external_id
+
+    credentials_options[:client] = Aws::STS::Client.new(region: <@1.region>)
+
+    options[:credentials] = Aws::AssumeRoleCredentials.new(credentials_options)
+
 when @instance_profile_credentials
   c = @instance_profile_credentials
   c = @instance_profile_credentials
```

39.

```
diff --git a/lib/fluent/plugin/route.rb b/lib/fluent/plugin/route.rb
index 02-184-6...02-184-7 100644
--- a/lib/fluent/plugin/route.rb
+++ b/lib/fluent/plugin/route.rb
@@ -191,6 +191,10 @@ credentials_options[:client] = c.client if c.policy
 credentials_options[:duration_seconds] = c.duration_seconds if c.duration_seconds
 credentials_options[:external_id] = c.external_id if c.external_id
 credentials_options[:external_id] = c.external_id if c.external_id
+
+    credentials_options[:client] = Aws::STS::Client.new(region: <@1.region>)
+
+    options[:credentials] = Aws::AssumeRoleCredentials.new(credentials_options)
+
 when @instance_profile_credentials
   c = @instance_profile_credentials
   c = @instance_profile_credentials
```

jordo1138 commented on Nov 5, 2018

Contributor +

PR #122 fixed for out, but not for IN...s3 region not set when using STS assume role

41.

Perhaps the obvious workaround is to grant assumeRole rights to a new identity in account A and attach to the ec2 instance?

jordo1138 commented on Nov 5, 2018 • edited

Contributor Author +

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#249 pull request opened for matching in/out behavior with assumeRole

38.

U TAUU - NU TEGIUII ST

match PR122 for Input as done in output rb #248

Closed jordo1138 wants to merge 1 commit into fluentmaster from unknown repository

```
diff --git a/lib/fluent/plugin/route.rb b/lib/fluent/plugin/route.rb
index 02-184-6...02-184-7 100644
--- a/lib/fluent/plugin/route.rb
+++ b/lib/fluent/plugin/route.rb
@@ -191,6 +191,10 @@ credentials_options[:client] = c.client if c.policy
 credentials_options[:duration_seconds] = c.duration_seconds if c.duration_seconds
 credentials_options[:external_id] = c.external_id if c.external_id
 credentials_options[:external_id] = c.external_id if c.external_id
+
+    credentials_options[:client] = Aws::STS::Client.new(region: <@1.region>)
+
+    options[:credentials] = Aws::AssumeRoleCredentials.new(credentials_options)
+
 when @instance_profile_credentials
   c = @instance_profile_credentials
   c = @instance_profile_credentials
```

jordo1138 commented on Nov 5, 2018

Contributor +

PR #122 fixed for out, but not for IN...s3 region not set when using STS assume role

40.

match PR122 for Input as done in output rb

a036fc1

DCO

DCO / DCO

required action on Nov 5, 2018 in 0s

DCO

You only have one commit incorrectly signed off! To fix, head to your local branch and run:

git commit --amend --signoff

Now your commits will have your sign off. Next run

git push --force origin patch-1

Commit sha: a036fc1, Author: Jordan Hamel, Committer: GitHub; The sign-off is missing.

match PR122 for Input as done in output rb
a036fc1

42.

fluent-plugin-s3 PR #249 Issue #250

Viewed ...

```

credentials_options[:policy] = c.policy if c.policy
credentials_options[:duration_seconds] = c.duration_seconds if c.duration_seconds
credentials_options[:external_id] = c.external_id if c.external_id
+   if @s3_region
+     credentials_options[:client] = Aws::STS::Client.new(:region => @s3_region)
+   end
options[:credentials] = Aws::AssumeRoleCredentials.new(credentials_options)
when @instance_profile_credentials
  c = @instance_profile_credentials

```

43.



44.

cosmo0920 reviewed on Nov 5, 2018

[View changes](#)

```

lib/fluent/plugin/in_s3.rb: Outdated
... ... @@ -186,6 +186,9 @@ def setup_credentials
    credentials_options[:policy] = c.policy if c.policy
    credentials_options[:duration_seconds] = c.duration_seconds if
    credentials_options[:external_id] = c.external_id if c.external
189 +   if @s3_region
190 +     credentials_options[:client] = Aws::STS::Client.new(:region =>

```

cosmo0920 on Nov 5, 2018 Contributor
2-spaces indentation is needed.

jord0138 on Nov 5, 2018 Author Contributor
thanks, fixed in [#97285b](#)

cosmo0920 on Nov 5, 2018 Contributor
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jord0138 on Nov 5, 2018 Author Contributor
thanks, fixed in [#97285b](#)

cosmo0920 marked this conversation as resolved.

[Unresolve conversation](#)

[fix indentation](#) ✓ 097285b

45.

cosmo0920 reviewed on Nov 5, 2018

[View changes](#)

```

lib/fluent/plugin/in_s3.rb: Outdated
... ... @@ -186,6 +186,9 @@ def setup_credentials
    credentials_options[:policy] = c.policy if c.policy
    credentials_options[:duration_seconds] = c.duration_seconds if
    credentials_options[:external_id] = c.external_id if c.external
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cosmo0920 marked this conversation as resolved.

[Unresolve conversation](#)

[fix indentation](#) ✓ 097285b

46.

jord0138 commented on Nov 6, 2018 • edited

[Author](#) [Contributor](#) +@ ...

@cosmo0920 hi, I tested this locally and it's giving me the right region now without any error, but I seem to have come across a different issue that seems specific to using assumeRole, the sqs queue name is nil so the sqs post goes to the right region but is / instead of the sqs queue name... this should be because the queue name seems to append after the account number of the aws account, but in this case the queue may not exist in the aws account of the assumed role if they are granted access to a cross account queue..either way it seems related to assumeRole behavior

example: if using aws key and secret key

```
POST /12345678901234567890/queue_name
```

if using assume role credentials:

```
POST /
```

fluentd -vv shows this, and has the correct queue_name from the fluent.conf, bug of course is 400 error as POST is to /

```
2018-11-06 07:55:00 +0000 [info]: #0 fluent/log.rb:322:info: [Aws::SQS::Client] 400 0.255
```

I opened a new issue #250 with more details on this separate problem

47.

jord0138 commented on Nov 6, 2018 • edited

[Author](#) [Contributor](#) +@ ...

@cosmo0920 hi, I tested this locally and it's giving me the right region now without any error, but I seem to have come across a different issue that seems specific to using assumeRole, the sqs queue name is nil so the sqs post goes to the right region but is / instead of the sqs queue name... this should be because the queue name seems to append after the account number of the aws account, but in this case the queue may not exist in the aws account of the assumed role if they are granted access to a cross account queue..either way it seems related to assumeRole behavior

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fluentd -vv shows this, and has the correct queue_name from the fluent.conf, bug of course is 400 error as POST is to /

```
2018-11-06 07:55:00 +0000 [info]: #0 fluent/log.rb:322:info: [Aws::SQS::Client] 400 0.255
```

I opened a new issue #250 with more details on this separate problem

48.

Input SQS queue name not added to the URI properly w
using AssumeRole #250

 Closed jordo1138 opened this issue on Nov 6, 2018 · 2 comments

After locally fixing the input set region size #424, I found a interesting bug where when pausing the role, I am able to use the role, successfully send listbatch request and then when I cancel the sqs client and try to use, I get a 400 bad request because the queue name cannot be found for this wsd.

But after investigating using fluent-wf it's clear the issue is that although my fluent.conf sets the SQS queue name correctly, the SQS client POST request is to / instead of the account number.

The region for `sqs.WHOST` is also correct. See image below. The log even shows the right queue name but for some reason didn't form the URL correctly. I have also previously granted my `assumeRole` rights to the SQS queue in us-west-2 but no way to know if it's working since the POST request is incorrect.

The issue does not exist when using a key/secret key to another queue in the same region and the sqs client POST url is correctly formed, seems to be limited to assumeRole scenario
I believe the issue is due to the sqs queue not being in the same account as the assumed role. Is this a requirement? I have granted access to the assumed role to that sqs queue but seems it's a related issue.

Input SQS queue name not added to the URI properly w
using AssumeRole #250

 Closed jordo1138 opened this issue on Nov 6, 2018 · 2 comments

After locally fixing the input set region issue #240, I found a interesting bug where when assigning the url, I am able to assume the rule, successfully send listbucket request and then when it creates the s3s client and url to it, I get a 400 bad request because the queue name cannot be found for this vhost.
But after inspecting using fluent-vv -v the clear the issue is that although my fluent.conf sets the SQS queue name correctly, the SQS client POST request is to instead of the queue name itself.
The region for `aws s3` is also correct. See image below. The log even shows the right queue name but for somersation didn't form the URL correctly. I have also properly granted my `assumedRole` access to the SQS queue in us-west-2 but no way to know if it's working since the POST request is incorrect.

