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What Is AWS Elemental MediaStore?

AWS Elemental MediaStore is a video origination and storage service that offers the high performance and immediate consistency required for live and on-demand media. With AWS Elemental MediaStore, you can manage video assets as objects in containers to build dependable, cloud-based media workflows.

To use the service, you upload your objects from a source, such as an encoder or data feed, to a container that you create in AWS Elemental MediaStore.

Topics
- AWS Elemental MediaStore Concepts (p. 1)
- Related Services (p. 2)
- Pricing for AWS Elemental MediaStore (p. 2)
- Regions for AWS Elemental MediaStore (p. 3)

AWS Elemental MediaStore Concepts

ARN
- An Amazon Resource Name.

Body
- The data to be uploaded into an object.

(Byte) range
- A subset of object data to be addressed. For more information, see range from the HTTP specification.

Container
- A namespace that holds objects. A container has an endpoint that you can use for writing and retrieving objects and attaching access policies.

Endpoint
- An entry point to the AWS Elemental MediaStore service, given as an HTTP(S) root URL.

ETag
- An entity tag, which is a hash of the object data.

Folder
- A division of a container. A folder can hold objects and other folders.

Item
- A term used to refer to objects and folders.

Object
- An asset, similar to an Amazon S3 object. Objects are the fundamental entities that are stored in AWS Elemental MediaStore. The service accepts all file types.

Origination service
- AWS Elemental MediaStore is considered an origination service because it is the point of distribution for media content delivery.
Path

A unique identifier for an object or folder, which indicates its location in the container.

Part

A subset of data (chunk) of an object.

Policy

An IAM policy.

AWS Elemental MediaStore verbs, Create

Creates an object, often implemented with HTTP POST.

Delete

Deletes an object, often implemented with HTTP DELETE.

Describe

Returns metadata about an object, often implemented with HTTP HEAD.

Get

Retrieves an object.

List

Retrieves a list of items, which can be objects or folders.

Put

Updates an object, often implemented with HTTP PUT.

Related Services

- **AWS CloudTrail** is a service that lets you monitor the calls made to the CloudTrail API for your account, including calls made by the AWS Management Console, AWS CLI, and other services. For more information, see AWS CloudTrail User Guide.

- **Amazon CloudWatch** is a monitoring service for AWS cloud resources and the applications that you run on AWS. Use CloudWatch Events to track changes in the status of containers and objects in AWS Elemental MediaStore. For more information, see Amazon CloudWatch.

- **Amazon S3** is object storage built to store and retrieve any amount of data from anywhere.

- **AWS Identity and Access Management (IAM)** is a web service that helps you securely control access to AWS resources for your users. Use IAM to control who can use your AWS resources (authentication) and what resources users can use in which ways (authorization). For more information, see ?? (p. 4).

Pricing for AWS Elemental MediaStore

<table>
<thead>
<tr>
<th>Request Price</th>
<th>PDX</th>
<th>IAD</th>
<th>DUB</th>
<th>SYD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage price (per GB per month)</td>
<td>$0.023</td>
<td>$0.023</td>
<td>$0.023</td>
<td>$0.025</td>
</tr>
<tr>
<td>PUT (per 1k)</td>
<td>$0.005</td>
<td>$0.005</td>
<td>$0.005</td>
<td>$0.005</td>
</tr>
</tbody>
</table>
### Regions for AWS Elemental MediaStore

AWS Elemental MediaStore is available in the following AWS Regions:

<table>
<thead>
<tr>
<th>Region Name</th>
<th>Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asia Pacific (Sydney)</td>
<td>ap-southeast-2</td>
</tr>
<tr>
<td>EU (Ireland)</td>
<td>eu-west-1</td>
</tr>
<tr>
<td>US East (N. Virginia)</td>
<td>us-east-1</td>
</tr>
<tr>
<td>US West (Oregon)</td>
<td>us-west-2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Request Price</th>
<th>PDX</th>
<th>IAD</th>
<th>DUB</th>
<th>SYD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media optimization (per GB ingested)</td>
<td>$0.02</td>
<td>$0.02</td>
<td>$0.02</td>
<td>$0.025</td>
</tr>
<tr>
<td>GET, HEAD (per 10k)</td>
<td>$0.004</td>
<td>$0.004</td>
<td>$0.004</td>
<td>$0.004</td>
</tr>
<tr>
<td>DELETE or LIST (per 1k)</td>
<td>$0.005</td>
<td>$0.005</td>
<td>$0.005</td>
<td>$0.005</td>
</tr>
</tbody>
</table>
Setting Up AWS Elemental MediaStore

Before you start using AWS Elemental MediaStore, you need to sign up for AWS (if you don’t already have an AWS account) and create IAM users and roles to allow access to AWS Elemental MediaStore. This includes creating an IAM role for yourself.

Topics
- Signing Up for AWS (p. 4)
- Creating an Admin IAM User (p. 4)
- Creating a Non-Admin IAM User (p. 5)

Signing Up for AWS

If you do not have an AWS account, use the following procedure to create one.

To sign up for AWS

2. Follow the online instructions.

Creating an Admin IAM User

An IAM user is an entity that you create in AWS to represent the person or service that uses it to interact with AWS. A user in AWS consists of a name and credentials. You should create an IAM user for yourself and add the IAM user to an Administrators group. This group gives you access to all services and their resources in your account. The next time that you access your AWS account, you should sign in with your IAM user credentials.

To create users with limited permissions, see the section called “Creating a Non-Admin IAM User” (p. 5).

To create an IAM user for yourself and add the user to an Administrators group

1. Use your AWS account email address and password to sign in to the AWS Management Console as the AWS account root user.
2. In the navigation pane of the console, choose Users, and then choose Add user.
3. For User name, type Administrator.
4. Select the check box next to AWS Management Console access, select Custom password, and then type the new user's password in the text box. You can optionally select Require password reset to force the user to select a new password the next time the user signs in.
5. Choose Next: Permissions.
6. On the Set permissions for user page, choose Add user to group.
7. Choose Create group.
8. In the Create group dialog box, type Administrators.
9. For Filter, choose Job function.
10. In the policy list, select the check box for AdministratorAccess. Then choose Create group.
11. Back in the list of groups, select the check box for your new group. Choose Refresh if necessary to see the group in the list.

12. Choose Next: Review to see the list of group memberships to be added to the new user. When you are ready to proceed, choose Create user.

