AWS Elemental MediaStore: API Reference
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API Version 2017-09-01
Welcome

AWS Elemental MediaStore

An AWS Elemental MediaStore container is a namespace that holds folders and objects. You use a container endpoint to create, read, and delete objects.

AWS Elemental MediaStore Data Plane

An AWS Elemental MediaStore asset is an object, similar to an object in the Amazon S3 service. Objects are the fundamental entities that are stored in AWS Elemental MediaStore.
Actions

The following actions are supported by AWS Elemental MediaStore:

- CreateContainer (p. 3)
- DeleteContainer (p. 6)
- DeleteContainerPolicy (p. 8)
- DescribeContainer (p. 10)
- GetContainerPolicy (p. 12)
- ListContainers (p. 14)
- PutContainerPolicy (p. 17)

The following actions are supported by AWS Elemental MediaStore Data Plane:

- DeleteObject (p. 19)
- DescribeObject (p. 21)
- GetObject (p. 24)
- ListItems (p. 27)
- PutObject (p. 29)

AWS Elemental MediaStore

The following actions are supported by AWS Elemental MediaStore:

- CreateContainer (p. 3)
- DeleteContainer (p. 6)
- DeleteContainerPolicy (p. 8)
- DescribeContainer (p. 10)
- GetContainerPolicy (p. 12)
- ListContainers (p. 14)
- PutContainerPolicy (p. 17)
CreateContainer
Service: AWS Elemental MediaStore

Creates a storage container to hold objects. A container is similar to a bucket in the Amazon S3 service.

Request Syntax

```json
{
    "ContainerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 37).

The request accepts the following data in JSON format.

**ContainerName (p. 3)**

The name for the container. The name must be from 1 to 255 characters. Container names must be unique to your AWS account within a specific region. As an example, you could create a container named movies in every region, as long as you don’t have an existing container with that name.

**Type:** String

**Length Constraints:** Minimum length of 1. Maximum length of 255.

**Pattern:** \w+

**Required:** Yes

Response Syntax

```json
{
    "Container": {
        "ARN": "string",
        "CreationTime": number,
        "Endpoint": "string",
        "Name": "string",
        "Status": "string"
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**Container (p. 3)**

ContainerARN: The Amazon Resource Name (ARN) of the newly created container. The ARN has the following format: arn:aws:<region>:<account that owns this container>:container/<name of container>. For example: arn:aws:mediastore:us-west-2:111122223333:container/movies
ContainerName: The container name as specified in the request.

CreationTime: Unix timestamp.

Status: The status of container creation or deletion. The status is one of the following: CREATING, ACTIVE, or DELETING. While the service is creating the container, the status is CREATING. When an endpoint is available, the status changes to ACTIVE.

The return value does not include the container's endpoint. To make downstream requests, you must obtain this value by using DescribeContainer (p. 10) or ListContainers (p. 14).

Type: Container (p. 33) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 39).

ContainerInUseException

Resource already exists or is being updated.

HTTP Status Code: 400

InternalServerError

The service is temporarily unavailable.

HTTP Status Code: 500

LimitExceededException

A service limit has been exceeded.

HTTP Status Code: 400

Examples

Example Request

The following example shows how to create a container with the name movies:

```
POST / HTTP/1.1
Host: mediastore.us-west-2.amazonaws.com
x-amz-Date: 20170323T120000Z
x-amz-target:ElementalMediaStoreService_20160711.CreateContainer
content-type:application/x-amz-json-1.1
Content-Length:30
Authorization: AWS4-HMAC-SHA256
Credential=AKIAIOSFODNN7EXAMPLE/20141123/us-west-2/mediastore/aws4_request,
SignedHeaders=host;x-amz-date;x-amz-mediastore-version,
Signature=9257c16da6b25a715ce900a5b45b03da0447acf430195dcb540091b12966f2a2
{
    "ContainerName": "movies",
}
```

Example Response

HTTP/1.1
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DeleteContainer
Service: AWS Elemental MediaStore

Deletes the specified container. Before you make a DeleteContainer request, delete any objects in the container or in any folders in the container. You can delete only empty containers.