The issue does not exist when using a key/secret key to another queue in the same region and the sqs client POST url is correctly formed, seems to be limited to assumeRole scenario
I believe the issue is due to the sqs queue not being in the same account as the assumed role. Is this a requirement? I have granted access to the assumed role to that sqs queue but seems it's a related issue.

49.

50

Input SQS queue name not added to the URI properly w
using AssumeRole #250

 Closed jord01138 opened this issue on Nov 6, 2018 · 2 comments

jordn1138 commented on Nov 6, 2018 · edited · [Contributor](#) ·

After locally fixing the input region issue #249, I found a interesting bug where whenever I set the role, I am able to use the role, successfully send listbucket request and then when it creates the sqs client and utl to get, I got a 400 bad request because the queue name cannot be found for this user.

But after expecting a fluentd-aws plugin to clear the issue is that although my fluentd conf sets the \$SQS_QUEUE_NAME, name correctly, the SQS client POST request is to / to / of the accountname.queue_name

The region for \$SQS HOST is also correct. See image below. The log even shows the right queue name but for some reason didn't form the URL correctly. I have also properly granted my assumeRoleRequest to the SQS queue in us-west-2 but no way to know if it's working since the POST request is incorrect.

The issue does not exist when using a key/secret key to another queue in the same region and the sqs client POST url is correctly formed, seems to be limited to assumeRole scenario
I believe the issue is due to the sqs queue not being in the same account as the assumed role. Is this a requirement? I have granted access to the assumed role to that sqs queue but seems it's a related issue.

Digitized by srujanika@gmail.com

51.

52

```
2018-11-06 19:45:36 +0000 [debug]: #0 fluent/log  
2018-11-06 19:45:36 +0000 [debug]: #0 fluent/log  
    This should show accountName/queueName  
    .us-west-2.amazonaws.com  
opened  
starting SSL for sqs.us-west-2.amazonaws.com:443  
SSL established  
<- "POST / HTTP/1.1\r\nContent-Type: application/x-www-form-urlencoded\r\nHost: sqs.us-west-2.amazonaws.com\r\nX-Amz-Date: 20181106T194536Z\r\nAuthorization: AWS4-HMAC-SHA256 Credential=AKIAJ2A3R5LQ2UW7V7QLE, SignedHeaders=x-amz-date;x-amz-security-token;x-amz-target, Signature=450553350241ad33311001bc388c03370\r\nContent-Length: 0\r\n\r\n"  
-> "HTTP/1.1 400 Bad Request\r\n\r\n"  
-> "x-amzn-RequestId: 0brcf699-a932-53d2-9c05-3b
```

```
2018-11-06 19:45:36 +0000 [debug]: #0 fluent/log  
2018-11-06 19:45:36 +0000 [debug]: #0 fluent/log  
    This should show accountnumber@queue_name  
    us-west-2.amazonaws.com  
opened  
starting SSL for sqs.us-west-2.amazonaws.com:443  
SSL established  
<- "POST / HTTP/1.1\r\nContent-Type: application/x-www-form-urlencoded\r\nHost: sqs.us-west-2.amazonaws.com\r\nX-Amz-Date: 20181106T194536Z\r\nAuthorization: AWS4-HMAC-SHA256 Credential=AKIAJ2A3R51QY7WV5CZ/20181106/us-wes  
t2amazonawscom, SignedHeaders=host;x-amz-date, Signature=45055550241ad333110017bc380dc0557d\r\nContent-Type: application/x-www-form-urlencoded\r\nContent-Length: 0\r\n\r\n"  
>- "HTTP/1.1 400 Bad Request\r\n\r\n"  
>- "x-amzn-RequestId: 0bcc6f99-a932-53d2-9c05-3b
```

53

54

About 53,700 results (0.59 seconds)

The specified queue does not exist for this wsdl version · Issue ...

https://github.com › aws › aws-sdk-php-laravel › issues ›

Jan 25, 2018 - Getting below error.. My queue region is "ap-south-1" AWS SimpleQueueService NonExistentQueue (client): The specified queue does not ...

Getting "The specified queue does not exist for this wsdl ..."

https://github.com › aws › aws-sdk-java › issues ›

Apr 29, 2013 - Getting "The specified queue does not exist for this wsdl version" on AmazonSQS. AmazonSQS sqs = AmazonSQSClientBuilder.standard() ... https://docs.aws.amazon.com/sdk-for-java/v1/developer-guide/java-dg-region- ...

Choosing the WSDL version - AWS Developer Forums

https://forums.aws.amazon.com › thread › threadId=138233

Oct 24, 2013 - 14 posts

Choosing the WSDL version. The specified queue does not exist for this ... The WSDL version shouldn't matter for most cases (remote queues), ... the queue via the console, the same region you are using in the SDK for your ...

AmazonSQSClient.getQueueUrl does not

AmazonSQSException The specified queue does not exist

The specified queue does not exist for this Existing queue not found

More results from forums.aws.amazon.com

Spring Cloud - SQS - The specified queue does not exist for this ...

https://stackoverflow.com › questions › spring-cloud-sqs-the-specified-que... ›

4 answers

Oct 24, 2013 - This error indicates that the queue doesn't exist in the region us-west-2. One of the reasons could be that the AWS Java SDK uses us-east-1 as ...

AWS.SimpleQueueServiceNonExistentQueueException thrown ... Aug 12, 2013

AmazonSQSException The specified queue does not exist

Amazon SQS Queue Does Not Exist - Stack Overflow

The specified queue does not exist - AWS.SimpleQueueService ... Oct 11, 2019

More results from stackoverflow.com

About 53,700 results (0.59 seconds)

The specified queue does not exist for this wsdl version · Issue ...

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Getting "The specified queue does not exist for this wsdl ...

https://github.com › aws › aws-sdk-java › issues ›

Apr 29, 2019 - Getting "The specified queue does not exist for this wsdl version" on AmazonSQS. ... AmazonSQS sqs = AmazonSQSClientBuilder.standard() ... https://docs.aws.amazon.com/sdk-for-java/v1/developer-guide/java-dg-region- ...

Choosing the WSDL version - AWS Developer Forums

55.

56.

Spoiler Alert: "It's not the wsdl version"

```
... @@ -1,191 +1,194 @@
1 require 'fluent/plugin/input'
2 require 'fluent/log-ext'
3
4 require 'aws-sdk-s3'
5 require 'aws-sdk-sqs'
6 require 'aws-sdk-sqs/queue_poller'
7 require 'cgi/util'
8 require 'zlib'
9 require 'time'
10 require 'tempfile'
```

```
... @@ -1,191 +1,194 @@
1 require 'fluent/plugin/input'
2 require 'fluent/log-ext'
3
4 require 'aws-sdk-s3'
5 require 'aws-sdk-sqs'
6 require 'aws-sdk-sqs/queue_poller'
7 require 'cgi/util'
8 require 'zlib'
9 require 'time'
10 require 'tempfile'
```

57.

58.

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2 require 'fluent/log-ext'
3
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5 require 'aws-sdk-sqs'
6 require 'aws-sdk-sqs/queue_poller'
7 require 'cgi/util'
8 require 'zlib'
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```

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4 require 'aws-sdk-s3'
5 require 'aws-sdk-sqs'
6 require 'aws-sdk-sqs/queue_poller'
7 require 'cgi/util'
8 require 'zlib'
9 require 'time'
10 require 'tempfile'
```

*Read up on what you do know
(you know more than you feel
you do right now)*

*Read up on what you do know
(you know more than you feel
you do right now)*

59.

60.

Class: Aws::SQS::Client

Inherits: [Seahorse::Client::Base](#) [show all](#) [Defined in:](#) (unknown)

Overview

An API client for Amazon Simple Queue Service. To construct a client, you need to configure a `:region` and `:credentials`.