You can use this same process to create more groups and users, and to give your users access to your AWS account resources. To learn about using policies to restrict users' permissions to specific AWS resources, go to Access Management and Example Policies.

Creating a Non-Admin IAM User

Users in the Administrators group for an account have access to all AWS services and resources in that account. This section describes how to create users with permissions that are limited to AWS Elemental MediaStore.

Topics
• Step 1: Create Policies (p. 5)
• Step 2: Create User Groups (p. 6)
• Step 3: Create Users (p. 6)

Step 1: Create Policies

Create two policies for AWS Elemental MediaStore: one to provide read/write access and one to provide read-only access. Perform these steps one time only for each policy.

To create policies

1. Sign in to the AWS Management Console and open the IAM console at https://console.aws.amazon.com/iam/.
2. Use your Administrator user credentials to sign in to the IAM console.
3. In the navigation pane of the console, choose Policies, and then choose Create policy.
4. Choose the JSON tab and paste the following policy:

   ```json
   {
   "Version": "2012-10-17",
   "Statement": [
     {
       "Action": [
         "mediastore:*"
       ],
       "Effect": "Allow",
       "Resource": "*",
       "Condition": {
         "Bool": {
           "aws:SecureTransport": "true"
         }
       }
     }
   ]
   }
   ``

   This policy allows all actions on all resources in AWS Elemental MediaStore.

5. Choose Review policy.
Step 2: Create User Groups

Create a user group for each of the policies that you created in step 1. This way, when you create additional users you can add the users to a group rather than attaching individual policies to each user.

To create user groups

1. In the navigation pane of the IAM console, choose Groups, and then choose Create New Group.
2. On the Set Group Name page, type a name for the group, such as MediaStoreAdmins. Choose Next Step.
4. In the policy list, choose the MediaStoreAllAccess policy that you created.
5. Choose Next Step.
6. On the Review page, verify that the correct policies are added to this group, and then choose Create Group.
7. On the Groups page, repeat the steps in this section to create a user group with a read-only permissions. Use the following guidelines:
   - In step 2, type a group name such as MediaStoreReaders.
   - In step 4, choose the MediaStoreReadOnlyAccess policy.

Step 3: Create Users

Create IAM users for the individuals who require access to AWS Elemental MediaStore, and add each user to the appropriate user group to ensure that they have the right level of permissions. If you already have users created, skip to step 6 to modify the permissions for the users.

To create users

6
1. In the navigation pane of the IAM console, choose Users, and then choose Add user.
2. For User name, type the name that the user will use to sign in to AWS Elemental MediaStore.
3. Select the check box next to AWS Management Console access, select Custom password, and then type the new user's password in the box. You can optionally select Require password reset to force the user to create a password the next time the user signs in.
4. Choose Next: Permissions.
5. On the Set permissions for user page, choose Add user to group.
6. In the group list, choose the group with the appropriate attached policy. Remember that permissions levels are as follows:
   - The MediaStoreAdmins group has permissions that allow all actions on all resources in AWS Elemental MediaStore.
   - The MediaStoreReaders group has permissions that allow read-only rights for all resources in AWS Elemental MediaStore.
7. Choose Next: Review to see the list of group memberships to be added to the new user.
8. When you are ready to proceed, choose Create user.
Getting Started with AWS Elemental MediaStore

This Getting Started tutorial shows you how to use AWS Elemental MediaStore to create a container and upload an object.

Topics
• Step 1: Access AWS Elemental MediaStore (p. 8)
• Step 2: Create a Container (p. 8)
• Step 3: Upload an Object (p. 8)
• Step 4: Access an Object (p. 9)

Step 1: Access AWS Elemental MediaStore

Once you have set up your AWS account and created IAM users and roles, you sign in to the console for AWS Elemental MediaStore.

To access AWS Elemental MediaStore

• Use your IAM credentials to sign in to the AWS Elemental MediaStore console at https://<region>.console.aws.amazon.com/mediastore/home/region=<region>.

For information about creating IAM credentials, see Setting Up (p. 4).

Step 2: Create a Container

You use containers in AWS Elemental MediaStore to store your folders and objects. You can use containers to group related objects in the same way that you use a directory to group files in a file system. You aren’t charged when you create containers; you are charged only when you upload an object to a container.

To create a container

1. On the Containers page, choose Create container.
2. For Container name, type a name for your container. For more information, see Rules for Container Names (p. 10).
3. Choose Create container. AWS Elemental MediaStore adds the new container to a list of containers. Initially, the status of the container is Creating, and then it changes to Active.

Step 3: Upload an Object

You can upload objects (up to 10 MB each) to a container or to a folder within a container. To upload an object to a folder, you specify the path to the folder. If the folder already exists, AWS Elemental
MediaStore stores the object in the folder. If the folder doesn’t exist, the service creates it, and then stores the object in the folder.

**Note**  
Object file names can contain only letters, numbers, periods (.), underscores (_), tildes (~), and hyphens (-).

**To upload an object**
1. On the **Containers** page, choose the name of the container that you just created. The details page for the container appears.
2. Choose **Upload object**.
3. For **Target path**, type a path for the folders. For example, `premium/canada`. If any of the folders in the path don’t exist yet, AWS Elemental MediaStore creates them automatically.
4. For **Object**, choose **Browse**.
5. Navigate to the appropriate folder, and choose one object to upload.
6. Choose **Open**, and then choose **Upload**.

**Step 4: Access an Object**

You can download your objects to a specified endpoint.

1. On the **Containers** page, choose the name of the container that has the object that you want to download.
2. If the object that you want to download is in a subfolder, continue choosing the folder names until you see the object.
3. Choose the name of the object.
4. On the details page for the object, choose **Download**.
Working with Containers in AWS Elemental MediaStore

You use containers in AWS Elemental MediaStore to store your folders and objects. Related objects can be grouped in containers in the same way that you use a directory to group files in a file system. You aren't charged when you create containers; you are charged only when you upload an object to a container. For more information about charges, see Pricing for AWS Elemental MediaStore (p. 2).

Topics
- Rules for Container Names (p. 10)
- Creating a Container (p. 8)
- Viewing the Details for a Container (p. 11)
- Viewing a List of Containers (p. 12)
- Deleting a Container (p. 12)

Rules for Container Names

Container names must follow these rules:

- Must be unique across all existing container names in AWS Elemental MediaStore. One way to help ensure uniqueness is to prefix your container names with the name of your organization.
- Is case sensitive. For example, you can have a container named myContainer and a folder named mycontainer because those names are unique.
- Can't be renamed after it has been created.
- Can contain uppercase letters, lowercase letters, numbers, and underscores (_).
- Must be from 3 to 255 characters long.
- Must not be formatted as an IP address (for example, 192.0.2.15).
- Must not end with a hyphen.
- Can't contain two adjacent periods.
- Can't contain dashes next to periods (for example, my-.container.com and my.-container are not valid).

Creating a Container

You can create up to 100 containers for each AWS account. However, there is no limit to the number of folders that you can create in each of those containers. In addition, there is no limit to the number of objects that you can upload to each container.

To create a container (console)

2. On the Containers page, choose Create container.
3. For Container name, type a name for the container. For more information, see Rules for Container Names (p. 10).
4. Choose **Create container**. AWS Elemental MediaStore adds the new container to a list of containers. Initially, the status of the container is **Creating**, and then it changes to **Active**.

**To create a container (AWS CLI)**

1. In the AWS CLI, use the `create-container` command.

   Example:

   ```bash
   aws mediastore --region us-west-2 create-container --container-name=ExampleContainer
   ```

   Example return value:

   ```json
   {
     "Container": {
       "Status": "CREATING",
       "CreationTime": 1506528818.0,
       "Name": "ExampleContainer",
     }
   }
   ```

**Viewing the Details for a Container**

Details for a container include the container policy, endpoint, ARN, and creation time.

**To view the details for a container (console)**


2. On the Containers page, choose the name of the container.

   The container details page appears. This page is divided into two sections:

   - The Objects section, which lists the objects and folders in the container.
   - The Container policy section, which shows the resource-based policy that is associated with this container. For information about resource policies, see [???](p. 14).

**To view the details for a container (AWS CLI)**

1. In the AWS CLI, use the `describe-container` command.

   Example:

   ```bash
   aws mediastore --region us-west-2 describe-container --container-name=ExampleContainer
   ```

   Example return value:

   ```json
   {
     "Container": {
       "Status": "ACTIVE",
       "Endpoint": "https://aaabbbccccdddee.data.mediastore.us-west-2.amazonaws.com",
       "CreationTime": 1506528818.0,
       "Name": "ExampleContainer",
     }
   }
   ```
Viewing a List of Containers

You can view a list of all the containers that are associated with your account.

To view a list of containers (console)


   The Containers page appears, listing all the containers that are associated with your account.

To view a list of containers (AWS CLI)

1. In the AWS CLI, use the list-containers command.

   Example:

   ```bash
   aws mediastore --region us-west-2 list-containers
   ```

   Example return value:

   ```json
   {
     "Inputs": [ 
       {
         "Containers": [ 
           {
             "Status": "ACTIVE",
             "Endpoint": "https://aaabbccddddee.data.mediastore.us-west-2.amazonaws.com",
             "CreationTime": 1505317931.0,
             "Name": "ExampleLiveDemo",
           },
           {
             "Status": "ACTIVE",
             "Endpoint": "https://fffgghhhiiijj.data.mediastore.us-west-2.amazonaws.com",
             "CreationTime": 1506528818.0,
             "Name": "ExampleContainer",
           }
         ]
       }
     ]
   }
   ```

Deleting a Container

You can delete a container only if it has no objects.

To delete a container (console)

2. On the Containers page, choose the radio button to the left of the container name.
3. Choose **Delete**.

**To delete a container (AWS CLI)**

1. In the AWS CLI, use the `delete-container` command.

   Example:
   ```
   aws mediastore --region us-west-2 delete-container --container-name=ExampleLiveDemo
   ```

   This command has no return value.
Working with the Resource-based Policy of a Container in AWS Elemental MediaStore

Each container has a resource-based policy that governs access rights to all folders and objects in that container. The default policy, which is automatically attached to all new containers, allows access to all AWS Elemental MediaStore operations on the container. It specifies that this access has the condition of requiring HTTPS for the operations. Once you have created a container, you can edit the policy assigned to that container.

Topics
• Viewing the Resource-based Policy of a Container (p. 14)
• Editing a Resource-based Policy of a Container (p. 15)
• Example Policies (p. 15)

Viewing the Resource-based Policy of a Container

You can use the console or the AWS CLI to view the resource-based policy of a container.

To view the policy of a container (console)

2. On the Containers page, choose the container name.
   The container details page appears. The policy is displayed in the Container policy section.

To view the policy of a container (AWS CLI)

1. In the AWS CLI, use the get-container-policy command.
   Example:
   ```bash
   aws mediastore get-container-policy --container-name=ExampleLiveDemo --region us-west-2
   ```
   Example return value
   ```json
   {
   ```
Editing a Resource-based Policy of a Container

You can edit the permissions in the default resource-based policy, or you can create a new policy that replaces the default policy. The new policy becomes effective immediately.

To edit the policy of a container (console)

2. On the Containers page, choose the container name.
3. Choose Edit policy. For examples that show how to set different permissions, see Example Policies (p. 15).
4. Make the appropriate changes, and then choose Save.

To edit the policy of a container (AWS CLI)

1. In the AWS CLI, use the put-container-policy command.

Example:

```bash
aws mediastore put-container-policy --region us-west-2 --container-name ExampleLiveDemo --policy-name=default --policy="\"Version\" : "2012-10-17","Statement" : [ { 
```

This command has no return value.

Example Policies

The following examples show policies constructed for different user groups.

Topics

- Example Resource-based Policy: Default (p. 16)
- Example Resource-based Policy: Anonymous Read—SSL Only (p. 16)
- Example Resource-based Policy: Anonymous Read—HTTP Enabled (p. 17)
- Example Resource-based Policy: Public Read Access over HTTPS (p. 17)
- Example Resource-based Policy: Public Read Access over HTTP or HTTPS (p. 18)
- Example Resource-based Policy: Post Access to a Group (p. 18)
- Example Resource-based Policy: Cross-Account Read—SSL Only (p. 19)
- Example Resource-based Policy: Cross-Account Read Access—HTTP Enabled (p. 19)
- Example Resource-based Policy: Cross-Account Read Access over HTTPS (p. 20)
- Example Resource-based Policy: Cross-Account Read Access to a Role (p. 20)
- Example Resource-based Policy: Cross-Account Full Access to a Role (p. 21)
- Example Resource-based Policy: Post Access to an AWS Service to a Folder (p. 22)
- Example Resource-based Policy: Post Access to an AWS Service to Multiple Folders (p. 22)
Example Resource-based Policy: Default

When you create a container, AWS Elemental MediaStore automatically attaches the following resource-based policy:

```
{
   "Version": "2012-10-17",
   "Statement": [
      {
         "Sid": "MediaStoreFullAccess",
         "Action": [ "mediastore:*" ],
         "Principal": {
            "AWS": "arn:aws:iam::<aws_account_number>:root" },
         "Effect": "Allow",
         "Resource": "*",
         "Condition": {
            "Bool": { "aws:SecureTransport": "true" } }
      }
   ]
}
```

The policy is built into the service, so you don't have to create it. The default policy can't be changed; however, you can edit a container's policy.

The default policy assigned to all new containers allows access to all AWS Elemental MediaStore operations on the container. It specifies that this access has the condition of requiring HTTPS for the operations.

Example Resource-based Policy: Anonymous Read—SSL Only

This policy allows users to retrieve an object through an HTTP request. It allows this access to anyone, including all authenticated users and anonymous users (users who are not logged in), as long as the object is hosted on a server with an SSL certificate:

```
{
   "Version": "2012-10-17",
   "Statement": [
      {
         "Sid": "MediaStoreFullAccess",
         "Action": [ "mediastore:*" ],
         "Principal": "*",
         "Effect": "Allow",
         "Resource": "*",
         "Condition": {
            "Bool": { "aws:SecureTransport": "true" } }
      }
   ]
}
```
Example Resource-based Policy: Anonymous Read—HTTP Enabled

This policy allows users to retrieve an object through an HTTP request. It allows this access to anyone, including all authenticated users and anonymous users (users who are not logged in). The object is not required to be hosted on a server with an SSL certificate:

```
{
   "Version": "2012-10-17",
   "Statement": [
      {
         "Sid": "MediaStoreFullAccess",
         "Action": [ "mediastore:*" ],
         "Principal": "*",
         "Effect": "Allow",
         "Resource": "*",
         "Condition": {
            "Bool": { "aws:SecureTransport": ["true", "false"] }
         }
      }
   ]
}
```

Example Resource-based Policy: Public Read Access over HTTPS

This policy allows users to retrieve an object through an HTTPS request. It allows this access to all users who are authenticated. The statement has the name PublicReadOverHttps. It allows access to the GetObject and DescribeObject operations on any object (as specified by the * at the end of the resource path). It allows this access to absolutely anyone: all authenticated users and anonymous users (users who are not logged in). It specifies that this access has the condition of requiring HTTPS for the operations:

```
{
   "Version": "2012-10-17",
   "Statement": [
      {
         "Sid": "PublicReadOverHttps",
         "Effect": "Allow",
         "Action": [ "mediastore:GetObject", "mediastore:DescribeObject" ],
         "Principal": "*",
         "Resource": "arn:aws:mediastore:<region>:<owner acct number>:container/<container name>/*",
         "Condition": {
            "Bool": { "aws:SecureTransport": "true"
         }
      }
   ]
}
```
Example Resource-based Policy: Public Read Access over HTTP or HTTPS

This policy allows access to the GetObject and DescribeObject operations on any object (as specified by the * at the end of the resource path). It allows this access to anyone, including all authenticated users and anonymous users (users who are not logged in):

```json
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadOverHttpOrHttps",
      "Effect": "Allow",
      "Action": ["mediastore:GetObject", "mediastore:DescribeObject"],
      "Principal": "*",
      "Resource": "arn:aws:mediastore:<region>:<owner acct number>:container/<container name>/*",
      "Condition": {
        "Bool": { "aws:SecureTransport": ["true", "false"] }
      }
    }
  ]
}
```

Example Resource-based Policy: Post Access to a Group

This policy allows access to PutObject on any object in the specified container. It allows this access to any user of the specified group. It specifies that this access has the condition of requiring HTTPS for the operation (this condition must always be included when providing access to PutObject):

```json
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "GroupPostOverHttps",
      "Effect": "Allow",
      "Action": "mediastore:PutObject",
      "Principal": {
        "AWS": "arn:aws:iam::<other acct number>:group/<group name>",
        "Resource": "arn:aws:mediastore:<region>:<owner acct number>:container/<container name>/*",
        "Condition": {
          "Bool": {
            "aws:SecureTransport": "true"
          }
        }
      }
    }
  ]
}
```
Example Resource-based Policy: Cross-Account Read—SSL Only

This policy allows users to retrieve an object through an HTTP request. It allows this access to authenticated users with cross-account access, as long as the object is hosted on a server with an SSL certificate:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "MediaStoreFullAccess",
      "Action": [ "mediastore:*" ],
      "Principal":{
        "AWS" : [
          "arn:aws:iam::<aws_account_number_1>:root",
          "arn:aws:iam::<aws_account_number_2>:user/SpecialUser",
          "arn:aws:iam::<aws_account_number_2>:role/SpecialRole/*"
        ]
      },
      "Effect": "Allow",
      "Resource": "*",
      "Condition": {
        "Bool": { "aws:SecureTransport": "true" }
      }
    }
  ]
}
```

Example Resource-based Policy: Cross-Account Read Access—HTTP Enabled

This policy allows users to retrieve an object through an HTTP request. It allows this access to authenticated users with cross-account access. The object is not required to be hosted on a server with an SSL certificate:

```
{
  "Version" : "2012-10-17",
  "Statement" : [ {
    "Sid" : "CrossAccountReadOverHttpOrHttps",
    "Effect" : "Allow",
    "Principal" : {
      "AWS" : "arn:aws:iam::<other acct number>:root"
    },
    "Action" : [ "mediastore:GetObject", "mediastore:DescribeObject" ],
    "Condition" : {
      "Bool" : {
        "aws:SecureTransport" : [ "true", "false" ]
      }
    }
  } ]
}
```
Example Resource-based Policy: Cross-Account Read Access over HTTPS

