

kinesisi

Console Home | Console Home X +

ap-south-1.console.aws.amazon.com/console/home?nc2=h_ct®ion=ap-south-1&src=header-signin#

Services Search [Alt+S] Mumbai kareemullah1234

Console Home Info

Reset to default layout + Add widgets

Recently visited Info

-  EC2
-  Billing and Cost Management
-  IAM
-  Elastic Kubernetes Service
-  Storage Gateway
-  AWS Billing Conductor
-  AWS Health Dashboard

[View all services](#)

Applications Info

Region: Asia Pacific (Mumbai)

Create application

-  AWS Glue
-  Lambda
-  Amazon Simple Email Service
-  RDS



Services

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Global ▾

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Identity and Access Management (IAM)

Search IAM

Dashboard

▼ Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

▼ Access reports

Access Analyzer

External access

IAM > Dashboard

IAM Dashboard

Security recommendations 1

⚠ Add MFA for root user

Add MFA for root user - Enable multi-factor authentication (MFA) for the root user to improve security for this account.

Add MFA

✔ Root user has no active access keys

Using access keys attached to an IAM user instead of the root user improves security.

IAM resources

Resources in this AWS Account

User groups

Users

Roles

Policies

Identity providers

0

0

2

0

0

CloudShell

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BIG_DATA_S...

kafka



25-mar-24...

Command ...

Dashboard |...

kinesis.pptx...



ENG

18:46





Services

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IAM resources

Resources in this AWS Account

User groups

0

Users

0

Roles

2

Policies

0

Identity providers

0

What's new

Updates for features in IAM

[View all](#)

- AWS IAM Access Analyzer now offers policy checks for public and critical resource access. 3 months ago
- AWS IAM Access Analyzer now offers recommendations to refine unused access. 3 months ago



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Identity and Access Management (IAM)

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IAM > Roles

Roles (2) Info

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Search

< 1 >

Role name

▲ Trusted entities

[AWSServiceRoleForSupport](#)

AWS Service: support (Service-Linked)

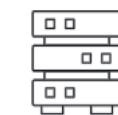
[AWSServiceRoleForTrustedAdvisor](#)

AWS Service: trustedadvisor (Service-Linked)

Roles Anywhere Info

Authenticate your non AWS workloads and securely provide access to AWS services.

Manage





Step 3

Name, review, and create

 AWS service

Allow AWS services like EC2, Lambda, or others to perform actions in this account.

 AWS account

Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

 Web identity

Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.

 SAML 2.0 federation

Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

 Custom trust policy

Create a custom trust policy to enable others to perform actions in this account.

Use case

Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Service or use case

Choose a service or use case

aws east 1.console.aws.amazon.com/iam/home#region=us-east-1/roles/create

aws Services Search [Alt+S] Global kareemullah1

Create a custom trust policy to enable others to perform actions in this account.

Use case

Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Service or use case

EC2 ▾

Choose a use case for the specified service.

Use case

EC2
Allows EC2 instances to call AWS services on your behalf.

EC2 Role for AWS Systems Manager
Allows EC2 instances to call AWS services like CloudWatch and Systems Manager on your behalf.

EC2 Spot Fleet Role
Allows EC2 Spot Fleet to request and terminate Spot Instances on your behalf.

EC2 - Spot Fleet Auto Scaling
Allows Auto Scaling to access and update EC2 spot fleets on your behalf.

EC2 - Spot Fleet Tagging

Choose a use case for the specified service.

Use case

EC2

Allows EC2 instances to call AWS services on your behalf.

EC2 Role for AWS Systems Manager

Allows EC2 instances to call AWS services like CloudWatch and Systems Manager on your behalf.

EC2 Spot Fleet Role

Allows EC2 Spot Fleet to request and terminate Spot Instances on your behalf.

EC2 - Spot Fleet Auto Scaling

Allows Auto Scaling to access and update EC2 spot fleets on your behalf.

EC2 - Spot Fleet Tagging

Allows EC2 to launch spot instances and attach tags to the launched instances on your behalf.

EC2 - Spot Instances

Allows EC2 Spot Instances to launch and manage spot instances on your behalf.

EC2 - Spot Fleet

Allows EC2 Spot Fleet to launch and manage spot fleet instances on your behalf.

EC2 - Scheduled Instances

Allows EC2 Scheduled Instances to manage instances on your behalf.

Cancel

Next

Step 2

Add permissions

Step 3

Name, review, and create

Permissions policies (1/949) Info

Choose one or more policies to attach to your new role.



Filter by Type

All types

9 matches

< 1 >



Policy name

Type

Description

[AmazonDMSRedsh...](#)

AWS managed

Provides access to manage S3 settings ...

[AmazonS3FullAccess](#)

AWS managed

Provides full access to all buckets via t...

[AmazonS3ObjectL...](#)

AWS managed

Provides AWS Lambda functions permis...

[AmazonS3Outpost...](#)

AWS managed

Provides full access to Amazon S3 on ...

[AmazonS3Outpost...](#)

AWS managed

Provides read only access to Amazon S...

[AmazonS3ReadOn...](#)

AWS managed

Provides read only access to all bucket...

[AWSBackupService...](#)

AWS managed

Policy containing permissions necessar...

[AWSBackupService...](#)

AWS managed

Policy containina permissions necessar...



Step 2

Add permissions

Step 3

Name, review, and create

Permissions policies (2/949) [Info](#)

Choose one or more policies to attach to your new role.

Filter by Type



kinesis



All types

9 matches

< 1 >



-	Policy name	Type	Description
<input type="checkbox"/>	AmazonKinesisAna...	AWS managed	Provides full access to Amazon Kinesis ...
<input type="checkbox"/>	AmazonKinesisAna...	AWS managed	Provides read-only access to Amazon ...
<input type="checkbox"/>	AmazonKinesisFire...	AWS managed	Provides full access to all Amazon Kine...
<input type="checkbox"/>	AmazonKinesisFire...	AWS managed	Provides read only access to all Amazo...
<input checked="" type="checkbox"/>	AmazonKinesisFull...	AWS managed	Provides full access to all streams via t...
<input type="checkbox"/>	AmazonKinesisRea...	AWS managed	Provides read only access to all stream...
<input type="checkbox"/>	AmazonKinesisVid...	AWS managed	Provides full access to Amazon Kinesis ...
<input type="checkbox"/>	AmazonKinesisVid...	AWS managed	Provides read only access to AWS Kine...

Step 1

Select trusted entity

Step 2

Add permissions

Step 3

Name, review, and create

Name, review, and create

Role details

Role name

Enter a meaningful name to identify this role.

Maximum 64 characters. Use alphanumeric and '+,.@-_ ' characters.

Description

Add a short explanation for this role.