```
sgs = Aws::SQS::Client.new(
  region: region_name,
  credentials: credentials,
  # ...
)
```

See `#initialize` for a full list of supported configuration options.

Region

You can configure a default region in the following locations:

- ENV['AWS_REGION']
- Aws.config[:region]
- Go here for a list of supported regions.
- Default credentials are loaded automatically from the following locations:
 - ENV['AWS_ACCESS_KEY_ID'] and ENV['AWS_SECRET_ACCESS_KEY']
 - Aws.config[:credentials]
 - The shared credentials ini file at `~/.aws/credentials` (more information)
 - From an instance profile when running on EC2

`#get_queue_url(options = {})` ⇒ [Types::GetQueueUrlResult](#)

Returns the URL of an existing Amazon SQS queue.

To access a queue that belongs to another AWS account, use the `queue_owner_aws_account_id` parameter to specify the account ID of grant you permission to access the queue. For more information about shared queue access, see [AddPermission](#) or see [Allow Developers to Write Messages to a Shared Queue in the Amazon Simple Queue Service Developer Guide](#).

Examples:

Request syntax with placeholder values

```
resp = client.get_queue_url({
  queue_name: "String", # required
  queue_owner_aws_account_id: "String",
})
```

Response structure

```
resp.queue_url #=> String
```

Options Hash (options):

- `:queue_name` (required, String) — The name of the queue whose URL must be fetched. Maximum 80 characters. Valid values: underscores (`_`).

Queue URLs and names are case-sensitive.

- `:queue_owner_aws_account_id` (String) — The AWS account ID of the account that created the queue.

Returns:

- (`Types::GetQueueUrlResult`) — Returns a `response` object which responds to the following methods:
 - `#queue_url => String`

See Also:

- [AWS API Documentation](#)

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`#get_queue_url(options = {})` ⇒ [Types::GetQueueUrlResult](#)

Returns the URL of an existing Amazon SQS queue.

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Options Hash (options):

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```
diff --git a/lib/aws-sdk-sqs.rb b/lib/aws-sdk-sqs.rb
--- a/lib/aws-sdk-sqs.rb
+++ b/lib/aws-sdk-sqs.rb
@@ -133,7 +133,7 @@ def start
  sqs_client = create_sqs_client
  log.debug("Succeeded to create SQS client")
  response = sqs_client.get_queue_url(queue_name: @sqs.queue_name)
- sqs_queue_url = response.queue_url
+ sqs_queue_url = response.queue_url
  log.debug("Succeeded to get SQS queue URL")
@@ -186,6 +188,9 @@ def setup_credentials
  credentials_options[:policy] = c.policy if c.policy
  credentials_options[:duration_seconds] = c.duration_seconds if c.duration_seconds
  credentials_options[:external_id] = c.external_id if c.external_id
-
```

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```
config_section :sqs, required: true, multi: false do
  desc "SQS queue name"
  config_param :queue_name, :string, default: nil
  +
  desc "SQS Owner Account ID"
  config_param :queue_owner_aws_account_id, :string, default: nil
  desc "Use 's3_region' instead"
  config_param :endpoint, :string, default: nil
  desc "Skip message deletion"
@@ -133,7 +133,7 @@ def start
  sqs_client = create_sqs_client
  log.debug("Succeeded to create SQS client")
  response = sqs_client.get_queue_url(queue_name: @sqs.queue_name, queue_owner_aws_account_id:
- sqs_queue_url = response.queue_url
+ sqs_queue_url = response.queue_url
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-
```

9 config_section :sqs, required: true, multi: false do

10 desc "SQS queue name"

11 config_param :queue_name, :string, default: nil

12 + desc "SQS Owner Account ID"

13 config_param :queue_owner_aws_account_id, :string, default: nil

14 desc "Use 's3_region' instead"

15 config_param :endpoint, :string, default: nil

16 desc "Skip message deletion"

17

18 sqs_client = create_sqs_client

19 log.debug("Succeeded to create SQS client")

20 + response = sqs_client.get_queue_url(queue_name: @sqs.queue_name, queue_owner_aws_account_id:

21 sqs_queue_url = response.queue_url

22 log.debug("Succeeded to get SQS queue URL")

23

24 credentials_options[:policy] = c.policy if c.policy

25 credentials_options[:duration_seconds] = c.duration_seconds if c.duration_seconds

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```

  config_section :sns, required: true, multi: false uu
desc "SQS queue name"
config_param :queue_name, :string, default: nil
1 + desc "SQS Owner Account ID"
2 + config_param :queue_owner_aws_account_id, :string, default: nil
3 desc "Use 's3_region' instead"
4 config_param :endpoint, :string, default: nil
5 desc "Skip message deletion"

6
7 sqs_client = create_sqs_client
8 log.debug("Succeeded to create SQS client")
9 + response = sqs_client.get_queue_url(queue_name: @sns.queue_name, queue_owner_aws_account_id:
10   @sns.queue_owner_aws_account_id)
11 sqs_queue_url = response.queue_url
12 log.debug("Succeeded to get SQS queue URL")
13

14 credentials_options[:policy] = c.policy if c.policy
15 credentials_options[:duration_seconds] = c.duration_seconds if c.duration_seconds

```

67.

```

189 credentials_options[:duration_seconds] = c.duration_seconds if c.duration_seconds
190 credentials_options[:external_id] = c.external_id if c.external_id
191 +
192   if @sts_region
193     credentials_options[:client] = Aws::STS::Client.new(:region => @sts_region)
194   end
195   options[:credentials] = Aws::AssumeRoleCredentials.new(credentials_options)
196   when instance_profile_credentials
197     c = instance_profile_credentials
198   end

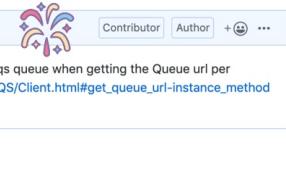
```

jordo1138 commented on Nov 6, 2018

Contributor Author + ...

modified to handle cross account id that owns the sqs queue when getting the Queue url per https://docs.aws.amazon.com/sdkforruby/api/Aws/SQS/Client.html#get_queue_url-instance_method
it's in the pull request now #249

68.



Woohoo! PR LGTM yeah??

jordo1138 commented on Nov 6, 2018

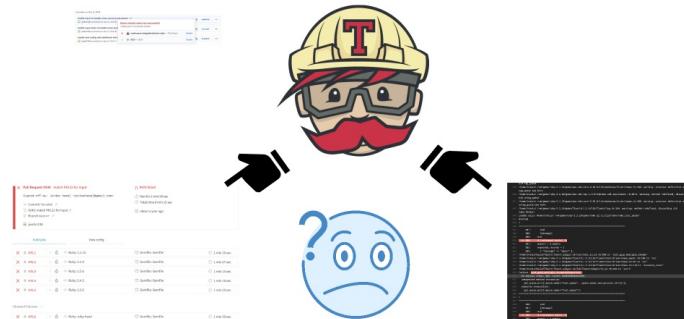
Contributor Author + ...

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it's in the pull request now #249

69.

70.

"Not so fast" - Travis CI



71.

Commits on Nov 6, 2018

	modify input to handle cross-account sns queue ...	e94676d	  
jordo1138	committed on Nov 6, 2018	X	Some checks were not successful 1 failing and 1 successful checks
	modify input tests to handle cross accc	c11cccd7	  

72.

Pull Request #249 - match PR122 for input

Signed-off-by: Jordan Hamel <jordanhamel@gmail.com>

→ Commit 7bc6c642 ↵

PR#249: match PR122 for input ↵

Branch master ↵

jordi1138

8476 failed
Ran for 2 min 58 sec
Total time 8 min 10 sec
about a year ago

Build jobs		View config
X # 476.1	↳ Ruby: 2.1.10	Gemfile: Gemfile
X # 476.2	↳ Ruby: 2.2.9	Gemfile: Gemfile
X # 476.3	↳ Ruby: 2.3.6	Gemfile: Gemfile
X # 476.4	↳ Ruby: 2.4.3	Gemfile: Gemfile
X # 476.5	↳ Ruby: 2.5.0	Gemfile: Gemfile
		1 min 16 sec
		1 min 27 sec
		1 min 15 sec
		1 min 1 sec
		1 min 20 sec
		1 min 39 sec

Allowed Failures ?

X # 476.6 ↳ Ruby: ruby-head Gemfile 1 min 39 sec

```
old_time_format:
  /home/travis/.rvm/gems/ruby-2.1.10/gems/aws-sdk-core-3.36.0/lib/seahorse/client/base.rb:198: warning: previous definition of old_time_format was here
  /home/travis/.rvm/gems/ruby-2.1.10/gems/aws-sdk-core-3.36.0/lib/seahorse/client/base.rb:198: warning: method redefined; discarding old_time_format
  /home/travis/.rvm/gems/ruby-2.1.10/gems/aws-sdk-core-3.36.0/lib/seahorse/client/base.rb:198: warning: previous definition of old_time_format was here
  /home/travis/.rvm/gems/ruby-2.1.10/gems/fluent/lib/fluent/log.rb:198: warning: method redefined; discarding old_time_format
  Started suite /home/travis/.rvm/gems/ruby-2.1.10/gems/rake-12.3.1/lib/rake/rake_test_loader
  Started
  F
  =====
  387:   end
  388:   [message]
  389: end
  => 390: d.run(expect_exit: 1)
  391: events = d.events
  392: expected_records = [
  393:   { "message" => "aaavn" },
  394:   { "message" => "test_gzip_multiple_stems" }
  395: ]
  396: /home/travis/build/fluent/fluent-plugin-s3/test/test_in_s3.rb:396:in `test_gzip_multiple_stems'
  397: /home/travis/.rvm/gems/ruby-2.1.10/gems/fluentd-1.2.6/lib/fluent/test/driver/base_owner.rb:138:in `run'
  398: /home/travis/.rvm/gems/ruby-2.1.10/gems/fluentd-1.2.6/lib/fluent/test/driver/base.rb:76:in `run'
  399: /home/travis/.rvm/gems/ruby-2.1.10/gems/fluentd-1.2.6/lib/fluent/test/driver/base.rb:113:in `instance_start'
  400: /home/travis/build/fluent/fluent-plugin-s3/lib/fluent/plugin/in_s3.rb:138:in `start'
  401: Failure: test_gzip_multiple_stems(S3InputTest):
  On subject #AWS::SQS::Client<0x000000002ba930>
  unexpected method invocation:
  - get_queue_url({:queue_name=>"test_queue", :queue_owner_aws_account_id=>nil})
  expected invocations:
  - get_queue_url({:queue_name=>"test_queue"})
  =====
  336:   end
  337:   [message]
  338: end
  => 339: events = d.events
  340: expected_records = [
  341:   { "message" => "aaavn" },
  342:   { "message" => "test_gzip_multiple_stems" }
  343: ]
```

