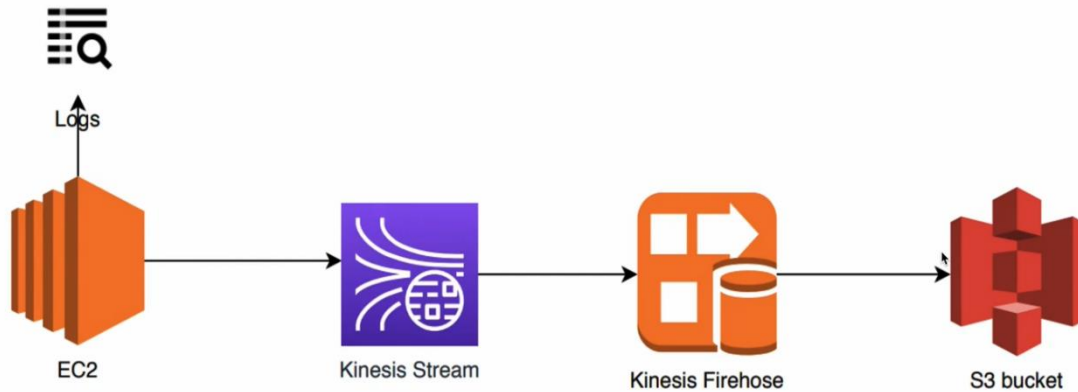


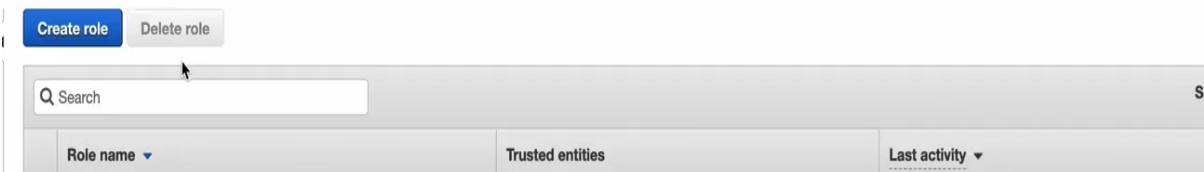
Kinesis

Configure Data Stream

The EC2 instance generated logs are put into the kinesis stream. This S3 bucket can be consumed through the Kinesis firehose to store logs.



Create role



Click to EC2

Allows AWS services to perform actions on your behalf. [Learn more](#)

Choose a use case

Common use cases

EC2

Allows EC2 instances to call AWS services on your behalf.

Select to S3

Filter policies Q s3		Showing 4 results
	Policy name	Used as
<input type="checkbox"/>	AmazonDMSRedshiftS3Role	None
<input checked="" type="checkbox"/>	AmazonS3FullAccess	Permissions policy (2)

Select to kinesis

<input type="checkbox"/>	AmazonKinesisFirehoseReadOnlyAccess	None
<input checked="" type="checkbox"/>	AmazonKinesisFullAccess	Permissions policy (2)
<input type="checkbox"/>	AmazonKinesisReadOnlyAccess	None

Kinesis

Enter name

Review

Provide the required information below and review this role before you create it.

Role name*
Use alphanumeric and '+,=, @, _' characters. Maximum 64 characters.

Role description
Maximum 1000 characters. Use alphanumeric and '+,=, @, _' characters.

Trusted entities AWS service: ec2.amazonaws.com

Policies  [AmazonS3FullAccess](#)  [AmazonKinesisFullAccess](#)

Permissions boundary Permissions boundary is not set

Successfully create

✓ The role **kinesis-demo** has been created.

Create role

Delete role

Q Search

Showing 3 results

Create Add user

Add user

Delete user

Q Find users by username or access key

Configure

Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name*

 [Add another user](#)

Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

- Access type*** ☒ **Programmatic access**
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.
- ☐ **AWS Management Console access**
Enables a **password** that allows users to sign-in to the AWS Management Console.