This policy allows access to the GetObject and DescribeObject operations on any object (as specified by the * at the end of the resource path) that is owned by the account specified by `<owner acct number>`. It allows this access to the root user of the specified `<other acct number>`. It specifies that this access has the condition of requiring HTTPS for the operations:

```json
{
   "Version": "2012-10-17",
   "Statement": [
      {
         "Sid": "CrossAccountReadOverHttps",
         "Effect": "Allow",
         "Action": ["mediastore:GetObject", "mediastore:DescribeObject"],
         "Principal": {
            "AWS": "arn:aws:iam::<other acct number>:root",
            "Resource": "arn:aws:mediastore:<region>:<owner acct number>:container/<container name>/*",
            "Condition": {
               "Bool": {
                  "aws:SecureTransport": "true"
               }
            }
         }
      }
   ]
}
```

Example Resource-based Policy: Cross-Account Read Access to a Role

The policy allows access to the GetObject and DescribeObject operations on any object (as specified by the * at the end of the resource path) that is owned by the `<owner acct number>`. It allows this access to any user of the `<other acct number>` if that account has assumed the role that is specified in `<role name>`:

```json
{
   "Version": "2012-10-17",
   "Statement": [
      {
         "Sid": "CrossAccountRoleRead",
         "Effect": "Allow",
         "Action": ["mediastore:GetObject", "mediastore:DescribeObject"],
         "Principal": {
            "AWS": "arn:aws:iam::<other acct number>:role/<role name>",
            "Resource": "arn:aws:mediastore:<region>:<owner acct number>:container/<container name>/*",
         }
      }
   ]
}
```
Example Resource-based Policy: Cross-Account Full Access to a Role

This policy allows users with cross-account access to update any object in the account, as long as the user is logged in over HTTP. It also allows users with cross-account access to delete, download, and describe objects over HTTP or HTTPS:

- The first statement is `CrossAccountRolePostOverHttps`. It allows access to the `PutObject` operation on any object and allows this access to any user of the specified account if that account has assumed the role that is specified in `<role name>`. It specifies that this access has the condition of requiring HTTPS for the operation (this condition must always be included when providing access to `PutObject`).

  In other words, any principal that has cross-account access can access `PutObject`, but only over HTTPS.

- The second statement is `CrossAccountFullAccessExceptPost`. It allows access to all operations except `PutObject` on any object. It allows this access to any user of the specified account if that account has assumed the role that is specified in `<role name>`. This access does not have the condition of requiring HTTPS for the operations.

  In other words, any account that has cross-account access can access `DeleteObject`, `GetObject`, and so on (but not `PutObject`), and can do this over HTTP or HTTPS.

If you don’t exclude `PutObject` from the second statement, the statement won’t be valid (because if you include `PutObject` you must explicitly set HTTPS as a condition).

```json
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "CrossAccountRolePostOverHttps",
      "Effect": "Allow",
      "Action": "mediastore:PutObject",
      "Principal": {
        "AWS": "arn:aws:iam::<other acct number>:role/<role name>"},
      "Resource": "arn:aws:mediastore:<region>:<owner acct number>:container/<container name>/*",
      "Condition": {
        "Bool": {
          "aws:SecureTransport": "true"
        }
      }
    },
    {
      "Sid": "CrossAccountFullAccessExceptPost",
      "Effect": "Allow",
      "NotAction": "mediastore:PutObject",
      "Principal": {
        "AWS": "arn:aws:iam::<other acct number>:role/<role name>"},
      "Resource": "arn:aws:mediastore:<region>:<owner acct number>:container/<container name>/*"
    }
  ]
}
```
Example Resource-based Policy: Post Access to an AWS Service to a Folder

This policy allows another AWS service to post objects in AWS Elemental MediaStore. It allows access to PutObject on any object and allows this access to a specific AWS service. It specifies that this access has the condition of requiring HTTPS for the operation (this condition must always be included when providing access to PutObject).

Compare this statement to the GroupPostOverHttps statement in ??? (p. 18).

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "MediaStorePostToSpecificPath",
      "Effect": "Allow",
      "Action": "mediastore:PutObject",
      "Principal": {
        "AWS": "<aws service principal>",
        "Resource": "arn:aws:mediastore:<region>:<owner acct number>:container/<container name>/<specific path>/*",
        "Condition": {
          "Bool": {
            "aws:SecureTransport": "true"
          }
        }
      }
    }
  ]
}
```

Example Resource-based Policy: Post Access to an AWS Service to Multiple Folders

This policy is a variation on MediaStorePostToSpecificPath that shows how to set up access to two different paths:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "MediaStorePostToSeveralPaths",
      "Effect": "Allow",
      "Action": "mediastore:PutObject",
      "Principal": {
        "AWS": "<aws service principal>",
        "Resource": [
          "arn:aws:mediastore:<region>:<owner acct number>:container/<container name>/<specific path 1>/*",
          "arn:aws:mediastore:<region>:<owner acct number>:container/<container name>/<specific path 2>/*",
        ],
      "Condition": {
        "Bool": {
          "aws:SecureTransport": "true"
        }
      }
    }
  ]
}
```
Working with Folders in AWS Elemental MediaStore

Folders are divisions within a container. You use folders to subdivide your container in the same way that you create subfolders to divide a folder in a file system. You can create up to 10 levels of folders (not including the container itself).

Folders are optional; you can choose to upload your objects directly to a container instead of a folder. However, folders are an easy way to organize your objects.

To upload an object to a folder, you specify the path to the folder. If the folder already exists, AWS Elemental MediaStore stores the object in the folder. If the folder doesn’t exist, the service creates it, and then stores the object in the folder.

For example, suppose you have a container named movies, and you upload a file named mlaw.ts with the path premium/canada. AWS Elemental MediaStore stores the object in the subfolder canada under the folder premium. If neither folder exists, the service creates both the premium folder and the canada subfolder, and then stores your object in the canada subfolder. If you specify only the container movies (with no path), the service stores the object directly in the container.

AWS Elemental MediaStore automatically deletes a folder when you delete the last object in that folder. The service also deletes any empty folders above that folder. For example, suppose that you have a folder named premium that doesn’t contain any files but does contain one subfolder named canada. The canada subfolder contains one file named mlaw.ts. If you delete the file mlaw.ts, the service deletes both the premium and canada folders. This automatic deletion applies only to folders. The service does not delete empty containers.