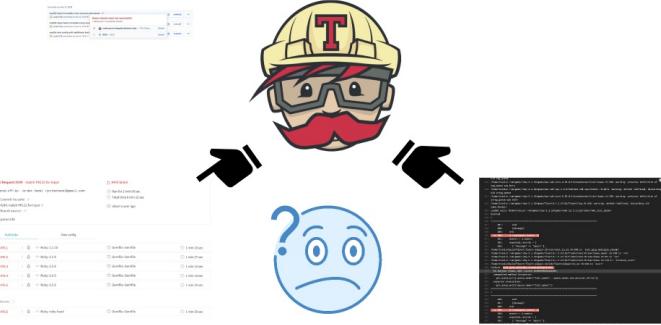
73.

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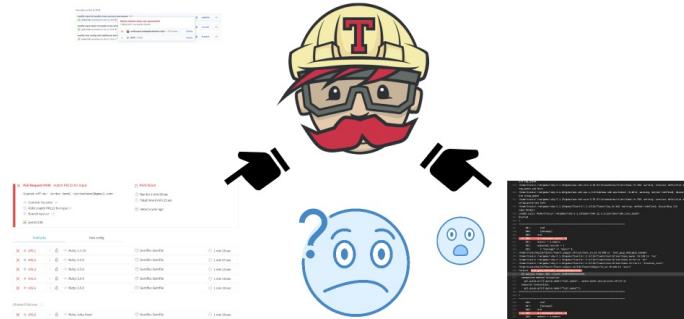
```
old_time_format:
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  397: /home/travis/.rvm/gems/ruby-2.1.10/gems/fluentd-1.2.6/lib/fluent/test/driver/base_owner.rb:138:in `run'
  398: /home/travis/.rvm/gems/ruby-2.1.10/gems/fluentd-1.2.6/lib/fluent/test/driver/base.rb:76:in `run'
  399: /home/travis/.rvm/gems/ruby-2.1.10/gems/fluentd-1.2.6/lib/fluent/test/driver/base.rb:113:in `instance_start'
  400: /home/travis/build/fluent/fluent-plugin-s3/lib/fluent/plugin/in_s3.rb:138:in `start'
  401: Failure: test_gzip_multiple_stems(S3InputTest):
  On subject #AWS::SQS::Client<0x000000002ba930>
  unexpected method invocation:
  - get_queue_url({:queue_name=>"test_queue", :queue_owner_aws_account_id=>nil})
  expected invocations:
  - get_queue_url({:queue_name=>"test_queue"})
  =====
  336:   end
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  338: end
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  340: expected_records = [
  341:   { "message" => "aaavn" },
  342:   { "message" => "test_gzip_multiple_stems" }
  343: ]
```

75.

"Not so fast" - Travis CI



"Not so fast" - Travis CI



77.

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78.

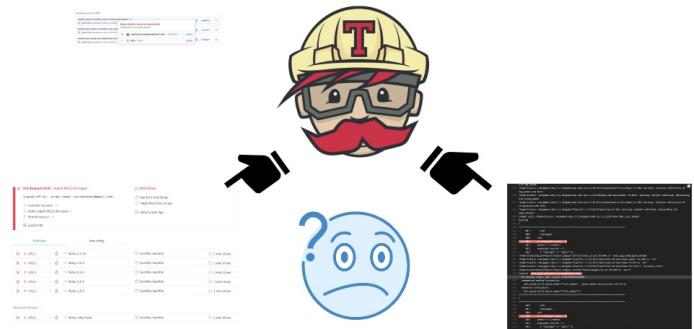


79.



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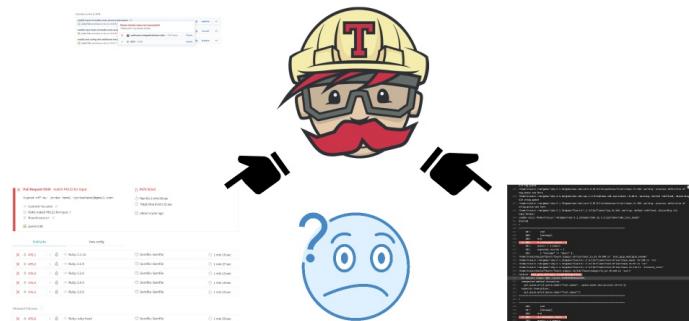
"Not so fast" - Travis CI



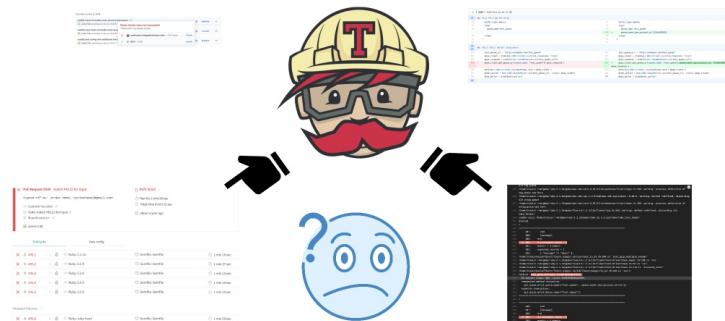
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Finally Fixed



83.



84.

Finally Fixed

```
 3 | //-----[ test/test_13_3.rb ]-----|
 4 | 
 5 | 00 ->L< 1.7 .00 .00 setup
 6 | 01   buffer_type memory
 7 | 02   rspec
 8 | 03   queue_name test_dqueue
 9 | 04 
10 | 05   <?xml version='1.0' encoding='UTF-8'?>
11 | 06   <!--
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351| 346  <!--
352| 347  -->
353| 348  <!--
354| 349  -->
355| 350  <!--
356| 351  -->
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365| 360  <!--
366| 361  -->
367| 362  <!--
368| 363  -->
369| 364  <!--
370| 365  -->
371| 366  <!--
372| 367  -->
373| 368  <!--
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379| 374  <!--
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381| 376  <!--
382| 377  -->
383| 378  <!--
384| 379  -->
385| 380  <!--
386| 381  -->
387| 382  <!--
388| 383  -->
389| 384  <!--
390| 385  -->
391| 386  <!--
392| 387  -->
393| 388  <!--
394| 389  -->
395| 390  <!--
396| 391  -->
397| 392  <!--
398| 393  -->
399| 394  <!--
400| 395  -->
```

85.

86

Finally Fixed

```
 00 ..-31..+11.. 00 def setup
 01   @client = stubs@S05(client, :read, :response => [101])
 02   @queue_name = "test_queue"
 03   queue_name_set_queue
 04 
 05   @queue = queue_get("test_queue")
 06 
 07   @url = "http://example.com/test_queue"
 08   test_queue_url = "http://example.com/test_queue"
 09 
 10   @mock = WebMock::NetHttpClient.new(@url, @queue)
 11   @real_polar = Aws::S3::Bucket.new(@queue_name, client: @client)
 12   @queue_ur = stubs@Polar(@queue)
 13 
 14   mock(@mock).on(@client).once(@queue_ur).as(:queue_client)
 15   real_polar = Aws::S3::Bucket.new(@queue_name, client: @queue_ur, client: @client)
 16   @queue_ur = stubs@Polar(@queue)
 17 
 18   buffer_type_memory
 19   @queue = queue_name_set_queue
 20   queue_name_set_queue_id
 21   queue_name_set_queue_id + "123456789123"
 22   1
 23 
 24   @queue = queue_get("test_queue")
 25 
 26   @queue = queue_get("test_queue")
 27 
 28   @queue = queue_get("test_queue")
 29 
 30   @queue = queue_get("test_queue")
 31 
 32   @queue = queue_get("test_queue")
 33 
 34   @queue = queue_get("test_queue")
 35 
 36   1
 37 
```

87.