Maximum 1000 characters. Use letters (A-Z and a-z), numbers (0-9), tabs, new lines, or any of the following characters: _+=,. @-/\[{}!#\$%^*()::;"`

Step 1: Select trusted entities

Edit

Step 1: Select trusted entities

Edit

Trust policy

```
1 {  
2     "Version": "2012-10-17",  
3     "Statement": [  
4         {  
5             "Effect": "Allow",  
6             "Action": [  
7                 "sts:AssumeRole"  
8             ],  
9             "Principal": {  
10                 "Service": [  
11                     "ec2.amazonaws.com"  
12                 ]  
13             }  
14         }  
15     ]  
16 }
```

Step 2: Add permissions

Edit

Permissions policy summary

Policy name	Type	Attached as
AmazonKinesisFullAccess	AWS managed	Permissions policy
AmazonS3FullAccess	AWS managed	Permissions policy

Step 3: Add tags





Services

Search [Alt+S]



Global ▾

kareemullah1234 ▾

```
12
13
14
15
16 }
```

Step 2: Add permissions

[Edit](#)

Permissions policy summary

Policy name	Type	Attached as
AmazonKinesisFullAccess	AWS managed	Permissions policy
AmazonS3FullAccess	AWS managed	Permissions policy

Step 3: Add tags

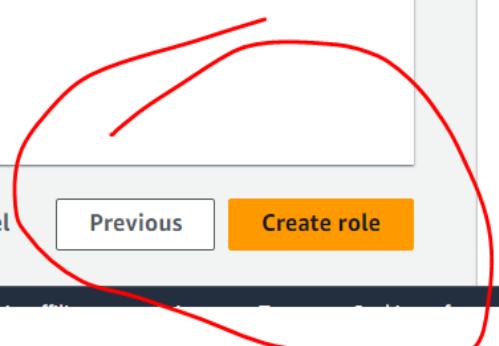
Add tags - optional Info

Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

[Add new tag](#)

You can add up to 50 more tags.

[Cancel](#)[Previous](#)[Create role](#)



Services

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Identity and Access Management (IAM)

 Search IAM

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Credential report

Organization activity

[IAM](#) > [Users](#)**Users (0)** [Info](#)

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

 Search

< 1 >



User name	Path	Groups	Last activity	MFA	Password age	Console last sign-in
-----------	------	--------	---------------	-----	--------------	----------------------

No resources to display



Step 1

Specify user details

Step 2

Set permissions

Step 3

Review and create

Specify user details

User details

User name

second_kinesis_s3_user

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @ _ - (hyphen)

 Provide user access to the AWS Management Console - optional

If you're providing console access to a person, it's a [best practice](#) to manage their access in IAM Identity Center.

If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keypairs, you can generate them after you create this IAM user. [Learn more](#)

Cancel

Next

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

Step 2

Set permissions

Step 3

Review and create

Permissions options

 Add user to group

Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.

 Copy permissions

Copy all group memberships, attached managed policies, and inline policies from an existing user.

 Attach policies directly

Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.

Permissions policies (1229)



Create policy

Choose one or more policies to attach to your new user.

Filter by Type



Search

All types

< 1 2 3 4 5 6 7 ... 62 >

 Policy name

▲ Type

▼ Attached entities

 [AccessAnalyzerServiceRolePolicy](#)

AWS managed

0

 [AdministratorAccess](#)

AWS managed - job function

0

 [AdministratorAccess-Amplify](#)

AWS managed

0

 [AdministratorAccess-AWSElasticBeanst...](#)

AWS managed

0

 [AlexaForBusinessDeviceSetup](#)

AWS managed

0

Permissions policies (2/1229)



Create policy

Choose one or more policies to attach to your new user.

Filter by Type

s3

All types

12 matches

< 1 >

Policy name	Type	Attached entities
<input type="checkbox"/> AmazonDMSRedshiftS3Role	AWS managed	0
<input checked="" type="checkbox"/> AmazonS3FullAccess	AWS managed	2
<input type="checkbox"/> AmazonS3ObjectLambdaExecutionRole	AWS managed	0
<input type="checkbox"/> AmazonS3OutpostsFullAccess	AWS managed	0
<input type="checkbox"/> AmazonS3OutpostsReadOnlyAccess	AWS managed	0
<input type="checkbox"/> AmazonS3ReadOnlyAccess	AWS managed	0
<input type="checkbox"/> AWSBackupServiceRolePolicyForS3Backup	AWS managed	0
<input type="checkbox"/> AWSBackupServiceRolePolicyForS3Restore	AWS managed	0
<input type="checkbox"/> AWSS3OnOutpostsServiceRolePolicy	AWS managed	0
<input type="checkbox"/> IVSRecordToS3	AWS managed	0
<input type="checkbox"/> QuickSightAccessForS3StorageManager	AWS managed	0
<input type="checkbox"/> S3StorageLensServiceRolePolicy	AWS managed	0

[Alt+F5] Global ▾ kareemultani

Permissions policies (2/1229)

Choose one or more policies to attach to your new user.

Filter by Type

Policy name	Type	Attached entities
<input type="checkbox"/> AmazonKinesisAnalyticsFullAccess	AWS managed	0
<input type="checkbox"/> AmazonKinesisAnalyticsReadOnly	AWS managed	0
<input type="checkbox"/> AmazonKinesisFirehoseFullAccess	AWS managed	0
<input type="checkbox"/> AmazonKinesisFirehoseReadOnlyAccess	AWS managed	0
<input checked="" type="checkbox"/> AmazonKinesisFullAccess	AWS managed	2
<input type="checkbox"/> AmazonKinesisReadOnlyAccess	AWS managed	0
<input type="checkbox"/> AmazonKinesisVideoStreamsFullAccess	AWS managed	0
<input type="checkbox"/> AmazonKinesisVideoStreamsReadOnly...	AWS managed	0
<input type="checkbox"/> AmazonVPCCrossAccountNetworkInter...	AWS managed	0
<input type="checkbox"/> AppRunnerNetworkingServiceRolePolicy	AWS managed	0
<input type="checkbox"/> AWSElasticDisasterRecoveryFallbackIns...	AWS managed	0
<input type="checkbox"/> AWSEnhancedClassicNetworkingMang...	AWS managed	0
<input type="checkbox"/> AWSLambdaKinesisExecutionRole	AWS managed	0

< 1 > ⚙️

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us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/create

Services Search [Alt+S]