Request Syntax

```json
{
  "ContainerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 37).

The request accepts the following data in JSON format.

**ContainerName (p. 6)**

- The name of the container to delete.
- Type: String
- Pattern: \w+
- Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 39).

**ContainerInUseException**

- Resource already exists or is being updated.
- HTTP Status Code: 400

**ContainerNotFoundException**

- Could not perform an operation on a container that does not exist.
- HTTP Status Code: 400

**InternalServerException**

- The service is temporarily unavailable.
- HTTP Status Code: 500
Example

Example Request

The following command has no return value:

```
POST / HTTP/1.1
content-type:application/x-amz-json-1.1
host:mediastore.us-west-2.amazonaws.com
x-amz-date:20170620T230417Z
x-amz-target:ElementalMediaStoreService_20160711.DeleteContainer
{
  "ContainerName":"movies"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DeleteContainerPolicy
Service: AWS Elemental MediaStore
Deletestheaccesspolicythatissociatedwiththespecifiedcontainer.

Request Syntax

```json
{
   "ContainerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 37).

The request accepts the following data in JSON format.

**ContainerName (p. 8)**

The name of the container that holds the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: \w+

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 39).

**ContainerInUseException**

Resource already exists or is being updated.

HTTP Status Code: 400

**ContainerNotFoundException**

Could not perform an operation on a container that does not exist.

HTTP Status Code: 400

**InternalServerError**

The service is temporarily unavailable.

HTTP Status Code: 500

**PolicyNotFoundException**

Could not perform an operation on a policy that does not exist.
HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DescribeContainer
Service: AWS Elemental MediaStore

Retrieves the properties of the requested container. This request is commonly used to retrieve the endpoint of a container. An endpoint is a value assigned by the service when a new container is created. A container's endpoint will not change once it has been assigned. The DescribeContainer request returns a single Container object based on ContainerName. To return all Container objects that are associated with a specified AWS account, use ListContainers (p. 14).

Request Syntax

```json
{
  "ContainerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 37).

The request accepts the following data in JSON format.

**ContainerName (p. 10)**

The name of the container to query.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: \w+

Required: No

Response Syntax

```json
{
  "Container": {
    "ARN": "string",
    "CreationTime": number,
    "Endpoint": "string",
    "Name": "string",
    "Status": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**Container (p. 10)**

The name of the queried container.
Type: Container (p. 33) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 39).

ContainerNotFoundException

Could not perform an operation on a container that does not exist.

HTTP Status Code: 400

InternalServerError

The service is temporarily unavailable.

HTTP Status Code: 500

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
GetContainerPolicy
Service: AWS Elemental MediaStore

Retrieves the access policy for the specified container. For information about the data that is included in an access policy, see the AWS Identity and Access Management User Guide.

Request Syntax

```
{}

  "ContainerName": "string"

```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 37).

The request accepts the following data in JSON format.

ContainerName (p. 12)

The name of the container.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: \w+

Required: Yes

Response Syntax

```
{}

  "Policy": "string"

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Policy (p. 12)

The contents of the access policy.

Type: String


Pattern: [\u0009\u000A\u000D\u0020-\u00FF]+

Errors

For information about the errors that are common to all actions, see Common Errors (p. 39).
ContainerInUseException

Resource already exists or is being updated.

HTTP Status Code: 400

ContainerNotFoundException

Could not perform an operation on a container that does not exist.

HTTP Status Code: 400

InternalServerError

The service is temporarily unavailable.

HTTP Status Code: 500

PolicyNotFoundException

Could not perform an operation on a policy that does not exist.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
**ListContainers**

Service: AWS Elemental MediaStore

Lists the properties of all containers in AWS Elemental MediaStore.