88

Finally Fixed

```
 06 33 .c11< @0 def setup
 07     buffer_type memory
 08     egypt
 09     queue_name test_queue
 10
 11     queue_id test_queue_id
 12
 13     </queue>
 14
 15     1
 16
 17
 18 00 102.7 +103.7 @0 def setup_mocks
 19
 20     test_queue_url = "http://example.com/test_queue"
 21
 22     test_queue = Queue.new(test_queue_url)
 23
 24     test_queue_id = 123456789123
 25
 26     test_queue_name = "test_queue"
 27
 28     test_queue_client = Stubs::Client.new(test_queue)
 29
 30     test_queue_client.stub(:get).with(test_queue_name).and_return(test_queue)
 31
 32     test_queue_client.stub(:post).with(test_queue_name, { :queue_id => test_queue_id })
 33
 34     test_queue_client.stub(:put).with(test_queue_name, { :queue_id => test_queue_id })
 35
 36     test_queue_client.stub(:delete).with(test_queue_name, { :queue_id => test_queue_id })
 37
 38
 39     mock_stubs = Stubs::Client.new(test_queue_url)
 40     mock_stubs.stub(:get).with(test_queue_name).and_return(test_queue)
 41
 42     great_polar = Aws::SQS::Queue.new(test_queue_url, client: mock_stubs)
 43     gqas_client = Stubs::Client.new(test_queue_url)
```

80

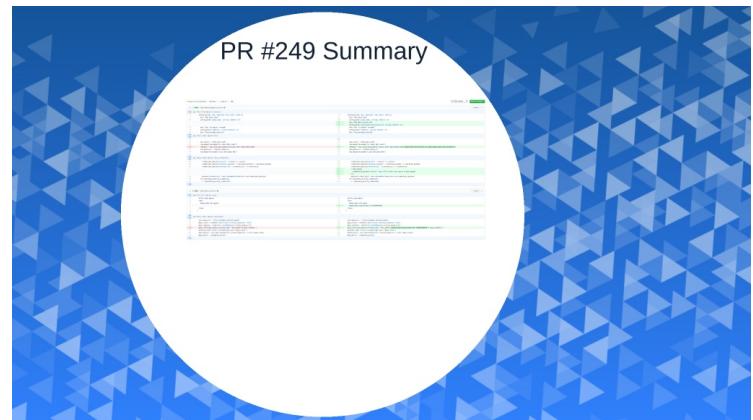
89

From Issue to PR Merged: A Fluentd "Tail"



91.

PR #249 Summary



92.

A screenshot of a code editor showing a large block of code. The code is written in a programming language, likely Python, and contains several imports and function definitions. The code is highlighted with various colors (green, red, blue) to indicate syntax errors or warnings. The interface includes standard code editor features like tabs, file navigation, and a status bar at the bottom.

93.

A screenshot of a code editor showing a large block of code. A large black circle highlights the number '8' in the center. To the right of the circle is a red 3D Ruby gem icon. The code itself is identical to the previous screenshot, showing a large block of Python-like code with syntax highlighting.

94.

A screenshot of a code editor showing a large block of code. A large black circle highlights the number '8' in the center. To the right of the circle is a red 3D Ruby gem icon. The code itself is identical to the previous screenshots, showing a large block of Python-like code with syntax highlighting.

95.

A screenshot of a code editor showing a large block of code. The code is identical to the previous screenshots, showing a large block of Python-like code with syntax highlighting.

96.

```

Viewed

config_section :sqs, required: true, multi: false do
  desc "SQS queue name"
  config_param :queue_name, :string, default: nil
  +
  desc "SQS Owner Account ID"
  config_param :queue_owner_aws_account_id, :string, default: nil
  +
  desc "Use 's3_region' instead"
  config_param :endpoint, :string, default: nil
  desc "Skip message deletion"
end

sqs_client = create_sqs_client
log.debug("Succeeded to create SQS client")
+ response = sqs_client.get_queue_url(queue_name: @sqs.queue_name, queue_owner_aws_account_id: @sqs.queue_owner_aws_account_id)
sqs_queue_url = response.queue_url
log.debug("Succeeded to get SQS queue URL")

credentials_options[:policy] = c.policy if c.policy
credentials_options[:duration_seconds] = c.duration_seconds if c.duration_seconds
credentials_options[:external_id] = c.external_id if c.external_id
+
if @s3_region
  credentials_options[:client] = Aws::STS::Client.new(region => @s3_region)
end

options[:credentials] = Aws::AssumeRoleCredentials.new(credentials_options)
when @instance_profile_credentials
  c = @instance_profile_credentials

```

97.

```

Viewed ...

+   credentials_options[:client] = Aws::STS::Client.new(:region => @s3_region)
|   end
|   options[:credentials] = Aws::AssumeRoleCredentials.new(credentials_options)
|   when @instance_profile_credentials
|     c = @instance_profile_credentials
|   end

buffer_type memory
</sqs>
queue_name test_queue
+ queue_owner_aws_account_id 123456789123
</sqs>

test_queue_url = "http://example.com/test_queue"
@sqs = Aws::SQS::Client.new(region: "us-east-1", verify_ssl: true)
@sqs_response = stubStruct(:sqsResponse, :url(test_queue_url))
mock(@sqs_client).new(anything).once { |sqs_client|
  general_poller = Aws::SQS::QueuePoller.new(test_queue_url, client: sqs_client)
  sqs_poller = stub(:real_poller)
}

```

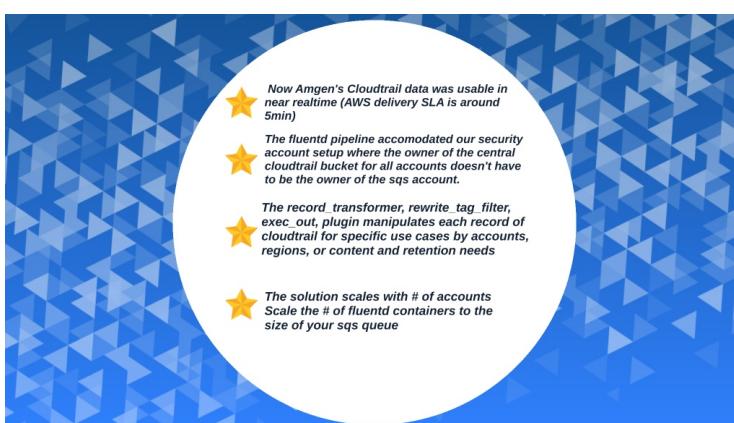
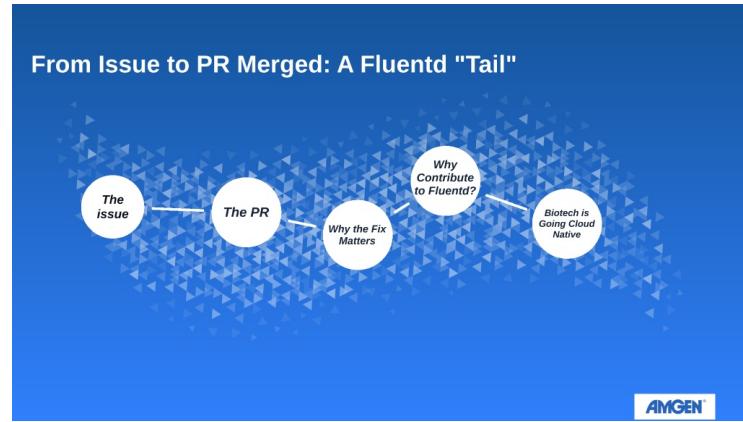
98.

repeatedly merged commit `bedc71c` into `fluent:master`
on Nov 14, 2018
2 checks passed

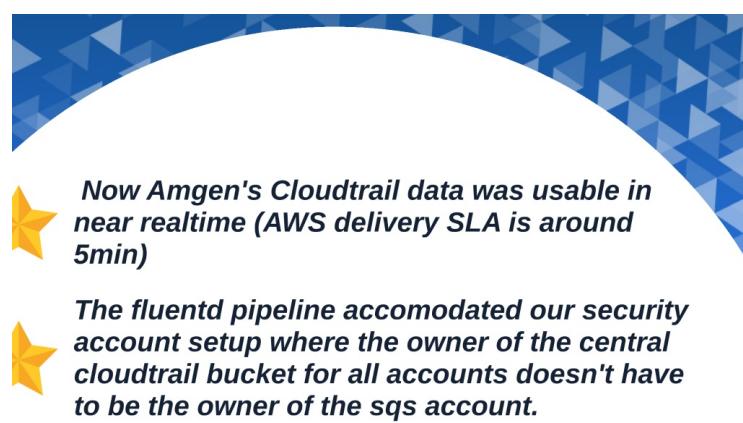
repeatedly commented on Nov 14, 2018

Merged. Thanks!

99.



101.



102.

Now Amgen's Cloudtrail data was usable in near realtime (AWS delivery SLA is around 5min)

The fluentd pipeline accomodated our security account setup where the owner of the central cloudtrail bucket for all accounts doesn't have to be the owner of the sqs account.

The record_transformer, rewrite_tag_filter, exec_out, plugin manipulates each record of cloudtrail for specific use cases by accounts,

103.

