

Screenshot of the AWS Cloud Console showing the Amazon S3 service page.

The URL is [us-east-1.console.aws.amazon.com/s3/get-started?region=us-east-1](https://us-east-1.console.aws.amazon.com/s3/get-started?region=us-east-1).

**Amazon S3**

- General purpose buckets
- Directory buckets
- Table buckets
- Vector buckets
- Access Grants
- Access Points (General Purpose Buckets, FSx file systems)
- Access Points (Directory Buckets)
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

**Storage Lens**

- Dashboards
- Storage Lens groups
- AWS Organizations settings

**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](#)

**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.

Estimate your monthly bill using the [AWS Simple Monthly Calculator](#).

[View pricing details](#)

**How it works**

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Screenshot of the AWS Cloud Console showing the list of buckets.

The URL is [us-east-1.console.aws.amazon.com/s3/buckets?region=us-east-1](https://us-east-1.console.aws.amazon.com/s3/buckets?region=us-east-1).

**Amazon S3 > Buckets**

**General purpose buckets** (2) [Info](#)

Name	AWS Region	Creation date
aws-labs-resources-15b360jjscap-us-east-1-734979449836	US East (N. Virginia) us-east-1	January 30, 2024, 12:31:10 (UTC-05:00)
lab-bucket-dc017fb0	US East (N. Virginia) us-east-1	November 26, 2025, 07:17:30 (UTC-05:00)

**Account snapshot** [Info](#) [View dashboard](#)

Updated daily

Storage Lens provides visibility into storage usage and activity trends.

**External access summary - new** [Info](#)

Updated daily

External access findings help you identify bucket permissions that allow public access or access from other AWS accounts.

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Screenshot of the AWS S3 console showing the 'Edit Block public access (bucket settings)' page for the 'lab-bucket-dc017fb0' bucket.

The 'Block all public access' checkbox is checked. Other options available but unchecked include:

- Block public access to buckets and objects granted through new access control lists (ACLS)**: S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- Block public access to buckets and objects granted through any access control lists (ACLS)**: S3 will ignore all ACLs that grant public access to buckets and objects.
- Block public access to buckets and objects granted through new public bucket or access point policies**: S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- Block public and cross-account access to buckets and objects through any public bucket or access point policies**: S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Buttons at the bottom right: **Cancel** and **Save changes**.

Success message: **Successfully edited Block Public Access settings for this bucket.**

Permissions tab selected in the bucket navigation bar.

Block public access (bucket settings) section details:

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block all public access status: **Off**

Individual Block Public Access settings for this bucket: [Edit](#)

The screenshot shows the AWS S3 'Edit bucket policy' interface. The left sidebar lists various S3 features like General purpose buckets, Storage Lens, and CloudShell. The main area displays a JSON policy document:

```
1  {
2     "Id": "StaticWebPolicy",
3     "Version": "2012-10-17",
4     "Statement": [
5         {
6             "Sid": "S3GetObjectAllow",
7             "Action": [
8                 "s3:GetObject"
9             ],
10            "Effect": "Allow",
11            "Resource": "arn:aws:s3:::lab-bucket-dc017fb0/*",
12            "Principal": "*"
13        }
14    ]
15 }
```

The policy grants public read access to all objects in the bucket. The right side of the screen includes sections for 'Edit statement' and 'Select a statement', along with a link to 'Policy examples'.

The screenshot displays two windows side-by-side. The left window is the AWS S3 console showing the configuration of a static website hosting for a bucket named 'lab-bucket-dc017fb0'. A green success message box is visible. The right window shows a browser displaying a mobile application interface titled 'Vehicle App' with a placeholder message: 'Please, configure the app backend API to fetch the data.' Below this, there is a 'Communication Status' section showing 'Loading .....OK' and 'Waiting for the configuration.'

**Amazon S3**

**General purpose buckets**

- Directory buckets
- Table buckets
- Vector buckets
- Access Grants
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- Access Points (Directory Buckets)
- Object Lambda Access Points
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- IAM Access Analyzer for S3

Block Public Access settings for this account

**Storage Lens**

- Dashboards
- Storage Lens groups
- AWS Organizations settings

**CloudShell Feedback**

53°F Cloudy

Step by step addition | LinkedIn | AWS Skill Builder | Cloud Quest | lab-bucket-dc017fb0 | Inbox (6,532) - jaswanth346728/AWSLabsUser-d6fHVUvRzgh3HxEM4Nid/98ea6b7... | + | - | ○ | × | Account ID: 7349-7944-9836 | AWSLabsUser-d6fHVUvRzgh3HxEM4Nid/98ea6b7...