Kinesis

Create group

Add user to group

Create group

Refresh

Search

Showing 2 results

Create policy

Group name kinesis-demo

Create policy

Refresh

Filter policies

Search s3

Showing 4 results

	Policy name	Type	Used as	Description
<input type="checkbox"/>	AmazonDMSRedshiftS3Role	AWS managed	None	Provides access to manage S3 settings for Redshift endpoints for DMS.
<input checked="" type="checkbox"/>	AmazonS3FullAccess	AWS managed	Permissions policy (3)	Provides full access to all buckets via the AWS Management Console.
<input type="checkbox"/>	AmazonS3ReadOnlyAccess	AWS managed	None	Provides read only access to all buckets via the AWS Management Console.
<input checked="" type="checkbox"/>	AmazonKinesisFullAccess	AWS managed	Permissions policy (3)	Provides full access to all streams via the AWS Management Console.
<input type="checkbox"/>	AmazonKinesisReadOnlyAccess	AWS managed	None	Provides read only access to all streams via the AWS Management Console.

Create successfully and download .csv file



Success

You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: <https://238770498196.signin.aws.amazon.com/console>

Download .csv

User	Access key ID	Secret access key
<input checked="" type="checkbox"/> kinesis-demo	AKIATPF6UVKKBDB6CLOD	***** Show

Create EC2

Launch Instance

Connect

Actions

Filter by tags and attributes or search by keyword

You do not have any running instances in this region.

Assign Role

Placement group

☐ Add instance to placement group

Capacity Reservation

Open

Create new Capacity Reservation

IAM role

None

kinesis-demo

Create new IAM role

Shutdown behavior

Stop

Create successfully

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key
	i-0986fa478a7559738	t2.micro	us-east-1e	pending	Initializing	None	ec2-3-84-222-83.comp...	3.84.222.83	-	kine

Kinesis open

kinesis

Kinesis

Work with Real-Time Streaming Data

Select kinesis data streams

Amazon Kinesis

Easily collect, process, and analyze data streams in real time.

Get started

- ☒ **Kinesis Data Streams**
Collect streaming data with a data stream.
- ☐ **Kinesis Data Firehose**
Process and deliver streaming data with data delivery stream.
- ☐ **Kinesis Data Analytics**
Analyze streaming data with data analytics application.

Create data stream

Enter name and enter shard count

Data stream configuration

Data stream name

kinesis-demo

Acceptable characters are uppercase and lowercase letters, numbers, underscores, hyphens and periods.

Data stream capacity [Info](#)

[Request limit increase](#)

Data records are stored in Kinesis Data Stream. A shard is a uniquely identified sequence of data records in a stream.

► Shard estimator

Number of open shards

Each shard ingests up to 1 MiB/second and 1000 records/second and emits up to 2 MiB/second.

1

Minimum: 1, Maximum: 500, Account limit: 500.

Total data stream capacity

Total data stream capacity is calculated based on the number of shards entered above.

Write

1 MiB/second, 1000 Data records/second

Read

2 MiB/second

Cancel

Create data stream

Create successfully

Amazon Kinesis > Data streams > kinesis-demo

kinesis-demo [Info](#)

Delete

Stream details

Status
Active

ARN
arn:aws:kinesis:us-east-1:238770498196:stream/kinesis-demo

Create Kinesis Data Firehose for pushing log to S3

Analytics

Amazon Kinesis

Easily collect, process, and analyze data streams in real time.

Get started

- ☐ Kinesis Data Streams
Collect streaming data with a data stream.
- ☒ Kinesis Data Firehose
Process and deliver streaming data with data delivery stream.
- ☐ Kinesis Data Analytics
Analyze streaming data with data analytics application.

Create delivery stream

Enter name

Delivery stream name

kinesis-firehose-demo

Acceptable characters are uppercase and lowercase letters, numbers, underscores, hyphens, and periods.

Select source

Source

To learn about enabling server-side encryption (SSE), see [Data Protection in Amazon Kinesis Data Firehose](#).

- ☐ Direct PUT or other sources
Choose this option to send records directly to the delivery stream, or to send records from AWS IoT, CloudWatch Logs, or CloudWatch Events.
- ☒ Kinesis Data Stream

Kinesis data stream

kinesis-demo



Create new

View [kinesis-demo](#) in Kinesis data streams



Enable server-side encryption (SSE)

To enable SSE for the delivery stream, view the data stream selected above, and enable SSE on it. If you choose Direct PUT or other data sources for your delivery stream, you can enable SSE on the delivery stream directly.