The fluentd pipeline accomodated our security account setup where the owner of the central cloudtrail bucket for all accounts doesn't have to be the owner of the sqs account.

The record_transformer, rewrite_tag_filter, exec_out, plugin manipulates each record of cloudtrail for specific use cases by accounts, regions, or content and retention needs

The solution scales with # of accounts Scale the # of fluentd containers to the size of your sqs queue

105.

```
#example config
<filter **>
  @type record_transformer
  <record>
    tag cloudtrail
  </record>
</filter>
#Configuration
<match cloudtrail>
  @type rewrite_tag_filter
  <rule>
    key s3_key
    pattern (?<=V)([0-9]+)(?=V)
    tag $1.${tag}
  </rule>
</match>

#example result: account.cloudtrail
0123456789.cloudtrail
```

The fluentd pipeline accomodated our security account setup where the owner of the central cloudtrail bucket for all accounts doesn't have to be the owner of the sqs account.

The record_transformer, rewrite_tag_filter, exec_out, plugin manipulates each record of cloudtrail for specific use cases by accounts, regions, or content and retention needs

The solution scales with # of accounts Scale the # of fluentd containers to the size of your sqs queue

104.

Now Amgen's Cloudtrail data was usable in realtime (AWS delivery SLA is around

The fluentd pipeline accomodated our security account setup where the owner of the central cloudtrail bucket for all accounts doesn't have to be the owner of the sqs account.

The record_transformer, rewrite_tag_filter, exec_out, plugin manipulates each record of cloudtrail for specific use cases by accounts, regions, or content and retention needs

The solution scales with # of accounts Scale the # of fluentd containers to the size of your sqs queue

106.

```
<filter **>
  @type grep
  <regexp>
    key message
    pattern /CreateIAMUser/
  </regexp>
  <regexp>
    key region
    pattern /eu-west-2/
  </regexp>
</filter>
<filter **>
  @type record_transformer
  <record>
    tag iam_user_create
  </record>
</filter>
```

107.

108.

```

<match iam_user_create>
@type exec
command ruby /path/to/delete_iam_user.rb
<buffer>
@type file
path /path/to/buffer_path
flush_interval 5s # for debugging/checking
</buffer>
<format>
@type json
keys s3_key,message,
</format>
</match>

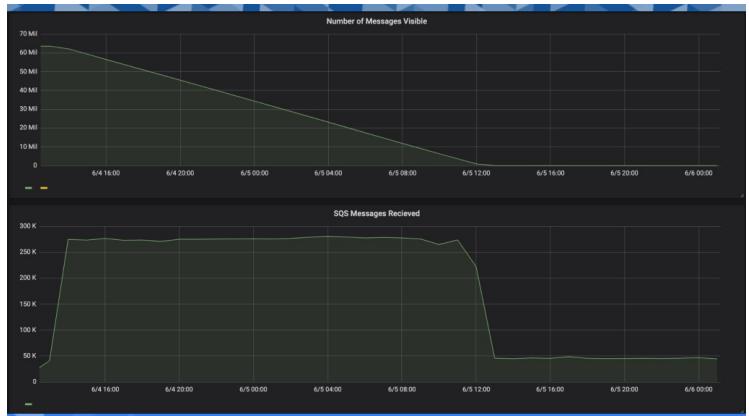
```

109.

 **clouptrail for specific use cases by accounts, regions, or content and retention needs**

 **The solution scales with # of accounts**
Scale the # of fluentd containers to the size of your sqs queue

110.



111.

112.



113.

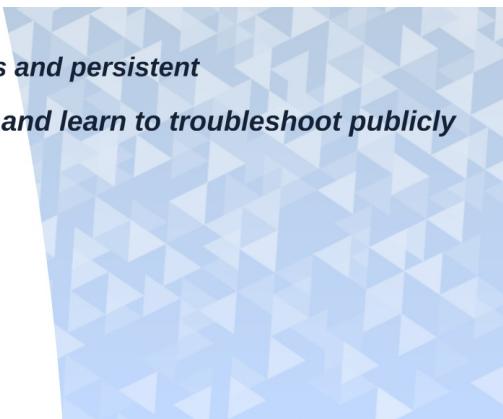
Issue + PR Takeaways

114.



115.

💡 * Stay curious and persistent



117.

💡 * Stay curious and persistent

❗ * Reach out and learn to troubleshoot publicly



119.

💡 * Stay curious and persistent

❗ * Reach out and learn to troubleshoot publicly

📝 * Plan out what you want to achieve before you start

👤 * Check contribution guidelines if available



116.

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📝 * Plan out what you want to achieve before you start



118.

💡 * Stay curious and persistent

❗ * Reach out and learn to troubleshoot publicly

📝 * Plan out what you want to achieve before you start

👤 * Check contribution guidelines if available



120.



* Search closed issues/PR's before you open them

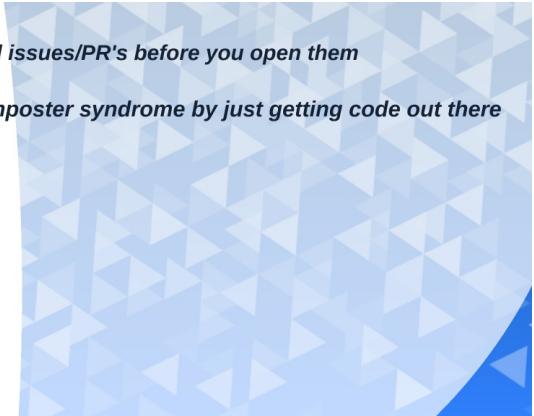


121.



* Search closed issues/PR's before you open them

</> * Overcome imposter syndrome by just getting code out there



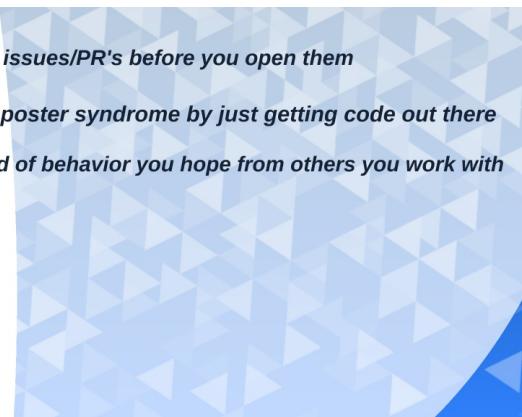
122.



* Search closed issues/PR's before you open them

</> * Overcome imposter syndrome by just getting code out there

👉 * Model the kind of behavior you hope from others you work with



123.

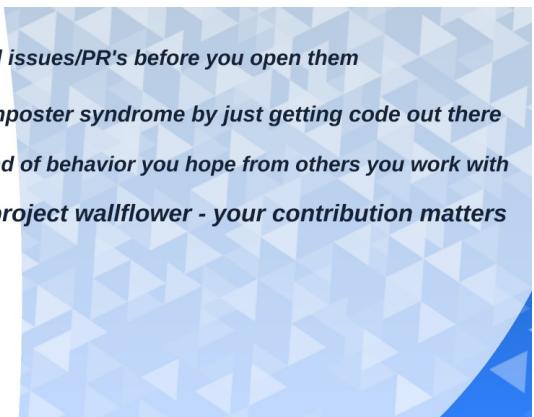


* Search closed issues/PR's before you open them

</> * Overcome imposter syndrome by just getting code out there

👉 * Model the kind of behavior you hope from others you work with

🎯 * Don't be a project wallflower - your contribution matters



124.



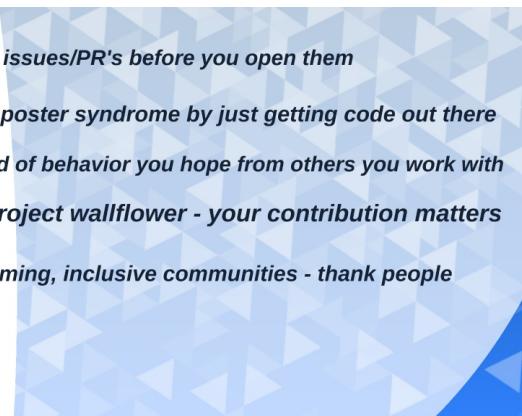
* Search closed issues/PR's before you open them

</> * Overcome imposter syndrome by just getting code out there

👉 * Model the kind of behavior you hope from others you work with

🎯 * Don't be a project wallflower - your contribution matters

🤝 * Work in welcoming, inclusive communities - thank people



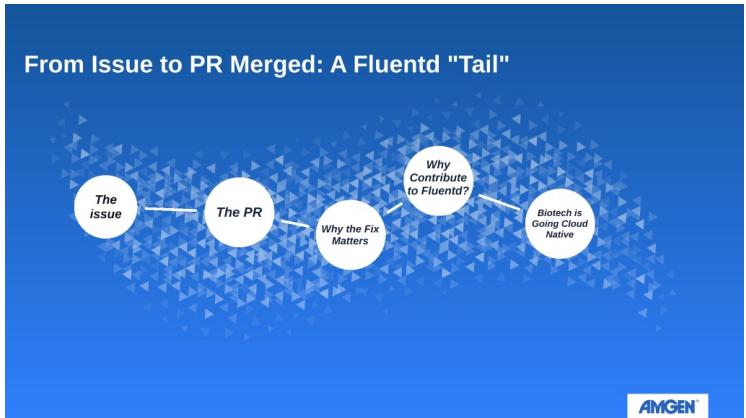
125.

