

Service | Amazon DynamoDB M x +

ap-southeast-1.console.aws.amazon.com/dynamodbv2/home?region=ap-southeast-1#service

aws Search [Alt+S]

Asia Pacific (Singapore) shahid

DynamoDB

Dashboard

Tables

Explore items

PartiQL editor

Backups

Exports to S3

Imports from S3

Integrations [New](#)

Reserved capacity

Settings

DAX

Clusters

Subnet groups

Parameter groups

Events

Share your feedback on Amazon DynamoDB

Your feedback is an important part of helping us provide a better customer experience. Take this short survey to let us know how we're doing.

Share feedback

Database

Amazon DynamoDB

A fast and flexible NoSQL database service for any scale

DynamoDB is a fully managed, key-value, and document database that delivers single-digit-millisecond performance at any scale.

Get started

Create a new table to start exploring DynamoDB.

Create table

Pricing

DynamoDB charges for reading, writing, and storing data in your DynamoDB tables, along with any optional features you choose to turn on. DynamoDB has on-demand capacity mode and provisioned capacity mode, and these modes have pricing for processing reads and writes on your tables.

[Learn more about pricing](#)

How it works

aws

What is Amazon DynamoDB? | Amazon Web Ser...

Copy link

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Share feedback

Create table

Table details [Info](#)

DynamoDB is a schemaless database that requires only a table name and a primary key when you create the table.

Table name

This will be used to identify your table.

webstocks-connections

Between 3 and 255 characters, containing only letters, numbers, underscores (_), hyphens (-), and periods (.).

Partition key

The partition key is part of the table's primary key. It is a hash value that is used to retrieve items from your table and allocate data across hosts for scalability and availability.

connection

String

1 to 255 characters and case sensitive.

Sort key - optional

You can use a sort key as the second part of a table's primary key. The sort key allows you to sort or search among all items sharing the same partition key.

Enter the sort key name

String

1 to 255 characters and case sensitive.



List tables | Amazon DynamoDB

ap-southeast-1.console.aws.amazon.com/dynamodbv2/home?region=ap-southeast-1#tables

aws

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DynamoDB > Tables

DynamoDB

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Tables

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Share feedback

The webstocks-connections table was created successfully.

Tables (1) [Info](#)

Find tables

Any tag key

Any tag value

< 1 >

<input type="checkbox"/>	Name	Status	Partition key	Sort key	Indexes	Replication Regions	Deletion protection	Favorite	Read capacity
<input type="checkbox"/>	webstocks-connections	Active	connection (S)	-	0	0	Off	<input type="checkbox"/>	On-demand

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Compute

AWS Lambda

lets you run code without thinking about servers.

You pay only for the compute time that you consume — there is no charge when your code is not running. With Lambda, you can run code for virtually any type of application or backend service, all with zero administration.

Get started

Author a Lambda function from scratch, or choose from one of many preconfigured examples.

Create a function

How it works

Run

Next: Lambda responds to events

.NET Java Node.js Python Ruby Custom runtime

```
1 * exports.handler = async (event) => {  
2   console.log(event);  
3   return 'Hello from Lambda!';  
4 };  
5
```



Create function | Functions | Lambda

ap-southeast-1.console.aws.amazon.com/lambda/home?region=ap-southeast-1#/create/function?firstrun=true&intent=authorFromScratch

aws

Search

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Lambda > Functions > Create function

Function name

Enter a name that describes the purpose of your function.

webstock-connect

Function name must be 1 to 64 characters, must be unique to the Region, and can't include spaces. Valid characters are a-z, A-Z, 0-9, hyphens (-), and underscores (_).

Runtime Info

Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

Python 3.9

Architecture Info

Choose the instruction set architecture you want for your function code.

☐ arm64

☒ x86_64

Permissions Info

By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

► Change default execution role

► Additional configurations

Use additional configurations to set up code signing, function URL, tags, and Amazon VPC access for your function.

Cancel

Create function

Info

Tutorials

Learn how to implement common use cases in AWS Lambda.