Search [Alt+S]

Requester pays  
Disabled

**Static website hosting**

Use this bucket to host a website or redirect requests. [Learn more](#)

We recommend using AWS Amplify Hosting for static website hosting  
Deploy a fast, secure, and reliable website quickly with AWS Amplify Hosting. Learn more about [Amplify Hosting](#) or [View your existing Amplify apps](#)

[Create Amplify app](#)

S3 static website hosting  
Enabled

Hosting type  
Bucket hosting

**Bucket website endpoint**  
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)

<http://lab-bucket-dc017fb0.s3-website-us-east-1.amazonaws.com>

**Configure your App**

**Amazon API Gateway**

https://invokeurl/prod/vehicles

Format: https://restapi\_id.execute-api.region.amazonaws.com/stage\_name/vehicles

[Load Backend Data](#)

**Communication Status**

Loading .....OK  
Waiting for the configuration.

**Vehicle App**

Please, configure the app backend API to fetch the data.

CloudShell Feedback

53°F Cloudy

ENG IN 07:48 26-11-2025

Step by step addition | LinkedIn | AWS Skill Builder | Cloud Quest | lab-bucket-dc017fb0 | Vehicle App | Inbox (6,532) - jaswanth346728/AWSLabsUser-d6fHVUvRzgh3HxEM4Nid/98ea6b7... | + | - | ○ | × | Account ID: 7349-7944-9836 | AWSLabsUser-d6fHVUvRzgh3HxEM4Nid/98ea6b7...

Search

Screenshot of the AWS API Gateway Resources page:

**API Gateway** > **APIs** > Resources - lab-api-a42a7757-14cd-4530-9100-26406d884dd6 (vavfp7bdh0)

**Resources**

- Create resource**
- Path**: /
- OPTIONS**:
  - /vehicles
  - GET
  - OPTIONS
  - (id)
  - GET
  - OPTIONS

**Resource details**

- Path**: /
- Resource ID**: j94m7w3s80

**Methods (1)**

Method type	Integration type	Authorization	API key
OPTIONS	Mock	None	Not required

**API actions**: Update documentation, Enable CORS, Deploy API

**Stages**

Screenshot of the AWS API Gateway Stages page:

**API Gateway** > **APIs** > lab-api-a42a7757-14cd-4530-9100-26406d884dd6 (vavfp7bdh0) > Stages

**Stages**

- prod**

**Stage details**

- Stage name**: prod
- Rate info**: 10000
- Web ACL**: -
- Cache cluster info**: Inactive
- Burst info**: 5000
- Client certificate**: -
- Default method-level caching**: Inactive
- Invoke URL**: https://vavfp7bdh0.execute-api.us-east-1.amazonaws.com/prod
- Active deployment**: f14ch0 on November 26, 2025, 07:19 (UTC-05:00)

**Logs and tracing**

- CloudWatch logs**: Error and info logs
- Detailed metrics**: Active
- Data tracing**: Active

**Configure your App**

**Amazon API Gateway**

https://vavfp7bdh0.execute-api.us-east-1.amazonaws.com/prod/vehicle

Format: https://restapi\_id.execute-api.region.amazonaws.com/stage\_name/vehicles

**Communication Status**

The App received a response from the API, but the data is empty.

GET  
https://vavfp7bdh0.execute-api.us-east-1.amazonaws.com/prod/vehicles  
Status: 200  
Body: Empty

**Attention**

The Vehicle App couldn't fetch the data

**API Gateway - Resources**

APIs  
Custom domain names  
Domain name access associations  
VPC links

API: lab-api-a42a7757-14cd-4530-9100-26406d884dd6 (vavfp7bdh0)

Resources

Stages  
Authorizers  
Gateway responses  
Models  
Resource policy  
Documentation  
Dashboard  
API settings