Issue + PR Takeaways

- 💡 * Stay curious and persistent
- 💡 * Reach out and learn to troubleshoot publicly
- 💡 * Plan out what you want to achieve before you start
- 💡 * Check contribution guidelines if available
- 💡 * Search closed issues/PR's before you open them
- 💡 * Overcome imposter syndrome by just getting code out there
- 👉 * Model the kind of behavior you hope from others you work with
- 🎯 * Don't be a project wallflower - your contribution matters
- 🤝 * Work in welcoming, inclusive communities - thank people

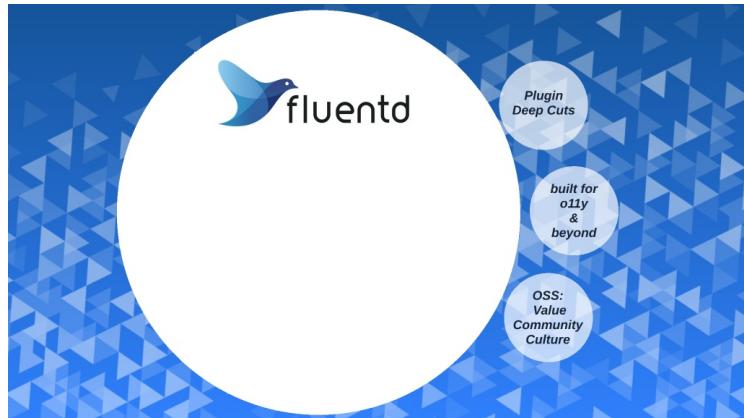
126.

From Issue to PR Merged: A Fluentd "Tail"



AMGEN

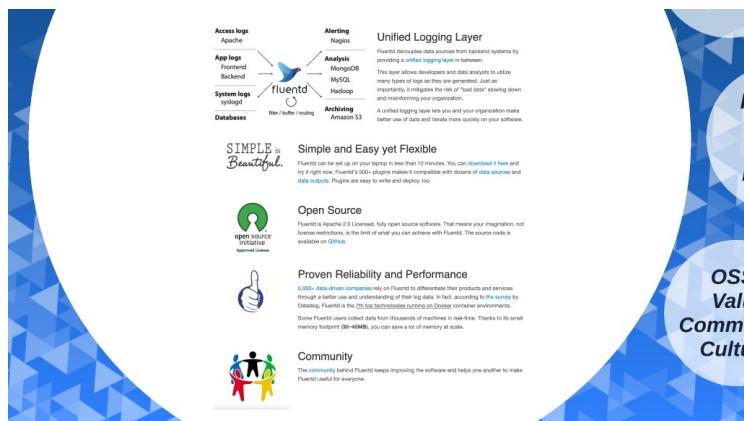
127.



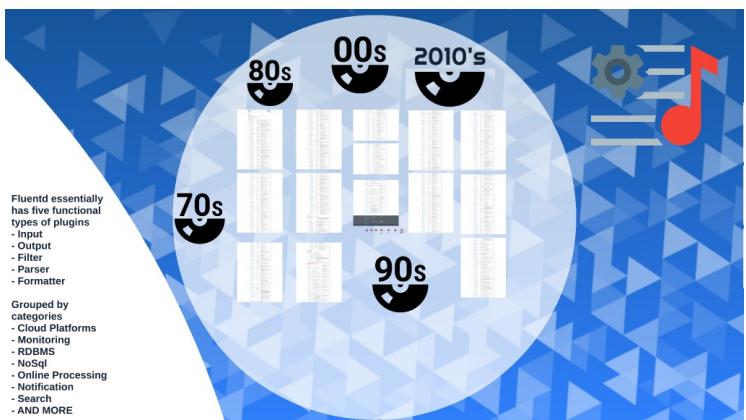
128.



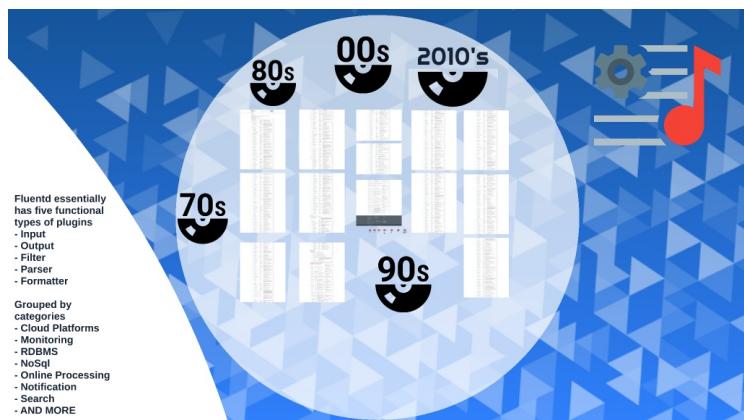
129.



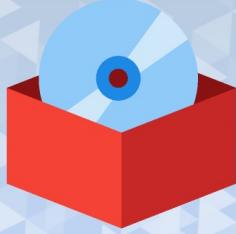
130.



131.

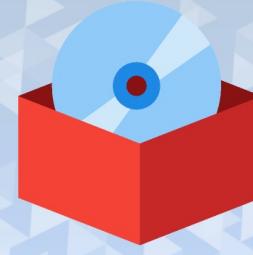


132.



```
serial-port
<source>
  @type serialport
  com_port /path/to/comport
  tag serial.sensor
  baud_rate 9600
</source>
```

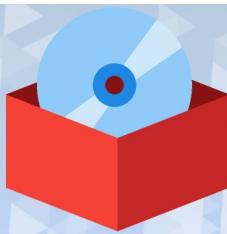
133.



```
jq
format/
parse/
output
transformer
```

mes
kafk
mqqt
amqp
kines
sqss

134.



```
messages/queues
kafka
mqqt
amqp
kinesis
sqss
gcloud-pubsub
```

135.



```
databases
clickhouse
timescaleDB
influxdb
scribe
leveldb
vertica
collectd-influxdb
```

136.



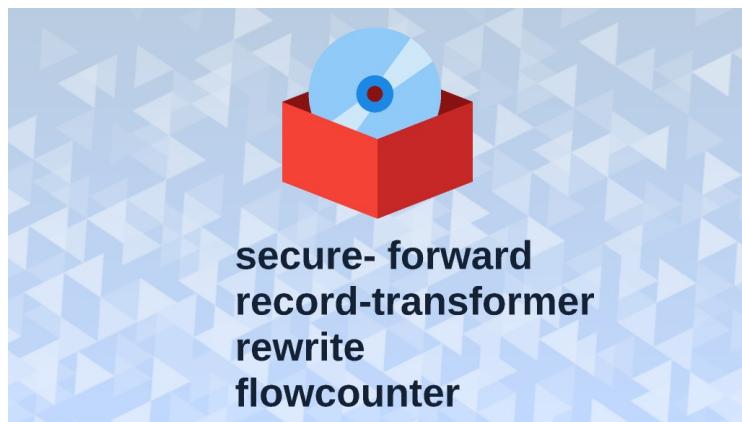
```
messaging
slack
jabber
yammer
teams
irc
```

137.

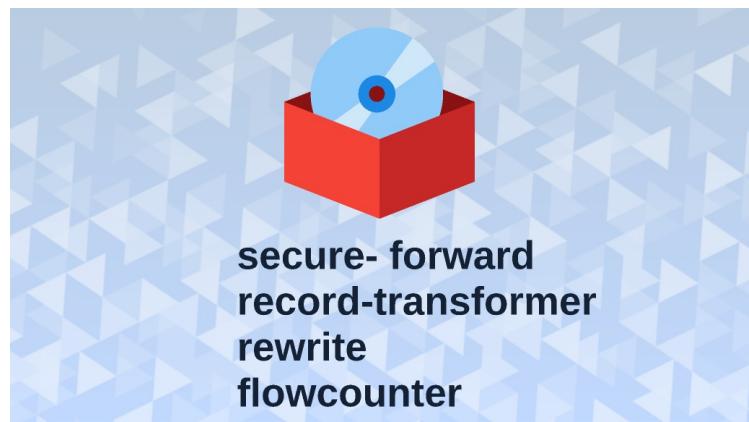


Aliyun

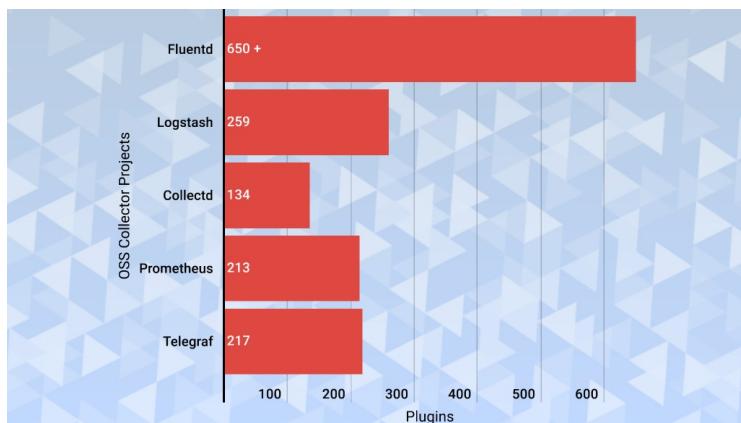
138.