Create a simple web app

In this tutorial you will learn how to:

- Build a simple web app, consisting of a Lambda function with a function URL that outputs a webpage
- Invoke your function through its function URL

[Learn more](#)

Start tutorial

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webstock-connect | Functions | +

ap-southeast-1.console.aws.amazon.com/lambda/home?region=ap-southeast-1#/functions/webstock-connect?newFunction=true&tab=code

Verify it's you

Search [Alt+S]

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Lambda > Functions > webstock-connect

Successfully created the function webstock-connect. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

Code source Info Upload from

webstock-connect

EXPLORER

WEBSTOCK-CONNECT

lambda_function.py

```
1 lambda_function.py X
2 import boto3
3 import os
4
5 dynamodb = boto3.client('dynamodb')
6
7 def lambda_handler(event, context):
8     connectionId = event['requestContext']['connectionId']
9
10     dynamodb.put_item({
11         'TableName': os.environ['WEBSOCKET_TABLE'],
12         'Item': {'connectionId': {'S': connectionId}}
13     })
14
15     return {}
```

Amazon Q Tip 1/3: Start typing to get suggestions ([ESC] to exit)

DEPLOY (UNDEPLOYED CHANGES)

You have undeployed changes.

Deploy (Ctrl+Shift+U)

TEST EVENTS (NONE SELECTED)

Create new test event...

Info Tutorials

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Learn more

Start tutorial



webstock-connect | Functions | x

→ ap-southeast-1.console.aws.amazon.com/lambda/home?region=ap-southeast-1#/functions/webstock-connect?newFunction=true&subtab=envVars&tab=configure

WS Search [Alt+S]

Lambda > Functions > webstock-connect


Successfully updated the function webstock-connect.


webstock-connect

Throttle Copy ARN Actions

Function overview Info

Diagram Template

 webstock-connect

 Layers (0)


+ Add trigger

+ Add destination

Export to Infrastructure Composer Download

Description

Last modified
1 second ago

Function ARN
 `arn:aws:lambda:ap-southeast-1:982081048967:function:webstock-connect`

Function URL Info

Code Test Monitor Configuration Aliases Versions

General configuration Environment variables (1)

Edit

Info Tutorials

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[Learn more](#)

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us-east-1.console.aws.amazon.com/iam/home#/policies/details/arn%3Aaws%3Aiam%3A%3A982081048967%3Apolicy%2Fservice-role%2FAWSLambdaBasicExecutionRole-07f265...

Search [Alt+S]

Global shahid

IAM > Policies > AWSLambdaBasicExecutionRole-07f265b2-4b9a-4744-999d-12483fe859c9 > Edit policy

▼ Actions allowed

Specify actions from the service to be allowed.

Specify ARNs [X]

Visual Text

Resource in
☒ This account ☐ Any account ☐ Other account

Resource region
us-east-1 ☐ Any region

Resource table name
connections connections*
webstocks-connectionsE ☐ Any table name

Resource ARN
arn:aws:dynamodb:us-east-1:982081048967:table/webstocks-connectionsE

Cancel Add ARNs

Effect
☒ Allow ☐ Deny

☐ Any in this account

► Request conditions - optional

Actions on resources are allowed or denied only when these conditions are met.

+ Add more permissions



us-east-1.console.aws.amazon.com/iam/home#/policies/details/am%3Aaws%3Aiam%3A%3A982081048967%3Apolicy%2Fservice-role%2FAWSLambdaBasicExecutionRole-07f265b2-4b9a-4744-999d-12483fe859c9

aws

Search

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Global

shahid

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

Users groups

Users

Roles

Policies

Identity providers

Account settings

Root access management

Access reports

Access Analyzer

Resource analysis

Unused access

Analyzer settings

Credential report

Organization activity

Policy AWSLambdaBasicExecutionRole-07f265b2-4b9a-4744-999d-12483fe859c9 updated.