<input type="checkbox"/>	<input type="checkbox"/> AmazonKinesisAnalyticsReadOnly	AWS managed	0
<input type="checkbox"/>	<input type="checkbox"/> AmazonKinesisFirehoseFullAccess	AWS managed	0
<input type="checkbox"/>	<input type="checkbox"/> AmazonKinesisFirehoseReadOnlyAccess	AWS managed	0
<input checked="" type="checkbox"/>	<input type="checkbox"/> AmazonKinesisFullAccess	AWS managed	2
<input type="checkbox"/>	<input type="checkbox"/> AmazonKinesisReadOnlyAccess	AWS managed	0
<input type="checkbox"/>	<input type="checkbox"/> AmazonKinesisVideoStreamsFullAccess	AWS managed	0
<input type="checkbox"/>	<input type="checkbox"/> AmazonKinesisVideoStreamsReadOnly...	AWS managed	0
<input type="checkbox"/>	<input type="checkbox"/> AmazonVPCCrossAccountNetworkInter...	AWS managed	0
<input type="checkbox"/>	<input type="checkbox"/> AppRunnerNetworkingServiceRolePolicy	AWS managed	0
<input type="checkbox"/>	<input type="checkbox"/> AWSElasticDisasterRecoveryFallbackIns...	AWS managed	0
<input type="checkbox"/>	<input type="checkbox"/> AWSEnhancedClassicNetworkingMang...	AWS managed	0
<input type="checkbox"/>	<input type="checkbox"/> AWSLambdaKinesisExecutionRole	AWS managed	0
<input type="checkbox"/>	<input type="checkbox"/> DynamoDBKinesisReplicationServiceRo...	AWS managed	0

▶ Set permissions boundary - optional

Cancel Previous Next

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Screenshot of the AWS IAM User Creation Wizard - Step 2: Set permissions.

The page shows the following details:

User details

User name	second_kinesis_s3_user	Console password type	None
			Require password reset No

Permissions summary

Name	Type	Used as
AmazonKinesisFullAccess	AWS managed	Permissions policy
AmazonS3FullAccess	AWS managed	Permissions policy

Tags - optional

Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with this user.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Buttons at the bottom:

- Cancel
- Previous
- Create user (highlighted with a red circle)

Identity and Access Management (IAM)

Search IAM

Dashboard

▼ Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

▼ Access reports

Access Analyzer

External access

Unused access

Analyzer settings

✔ User created successfully

You can view and download the user's password and email instructions for signing in to the AWS Management Console.

View user

IAM > Users

Users (1) Info

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

<input type="checkbox"/>	User name	Path	Groups	Last activity	MFA	Password age	Console last sign-in
<input type="checkbox"/>	second_kinesis_s3_user	/	0	-	-	-	-

AWS Services Search [Alt+S] Global kareemullah1234

Identity and Access Management (IAM)

User created successfully

You can view and download the user's password and email instructions for signing in to the AWS Management Console.

View user

Search IAM

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Credential report

IAM > Users

Users (1) Info

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

Search

User name

second_kinesis_s3_user

Path Groups Last activity MFA Password age Console last sign-in

1

Create user

User name	Path	Groups	Last activity	MFA	Password age	Console last sign-in
second_kinesis_s3_user	/	0	-	-	-	-

Identity and Access Management (IAM) X Search IAM

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▼ Access reports

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Unused access

Analyzer settings

Credential report

Organization activity

IAM > Users > second_kinesis_s3_user

second_kinesis_s3_user InfoDelete

Summary

ARN

arn:aws:iam::515966516348:user/second_kinesis_s3_user

Console access

Disabled

Created

September 21, 2024, 06:52 (UTC+05:30)

Last console sign-in

-

Access key 1Create access keyPermissions

Groups

Tags

Security credentials

Access Advisor

Permissions policies (2)

RemoveAdd permissions ▾

Permissions are defined by policies attached to the user directly or through groups.

Filter by Type

 Search

All types

< 1 >

 Policy name

▲ Type

▼ Attached via

 AmazonKinesisFullAccess

AWS managed

Directly

AWS Services Search [Alt+S] Global kareemullah1234

IAM > Users > second_kinesis_s3_user > Create access key

Step 1 Access key best practices & alternatives

Step 2 - optional Set description tag

Step 3 Retrieve access keys

Access key best practices & alternatives Info

Avoid using long-term credentials like access keys to improve your security. Consider the following use cases and alternatives.

Use case

Command Line Interface (CLI)
You plan to use this access key to enable the AWS CLI to access your AWS account.

Local code
You plan to use this access key to enable application code in a local development environment to access your AWS account.

Application running on an AWS compute service
You plan to use this access key to enable application code running on an AWS compute service like Amazon EC2, Amazon ECS, or AWS Lambda to access your AWS account.

Third-party service
You plan to use this access key to enable access for a third-party application or service that monitors or manages your AWS resources.

Application running outside AWS
You plan to use this access key to authenticate workloads running in your data center or other infrastructure outside of AWS that needs to access your AWS resources.

Other

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your AWS account.

Application running on an AWS compute service
You plan to use this access key to enable application code running on an AWS compute service like Amazon EC2, Amazon ECS, or AWS Lambda to access your AWS account.

Third-party service
You plan to use this access key to enable access for a third-party application or service that monitors or manages your AWS resources.

Application running outside AWS
You plan to use this access key to authenticate workloads running in your data center or other infrastructure outside of AWS that needs to access your AWS resources.

Other
Your use case is not listed here.

⚠ Alternatives recommended

- Use [AWS CloudShell](#), a browser-based CLI, to run commands. [Learn more](#)
- Use the [AWS CLI V2](#) and enable authentication through a user in IAM Identity Center. [Learn more](#)

Confirmation

I understand the above recommendation and want to proceed to create an access key.

Cancel **Next**

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AWS Services Search [Alt+S] Global kareemullah1234

IAM > Users > second_kinesis_s3_user > Create access key

Step 1

Access key best practices & alternatives

Step 2 - optional

Set description tag

Step 3

Retrieve access keys

Set description tag - *optional*

The description for this access key will be attached to this user as a tag and shown alongside the access key.

Description tag value

Describe the purpose of this access key and where it will be used. A good description will help you rotate this access key confidently later.

Maximum 256 characters. Allowed characters are letters, numbers, spaces representable in UTF-8, and: _ . : / = + - @

Cancel Previous Create access key

Access key created

This is the only time that the secret access key can be viewed or downloaded. You cannot recover it later. However, you can create a new access key any time.

IAM > Users > second_kinesis_s3_user > Create access key

Step 1
[Access key best practices & alternatives](#)

Step 2 - optional
[Set description tag](#)

Step 3
[Retrieve access keys](#)

Retrieve access keys Info

Access key

If you lose or forget your secret access key, you cannot retrieve it. Instead, create a new access key and make the old key inactive.

Access key	Secret access key
AKIAXQIQAHR6D2NUI4YT	***** Show

Access key best practices

- Never store your access key in plain text, in a code repository, or in code.
- Disable or delete access key when no longer needed.
- Enable least-privilege permissions.
- Rotate access keys regularly.