Cancel

Next

Kinesis

Configuration as it is

Transform source records with AWS Lambda

To return records from AWS Lambda to Kinesis Data Firehose after transformation, the Lambda function you invoke must be compliant with the required record transformation output model. [Learn more](#)

Data transformation

- ☒ Disabled
☐ Enabled

Convert record format

Data in Apache Parquet or Apache ORC format is typically more efficient to query than JSON. Kinesis Data Firehose can convert your JSON-formatted source records using a schema from a table defined in [AWS Glue](#). For records that aren't in JSON format, create a Lambda function that converts them to JSON in the **Transform source records with AWS Lambda** section above. [Learn more](#)

Record format conversion

- ☒ Disabled
☐ Enabled

If record format conversion is enabled, Kinesis Data Firehose can deliver data to Amazon S3 only. Record format conversion will be configured using the OpenX JSON SerDe. For other options use the [AWS CLI](#).

Cancel

Previous

Next

Push data

Destination

- ☒ **Amazon S3**
Amazon S3 is an easy-to-use object storage, with a simple web service interface to store and retrieve any amount of data from anywhere on the web.
- ☐ **Amazon Redshift**
Amazon Redshift is a fast, fully managed, petabyte-scale data warehouse that makes it simple and cost effective to analyze all your data using your existing business intelligence tools
- ☐ **Amazon Elasticsearch Service**
Elasticsearch is an open-source search and analytics engine for use cases such as log analytics, real-time application monitoring, and click stream analytics
- ☐ **Splunk**
Splunk is an operational intelligence tool for analyzing machine-generated data in real-time

Click create new bucket

S3 destination

Choose a destination in Amazon S3 where your data will be stored. Amazon S3 is object storage built to store and retrieve any amount of data from anywhere. [Learn more](#)