role/AWSLambdaBasicExecutionRole-07f265b2-4b9a-4744-999d-12483fe859c9

Permissions

Entities attached

Tags

Policy versions (2)

Last Accessed

Permissions defined in this policy

Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it

Search

Allow (2 of 444 services)

Show remaining 442 services

Service	Access level	Resource	Request condition
CloudWatch Logs	Limited: Write	Multiple	None
DynamoDB	Limited: Write	region string like [us-east-1, TableName string like [webstocks-connectionsE	None

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us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions

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Lambda > Functions

Lambda

Dashboard

Applications

Functions

▼ Additional resources

Code signing configurations

Event source mappings

Layers

Replicas

▼ Related AWS resources

Step Functions state machines

Learn more about the Provisioned Mode for Kafka event source mapping (ESM)

A new feature that offers throughput controls and responsive auto-scaling for your Kafka applications

Learn more

Functions (2)

Last fetched 0 seconds ago

Actions

Create function

Filter by attributes or search by keyword

< 1 >

	Function name	Description	Package type	Runtime	Last modified
<input type="checkbox"/>	webstock-connect	-	Zip	Python 3.9	12 minutes ago
<input type="checkbox"/>	websocket-disconnect	-	Zip	Node.js 22.x	3 minutes ago

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Info

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- Invoke your function through its function URL

Learn more

Start tutorial

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Functions (3) Last fetched 0 seconds ago  Actions ▾ Create function

<input type="checkbox"/>	Function name	Description	Package type	Runtime	Last modified
<input type="checkbox"/>	websocket-send	-	Zip	Python 3.9	7 minutes ago
<input type="checkbox"/>	webstock-connect	-	Zip	Python 3.9	23 minutes ago
<input type="checkbox"/>	websocket-disconnect	-	Zip	Node.js 22.x	15 minutes ago

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Networking & Content Delivery

API Gateway

Create and manage APIs at scale

Amazon API Gateway is a fully managed service that makes it easy for developers to create, publish, monitor, and secure APIs.

Get started

Create a new API to begin exploring API Gateway. You can also import an external definition file into API Gateway.

Create an API

How it works



API Gateway enables you to connect and access data, business logic, and functionality from backend services such as workloads running on Amazon Elastic Compute Cloud.

Pricing

With Amazon API Gateway, you only pay when your APIs are in use. There are no minimum fees or upfront commitments. For HTTP and REST APIs, you pay based on API calls received and amount of data transferred out. For WebSocket APIs, you pay based on number of messages and connection duration.

[Learn more about pricing](#)

Resources

[Getting Started Guide](#)

[Developer Guide](#)

API types

REST APIs

Use REST APIs to send request to public or private HTTP endpoints, AWS Lambda functions, or other AWS services. Supports API keys, per-client throttling, request validation, and AWS WAF integration.

Create REST API

HTTP APIs

Use HTTP APIs to send requests to AWS Lambda functions or to any routable HTTP endpoint. HTTP APIs are designed with minimal features so that they can be offered at a lower price.

Create HTTP API

WebSocket APIs

Use WebSocket APIs to build real-time two-way communication applications, such as chat apps and streaming dashboards. API Gateway maintains a persistent connection to handle message transfer between your backend service and your clients.

Create WebSocket API

Benefits

Efficient API development

Deploy multiple versions of the same API at the same time to quickly iterate, test, and release.

Easy monitoring

Visually monitor performance metrics and information on API calls, data latency, and error rates using CloudWatch metrics, CloudWatch Logs, Firehose, and AWS X-Ray.

Develop for any scale

Manage requests at different granularity - at account or client level - using flexible rate limits, API keys, and customizable usage plans.

Flexible security controls

Authorize access to your APIs with AWS Identity and Access Management (IAM) and Amazon Cognito. If you use OAuth tokens, API Gateway offers native OIDC and OAuth2 support. For custom authorization, use [AWS Lambda](#)

Cost savings at scale

With our tiered pricing model for API requests, the more requests you make, the lower your price.