Usage plans

**Create resource**

/ OPTIONS / /vehicles GET  
OPTIONS /{id} GET  
OPTIONS

**Method request** → **Integration request** → **Mock integration**

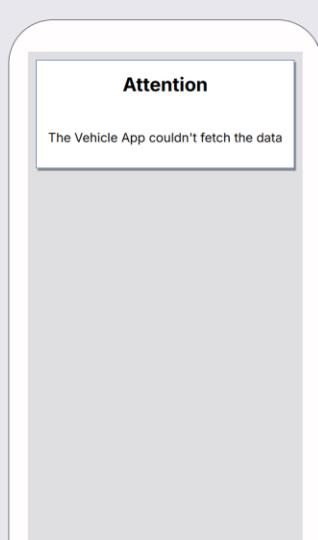
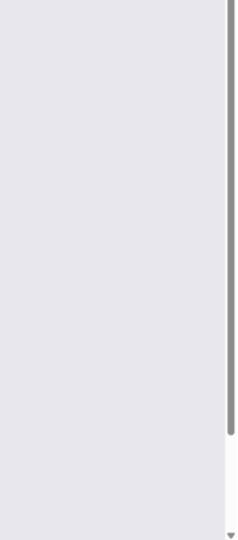
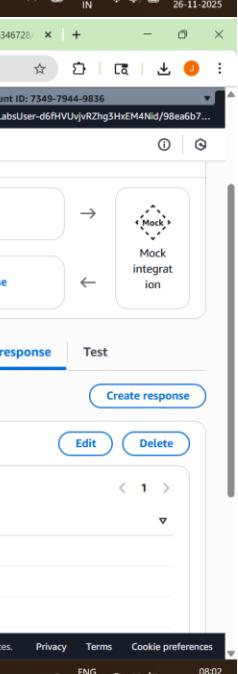
**Method response** ← **Integration response** ← **Mock integration**

**Method responses** Info

**Response 200**

**Response headers (4)**

Name  
Access-Control-Allow-Credentials  
Access-Control-Allow-Headers  
Access-Control-Allow-Methods

Screenshot of the AWS API Gateway integration configuration screen:

**Method details**

**Integration type**

- Lambda function: Integrate your API with a Lambda function.
- HTTP: Integrate with an existing HTTP endpoint.
- Mock: Generate a response based on API Gateway mappings and transformations.
- AWS service: Integrate with an AWS Service.
- VPC link: Integrate with a resource that isn't accessible over the public internet.

**Different integration type**  
If you switch the integration type, you will overwrite the existing configuration. This action cannot be undone.

**Response transfer mode** | [Info](#)

- Buffered: Wait to receive the complete response before beginning transmission.
- Stream: Send portions of the response without waiting for the complete response.

Screenshot of the AWS API Gateway deployment confirmation screen:

**API Gateway**

**Stages**

**Stage details**

- Stage name:** prod
- Rate Info:** 10000
- Burst Info:** 5000
- Default method-level caching:** Inactive
- Web ACL:** -
- Client certificate:** -

**Invoke URL:** <https://vavfp7bdh0.execute-api.us-east-1.amazonaws.com/prod>

**Active deployment:** zbz9de on November 26, 2025, 08:06 (UTC-05:00)

The screenshot shows two browser windows side-by-side.

**Left Browser Window:**

- Title: Configure your App
- Section: Amazon API Gateway
- Text area:

```
https://vavfp7bdh0.execute-api.us-east-1.amazonaws.com/prod/vehicle

Format: https://restapi_id.execute-api.region.amazonaws.com/stage_name/vehicles
```
- Button: Load Backend Data

**Right Browser Window:**

- Title: Attention
- Text: The Vehicle App couldn't fetch the data

**Bottom Navigation Bar:**

- Icons: Cloudy, 54°F
- Search bar: Search [Alt+S]
- Region: United States (N. Virginia)
- Account ID: 7349-7944-9836
- User: AWSLabsUser-d6fHVUjvR2hg3HxEM4Nid/98ea6b7...
- Date: 26-11-2025

**Second Browser Window (CloudWatch Logs):**

- Path: CloudWatch > Log groups > API-Gateway-Execution-Logs\_vavfp7bdh0/prod
- Title: API-Gateway-Execution-Logs\_vavfp7bdh0/prod
- Section: Log group details
  - Log class: Info
  - ARN: arn:aws:logs:us-east-1:734979449836:log-group:API-Gateway-Execution-Logs\_vavfp7bdh0/prod:\*
  - Creation time: 52 minutes ago
  - Retention: Never expire
  - Stored bytes: -
  - Metric filters: 0
  - Subscription filters: 0
  - Contributor insights rules: -
  - KMS key ID: -
  - Deletion protection: Off
  - Data protection: -
  - Sensitive data count: -
  - Custom field indexes: Configure
  - Transformer: Configure
  - Anomaly detection: Configure
- Log streams tab: Log streams (2)
- Buttons: Create log stream, Search all log streams