Topics

- Rules for Folder Names (p. 24)
- Creating a Folder (p. 25)
- Deleting a Folder (p. 25)

Rules for Folder Names

Folder names must follow these rules:

- Must be unique only within its parent container or folder. For example, you can create a folder named myfolder in two different containers: movies/myfolder and sports/myfolder.
- Can have the same name as its parent container.
- Are case sensitive. For example, you can have a folder named myFolder and a folder named myfolder in the same container or folder because those names are unique.
- Can’t be renamed after the folder has been created.
- Can contain uppercase letters, lowercase letters, numbers, periods (.), hyphens (-), and tildes (~).
- Must start with a number or letter.
- Must be from 3 to 63 characters long.
- Must not be formatted as an IP address (for example, 192.168.5.4).
- Must not contain underscores (\_).
Creating a Folder

You can create folders when you upload objects. To upload an object to a folder, you specify the path to the folder. If the folder already exists, AWS Elemental MediaStore stores the object in the folder. If the folder doesn't exist, the service creates it, and then stores the object in the folder.

For more information, see Step 3: Upload an Object (p. 8).

Deleting a Folder

You can delete folders only if the folder is empty; you can't delete folders that contain objects.

AWS Elemental MediaStore automatically deletes a folder when you delete the last object in that folder. The service also deletes any empty folders above that folder. For example, suppose that you have a folder named premium that doesn't contain any files but does contain one subfolder named canada. The canada subfolder contains one file named mlaw.ts. If you delete the file mlaw.ts, the service deletes both the premium and canada folders. This automatic deletion applies only to folders. The service does not delete empty containers.

For more information, see Deleting an Object (p. 30).
Uploading an Object

You can upload objects (up to 10 MB each) to a container or to a folder within a container. To upload an object to a folder, you specify the path to the folder. If the folder already exists, AWS Elemental MediaStore stores the object in the folder. If the folder doesn’t exist, the service creates it, and then stores the object in the folder. For more information about folders, see Working with Folders in AWS Elemental MediaStore (p. 24).

You can use the AWS Elemental MediaStore console or the AWS CLI to upload objects.

Note
Object file names can contain only letters, numbers, periods (.), underscores (_), tildes (~), and hyphens (-).

To upload an object (console)

2. On the Containers page, choose the name of the container. The details panel for the container appears.
3. Choose Upload object.
4. For **Target path**, type a path for the folders. For example, premium/canada. If any of the folders in the path that you specify don't exist yet, the service creates them automatically.

5. In the **Object** section, choose **Browse**.

6. Navigate to the appropriate folder, and choose one object to upload.

7. Choose **Open**, and then choose **Upload**.

**Note**
If a file with the same name already exists in the selected folder, the service replaces the original file with the uploaded file.

**To upload an object (AWS CLI)**

1. In the AWS CLI, use the `put-object` command.

   Example:

   ```
   ```

   Example return value:

   ```
   {
     "ContentSHA256": "74b5f6b517f423ed750ef214c44adfe2be36e37d861eafe9c842cbe1bf387a9d",
     "StorageClass": "TEMPORAL",
     "ETag": "af3e4731af032167a106015d1f2fe934e68b32ed1aa297a9e325f5c64979277b"
   }
   ```

---

**Viewing a List of Objects**

You can use the AWS Elemental MediaStore console to view items (objects and folders) stored in the top-most level of a container or in a folder. Items stored in a subfolder of the current container or folder will not be displayed. You can use the AWS CLI to view a list of objects and folders within a container, regardless of how many folders or subfolders are within the container.

**To view a list of objects in a specific container (console)**

2. On the Containers page, choose the name of the container that has the folder that you want to view.
3. Choose the name of the folder from the list.

   A details page appears, showing all folders and objects that are stored in the folder.

**To view a list of objects in a specific folder (console)**

2. On the Containers page, choose the name of the container that has the folder that you want to view.

   A details page appears, showing all folders and objects that are stored in the container.

**To view a list of objects and folders in a specific folder or container (AWS CLI)**
1. In the AWS CLI, use the `list-items` command.

Example:

```bash
aws mediastore-data --region us-west-2 list-items --endpoint=https://aaabbbccdddde.data.mediastore.us-west-2.amazonaws.com
```

Example return value:

```json
{
  "Items": [
    {
      "Type": "FOLDER",
      "Name": "ExampleLiveDemo"
    },
    {
      "Type": "FOLDER",
      "Name": "test"
    }
  ]
}
```

---

Viewing the Details of an Object

After you upload an object, AWS Elemental MediaStore stores details such as the name, modification date, content length, content type, and ETag (entity tag).

**To view the details of an object (console)**

2. On the **Containers** page, choose the name of container that has the object that you want to view.
3. If the object that you want to view is in a folder, continue choosing the folder names until you see the object.
4. Choose the name of the object.

   A details page appears, showing information about the object.