RESTful API options

Create RESTful APIs using either of our products: REST APIs or HTTP APIs. REST APIs support more features than HTTP APIs, while HTTP APIs are designed with minimal features so that they can be offered at a lower price. For

us-east-1.console.aws.amazon.com/apigateway/main/create-ws?region=us-east-1

aws

Search

[Alt+S]

API Gateway

APIs

Create API

Create WebSocket API

Step 1

Configure API

Step 2

Add routes

Step 3

Attach integrations

Step 4

Add stages

Step 5

Review and create

Configure API

API details

API name

A unique ID will also be generated, and it can be used to programmatically refer to this API.

websocket-api

The name is cosmetic and does not have to be unique.

IP address type

Info

Select the type of IP addresses that can invoke the default endpoint for your API. You don't need to redeploy your API for the update to take effect.

IPv4

Includes only IPv4 addresses.

Dualstack

Includes IPv4 and IPv6 addresses.

Route selection expression

Info

A route selection expression tells API Gateway which route to call when a client sends a message.

\$ request.body.action

Create blank API

Cancel

Next

CloudShell

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Step 2

Add routes

Step 3

Attach integrations

Step 4

Add stages

Step 5

Review and create

Integration for **\$connect**

Integration type

Lambda

AWS Region

us-east-1

Lambda function

arn:aws:lambda:us-east-1:982081048967:function:webstock-connect

Integration for **\$disconnect**

Integration type

Lambda

AWS Region

us-east-1

Lambda function

arn:aws:lambda:us-east-1:982081048967:function:websocket-disconnect

Integration for **sendMessage**

Integration type

Lambda

AWS Region

us-east-1

Lambda function

arn:aws:lambda:us-east-1:982081048967:function:websocket-send

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us-east-1.console.aws.amazon.com/apigateway/main/create-ws?region=us-east-1

aws

Search

[Alt+S]

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API Gateway > APIs > Create API > Create WebSocket API

Step 1
Configure API

Step 2
Add routes

Step 3
Attach integrations

Step 4
Add stages

Step 5
Review and create

Stages

Info

Stage name

demo

Add stage

Remove

Cancel

Previous

Next

CloudShell

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Review and create

Step 1: API details

Edit

API name
websocket-api

Route selection expression
\$request.body.action

IP address type
IPv4

Step 2: Routes

Edit

- Route key
- \$connect
- \$disconnect
- sendMessage



Step 3: Integrations

Edit

Route key	Integration type	Integration target
\$connect	Lambda	webstock-connect (us-east-1)
\$disconnect	Lambda	websocket-discooconnect (us-east-1)
sendMessage	Lambda	websocket-send (us-east-1)

Step 4: Stages

Edit

Stage name

demo

Cancel

Previous

Create and deploy



<

VPC links

Settings

Success

100%

Deploy API

```
$request.body.action
```

sendMessage

Delete

```
arn:aws:execute-api:us-east-1:982081048967:qurp2sb6a/*/$connect
```



Edit

API Gateway

APIs

Custom domain names

Domain name access associations

VPC links

▼ API: websocket-api

Routes

Stages

Authorizers

Models

Dashboard

API settings

Usage plans

API keys

Client certificates

Settings

Stages

demo

Stage details

Stage name

demo

Client certificate

-

WebSocket URL

<wss://gurep2sb6a.execute-api.us-east-1.amazonaws.com/demo/>

@connections URL

<https://gurep2sb6a.execute-api.us-east-1.amazonaws.com/demo/@connections>

Active deployment

kso5iz on June 30, 2025, 11:08 (UTC+05:30)