S3 bucket

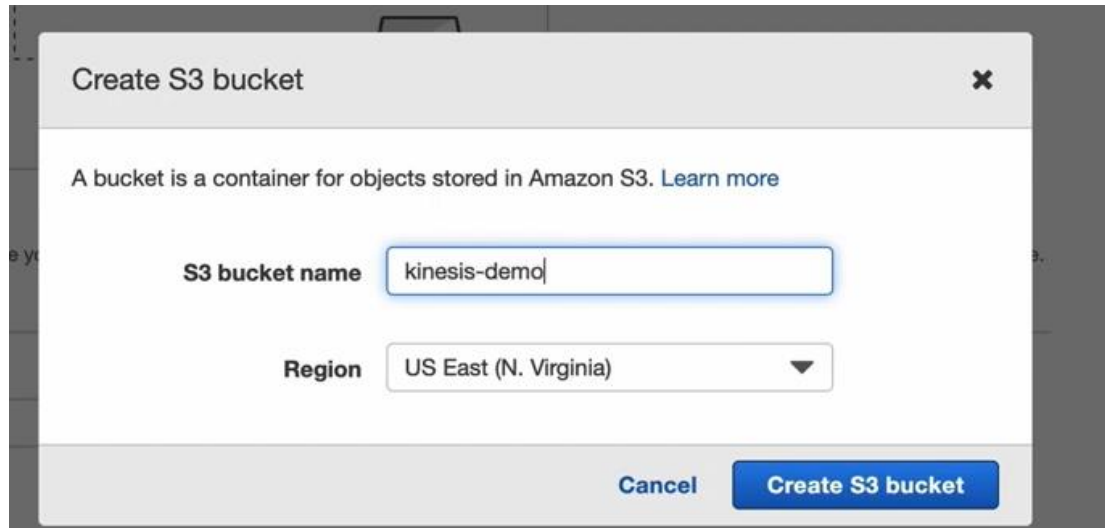
Choose a bucket



Create new

S3 prefix

Create



Create S3 bucket

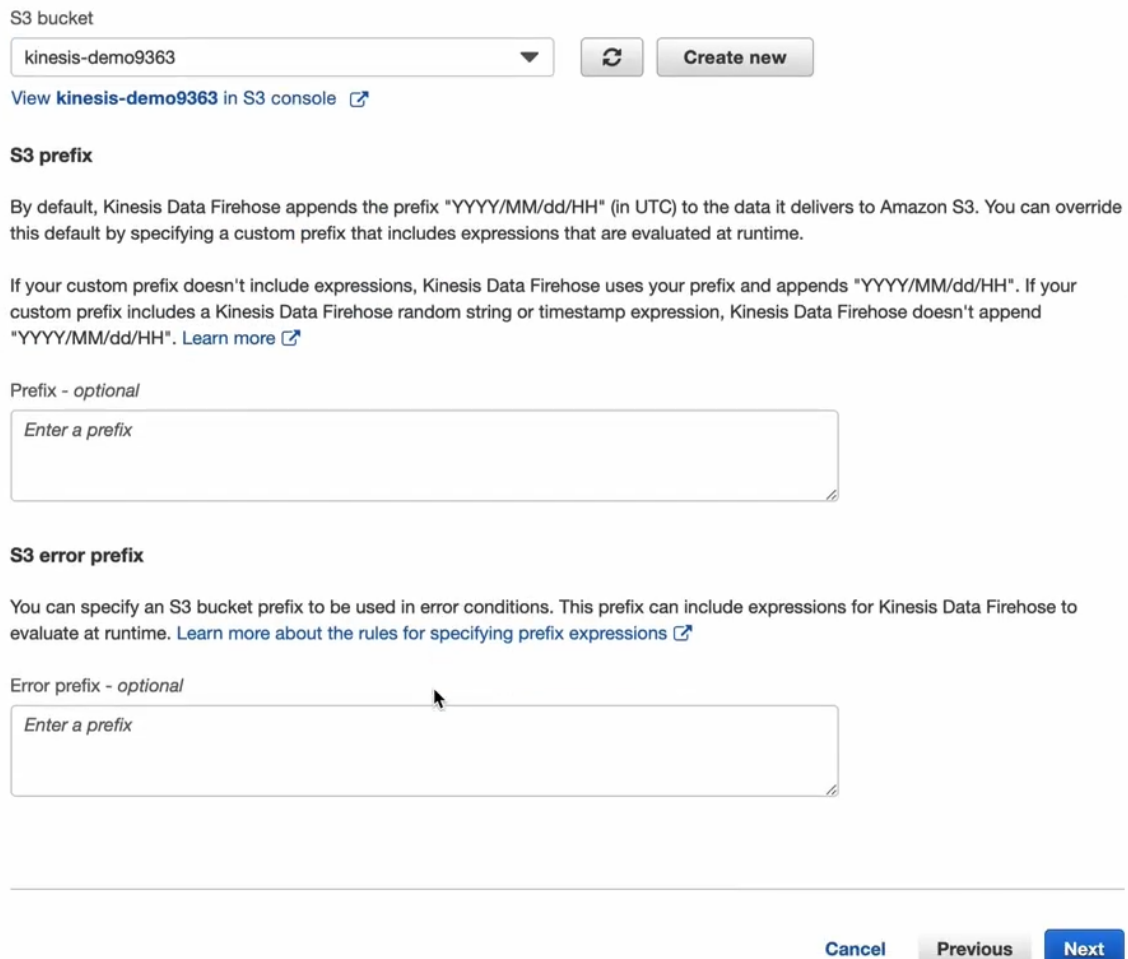
A bucket is a container for objects stored in Amazon S3. [Learn more](#)

S3 bucket name

Region

[Cancel](#) [Create S3 bucket](#)

next



S3 bucket

[Create new](#) [View kinesis-demo9363 in S3 console](#)

S3 prefix

By default, Kinesis Data Firehose appends the prefix "YYYY/MM/dd/HH" (in UTC) to the data it delivers to Amazon S3. You can override this default by specifying a custom prefix that includes expressions that are evaluated at runtime.

If your custom prefix doesn't include expressions, Kinesis Data Firehose uses your prefix and appends "YYYY/MM/dd/HH". If your custom prefix includes a Kinesis Data Firehose random string or timestamp expression, Kinesis Data Firehose doesn't append "YYYY/MM/dd/HH". [Learn more](#)

Prefix - optional

S3 error prefix

You can specify an S3 bucket prefix to be used in error conditions. This prefix can include expressions for Kinesis Data Firehose to evaluate at runtime. [Learn more about the rules for specifying prefix expressions](#)

Error prefix - optional

[Cancel](#) [Previous](#) [Next](#)

Select as you required

S3 buffer conditions

Kinesis Data Firehose buffers incoming records before delivering them to your S3 bucket. Record delivery will be triggered once either of these conditions has been satisfied. [Learn more](#)

Buffer size

MiB

Enter a buffer size between 1-128 MiB

Buffer interval

seconds

Enter a buffer interval between 60-900 seconds

S3 compression and encryption

Kinesis Data Firehose can compress records before delivering them to your S3 bucket. Compressed records can also be encrypted in the S3 bucket using a KMS master key. [Learn more](#)