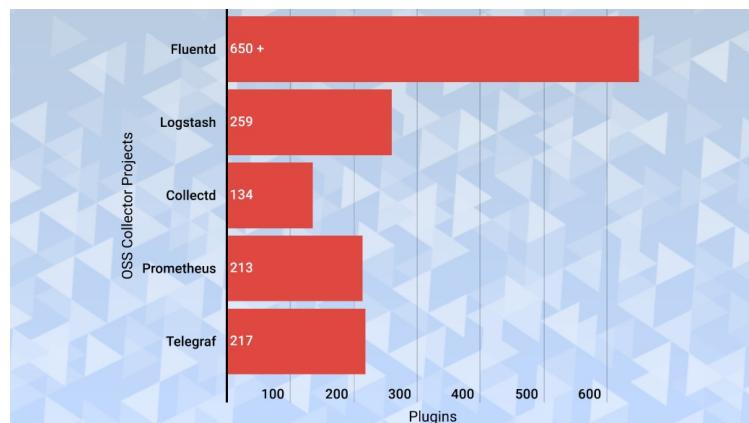
139.



140.



141.



142.

search *for name: fluent-plugin*

Advanced Search →

DISPLAYING GEMS 1 - 30 OF 990 IN TOTAL

FILTER: UPDATED LAST WEEK (16) UPDATED LAST MONTH (35)

fluent-plugin-elasticsearch 0.6.1	Elasticsearch output plugin for Fluent event collector	6,464,344	DOWNLOADS
fluent-plugin-s3 1.2.1	Amazon S3 output plugin for Fluentd event collector	4,167,105	DOWNLOADS
fluent-plugin-record-modifier 2.0.1	Filter plugin for modifying event record	3,436,504	DOWNLOADS
fluent-plugin-parser 0.6.1		2,591,680	DOWNLOADS

143.

search *for name: fluent-plugin*

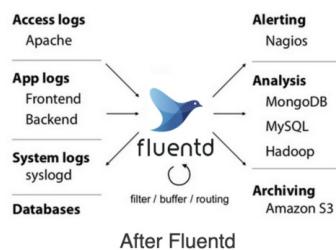
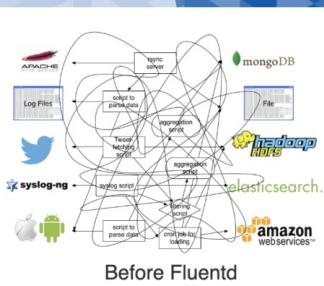
Advanced Search →

DISPLAYING GEMS 1 - 30 OF 990 IN TOTAL

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fluent-plugin-record-modifier 2.0.1	Filter plugin for modifying event record	3,436,504	DOWNLOADS
fluent-plugin-parser 0.6.1		2,591,680	DOWNLOADS

144.



Before Fluentd

After Fluentd



*fluentd has always
treated logs as
continuous events
stream*

*structure/restructure/
sample any amount
of events and high
cardinality
key:values of the
event*

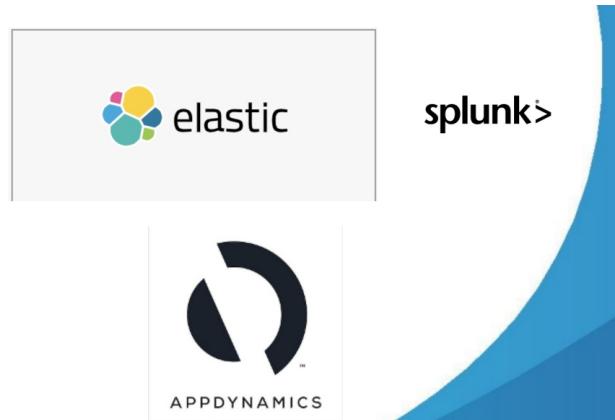
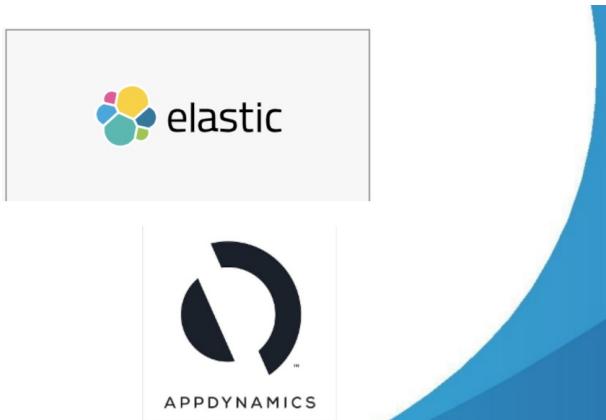


145.



147.

148.



149.

150.



151.

152.



SignalFx
a Splunk company



SignalFx
a Splunk company

153.

154.



SignalFx
a Splunk company



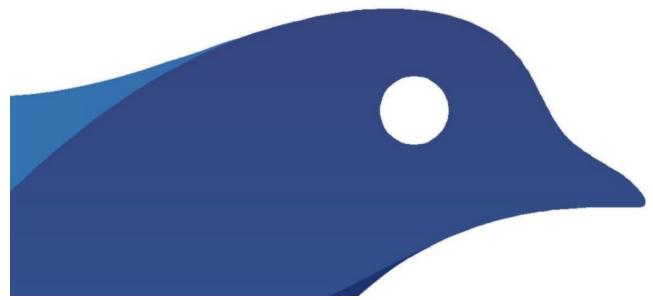
SignalFx
a Splunk company

155.

156.



157.



158.

Open Source Apache 2.0 License

As The End Users of OSS grows in the enterprise, so will the value of contributing and so contributions will be up. It's the ultimate feedback loop.

Cloud Native designs and platforms actually collapse the problem space: for talent, shared problems, need to collaborate outside to get things done at the speed of competitors.

If you need to move, mutate, store, and retrieve data, Fluentsd is a lasting & importantly loosely coupled implementation.

Approximately 90% of the plugins are community driven

Fluentd is written in Ruby. How's the performance?

The most performance sensitive parts of Fluentd are written in C. The Ruby code acts as a wrapper that provides flexibility to the overall solution. In particular, the networking layer and object serialization layer are written in C (See [cool.io](#) and [MessagePack](#), both are maintained by Fluentd maintainers too).

Since Fluentd is not written entirely in C or C++, it may be slow in its Ruby parts. But by giving up a little bit of speed, we have gained many plugins from the Ruby community :). Fluentd's performance has been put to the test at many large services; in fact, a regular PC box can handle 18,000 messages/second with a single process.

If this number is insufficient for your application, please consider other solutions which are written entirely in C-family or Java. However, please note that you will lose some flexibility as a tradeoff.

159.

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160.

From Issue to PR Merged: A Fluentd "Tail"

The Issue → **The PR** → **Why the Fix Matters** → **Why Contribute to Fluentd?** → **Blanca is Going Cloud Native**

AMGEN

161.

Cloud Native Makes Sense for Biotech

Amgen's is one of the world's largest biotech companies and their footprint spans over 120 countries - distributed teams and work drives distributed computing and networks

The FDA Likes Traceability and Reproducibility
The entire industry wants to get therapies from discovery to delivery faster and at a lower cost - without losing quality or safety

AMGEN

162.

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163.

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164.

**very faster and at a lower cost - without losing quality
ty**

**very faster and at a lower cost - without losing quality
ty**

**"At Amgen, we discover, develop and manufacture medicines to enable more moments in the lives of more people. Moments of joy, moments of friendship —moments of life. For moments like these, we innovate and we work—boldly, tirelessly and passionately to serve the ones that matter—patients.
" - Amgen.com "Our Commitment to Patients"**

165.

166.

**very faster and at a lower cost - without losing quality
ty**

**very faster and at a lower cost - without losing quality
ty**

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Thank you!
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From Issue to PR Merged: A Fluentd "Tail"



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