Screenshot of the AWS CloudWatch Log Events interface showing log entries for an API Gateway execution. The logs detail an error response from a Lambda function named 'find\_all\_vehicles' due to an AccessDeniedException.

```

    (ec6784a5-8f3f-4605-8daa-019ffc7ed8ca) Endpoint response headers: (Date=Wed, 26 Nov 2025 13:07:13 GMT, Content-Type=application/json, Content-Length=487, Connection=keep-alive, x-amzn-RequestId=1ec2bb53-3ea6-463d-a715-87a8d84638ef, x-amzn-Remapped-Content-Length=0, X-Amz-Executed-Version=$LATEST, X-Amzn-Trace-Id=Root-1-6926fb80-6c5507dc5a3452d23931a262;Parent=2357d04441fd98c7;Sampled=0;Lineage=1:1d18f75:0)
    2025-11-26T13:07:13.366Z (ec6784a5-8f3f-4605-8daa-019ffc7ed8ca) Endpoint response body before transformations: {"status": "error", "body": "An error occurred (AccessDeniedException) when calling the Scan operation: User: arn:aws:sts::734979449836:assumed-role/find_all_role-d017fd0/ find_all_vehicles is not authorized to perform: dynamodb:Scan on resource: arn:aws:dynamodb:us-east-1:734979449836:table/vehicles because no identity-based policy allows the dynamodb:Scan action."}
    (ec6784a5-8f3f-4605-8daa-019ffc7ed8ca) Method response body after transformations: {"error": {"message": "An error occurred (AccessDeniedException) when calling the Scan operation: User: arn:aws:sts::734979449836:assumed-role/find_all_role-d017fd0/ find_all_vehicles is not authorized to perform: dynamodb:Scan on resource: arn:aws:dynamodb:us-east-1:734979449836:table/vehicles because no identity-based policy allows the dynamodb:Scan action."}}
    2025-11-26T13:07:13.366Z (ec6784a5-8f3f-4605-8daa-019ffc7ed8ca) Method response body after transformations: {"error": {"message": "An error occurred (AccessDeniedException) when calling the Scan operation: User: arn:aws:sts::734979449836:assumed-role/find_all_role-d017fd0/ find_all_vehicles is not authorized to perform: dynamodb:Scan on resource: arn:aws:dynamodb:us-east-1:734979449836:table/vehicles because no identity-based policy allows the dynamodb:Scan action."}}

```

Screenshot of the AWS Lambda Functions interface showing the configuration for the 'find\_all\_vehicles' function. The function is triggered by an API Gateway endpoint.

**Function Overview**

- Related functions:** Select a function
- Description**: Last modified 59 minutes ago
- Function ARN**: arn:aws:lambda:us-east-1:734979449836:function:find\_all\_vehicles
- Application**: LabStack-98ea6b70-bd2e-4609-9a08-bd2aa8928a89-  
d6fhVUVjvRZhg3HxEM4Nid-98ea6b7...
- Function URL**: -

Screenshot of the AWS Lambda console showing the configuration of the 'find\_all\_vehicles' function.

The left sidebar shows the following tabs: Code, Test, Monitor, Configuration (selected), Aliases, and Versions.

**Execution role**

**Role name:** find\_all\_role-dc017fb0

**Resource summary:** Amazon CloudWatch Logs

**Actions:** Allow: logs:CreateLogGroup, Allow: logs:CreateLogStream, Allow: logs:PutLogEvents

**Timeout:** 0 min 30 sec

**Execution role:**

Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

Use an existing role

Create a new role from AWS policy templates

**Role creation might take a few minutes. Do not delete the role or edit the trust or permissions policies in this role.**

**Role name:** lab-find\_all\_vehicles\_dynamodb-role

Enter a name for your new role. Use only letters, numbers, hyphens, or underscores with no spaces.

**Policy templates - optional**

Choose one or more policy templates.

Simple microservice permissions [DynamoDB](#)

**Save**

Screenshot of the AWS Lambda console showing the execution role configuration for the function "find\_all\_vehicles".