You can query to receive all the containers in one response. Or you can include the `MaxResults` parameter to receive a limited number of containers in each response. In this case, the response includes a token. To get the next set of containers, send the command again, this time with the `NextToken` parameter (with the returned token as its value). The next set of responses appears, with a token if there are still more containers to receive.

See also DescribeContainer (p. 10), which gets the properties of one container.

**Request Syntax**

```
{
    "MaxResults": number,
    "NextToken": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 37).

The request accepts the following data in JSON format.

**MaxResults (p. 14)**

Enter the maximum number of containers in the response. Use from 1 to 255 characters.

- Type: Integer
- Valid Range: Minimum value of 1. Maximum value of 100.
- Required: No

**NextToken (p. 14)**

Only if you used `MaxResults` in the first command, enter the token (which was included in the previous response) to obtain the next set of containers. This token is included in a response only if there actually are more containers to list.

- Type: String
- Pattern: [0-9A-Za-z=/+]*
- Required: No

**Response Syntax**

```
{
    "Containers": [
        {
            "ARN": "string",
        }
    ]
}
```
"CreationTime": number,
"Endpoint": "string",
"Name": "string",
"Status": "string"
}
],
"NextToken": "string"
}

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Containers (p. 14)

The names of the containers.

Type: Array of Container (p. 33) objects

NextToken (p. 14)

NextToken is the token to use in the next call to ListContainers. This token is returned only if you included the MaxResults tag in the original command, and only if there are still containers to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [0-9A-Za-z=/+]+

Errors

For information about the errors that are common to all actions, see Common Errors (p. 39).

InternalServerError

The service is temporarily unavailable.

HTTP Status Code: 500

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
PutContainerPolicy
Service: AWS Elemental MediaStore

Creates an access policy for the specified container to restrict the users and clients that can access it. For information about the data that is included in an access policy, see the AWS Identity and Access Management User Guide.

For this release of the REST API, you can create only one policy for a container. If you enter PutContainerPolicy twice, the second command modifies the existing policy.

Request Syntax

```
{
   "ContainerName": "string",
   "Policy": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 37).

The request accepts the following data in JSON format.

ContainerName (p. 17)

   The name of the container.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 255.
   Pattern: \w+
   Required: Yes

Policy (p. 17)

   The contents of the policy, which includes the following:
   - One Version tag
   - One Statement tag that contains the standard tags for the policy.
   Type: String
   Pattern: [\u0009\u000A\u000D\u0020-\u00FF]+
   Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 39).
ContainerInUseException

Resource already exists or is being updated.

HTTP Status Code: 400

ContainerNotFoundException

Could not perform an operation on a container that does not exist.

HTTP Status Code: 400

InternalServerError

The service is temporarily unavailable.

HTTP Status Code: 500

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

AWS Elemental MediaStore Data Plane

The following actions are supported by AWS Elemental MediaStore Data Plane:

- DeleteObject (p. 19)
- DescribeObject (p. 21)
- GetObject (p. 24)
- ListItems (p. 27)
- PutObject (p. 29)
DeleteObject
Service: AWS Elemental MediaStore Data Plane

Deletes an object at the specified path.

Request Syntax

```
DELETE /Path HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

**Path (p. 19)**

The path (including the file name) where the object is stored in the container. Format: `<folder name>/<folder name>/<file name>`


Pattern: `(?:[A-Za-z0-9._\-~]+/){0,10}[A-Za-z0-9._\-~]+`  

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 39)](#).

- **ContainerNotFoundException**
  
  The specified container was not found for the specified account.

  HTTP Status Code: 404

- **InternalServerError**
  
  The service is temporarily unavailable.

  HTTP Status Code: 500

- **ObjectNotFoundException**
  
  Could not perform an operation on an object that does not exist.

  HTTP Status Code: 404
Example

The following request deletes the file mlaw.avi that is in the folder premium/canada:

```
DELETE premium/canada/mlaw.avi
Host: https://aaabbbcccddee.files.mediastore-us-west-2.com
x-amz-Date: 20170323T120000Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20141123/us-west-2/mediastore/aws4_request,SignedHeaders=host;x-amz-date;x-amz-mediastore-version,Signature=9257c16da6b25a715ce900a5b45b03da0447acf430195dcb540091b12966f2a2
Content-Length: 0
x-amz-mediastore-version: 2016-07-11
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DescribeObject
Service: AWS Elemental MediaStore Data Plane

Gets the headers for an object at the specified path.

Request Syntax

```plaintext
HEAD /Path+ HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

**Path (p. 21)**

The path (including the file name) where the object is stored in the container. Format: `<folder name>/<folder name>/<file name>`


Request Body

The request does not have a request body.

Response Syntax

```plaintext
HTTP/1.1 200
ETag: ETag
Content-Type: ContentType
Content-Length: ContentLength
Cache-Control: CacheControl
Last-Modified: LastModified
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following HTTP headers.

**CacheControl (p. 21)**

An optional CacheControl header that allows the caller to control the object's cache behavior. Headers can be passed in as specified in the HTTP at [https://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.9](https://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.9).

Headers with a custom user-defined value are also accepted.

**ContentLength (p. 21)**

The length of the object in bytes.

Valid Range: Minimum value of 0.
**ContentType (p. 21)**

The content type of the object.

Pattern: \^[\w\-\~/\.]\{1,255\}\$

**ETag (p. 21)**

The ETag that represents a unique instance of the object.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: \[0-9A-Fa-f]+\]

**LastModified (p. 21)**

The date and time that the object was last modified.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 39).

**ContainerNotFoundException**

The specified container was not found for the specified account.

HTTP Status Code: 404

**InternalServerError**

The service is temporarily unavailable.

HTTP Status Code: 500

**ObjectNotFoundException**

Could not perform an operation on an object that does not exist.

HTTP Status Code: 404

**Example**

The following request gets the headers for the file `mlaw.avi` from the folder `premium/canada` in the container that is identified by the endpoint that is specified in the `Host:` header.

```
HEAD premium/canada/mlaw.avi
Host: https://aaabbbccccddee.files.mediastore-us-west-2.com
x-amz-Date: 20170323T120000Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20141123/us-west-2/mediastore/aws4_request,SignedHeaders=host;x-amz-date;x-amz-mediastore-version,Signature=9257c16da6b25a715ce900a5b45b03da0447acf430195dcb540091b12966f2a2
Content-Length: 0
x-amz-mediastore-version: 2016-07-11
```

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V2
GetObject
Service: AWS Elemental MediaStore Data Plane
Downloads the object at the specified path.

Request Syntax

```
GET /Path+ HTTP/1.1
Range: Range
```

URI Request Parameters

The request requires the following URI parameters.

Path (p. 24)

The path (including the file name) where the object is stored in the container. Format: <folder name>/<folder name>/<file name>

For example, to upload the file `mlaw.avi` to the folder path `premium\canada` in the container `movies`, enter the path `premium/canada/mlaw.avi`.

Do not include the container name in this path.

If the path includes any folders that don’t exist yet, the service creates them. For example, suppose you have an existing `premium\usa` subfolder. If you specify `premium/canada`, the service creates a `canada` subfolder in the `premium` folder. You then have two subfolders, `usa` and `canada`, in the `premium` folder.

There is no correlation between the path to the source and the path (folders) in the container in AWS Elemental MediaStore.

For more information about folders and how they exist in a container, see the AWS Elemental MediaStore User Guide.

The file name is the name that is assigned to the file that you upload. The file can have the same name inside and outside of AWS Elemental MediaStore, or it can have the same name. The file name can include or omit an extension.