For more details about managing access keys, see the [best practices for managing AWS access keys](#).

[Download .csv file](#) Done

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The screenshot shows the AWS IAM console interface. On the left, there is a sidebar with navigation links for IAM users, including 'Access key creation' (marked with a checkmark), 'Step 1: Access key best practices', 'Step 2 - optional: Set descriptions', and 'Step 3: Retrieve access keys'. A search bar at the top contains the query 'ec2'. Below the search bar, the results are displayed under the heading 'Search results for "ec2"'.

Services

- EC2** ☆
Virtual Servers in the Cloud
- EC2 Image Builder** ☆
A managed service to automate build, customize and deploy OS images
- Recycle Bin**
Protect resources from accidental deletion
- Amazon Inspector** ☆
Continual vulnerability management at scale

Features

- Dashboard**
EC2 feature
- EC2 Instances**
CloudWatch feature

A red circle highlights the 'EC2' service card in the search results. The bottom right corner of the page has a 'Done' button.

aws Services Search [Alt+S] Mumbai kareemullah1234

EC2 Dashboard

- EC2 Global View
- Events
- Instances**
 - Instances
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts
 - Capacity Reservations **New**
- Images
- Elastic Block Store

Resources

You are using the following Amazon EC2 resources in the Asia Pacific (Mumbai) Region:

Instances (running)	0	Auto Scaling Groups	0
Capacity Reservations	0	Dedicated Hosts	0
Elastic IPs	0	Instances	0
Key pairs	28	Load balancers	0
Placement groups	0	Security groups	44
Snapshots	0	Volumes	0

EC2 Free Tier [Info](#)

Offers for all AWS Regions.

2 EC2 free tier offers in use

End of month forecast

⚠ 0 offers forecasted to exceed free tier limit.

Exceeds free tier

⚠ 0 offers exceeded and is now pay-as-you-go pricing.

[View Global EC2 resources](#)

Offer usage (monthly)

Linux EC2 Instances  7%

698.729998 hours remaining

Launch instance
To get started, launch an Amazon EC2

Service health

[AWS Health Dashboard](#)

Create instance >> choose amazon linux



Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current On-Demand Linux base pricing: 0.0124 USD On-Demand Windows base pricing: 0.0171 USD On-Demand RHEL base pricing: 0.0268 USD On-Demand SUSE base pricing: 0.0124 USD

Additional costs apply for AMIs with pre-installed software.

▼ Key pair (login) Info

You can use a key pair to securely connect to your instance before you launch the instance.

Key pair name - required

Select

▼ Network settings Info

Key pair name

Key pairs allow you to connect to your instance securely.

kinesis_i_s3_ec2

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

 RSA

RSA encrypted private and public key pair

 ED25519

ED25519 encrypted private and public key pair

Private key file format

 .pem

For use with OpenSSH

 .ppk

For use with PuTTY

When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** [Learn more](#)

Cancel

Create key pair

Launch instance

Review commands



Services

Search kinesis



Mumbai

EC2 Dashboard

EC2 Global View

Events

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

Reservations New

► Images

▼ Elastic Block Store

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Resources New

Documentation

Knowledge articles

Blog posts

Events

Tutorials

Search results for 'kinesis'

Services

Show more ▶



Kinesis ☆

Work with Real-Time Streaming Data



Kinesis Analytics



Kinesis Video Streams ☆

Capture, Process, and Store Video Streams for Analytics and Machine Learning



Managed Apache Flink ☆

Fully managed, highly available, and secure service for Apache Flink

Features

The screenshot shows the AWS Amazon Kinesis services landing page. At the top, there's a navigation bar with the AWS logo, a 'Services' dropdown, a search bar containing 'Search' with a keyboard shortcut '[Alt+S]', and account information for 'Mumbai' and 'kare'. On the left, there's a sidebar with a 'Analytics' section. The main content area features a large heading 'Amazon Kinesis services' and a sub-headline 'Collect, process, and analyze data streams in real time.' To the right of this, a white callout box titled 'Get started' contains three options:

- Kinesis Data Streams**
Collect streaming data with a data stream.
- Amazon Data Firehose - new**
Formerly Kinesis Data Firehose
Process and deliver streaming data with a Firehose stream.
- Managed Apache Flink**
Formerly Kinesis Data Analytics
Analyze streaming data with data analytics application.

A prominent orange button labeled 'Create data stream' is located at the bottom of the callout box. At the very bottom of the page, a grey footer bar displays the text 'Pricing (Asia Pacific (Mumbai))'.

The screenshot shows the AWS Kinesis Data Stream creation interface. At the top, there's a navigation bar with the AWS logo, a search bar, and user information for 'Mumbai' and 'kareemullah12'. Below the navigation bar, the path 'Amazon Kinesis > Data streams > Create data stream' is visible. The main section is titled 'Create data stream' with an 'Info' link. It contains two main configuration sections: 'Data stream configuration' and 'Data stream capacity'.

Data stream configuration

A red circle highlights the 'Data stream name' input field, which contains the value 'demo_kinesis_s3'. Below the input field is a note: 'Acceptable characters are uppercase and lowercase letters, numbers, underscores, hyphens and periods.'

Data stream capacity

The 'Capacity mode' section contains two options:

- On-demand** (selected):
Use this mode when your data stream's throughput requirements are unpredictable and variable. With on-demand mode, your data stream's capacity scales automatically.
- Provisioned**:
Use provisioned mode when you can reliably estimate throughput requirements of your data stream. With provisioned mode, your data stream's capacity is fixed.

At the bottom of the page, there are standard AWS navigation links: Home, Services, Support, Help, and Log Out.

aws | Services | Search [Alt+S] | Mumbai | kareemullah1234

On-demand mode has a pay-per-throughput pricing model. See [Kinesis pricing for on-demand mode](#)

Data stream settings

You can edit the settings after the data stream has been created and is in the active status.

Setting	Value	Editable after creation
Capacity mode	On-demand	Yes
Data retention period	1 day	Yes
Server-side encryption	Disabled	Yes
Monitoring enhanced metrics	Disabled	Yes
Tags	-	Yes
Data stream sharing policy	No policy	Yes

Create data stream

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Amazon Kinesis

Data stream demo_kinesis_s3 successfully created.

Dashboard

Data streams

Amazon Data Firehose [New](#)

Managed Apache Flink [New](#)

Resources

CloudFormation templates

AWS Glue Schema Registry [New](#)

Amazon Kinesis > Data streams

Data streams (1) [Info](#)

Process data in real time [Create a Firehose stream](#) Actions ▾ [Create data stream](#)

Find data streams < 1 > [Settings](#)

Name	Status	Capacity mode	Provisioned shards	Sharing policy	Data retention period
demo_kinesis_s3	Active	On-demand	-	No	1 day

AWS Services Search [Alt+S] Mumbai kareemullah1234

Amazon Kinesis Data stream demo_kinesis_s3 successfully created.