**To view the details of an object (AWS CLI)**

1. In the AWS CLI, use the `describe-object` command.

   Example:

```bash
```

Example return value:

```json
{
  "LastModified": "Mon, 20 Nov 2017 19:30:18 GMT",
  "ContentLength": "2774",
  "ETag": "2aa333bbcc8d8d22d777e999c88d4aa9eeeeee4d89ff7f55555555555da6d3",
  "ContentType": "binary/octet-stream",
}
Downloading an Object

You can use the console to download an object. You can use the AWS CLI to download an object or only part of an object.

To download an object (console)

2. On the Containers page, choose the name of container that has the object that you want to download.
3. If the object that you want to download is in a folder, continue choosing the folder names until you see the object.
4. Choose the name of the object.
5. On the Object details page, choose Download.

To download an object (AWS CLI)

1. In the AWS CLI, use the get-object command.
   
   Example:
   ```bash
   ```
   
   Example return value:
   ```json
   {
     "ContentType": "binary/octet-stream",
     "ContentLength": "2774",
     "CacheControl": "pre-commit",
     "StatusCode": 200
   }
   ```

To download part of an object (AWS CLI)

1. In the AWS CLI, use the get-object command, and specify a range.
   
   Example:
   ```bash
   ```
   
   Example return value:
   ```json
   {
     "ContentType": "binary/octet-stream",
     "ContentRange": "bytes 0-100/2774",
     "CacheControl": "pre-commit",
     "ContentLength": "101",
   }
   ```
Deleting an Object

You can delete objects using the console or the AWS CLI.

**Note**
When you delete the only object in a folder, AWS Elemental MediaStore automatically deletes the folder and any empty folders above that folder. For example, suppose that you have a folder named `premium` that doesn’t contain any files but does contain one subfolder named `canada`. The `canada` subfolder contains one file named `mlaw.ts`. If you delete the file `mlaw.ts`, the service deletes both the `premium` and `canada` folders.

**To delete an object (console)**

2. On the **Containers** page, choose the name of container that has the object that you want to delete.
3. If the object that you want to delete is in a folder, continue choosing the folder names until you see the object.
4. Choose the radio button to the left of the object name.
5. Choose **Delete**.

**To delete an object (AWS CLI)**

1. In the AWS CLI, use the `delete-object` command.

   Example:
   ```bash
   ```

   This command has no return value.
## AWS CLI Commands for AWS Elemental MediaStore

The following table shows the AWS CLI commands that you can use to create or modify containers and objects in AWS Elemental MediaStore.

<table>
<thead>
<tr>
<th>Applies to...</th>
<th>Command</th>
<th>Description</th>
</tr>
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<tr>
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<td>create-container</td>
<td>Creates a container.</td>
</tr>
<tr>
<td>containers (mediastore)</td>
<td>delete-container</td>
<td>Deletes a container. You can’t delete a container that has objects; you can delete only empty containers.</td>
</tr>
<tr>
<td>containers (mediastore)</td>
<td>delete-container-policy</td>
<td>Removes a container policy from a container.</td>
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<td>Lists all of your containers.</td>
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<td>put-container-policy</td>
<td>Replaces the current policy of a container with the specified policy.</td>
</tr>
<tr>
<td>objects (mediastore-data)</td>
<td>delete-object</td>
<td>Deletes an object that is stored in a container.</td>
</tr>
<tr>
<td>objects (mediastore-data)</td>
<td>describe-object</td>
<td>Retrieves information about an object that is stored in a container.</td>
</tr>
<tr>
<td>objects (mediastore-data)</td>
<td>get-object</td>
<td>Downloads an object from AWS Elemental MediaStore to a specified endpoint. You can provide a byte range to download only the part of the object that corresponds to the range.</td>
</tr>
<tr>
<td>objects (mediastore-data)</td>
<td>help</td>
<td>Displays information about the command being called. Append the keyword help to the end of any partial command line.</td>
</tr>
<tr>
<td>objects (mediastore-data)</td>
<td>list-items</td>
<td>Lists folders and objects stored in a container.</td>
</tr>
<tr>
<td>objects (mediastore-data)</td>
<td>put-object</td>
<td>Writes an object to AWS Elemental MediaStore.</td>
</tr>
</tbody>
</table>
Monitoring AWS Elemental MediaStore

Monitoring is an important part of maintaining the reliability, availability, and performance of AWS Elemental MediaStore and your other AWS solutions. AWS provides the following monitoring tools to watch AWS Elemental MediaStore, report when something is wrong, and take automatic actions when appropriate:

- **AWS CloudTrail** is a service that captures API calls made by or on behalf of AWS Elemental MediaStore in your AWS account and delivers the log files to an Amazon S3 bucket that you specify. CloudTrail captures API calls made from the AWS Elemental MediaStore console or from the AWS Elemental MediaStore API. Using the information collected by CloudTrail, you can determine what request was made to AWS Elemental MediaStore, the source IP address from which the request was made, who made the request, when it was made, and so on. To learn more about CloudTrail, including how to configure and enable it, see the [AWS CloudTrail User Guide](#).

- **Amazon CloudWatch Events** delivers a near real-time stream of system events that describe changes in AWS resources, such as AWS Elemental MediaStore. Using simple rules that you can quickly set up, you can match events and route them to one or more target functions or streams. CloudWatch Events becomes aware of operational changes as they occur. CloudWatch Events responds to these operational changes and takes corrective action as necessary, by sending messages to respond to the environment, activating functions, making changes, and capturing state information. To learn more about CloudWatch Events, including how to configure and enable it, see the [Amazon CloudWatch Events User Guide](#).

**Topics**
- Logging AWS Elemental MediaStore API Calls with AWS CloudTrail (p. 32)
- Automating AWS Elemental MediaStore with CloudWatch Events (p. 34)

Logging AWS Elemental MediaStore API Calls with AWS CloudTrail

AWS Elemental MediaStore is integrated with AWS CloudTrail, a service that provides a record of actions taken by a user, role, or an AWS service in AWS Elemental MediaStore. If you create a trail, you can enable continuous delivery of CloudTrail events to an Amazon S3 bucket, Amazon CloudWatch Logs, and Amazon CloudWatch Events. Using the information collected by CloudTrail, you can determine the request that was made to AWS Elemental MediaStore, the IP address from which the request was made, who made the request, when it was made, and additional details.

To learn more about CloudTrail, including how to configure and enable it, see the [AWS CloudTrail User Guide](#).

**Topics**
- AWS Elemental MediaStore Information in CloudTrail (p. 33)
- Example: AWS Elemental MediaStore Log File Entries (p. 33)
AWS Elemental MediaStore Information in CloudTrail

AWS Elemental MediaStore supports logging the following actions as events in CloudTrail log files:

- CreateContainer
- DeleteContainer
- DeleteContainerPolicy
- DescribeContainer
- GetContainerPolicy
- ListContainers
- PutContainerPolicy

Every event or log entry contains information about who generated the request. The identity information helps you determine the following:

- Whether the request was made with root or IAM user credentials.
- Whether the request was made with temporary security credentials for a role or federated user.
- Whether the request was made by another AWS service.

For more information, see the CloudTrail userIdentity Element.

You can create a trail and store your log files in your Amazon S3 bucket for as long as you want, and define Amazon S3 lifecycle rules to archive or delete log files automatically. By default, your log files are encrypted with Amazon S3 server-side encryption (SSE).

To be notified of log file delivery, configure CloudTrail to publish Amazon SNS notifications when new log files are delivered. For more information, see Configuring Amazon SNS Notifications for CloudTrail.

You can also aggregate AWS Elemental MediaStore log files from multiple AWS regions and multiple AWS accounts into a single Amazon S3 bucket.

For more information, see Receiving CloudTrail Log Files from Multiple Regions and Receiving CloudTrail Log Files from Multiple Accounts.

Example: AWS Elemental MediaStore Log File Entries

A trail is a configuration that enables delivery of events as log files to an Amazon S3 bucket that you specify. CloudTrail log files contain one or more log entries. An event represents a single request from any source and includes information about the requested action, the date and time of the action, request parameters, and so on. CloudTrail log files are not an ordered stack trace of the public API calls, so they do not appear in any specific order.

The following example shows a CloudTrail log entry that demonstrates the CreateContainer action.