Pattern: `(?:[A-Za-z0-9._/-]+/){0,10}[A-Za-z0-9._/-]+`

Range (p. 24)

The range bytes of an object to retrieve. For more information about the Range header, go to `http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.35`.

Pattern: `^bytes=(?:\d+\-\d*|\d*\-\d+)$`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 StatusCode
```
Response Elements

If the action is successful, the service sends back the following HTTP response.

**StatusCode (p. 24)**

The HTML status code of the request. Status codes ranging from 200 to 299 indicate success. All other status codes indicate the type of error that occurred.

The response returns the following HTTP headers.

**CacheControl (p. 24)**

An optional CacheControl header that allows the caller to control the object’s cache behavior. Headers can be passed in as specified in the HTTP spec at [https://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.9](https://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.9).

Headers with a custom user-defined value are also accepted.

**ContentLength (p. 24)**

The length of the object in bytes.

**ContentRange (p. 24)**

The range of bytes to retrieve.

**ContentType (p. 24)**

The content type of the object.

**ETag (p. 24)**

The ETag that represents a unique instance of the object.

Length Constraints: Minimum length of 1. Maximum length of 64.

**LastModified (p. 24)**

The date and time that the object was last modified.

The response returns the following as the HTTP body.

**Body (p. 24)**

The bytes of the object.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 39).

**ContainerNotFoundException**

The specified container was not found for the specified account.

HTTP Status Code: 404

**InternalServerErro**

The service is temporarily unavailable.

HTTP Status Code: 500

**ObjectNotFoundException**

Could not perform an operation on an object that does not exist.

HTTP Status Code: 404

**RequestedRangeNotSatisfiableException**

The requested content range is not valid.

HTTP Status Code: 416

Example

The following request downloads the file `mlaw.avi` from the folder `premium/canada` in the container that is identified by the endpoint that is specified in the `Host:` header.

```
GET premium/canada/mlaw.avi
Host: https://aaabbbccddeee.files.mediastore-us-west-2.com
x-amz-Date: 20170323T120000Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20141123/us-west-2/mediastore/aws4_request,SignedHeaders=host;x-amz-date;x-amz-mediastore-version,Signature=9257c16da6b25a715ce900a5b45b03da0447acf430195dcb540091b12966f2a2
Content-Length: 0
x-amz-mediastore-version: 2016-07-11
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
ListItems
Service: AWS Elemental MediaStore Data Plane
Provides a list of metadata entries about folders and objects in the specified folder.

Request Syntax

```
GET /?MaxResults=MaxResults&NextToken=NextToken&Path=Path HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

MaxResults (p. 27)
The maximum results to return. The service might return fewer results.
Valid Range: Minimum value of 1. Maximum value of 1000.

NextToken (p. 27)
The NextToken received in the ListItemsResponse for the same container and path. Tokens expire after 15 minutes.

Path (p. 27)
The path in the container from which to retrieve items. Format: <folder name>/<folder name>/<file name>
Length Constraints: Minimum length of 0. Maximum length of 900.
Pattern: /(?:[A-Za-z0-9_-]+\./-]+)(0,10)(?:[A-Za-z0-9_-]+\./-]+)?/?

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "Items": [
    {
      "ContentLength": number,
      "ContentType": "string",
      "ETag": "string",
      "LastModified": number,
      "Name": "string",
      "Type": "string"
    }
  ],
  "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in JSON format by the service.

**Items (p. 27)**

Metadata entries for the folders and objects at the requested path.

Type: Array of Item (p. 35) objects

**NextToken (p. 27)**

The NextToken used to request the next page of results using ListItems.

Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 39).

**ContainerNotFoundException**

The specified container was not found for the specified account.

HTTP Status Code: 404

**InternalServerException**

The service is temporarily unavailable.

HTTP Status Code: 500

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
**PutObject**  
_Service:_ AWS Elemental MediaStore Data Plane

Uploads an object to the specified path. Object sizes are limited to 10 MB.

**Request Syntax**