Amazon Kinesis > Data streams

Data streams (1) Info

Process data in real time Create a Firehose stream Actions Create data stream

Find data streams < 1 > 🔍

Name	Status	Capacity mode	Provisioned shards	Sharing policy	Data retention period
demo_kinesis_s3	Active	On-demand	-	No	1 day

Amazon Data Firehose New Managed Apache Flink New

CloudFormation templates AWS Glue Schema Registry

Resources

The screenshot shows the Amazon Kinesis Data Streams service in the AWS Management Console. A green success notification at the top states: "Data stream demo_kinesis_s3 successfully created." The main interface displays a single data stream named "demo_kinesis_s3" with the status "Active". The "Create data stream" button is highlighted with a red circle. The left sidebar includes links for "Amazon Data Firehose" and "Managed Apache Flink", both of which are also circled in red. The "Data streams" link under the "Data streams" heading is also circled in red. The "Create a Firehose stream" button is visible but not highlighted.

AWS Services Search [Alt+S] Mumbai kareemullah1234

New Features for Snowflake
Firehose now supports Snowflake as a destination in all commercial regions, along with exactly-once delivery and adjustable buffer hints. [Learn more](#)

Analytics

Amazon Data Firehose

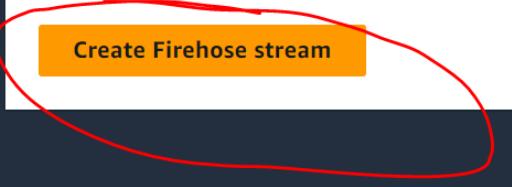
Real-time streaming delivery
for any data, at any scale,
and at low-cost.

Amazon Data Firehose provides the easiest way to reliably ingest, transform, and deliver streaming data into data lakes, data warehouses, and analytics services.

Getting started

Create a Firehose stream that processes and delivers streaming data to destinations.

Create Firehose stream





Create Firehose stream Info

► Amazon Data Firehose: How it works

Choose source and destination

Specify the source and the destination for your Firehose stream. You cannot change the source and destination of your Firehose stream once it has been created.

Source Info

Choose a source

Destination Info

Choose a destination

Cancel

Create Firehose stream



Streams, or using Firehose
Direct PUT API.

Orc or invoking an AWS Lambda function to transform streamed records.

For more information about Amazon Data Firehose, see [Amazon Data Firehose: How it works](#)

Choose source and destination

Specify the source and the destination for your Firehose stream. You cannot change the source and destination of your Firehose stream once it has been created.

Source | [Info](#)
Amazon Kinesis Data Streams

Destination | [Info](#)
Amazon S3

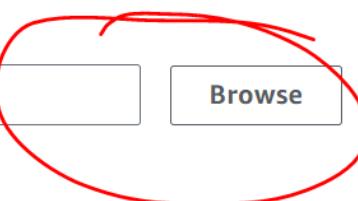
Source settings

Source settings

Kinesis data stream

Choose a data stream or enter a data stream ARN

Format: arn:aws:kinesis:[Region]:[AccountId]:stream/[StreamName]



Create

Firehose stream name

Firehose stream name

KDS-S3-fDrF3

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

Transform and convert records - *optional*

Configure Amazon Data Firehose to transform and convert your record data.

Source settings

Choose Kinesis data stream

X

Kinesis data streams (1)

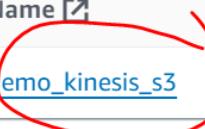
Find Kinesis data streams

< 1 >

Name	Status
<u>demo_kinesis_s3</u>	Active

Cancel Choose

Transform and convert records - optional



≡

Source settings

Kinesis data stream

[Browse](#)[Create !\[\]\(7f50a65ef176fba5c4484a605d815a8e_img.jpg\)](#)

Format: arn:aws:kinesis:[Region]:[AccountId]:stream/[StreamName]

Firehose stream name

Firehose stream name

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

Transform and convert records - *optional*

Configure Amazon Data Firehose to transform and convert your record data.

Multiple Producer ----> Multiple Consumer

2) Kinesis

EC2(Log) ---> Kinesis Data stream --> Kinesis data firehose ---> S3

Data Stream

EC2 -----DF -----S3

Lambda

Step 1: IAM role on EC2 (kinesis full access, S3 full access)

Step 2: Create a user (access key, secret access key)

Step 3: EC2 (instance)

Step 4: Kinesis: Data stream, Data Firehose

Step 5: Create a S3 bucket

Data Stream -- shards

Data Firehose -- Transformation (Lambda)
-- dynamic partitioning

← → ⌂ ap-south-1.console.aws.amazon.com/s3/get-started?region=ap-south-1

aws Services X

Mumbai kareemullah1234 ▾

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Scalable Storage in the Cloud