**Execution role:** lab-find\_all\_vehicles\_dynamodb-role1

**Resource summary:**

- Amazon CloudWatch Logs (3 actions, 2 resources)
- arn:aws:logs:us-east-1:734979449836: Allow: logs:CreateLogGroup
- arn:aws:logs:us-east-1:734979449836:log-group:/aws/lambda/find\_all\_vehicles: Allow: logs:CreateLogStream  
Allow: logs:PutLogEvents

**Configure your App:**

**Amazon API Gateway:**

- URL: https://vavfp7bdh0.execute-api.us-east-1.amazonaws.com/prod/vehicle
- Format: https://restapi\_id.execute-api.region.amazonaws.com/stage\_name/vehicles
- Load Backend Data

**Communication Status:**

The App received data from the API.

```

GET
https://vavfp7bdh0.execute-api.us-east-1.amazonaws.com/prod/vehicles
Status: 200
Body: [
  {
    "capacity": "1000",
    "id": "2",
    "name": "Ultra Collector",
    "type": "full_size"
  },
  {
    "capacity": "500",
    "id": "1",
    "name": "Pandora Collector",
    "type": "standard"
  }
]

```

**Ultra Collector:** ID 2, Type full\_size

**Pandora Collector:** ID 1, Type standard

**Extra Collector:** ID 3, Type full\_size

Screenshot of a web browser showing the "Vehicle App" interface. The title bar says "Configure your App". The main content area has two sections: "Amazon API Gateway" and "Communication Status".

**Amazon API Gateway:**

- URL: <https://vavifp7bdh0.execute-api.us-east-1.amazonaws.com/prod/vehicle>
- Format: [https://restapi\\_id.execute-api.region.amazonaws.com/stage\\_name/vehicles](https://restapi_id.execute-api.region.amazonaws.com/stage_name/vehicles)

**Communication Status:**

The App received a Internal Server Error from Server, verify your backend.

```
GET https://vavifp7bdh0.execute-api.us-east-1.amazonaws.com/prod/vehicles/{id}
Status: 500
Body: {"message": "Internal server error"}
```

A modal window titled "Attention" displays the message: "The Vehicle App couldn't fetch the data".

Screenshot of the AWS Lambda console showing the "find\_vehicle" function details.

**Function overview:**

- Description:** -
- Last modified:** 31 seconds ago
- Function ARN:** arn:aws:lambda:us-east-1:734979449836:function:find\_vehicle
- Application:** LabStack-98ea6b70-bd2e-4609-9a08-bd2aa8928a89-d6fHVUjvRZhg3HxEM4Nid-0
- Function URL:** [Info](#)

**Destinations:** find\_vehicle | Fun | Vehicle App

**Configuration:** Code | Test | Monitor | Configuration | Aliases | Versions

Screenshot of the AWS Lambda function configuration page for 'find\_vehicle'.

The left sidebar shows the following navigation:

- General configuration
- Triggers
- Permissions**
- Destinations
- Function URL
- Environment variables
- Tags
- VPC
- RDS databases
- Monitoring and operations tools
- Concurrency and recursion detection
- Asynchronous invocation
- Code signing
- CloudShell
- Feedback

The main content area is titled "Execution role" and shows the role name "lab\_role\_dynamodb".

**Resource summary**

To view the resources and actions that your function has permission to access, choose a service.

Amazon CloudWatch Logs

3 actions, 2 resources

By action | **By resource**

Resource	Actions
arn:aws:logs:us-east-1:734979449836:*	Allow: logs>CreateLogGroup
arn:aws:logs:us-east-1:734979449836:log-group:/aws/lambda/find_vehicle:*	Allow: logs>CreateLogStream Allow: logs:PutLogEvents

**Configure your App**

**Amazon API Gateway**

https://vavfp7bdh0.execute-api.us-east-1.amazonaws.com/prod/vehicle

Format: https://restapi\_id.execute-api.region.amazonaws.com/stage\_name/vehicles

Load Backend Data

**Communication Status**

The App received data from the API.

```
GET
https://vavfp7bdh0.execute-api.us-east-1.amazonaws.com/prod/vehicles/3
Status: 200
Body: {
  "capacity": "2000",
  "id": "3",
  "name": "Extra Collector",
  "type": "full_size"
}
```

55°F Cloudy

Search

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Account ID: 7349-7944-9836  
AWSLabsUser-d6fHVUv/R2hg3HxEM4Nid/98ea6b7...

Inbox (6,534) - Jaswanth346728...

Vehicle App

find\_vehicle | Function

Cloud Quest

AWS Skill Builder

(5) Feed | LinkedIn

Step by step add...