S3 compression

- ☒ Disabled
- ☐ GZIP
- ☐ Snappy
- ☐ Zip
- ☐ Hadoop-Compatible Snappy

S3 encryption

- ☒ Disabled
- ☐ Enabled

create

Error logging

- ☐ Disabled
- ☒ Enabled

Tags - optional

You can add tags to organize your AWS resources, track costs, and control access. [Learn more](#)

Key

Value - optional

Remove tag

Add tag

You can add 49 more tag(s)

Permissions

IAM role

Kinesis Data Firehose uses this IAM role for all the permissions that the delivery stream needs. To specify different roles for the different permissions, use the API or the CLI. [Learn more](#)

- ☒ Create or update IAM role **KinesisFirehoseServiceRole-kinesis-fireh-us-east-1-1593249439408**
This creates the role or updates it if it already exists, adds the required policies to it, and enables Kinesis Data Firehose to assume it.
- ☐ Choose existing IAM role
The role that you choose must have policies that include the permissions that Kinesis Data Firehose needs.

Cancel

Previous

Next

review

Kinesis Data Firehose - Create delivery stream

- Step 1: Name and source
- Step 2: Process records
- Step 3: Choose a destination
- Step 4: Configure settings
- Step 5: Review**

Review

Review your configuration details before creating your delivery stream.

Name and source

Edit

Delivery stream name

Created

Kinesis Data Firehose delivery streams

Kinesis Data Firehose delivery streams continuously collect, transform, and load streaming data into the destinations that you specify.

Successfully created delivery stream kinesis-firehose-demo

Test with demo data Delete Create delivery stream

Find delivery streams

Name	Status	Creation time	Source	Data transformation	Destination
kinesis-firehose-demo	Active	2020-06-27T02:19-0700	kinesis-demo	Disabled	Amazon S3 kinesis-demo9363

Copy to link and connect

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance type
i-0986fa478a7559738	t2.micro	

Instance: i-0986fa478a7559738 Public DNS: ec2-3-84-222-83.compute-1.amazonaws.com

Description Status Checks Monitoring

Instance ID i-0986fa478a7559738
Instance state running
Instance type t2.micro
Finding Opt-in to AWS Com...
Private DNS ip-172-31-58-115.ec2.amazonaws.com
Private IPs 172.31.58.115
Secondary private IPs
VPC ID vpc-0b0e2771
Subnet ID subnet-f03717ce
Network interfaces eth0
IAM role kinesis-demo
Key pair name kinesis-demo1

Connect to your instance

Connection method

- ☒ A standalone SSH client
- ☐ Session Manager
- ☐ EC2 Instance Connect (browser-based SSH connection)

To access your instance:

1. Open an SSH client. (find out how to connect using PuTTY)
2. Locate your private key file (kinesis-demo1.pem). The wizard automatically detects the key you used to launch the instance.
3. Your key must not be publicly viewable for SSH to work. Use this command if needed:


```
chmod 400 kinesis-demo1.pem
```
4. Connect to your instance using its Public DNS:


```
ec2-3-84-222-83.compute-1.amazonaws.com
```

Example:

```
ssh -i "kinesis-demo1.pem" ec2-user@ec2-3-84-222-83.compute-1.amazonaws.com
```

Please note that in most cases the username above will be correct, however please ensure that you read your AMI usage instructions to ensure that the AMI owner has not changed the default AMI username.

If you need any assistance connecting to your instance, please see our connection documentation.

Close

connected

Kinesis

```
Manishs-MBP:KINESIS msingh$ ssh -i "kinesis-demo1.pem" ec2-user@ec2-3-84-222-83.compute-1.amazonaws.com
The authenticity of host 'ec2-3-84-222-83.compute-1.amazonaws.com (3.84.222.83)' can't be established.
ECDSA key fingerprint is SHA256:gQxPWMOFQ1WE5b369jducoDyAUPDRjUtXMc37djmGsY.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-3-84-222-83.compute-1.amazonaws.com,3.84.222.83' (ECDSA) to the list of known hosts.
```

```
__|  __|_ )
_| (  _/  Amazon Linux 2 AMI
---\_____|
```

```
https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 10 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-58-115 ~]$ sudo su
[root@ip-172-31-58-115 ec2-user]#
```

Install kinesis agent

aws kinesis agent install



All

News

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More

Settings

Tools

About 98,500 results (0.37 seconds)

docs.aws.amazon.com › firehose › latest › dev › writin...