 S3 Glacier ☆
Archive Storage in the Cloud

 AWS Snow Family ☆
Large Scale Data Transport

 Storage Gateway ☆
Hybrid Storage Integration

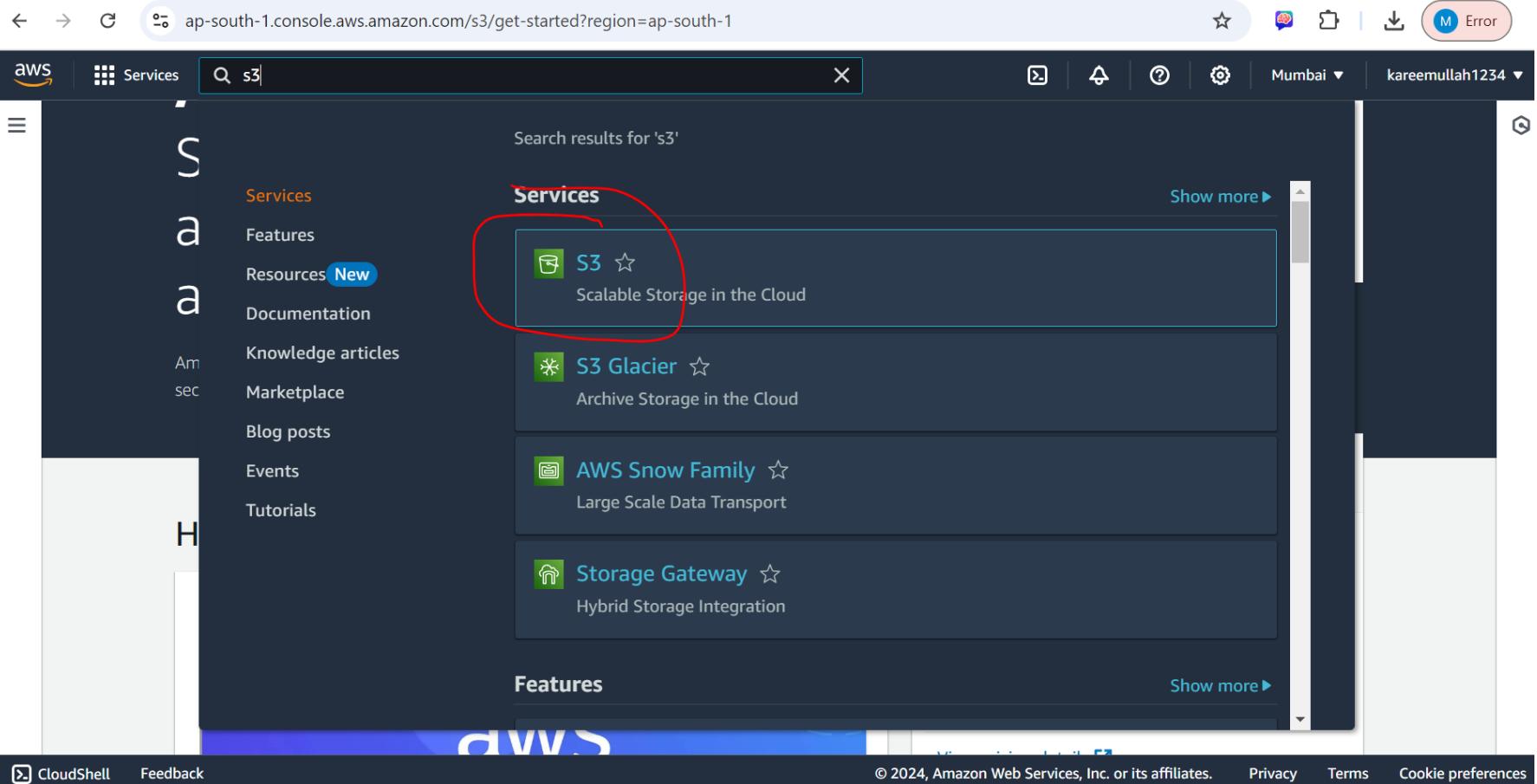
Features

Show more ▶

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Storage

Amazon S3

Store and retrieve any amount of data from anywhere

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

Create a bucket

Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.

[Create bucket](#)

How it works



Pricing

With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.

The screenshot shows the AWS S3 'Create bucket' interface. At the top, the AWS logo, 'Services' menu, search bar, and navigation buttons are visible. The current path is 'Amazon S3 > Buckets > Create bucket'. On the right, there are account and region information ('Mumbai' and 'kareemullah1234').

Create bucket Info

Buckets are containers for data stored in S3.

General configuration

AWS Region
Asia Pacific (Mumbai) ap-south-1

Bucket name Info
demokinesis1234

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket - *optional*
Only the bucket settings in the following configuration are copied.
[Choose bucket](#)

Format: s3://bucket/prefix

Encryption type | [Info](#)

- Server-side encryption with Amazon S3 managed keys (SSE-S3)
- Server-side encryption with AWS Key Management Service keys (SSE-KMS)
- Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)

Secure your objects with two separate layers of encryption. For details on pricing, see [DSSE-KMS pricing](#) on the [Storage tab](#) of the [Amazon S3 pricing page](#).

Bucket Key

Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. [Learn more](#)

- Disable
- Enable

► Advanced settings

After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel

Create bucket

ap-south-1.console.aws.amazon.com/firehose/home?region=ap-south-1#/create/kds/s3

aws Services Search [Alt+S]

Mumbai | kareemullah1234

Data in Apache Parquet or Apache ORC format is typically more efficient to query than JSON. Amazon Data Firehose can convert your JSON-formatted source records using a schema from a table defined in AWS Glue [\[AWS Glue\]](#). 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.

Enable record format conversion

Decompress source records from Amazon CloudWatch Logs - new [\[Info\]](#)

When this feature is turned on, Amazon Data Firehose decompresses Amazon CloudWatch Logs and delivers them to the destination. There will be additional fees for this functionality. For more information, see [Amazon Data Firehose pricing](#). After enabling decompression, you have the option to turn on message extraction to deliver only the content inside the message fields. [Learn more](#).

Turn on decompression

Destination settings [\[Info\]](#)

Specify the destination settings for your Firehose stream.

S3 bucket

Choose a bucket or enter a bucket URI ✖ You must specify an S3 bucket.

Browse Create [\[Create\]](#)

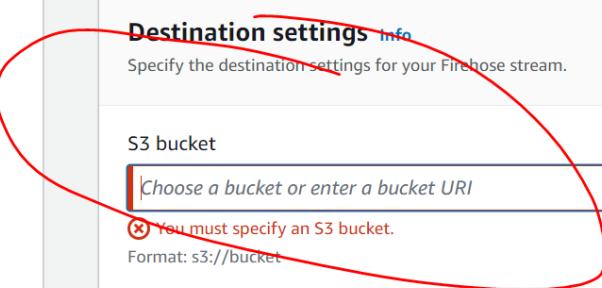
Format: s3://bucket

New line delimiter

You can configure your Firehose stream to add a new line delimiter between records in objects that are delivered to Amazon S3.

Not enabled Enabled

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AWS Services Search [Alt+S] Mumbai kareemullah

Destination settings Info

Specify the destination settings for your Firehose stream.

Choose a bucket in Amazon S3

Buckets (1)

Find buckets

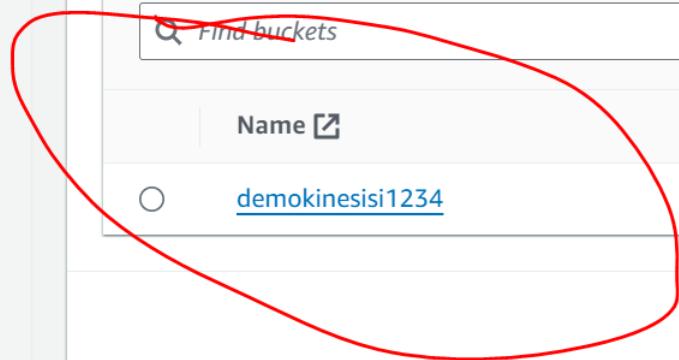
< 1 >

Name Region

demokinesis1234 Asia Pacific (Mumbai)

Cancel Choose

Not enabled



ap-south-1.console.aws.amazon.com/firehose/home?region=ap-south-1#/create/kds/s3

aws Services Search [Alt+S] Mumbai kareem

S3 bucket error output prefix - *optional*
You can specify an S3 bucket error output prefix to be used in error conditions. This prefix can include expressions for Amazon Data Firehose to evaluate at runtime.