Logs and tracing

CloudWatch logs

Inactive

Data tracing

Inactive

Rate

10000

Burst

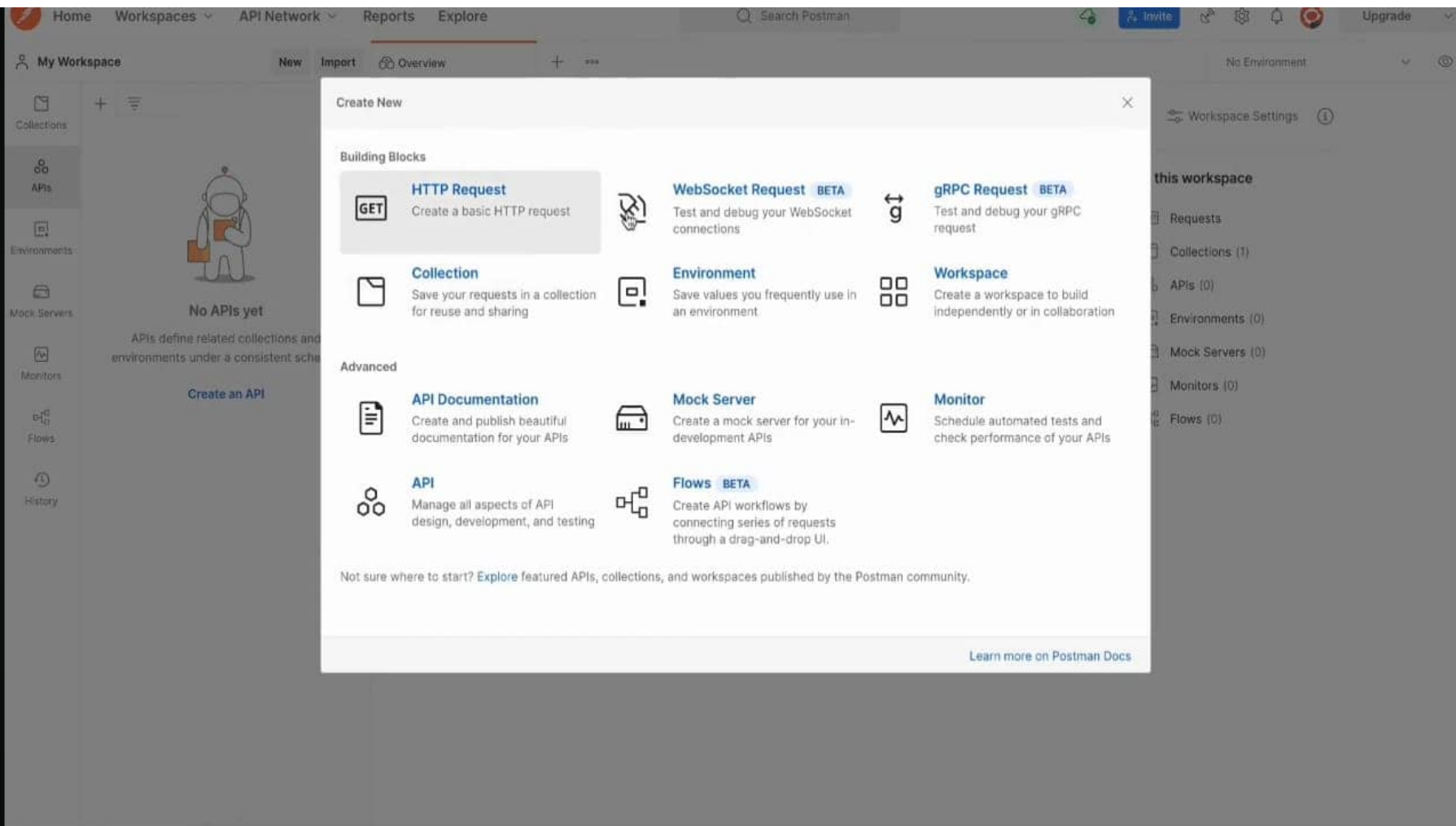
5000

Delete stage

Create stage

Edit

Edit



DynamoDB

Dashboard

Tables

Update settings

Explore items

PartiQL editor New

Backups

Exports to S3

Reserved capacity

▼ DAX

Clusters

Subnet groups

Parameter groups

Events

Tell us what you think

Return to the previous console experience

Density settings

The new DynamoDB console is now complete, and becomes your default experience

Following the preview phase in which we analyzed and incorporated your feedback, we have completed the new DynamoDB console, making it even easier for you to manage your data and resources. Let us know what you think. You can still choose to return to the previous console from the navigation pane.