```
PUT /Path+ HTTP/1.1
Content-Type: ContentType
Cache-Control: CacheControl
x-amz-storage-class: StorageClass

Body
```

**URI Request Parameters**

The request requires the following URI parameters.

**CacheControl (p. 29)**

An optional CacheControl header that allows the caller to control the object's cache behavior. Headers can be passed in as specified in the HTTP at https://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.9.

Headers with a custom user-defined value are also accepted.

**ContentType (p. 29)**

The content type of the object.

Pattern: `^[\w\-\./\~]{1,255}$`

**Path (p. 29)**

The path (including the file name) where the object is stored in the container. Format: `<folder name>/<folder name>/<file name>`

For example, to upload the file `mlaw.avi` to the folder path `premium\canada` in the container `movies`, enter the path `premium/canada/mlaw.avi`.

Do not include the container name in this path.

If the path includes any folders that don't exist yet, the service creates them. For example, suppose you have an existing `premium/usa` subfolder. If you specify `premium/canada`, the service creates a `canada` subfolder in the `premium` folder. You then have two subfolders, `usa` and `canada`, in the `premium` folder.

There is no correlation between the path to the source and the path (folders) in the container in AWS Elemental MediaStore.

For more information about folders and how they exist in a container, see the AWS Elemental MediaStore User Guide.

The file name is the name that is assigned to the file that you upload. The file can have the same name inside and outside of AWS Elemental MediaStore, or it can have the same name. The file name can include or omit an extension.


Pattern: `(?:[A-Za-z0-9\._\-]*)+(?:[A-Za-z0-9\._\-]+)\{0,10\}[A-Za-z0-9\._\-]+`
StorageClass (p. 29)

Indicates the storage class of a `Put` request. Defaults to high-performance temporal storage class, and objects are persisted into durable storage shortly after being received.


Valid Values: TEMPORAL

Request Body

The request accepts the following binary data.

Body (p. 29)

The bytes to be stored.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
{
   "ContentSHA256": "string",
   "ETag": "string",
   "StorageClass": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ContentSHA256 (p. 30)

The SHA256 digest of the object that is persisted.

Type: String

Length Constraints: Fixed length of 64.

Pattern: [0-9A-Fa-f]{64}

ETag (p. 30)

Unique identifier of the object in the container.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [0-9A-Fa-f]+

StorageClass (p. 30)

The storage class where the object was persisted. Should be “Temporal”.

Type: String

Valid Values: TEMPORAL

Errors

For information about the errors that are common to all actions, see Common Errors (p. 39).

ContainerNotFoundException

The specified container was not found for the specified account.

HTTP Status Code: 404

InternalServerError

The service is temporarily unavailable.

HTTP Status Code: 500

Example

Regular Upload Request

The following request puts a file to the container that is identified by the endpoint that is specified in the Host: header. It posts it to the folder premium/canada in that container and names the file mlaw.avi.

```
POST premium/canada/mlaw.avi
Host: https://aaabbcccddee.files.mediastore-us-west-2.com
x-amz-date: 20170323T120000Z
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20141123/us-west-2/mediastore/aws4_request,SignedHeaders=host;x-amz-date;x-amz-mediastore-version,Signature=9257c16da6b25a715ce900a5b45b03da0447acf430195dc840091b12966f2a2
Content-Length: 0
x-amz-mediastore-version: 2016-07-11
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
Data Types

The following data types are supported by AWS Elemental MediaStore:

- Container (p. 33)

The following data types are supported by AWS Elemental MediaStore Data Plane:

- Item (p. 35)

AWS Elemental MediaStore

The following data types are supported by AWS Elemental MediaStore:

- Container (p. 33)
Container
Service: AWS Elemental MediaStore

This section describes operations that you can perform on an AWS Elemental MediaStore container.