Enter a prefix

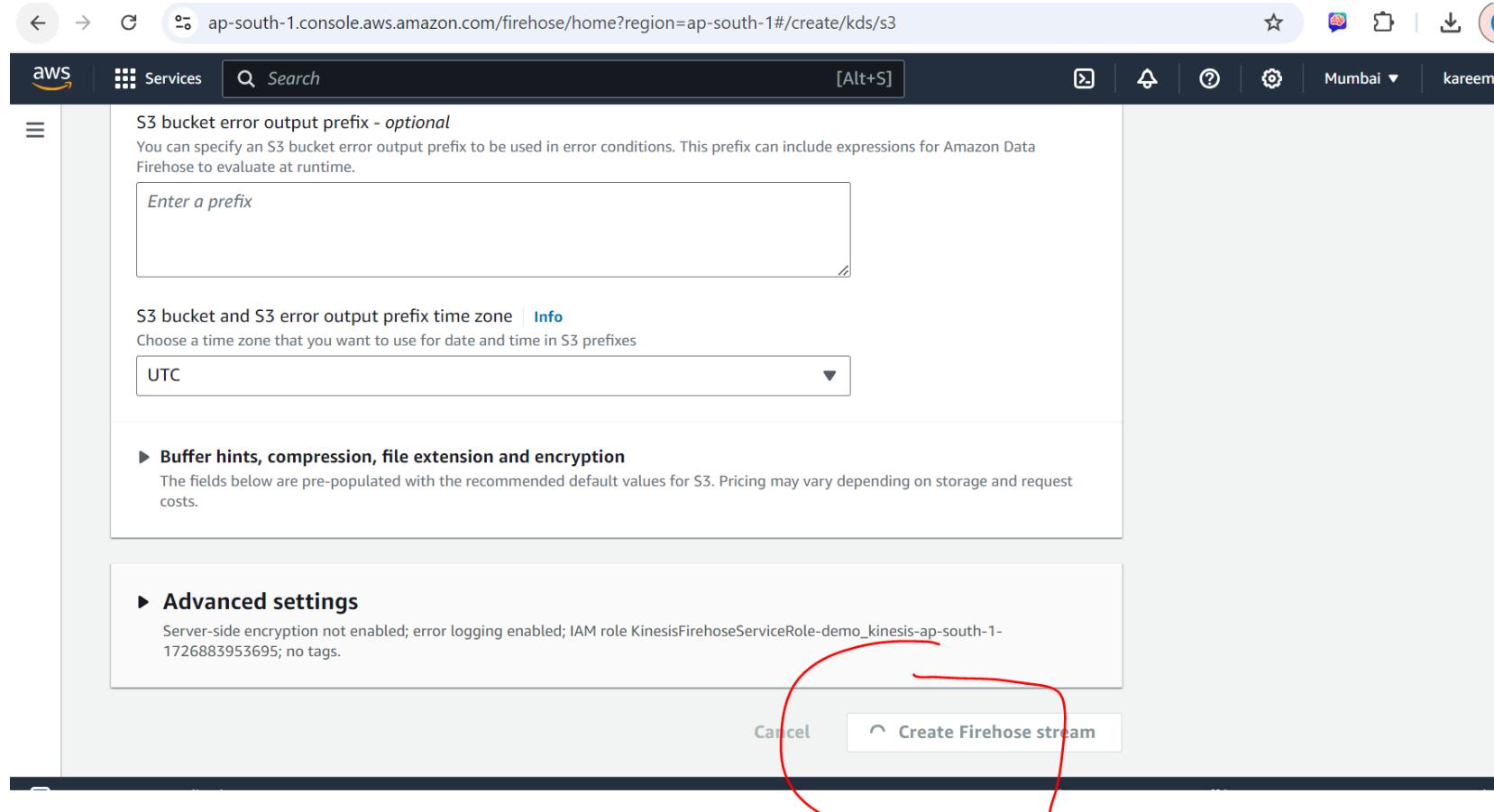
S3 bucket and S3 error output prefix time zone | [Info](#)
Choose a time zone that you want to use for date and time in S3 prefixes

UTC

► Buffer hints, compression, file extension and encryption
The fields below are pre-populated with the recommended default values for S3. Pricing may vary depending on storage and request costs.

► Advanced settings
Server-side encryption not enabled; error logging enabled; IAM role KinesisFirehoseServiceRole-demo_kinesis-ap-south-1-1726883953695; no tags.

Cancel Create Firehose stream



Connect to instance

- `ssh -i "kinesisi_s3_ec2.pem" -o ServerAliveInterval=60 ec2-user@ec2-3-110-104-22.ap-south-1.compute.amazonaws.com`

```
This key is not known by any other names
```

```
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```

```
Warning: Permanently added 'ec2-3-110-104-22.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.
```

```
ec2-user@ec2-3-110-104-22.ap-south-1.compute.amazonaws.com: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
```

```
[root@ip-172-31-8-67 ec2-user]# ls -lrt
```

```
total 0
```

```
[root@ip-172-31-8-67 ec2-user]#
```

```
[root@ip-172-31-8-67 ec2-user]#
```

```
[root@ip-172-31-8-67 ec2-user]# ls -lrt
```

```
total 0
```

```
[root@ip-172-31-8-67 ec2-user]#
```

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ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-028c59e5a9586428... ☆

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1) Kafka

File Edit View

EC2 ----- DF ----- S3

Lambda

Step 1: IAM role on EC2 (kinesis full access, S3 full access)

Step 2: Create a user (access key, secret access key)

Step 3: EC2 (instance)

Step 4: Kinesis: Data stream, Data Firehose

Step 5: Create a S3 bucket

Data Stream -- shards
Data Firehose -- Transformation (Lambda)
-- dynamic partitioning

400
- owner I
- groups
- others

i-028c59e5a9586428

Public IPs: 65.2.69.81 Private IP: 172.31.2.234

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To exit full screen, press Esc

1) Kafka

File Edit View

Step 3: EC2 (instance)

Step 4: Kinesis: Data stream, Data Firehose

Step 5: Create a S3 bucket

Data Stream -- shards
Data Firehose -- Transformation (Lambda)
-- dynamic partitioning

400
- owner
- groups
- others

0- No permission
1- execute only
2- write only
3- write and execute (2+1)
4- read only
5- read and execute (4+1)
6- read and write (4+2)
7- read, write and execute (4+2+1)

```
[ec2-user@ip-172-31-2-234 ~]$ ls -l /tmp/kafka-data/*  
[root@ip-172-31-2-234 ~]$ total 0  
[root@ip-172-31-2-234 ~]$
```

i-028c59e5a9586428

Public IPs: 65.2.69.81 Private IP: 172.31.2.234

CloudShell Feedback

Search aws kinesis agent

- <https://docs.aws.amazon.com/streams/latest/dev/writing-with-agents.html>