Writing to Kinesis Data Firehose Using Kinesis Agent - AWS ...

You can install the agent on Linux-based server environments such as web servers, log servers, and database servers. After installing the agent, configure it by ...

Credentials · Download and Install the ... · Agent Configuration Settings

You've visited this page 3 times. Last visit: 6/19/20

Copy and paste EC2

Use the following command to download and install the latest version of the agent:

```
sudo yum install -y https://s3.amazonaws.com/streaming-data-agent/aws-kinesis-agent-latest.amzn1.noarch.rpm
```

To install a specific version of the agent, specify the version number in the command. For example, the following command installs version 1.1.4

INSTALL

```
[root@ip-172-31-58-115 etc]# sudo yum install -y https://s3.amazonaws.com/streaming-data-agent/aws-kinesis-agent-latest.amzn1.noarch.rpm
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
aws-kinesis-agent-latest.amzn1.noarch.rpm
Examining /var/tmp/yum-root-2z80PF/aws-kinesis-agent-latest.amzn1.noarch.rpm: aws-kinesis-agent-1.1.5-1.amzn1.noarch
Marking /var/tmp/yum-root-2z80PF/aws-kinesis-agent-latest.amzn1.noarch.rpm to be installed
Resolving Dependencies
--> Running transaction check
--> Package aws-kinesis-agent.noarch 0:1.1.5-1.amzn1 will be installed
--> Processing Dependency: java >= 1:1.7.0 for package: aws-kinesis-agent-1.1.5-1.amzn1.noarch
```

Create aws-kinesis

```
drwxr-xr-x 3 root root      56 Jun 27 09:27 aws-kinesis
drwxr-xr-x 5 root root    4096 Jun 27 09:27 sysconfig
drwxr-xr-x 2 root root      98 Jun 27 09:27 cron.d
[root@ip-172-31-58-115 etc]# cd aws-kinesis/
[root@ip-172-31-58-115 aws-kinesis]#
```

Auto create

```
[root@ip-172-31-58-115 aws-kinesis]# ls -lrt
total 8
-rw-r--r-- 1 root root 1334 Apr 23 22:49 log4j.xml
-rw-r--r-- 1 root root 338 Apr 23 22:49 agent.json
drwxr-xr-x 2 root root   6 Apr 23 22:49 agent.d
[root@ip-172-31-58-115 aws-kinesis]#
```

Kinesis

Create DIR

```

-rw-r--r-- 1 root root 80252 Jun 27 09:29 messages
[root@ip-172-31-58-115 log]# mkdir weather

```

CREATE GROUP AND CHANGE OWN TO DIR

```
[root@ip-172-31-58-115 log]# sudo groupadd weather
[root@ip-172-31-58-115 log]# sudo usermod -a -G weather ec2-user
[root@ip-172-31-58-115 log]# exit
exit
[ec2-user@ip-172-31-58-115 ~]$ exit
logout
Connection to ec2-3-84-222-83.compute-1.amazonaws.com closed.
Manishs-MBP:KINESIS msingh$ ssh -i "kinesis-demo1.pem" ec2-user@ec2-3-84-222-83.compute-1.amazonaws.com
Last login: Sat Jun 27 09:21:23 2020 from cpe-75-83-87-39.social.res.rr.com
```

```

--|  --|  )
_| (  /
---|\---|

```

Amazon Linux 2 AMI

```
https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 10 available
Run "sudo yum update" to apply all updates.
[[ec2-user@ip-172-31-58-115 ~]$ cd /var
```

```
[ec2-user@ip-172-31-58-115 var]$ cd log
```

```
[ec2-user@ip-172-31-58-115 log]$ groups
ec2-user adm wheel systemd-journal weather
[ec2-user@ip-172-31-58-115 log]$ sudo chown -R root:weather /var/log/weather
[ec2-user@ip-172-31-58-115 log]$ sudo chmod 2775 /var/log/weather
[ec2-user@ip-172-31-58-115 log]$
```

send template data local system to EC2

```
Manishs-MBP:KINESIS msingh$ scp -i "kinesis-demo1.pem" /Users/msingh/AWS/KINESIS/agent_template.txt ec2-user@ec2-3-84-222-83.compute-1.amazonaws.com:/var/log/weather
agent_template.txt
Manishs-MBP:KINESIS msingh$
```