Contents

ARN
The Amazon Resource Name (ARN) of the container. The ARN has the following format:

arn:aws:<region>:<account that owns this container>:container/<name of container>


Type: String
Pattern: arn:aws:mediastore:[a-z]+-[a-z]+--\d:\d{12}:container/\w{1,255}

Required: No

CreationTime
Unix timestamp.

Type: Timestamp

Required: No

Endpoint
The DNS endpoint of the container. Use the endpoint to identify the specific container when sending requests to the data plane. The service assigns this value when the container is created. Once the value has been assigned, it will not change.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

Name
The name of the container.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.
Pattern: \w+

Required: No

Status
The status of container creation or deletion. The status is one of the following: CREATING, ACTIVE, or DELETING. While the service is creating the container, the status is CREATING. When the endpoint is available, the status changes to ACTIVE.

Type: String

Valid Values: ACTIVE | CREATING | DELETING

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

AWS Elemental MediaStore Data Plane

The following data types are supported by AWS Elemental MediaStore Data Plane:

- Item (p. 35)
Item

Service: AWS Elemental MediaStore Data Plane

A metadata entry for a folder or object.

Contents

**ContentLength**

The length of the item in bytes.

Type: Long

Valid Range: Minimum value of 0.

Required: No

**ContentType**

The content type of the item.

Type: String

Pattern: `^[\w\-\./\_\~]{1,255}$`

Required: No

**ETag**

The ETag that represents a unique instance of the item.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[0-9A-Fa-f]+`

Required: No

**LastModified**

The date and time that the item was last modified.

Type: Timestamp

Required: No

**Name**

The name of the item.

Type: String

Pattern: `[A-Za-z0-9_\.\-\~]{1,255}`

Required: No

**Type**

The item type (folder or object).

Type: String

Valid Values: OBJECT | FOLDER
Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signature Version 4 Signing Process in the Amazon Web Services General Reference.

**Action**

The action to be performed.

Type: string

Required: Yes

**Version**

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

**X-Amz-Algorithm**

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

**X-Amz-Credential**

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: access_key/YYYYMMDD/region/service/aws4_request.

For more information, see Task 2: Create a String to Sign for Signature Version 4 in the Amazon Web Services General Reference.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

**X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format ("YYYYMMDD'T'HHMMSS'Z'"). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is
When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Handling Dates in Signature Version 4 in the Amazon Web Services General Reference.

Type: string
Required: Conditional

**X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to AWS Services That Work with IAM in the IAM User Guide.

Condition: If you're using temporary security credentials from the AWS Security Token Service, you must include the security token.

Type: string
Required: Conditional

**X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string
Required: Conditional

**X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Task 1: Create a Canonical Request For Signature Version 4 in the Amazon Web Services General Reference.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string
Required: Conditional
Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

**AccessDeniedException**
You do not have sufficient access to perform this action.
HTTP Status Code: 400

**IncompleteSignature**
The request signature does not conform to AWS standards.
HTTP Status Code: 400

**InternalFailure**
The request processing has failed because of an unknown error, exception or failure.
HTTP Status Code: 500

**InvalidAction**
The action or operation requested is invalid. Verify that the action is typed correctly.
HTTP Status Code: 400

**InvalidClientTokenId**
The X.509 certificate or AWS access key ID provided does not exist in our records.
HTTP Status Code: 403

**InvalidParameterCombination**
Parameters that must not be used together were used together.
HTTP Status Code: 400

**InvalidParameterValue**
An invalid or out-of-range value was supplied for the input parameter.
HTTP Status Code: 400

**InvalidQueryParameter**
The AWS query string is malformed or does not adhere to AWS standards.
HTTP Status Code: 400

**MalformedQueryString**
The query string contains a syntax error.
HTTP Status Code: 404

**MissingAction**
The request is missing an action or a required parameter.
HTTP Status Code: 400
MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400