```
[root@ip-172-31-8-67 ec2-user]#
```

```
[root@ip-172-31-8-67 ec2-user]#
```

```
[root@ip-172-31-8-67 ec2-user]# ls lrt
```

```
total 0
```

```
[root@ip-172-31-8-67 ec2-user]# sudo yum install aws-kinesis-agent
```

```
Last metadata expiration check: 0:49:45 ago on Sat Sep 21 01:43:20 2024.
```

```
Dependencies resolved.
```

Package	Architecture	Version
<hr/>		
Installing:		
aws-kinesis-agent	noarch	2.0.8-2.amzn2023
<hr/>		
Installing dependencies:		
adwaita-cursor-theme	noarch	40.1.1-1.amzn2023.0.2
adwaita-icon-theme	noarch	40.1.1-1.amzn2023.0.2
alsa-lib	x86_64	1.2.7.2-1.amzn2023.0.2
at-spi2-atk	x86_64	2.38.0-2.amzn2023.0.2
at-spi2-core	x86_64	2.40.3-1.amzn2023.0.1

If you want to work locally

- Docker kinesis client is available

- Cd /
- Ls –lrt

```
drwxr-xr-x. 87 root root 10384 Sep 21 02:34 etc
drwxrwxrwt. 11 root root 220 Sep 21 02:36 tmp
[root@ip-172-31-8-67 /]# cd log
bash: cd: log: No such file or directory
[root@ip-172-31-8-67 /]# ls
bin boot dev etc home lib lib64 local media mnt opt proc root run sbin srv sys tmp usr var
[root@ip-172-31-8-67 /]# cd /var
[root@ip-172-31-8-67 var]# ls
account adm cache db empty ftp games kerberos lib local lock log mail nis opt preserve run spool tmp yp
[root@ip-172-31-8-67 var]# cd log
[root@ip-172-31-8-67 log]# ls -lrt
total 1464
drwxr-xr-x. 2 aws-kinesis-agent-user aws-kinesis-agent-user 6 Feb 20 2023 aws-kinesis-agent
-rw-----. 1 root root 0 Sep 13 23:35 tallylog
drwxr-----. 2 root root 6 Sep 13 23:35 private
lrwxrwxrwx. 1 root root 39 Sep 13 23:35 README -> ../../usr/share/doc/systemd/README.logs
drwxr-sr-x+. 3 root systemd-journal 46 Sep 21 01:42 journal
drwxr-----. 2 root root 23 Sep 21 01:43 audit
drwxr-xr-x. 2 root root 18 Sep 21 01:43 sa
drwxr-xr-x. 3 root root 17 Sep 21 01:43 amazon
-rw-r----. 1 root adm 3673 Sep 21 01:43 cloud-init-output.log
-rw-r----. 1 root adm 149682 Sep 21 01:43 cloud-init.log
drwxr-x---. 2 chrony chrony 72 Sep 21 01:43 chrony
-rw-rw----. 1 root utmp 3456 Sep 21 02:09 btmp
-rw-rw-r--. 1 root utmp 2688 Sep 21 02:24 wtmp
drwxr-x---. 2 root root 26 Sep 21 02:26 sssd
-rw-r--r--. 1 root root 91637 Sep 21 02:34 dnf.rpm.log
-rw-rw-r--. 1 root utmp 292292 Sep 21 02:34 lastlog
-rw-r--r--. 1 root root 2539 Sep 21 02:34 hawkey.log
-rw-r--r--. 1 root root 901968 Sep 21 02:34 dnf.librepo.log
-rw-r--r--. 1 root root 317391 Sep 21 02:34 dnf.log
[root@ip-172-31-8-67 log]#
```



Services



1) Kafka



File Edit View



Step 5: Create a S3 bucket

```
Data Stream -- shards  
Data Firehose -- Transformation (Lambda)  
-- dynamic partitioning
```

```
400  
- owner  
- groups  
- others
```

```
0- No permission  
1- execute only  
2- write only  
3- write and execute (2+1)  
4- read only  
5- read and execute (4+1)  
6- read and write (4+2)  
7- read, write and execute (4+2+1)
```

```
drwxr-xr-x
```

[←](#) [→](#) [C](#) [H](#)

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1) Kafka



File Edit View

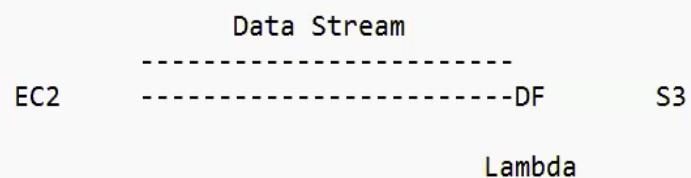


1) Kafka

Multiple Producer -----> Multiple Consumer

2) Kinesis

EC2(Log) ---> Kinesis Data stream --> Kinesis data firehose ---> S3



Step 1: IAM role on EC2 (kinesis full access, S3 full access)

Step 2: Create a user (access key, secret access key)

Step 3: EC2 (instance)

Step 4: Kinesis: Data stream, Data Firehose

Step 5: Create a S3 bucket



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ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-028c59e5a9586428... ☆

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aws Services Q 1) Kafka

```
drwxr-xr-x. 5 root root
drwxr-xr-x. 2 root root
drwxr-xr-x. 26 root root
drwxr-xr-x. 9 root root
drwxr-xr-x. 10 root root
drwxrwxrwt. 8 root root
[root@ip-172-31-2-234 ~]
[root@ip-172-31-2-234 ~]
total 1460
drwxr-xr-x. 2 aws-kine
drwxr-x---. 2 root
-rw-----. 1 root
drwx-----. 2 root
lrwxrwxrwx. 1 root
drwxr-sr-x+. 3 root
drwx-----. 2 root
drwxr-xr-x. 2 root
drwxr-xr-x. 3 root
-rw-r-----. 1 root

i-028c59e5a9586428
Public IPs: 65.2.69.81 Private IP: 172.31.2.234
CloudShell Feedback preferences
```

File Edit View Step 5: Create a S3 bucket

Data Stream -- shards
Data Firehose -- Transformation (Lambda)
-- dynamic partitioning

400
- owner
- groups
- others

0- No permission
1- execute only
2- write only
3- write and execute (2+1)
4- read only
5- read and execute (4+1)
6- read and write (4+2)
7- read, write and execute (4+2+1)

drwxr-xr-x

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zoom

1) Kafka

File Edit View

2) Kinesis

EC2(Log) ---> Kinesis Data stream --> Kinesis data firehose ---> S3

A small blue shield icon is visible in the bottom left corner, and a blue speech bubble icon is in the bottom right corner.