In template file

```

"cloudwatch.emitMetrics": true,
"kinesis.endpoint": "",
"firehose.endpoint": "",

"awsAccessKeyId": "AKIATPF6UVKKBD6CLOD",
"awsSecretAccessKey": "eUznON3uKKIknY6lZ4YCubc125CL+GqLQHc7JDTB",

"flows": [
  {
    "filePattern": "/var/log/weather/*.log",
    "kinesisStream": "kinesis-demo",
    "partitionKeyOption": "RANDOM",
    "dataProcessingOptions": [
      {
        "optionName": "CSVTOJSON",
        "customFieldNames": ["Region", "Country", "State", "City", "Month", "Day", "Year", "AvgTemperature"]
      }
    ]
  }
]
}
}

```

First delete json file

```
[ec2-user@ip-172-31-58-115 weather]$ cd /etc/aws-kinesis/
[ec2-user@ip-172-31-58-115 aws-kinesis]$ ls -lrt
total 8
-rw-r--r-- 1 root root 1334 Apr 23 22:49 log4j.xml
-rw-r--r-- 1 root root 338 Apr 23 22:49 agent.json
drwxr-xr-x 2 root root 6 Apr 23 22:49 agent.d
[ec2-user@ip-172-31-58-115 aws-kinesis]$ rm -f agent.json
rm: cannot remove 'agent.json': Permission denied
[ec2-user@ip-172-31-58-115 aws-kinesis]$ sudo rm -f agent.json
[ec2-user@ip-172-31-58-115 aws-kinesis]$
```

Kinesis

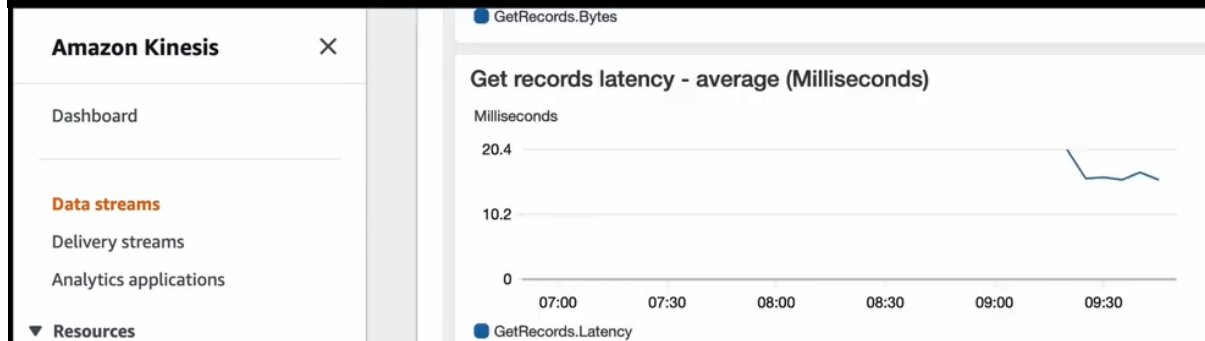
Move file to json

```
[ec2-user@ip-172-31-58-115 aws-kinesis]$ sudo mv /var/log/weather/agent_template.txt /etc/aws-kinesis/agent.json
[ec2-user@ip-172-31-58-115 aws-kinesis]$ ls -lrt
total 8
-rw-r--r-- 1 root    root    1334 Apr 23 22:49 log4j.xml
drwxr-xr-x 2 root    root     6 Apr 23 22:49 agent.d
-rw-rw-r-- 1 ec2-user weather 592 Jun 27 09:45 agent.json
```