```json
{
  'awsRegion': 'us-west-2',
  'eventID': '3b99ba80-fc04-44c5-8a2d-93e652088882',
  'eventName': 'CreateContainer',
  'eventSource': 'mediastore.amazonaws.com',
  'eventTime': '2017-11-15T21:26:29Z',
  'eventType': 'AwsApiCall',
  'eventVersion': '1.05',
  'recipientAccountId': '123456789012',
}
```
Automating AWS Elemental MediaStore with CloudWatch Events

Amazon CloudWatch Events enables you to automate your AWS services and respond automatically to system events such as application availability issues or resource changes. Events from AWS services are delivered to CloudWatch Events in near real time. You can write simple rules to indicate which events are of interest to you, and what automated actions to take when an event matches a rule.

When a file is uploaded to a container or removed from a container, two events are fired in succession in the CloudWatch service:

1. AWS Elemental MediaStore Object State Change
2. AWS Elemental MediaStoreContainer State Change event

For information on subscribing to these events, see Amazon CloudWatch.

The actions that can be automatically triggered include the following:

- Invoking an AWS Lambda function
- Invoking Amazon EC2 Run Command
- Relaying the event to Amazon Kinesis Data Streams
- Activating an AWS Step Functions state machine
- Notifying an Amazon SNS topic or an AWS SMS queue

Some examples of using CloudWatch Events with AWS Elemental MediaStore include:

- Activating a Lambda function whenever a container is created.
• Notifying an Amazon SNS topic when an object is deleted.

For more information, see the Amazon CloudWatch Events User Guide.

Topics
• AWS Elemental MediaStore Object Upload State-change Event (p. 35)
• AWS Elemental MediaStore Container State-change Event (p. 36)

AWS Elemental MediaStore Object Upload State-change Event

This event is published when an object's state has changed (when the object has been uploaded or deleted). For information on subscribing to this event, see Amazon CloudWatch.

Object Updated

```json
{
  "version": "1",
  "id": "6a7e8feb-b491-4cf7-a9f1-bf3703467718",
  "detail-type": "MediaStore Object Upload State Change",
  "source": "aws.mediastore",
  "account": "111122223333",
  "time": "2017-02-22T18:43:48Z",
  "region": "us-east-1",
  "resources": [
  ],
  "detail": {
    "ContainerName": "Movies",
    "Operation": "UPDATE",
    "Path": "TVShow/Episode1/Pilot.avi",
    "ObjectSize": 123567890830,
    "URL": "https://a832p1qeaznlp9.files.mediastore-us-west-2.com/Movies/MondayMornings/Episode1/Introduction.avi"
  }
}
```

Object Removed

```json
{
  "version": "1",
  "id": "6a7e8feb-b491-4cf7-a9f1-bf3703467718",
  "detail-type": "MediaStore Object Upload State Change",
  "source": "aws.mediastore",
  "account": "111122223333",
  "time": "2017-02-22T18:43:48Z",
  "region": "us-east-1",
  "resources": [
    "arn:aws:mediastore:us-east-1:123456789012:Movies/MondayMornings/Episode1/Introduction.avi"
  ],
  "detail": {
    "ContainerName": "Movies",
    "Operation": "REMOVE",
    "Path": "Movies/MondayMornings/Episode1/Introduction.avi",
    "URL": "https://a832p1qeaznlp9.files.mediastore-us-west-2.com/Movies/MondayMornings/Episode1/Introduction.avi"
  }
}
```
AWS Elemental MediaStore Container State-change Event

This event is published when a container's state has changed (when a container has been added or deleted). For information on subscribing to this event, see Amazon CloudWatch.

Container Created

```
{  
  "version": "1",
  "id": "6a7e8feb-b491-4cf7-a9f1-bf3703467718",
  "detail-type": "MediaStore Container State Change",
  "source": "aws.mediastore",
  "account": "111122223333",
  "time": "2017-02-22T18:43:48Z",
  "region": "us-east-1",
  "resources": [  
    "arn:aws:mediastore:us-east-1:123456789012:container/Movies"
  ],
  "detail": {  
    "ContainerName": "Movies",
    "Operation": "CREATE",
    "Endpoint": "https://a832p1qeaznlp9.mediastore-us-west-2.amazonaws.com"
  }
}
```

Container Removed

```
{  
  "version": "1",
  "id": "6a7e8feb-b491-4cf7-a9f1-bf3703467718",
  "detail-type": "MediaStore Container State Change",
  "source": "aws.mediastore",
  "account": "111122223333",
  "time": "2017-02-22T18:43:48Z",
  "region": "us-east-1",
  "resources": [  
    "arn:aws:mediastore:us-east-1:123456789012:container/Movies"
  ],
  "detail": {  
    "ContainerName": "Movies",
    "Operation": "REMOVE"
  }
}
```
Limits in AWS Elemental MediaStore

The following table describes limits in AWS Elemental MediaStore. For information about limits that can be changed, see AWS Service Limits.

<table>
<thead>
<tr>
<th>Resource</th>
<th>Default Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Containers</td>
<td>100 (can request more)</td>
</tr>
<tr>
<td>Folders</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Levels of Folders</td>
<td>10</td>
</tr>
<tr>
<td>Object Size</td>
<td>10 MB</td>
</tr>
<tr>
<td>Objects</td>
<td>Unlimited</td>
</tr>
</tbody>
</table>
Document History for User Guide

The following table describes the documentation for this release of AWS Elemental MediaStore.

- **API version:** November 27, 2017
- **Latest documentation update:** November 27, 2017

<table>
<thead>
<tr>
<th>Change</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>New service and guide</td>
<td>This is the initial release of the video origination and storage service, AWS Elemental MediaStore, and the AWS Elemental MediaStore User Guide.</td>
<td>November 27, 2017</td>
</tr>
</tbody>
</table>

**Note**

- The AWS Media Services are not designed or intended for use with applications or in situations requiring fail-safe performance, such as life safety operations, navigation or communication systems, air traffic control, or life support machines in which the unavailability, interruption or failure of the services could lead to death, personal injury, property damage or environmental damage.
AWS Glossary

For the latest AWS terminology, see the AWS Glossary in the AWS General Reference.