DynamoDB > Items > websocket-connections

Tables (1)

Any table tag

Find tables by table name

< 1 >

websocket-connections

websocket-connections

Autopreview



Actions

Create item

Update table settings

► Scan/Query items

Expand to query or scan items.

Items returned (3)

< 1 >

connectionId

TMVnTcCbIAMCLGA=

TMVsNfwFoAMCFkg=

TMVtTFEFoAMCKgg=



Home

Workspaces

API Network

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Invite

Upgrade

My Workspace

NewImport

Overview

wss://9px2xdvwgj.exe

No Environment

Collections

APIs

Environments

Mock Servers

Monitors

Flows

History

No APIs yet

APIs define related collections and environments under a consistent schema.

Create an API

Raw

wss://9px2xdvwgj.execute-api.us-east-1.amazonaws.com/demo

Save

Feedback

wss://9px2xdvwgj.execute-api.us-east-1.amazonaws.com/demo

Disconnect

Params

Headers

Settings

New message

Save Message

1

Compose message

Text

Send

Messages

CONNECTED

Search

All Messages

Clear Messages

Connected to wss://9px2xdvwgj.execute-api.us-east-1.amazonaws.com/demo

11:38:39

Saved messages



Home Workspaces API Network Reports Explore Search Postman

My Workspace New Import Overview wss://9px2xdvwgj.exec wss://9px2xdvwgj.exec wss://9px2xdvwgj.exec + ... No Environment

Collections +

APIs

Environments

Mock Servers

Monitors

Flows

History

No APIs yet

APIs define related collections and environments under a consistent schema.

Create an API

Raw wss://9px2xdvwgj.execute-api.us-east-1.amazonaws.com/demo Save Feedback

Disconnect

Params Headers Settings

New message Save Message

1 Compose message

Text Send

Messages CONNECTED

Search All Messages Clear Messages

hello from terminal1

Connected to wss://9px2xdvwgj.execute-api.us-east-1.amazonaws.com/demo 11:39:09

Saved messages



Home Workspaces API Network Reports Explore Search Postman

My Workspace New Import Overview wss://9px2xdvwgj.exe wss://9px2xdvwgj.exe wss://9px2xdvwgj.exe + ... No Environment

Collections + Collections APIs Environments Mock Servers Monitors Flows History

No APIs yet
APIs define related collections and environments under a consistent schema.
[Create an API](#)

Raw wss://9px2xdvwgj.execute-api.us-east-1.amazonaws.com/demo Save Feedback

wss://9px2xdvwgj.execute-api.us-east-1.amazonaws.com/demo Disconnect

Params Headers Settings

New message Save Message

1 Compose message

Text Send

Messages CONNECTED

Search All Messages Clear Messages

Connected to wss://9px2xdvwgj.execute-api.us-east-1.amazonaws.com/demo 11:39:16

Saved messages



Home

workspaces

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Upgrade

My Workspace

NewImport

Overview

wss://9px2xdvwgj.exe

wss://9px2xdvwgj.exe

wss://9px2xdvwgj.exe

+

...

No Environment

Save

Feedback

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APIs

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Mock Servers

Monitors

Flows

History

No APIs yet

APIs define related collections and environments under a consistent schema.

Create an API

Raw

wss://9px2xdvwgj.execute-api.us-east-1.amazonaws.com/demo

Save

Disconnect

Params

Headers

Settings

New message

Save Message

1

[{"action": "sendMessage", "message": "hello from terminal2"}]

Text

Send

Messages

CONNECTED

Search

All Messages

Clear Messages

↑

[{"action": "sendMessage", "message": "hello from terminal2"}]

11:40:50

↓

hello from terminal1

11:40:23

✓

Connected to wss://9px2xdvwgj.execute-api.us-east-1.amazonaws.com/demo

11:39:09