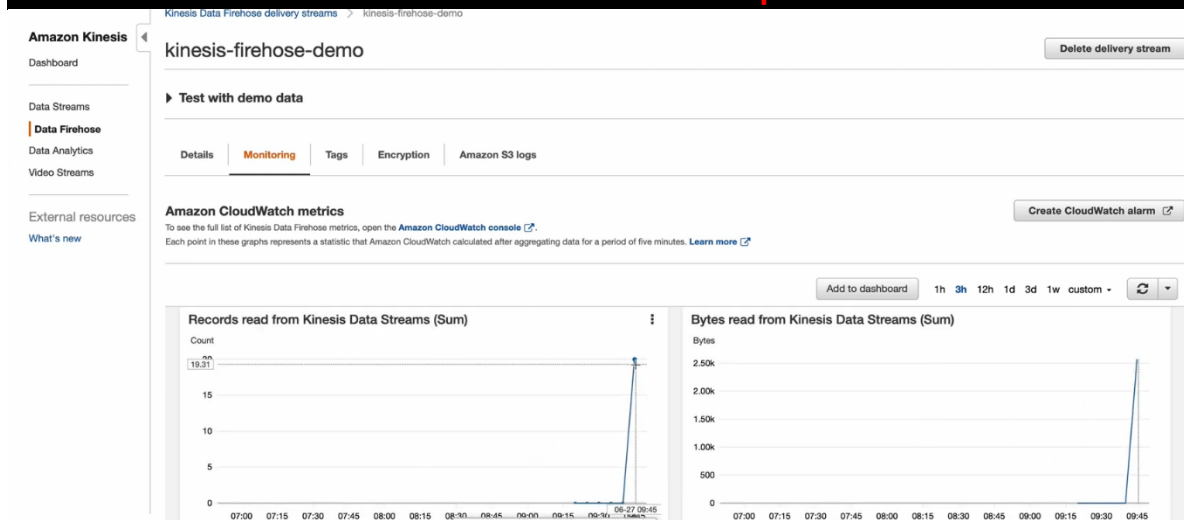
Start services

```
[ec2-user@ip-172-31-58-115 aws-kinesis]$ sudo service aws-kinesis-agent start
Starting aws-kinesis-agent (via systemctl): [ OK ]
[ec2-user@ip-172-31-58-115 aws-kinesis]$
```

Check data steam



Check data firehouse to push



Check S3 BUCKET

Amazon S3 > kinesis-demo9363 > 2020 > 06 > 27 > 09

kinesis-demo9363

Overview

Q Type a prefix and press Enter to search. Press ESC to clear.

Upload Create folder Download Actions

US East (N. Virginia)

Viewing 1 to 1

Name	Last modified	Size	Storage class
kinesis-firehose-demo-2020-06-27-09-50-16-e7771ed8-6237-43e4-a1bd-800cc3b9648d	Jun 27, 2020 2:51:18 AM GMT-0700	2.5 KB	Standard

Viewing 1 to 1

CHECK download file

aws s3 console

Amazon S3

kinesis-firehose-demo-1-2020-06-27-09-50-16-e7771ed6-8237-43e4-a1bd-800cc3b9648d

Overview

Open

Owner
manish6189

Last modified
Jun 27, 2020 2:51:18 AM GMT-0700

Etag
aa54fe23f8617f42b624d603cf6ff26e

Storage class
Standard

Server-side encryption
None

Size
2.5 KB

Key
2020/06/27/09/kinesis-firehose-demo-1-2020-06-27-09-50-16-e7771ed6-8237-43e4-a1bd-800cc3b9648d

Object URL
<https://kinesis-demo9363.s3.amazonaws.com/2020/06/27/09/kinesis-firehose-demo-1-2020-06-27-09-50-16-e7771ed6-8237-43e4-a1bd-800cc3b9648d>

```
{
  "Region": "Africa", "Country": "Algeria", "State": "", "City": "Algiers", "Month": "1", "Day": "1", "Year": "1995", "AvgTemperature": "64.2"},
  {"Region": "Africa", "Country": "Algeria", "State": "", "City": "Algiers", "Month": "1", "Day": "2", "Year": "1995", "AvgTemperature": "49.4"},
  {"Region": "Africa", "Country": "Algeria", "State": "", "City": "Algiers", "Month": "1", "Day": "3", "Year": "1995", "AvgTemperature": "48.8"},
  {"Region": "Africa", "Country": "Algeria", "State": "", "City": "Algiers", "Month": "1", "Day": "4", "Year": "1995", "AvgTemperature": "46.4"},
  {"Region": "Africa", "Country": "Algeria", "State": "", "City": "Algiers", "Month": "1", "Day": "5", "Year": "1995", "AvgTemperature": "47.9"},
  {"Region": "Africa", "Country": "Algeria", "State": "", "City": "Algiers", "Month": "1", "Day": "6", "Year": "1995", "AvgTemperature": "48.7"},
  {"Region": "Africa", "Country": "Algeria", "State": "", "City": "Algiers", "Month": "1", "Day": "7", "Year": "1995", "AvgTemperature": "48.9"},
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  {"Region": "Africa", "Country": "Algeria", "State": "", "City": "Algiers", "Month": "1", "Day": "9", "Year": "1995", "AvgTemperature": "49.0"},
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