Manage S3 service policies

REST API reference

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Manage S3 service policies

Protocols S3 services svm.uuid policies endpoint overview

Overview

An S3 policy is an object that when associated with a resource, defines their permissions. Buckets and objects are defined as resources. Policies are used to manage access to these resources.

Examples

Retrieving all fields for all S3 policies of an SVM

```
# The API:
/api/protocols/s3/services/{svm.uuid}/policies:

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/s3/services/12f3ba4c-7ae0-
11e9-8c06-
0050568ea123/policies?fields=*&return_records=true&return_timeout=15" -H
"accept: application/json"

# The response:
{
"num_records": 2,
"records": [
  {
    "comment": "S3 policy.",
    "name": "Policy1",
    "statements": [
      {
        "actions": [
          "*"
        ],
        "effect": "allow",
        "index": 0,
        "resources": [
          "bucket1",
          "bucket1/*"
        ],
        "sid": "FullAccessToBucket1"
      },
      {
        "actions": [
          "DeleteObject"
        ],
```

```
        "effect": "deny",
        "index": 1,
        "resources": [
          "*"
        ],
        "sid": "DenyDeleteObjectAccessToAllResources"
      }
    ],
    "svm": {
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
  },
  {
    "comment": "S3 policy 2.",
    "name": "Policy2",
    "statements": [
      {
        "actions": [
          "GetObject"
        ],
        "effect": "allow",
        "index": 3,
        "resources": [
          "*"
        ],
        "sid": "AllowGetObjectAccessToAllResources"
      },
      {
        "actions": [
          "*"
        ],
        "effect": "deny",
        "index": 3,
        "resources": [
          "*"
        ],
        "sid": "DenyAccessToAllResources"
      }
    ],
    "svm": {
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
  }
]
```

```
}
```

Retrieving the specified policy in the SVM

```
# The API:
/api/protocols/s3/services/{svm.uuid}/policies/{name}:

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/s3/services/12f3ba4c-7ae0-
11e9-8c06-0050568ea123/policies/Policy1?fields=*" -H "accept:
application/json"

# The response:
{
"comment": "S3 policy.",
"name": "Policy1",
"statements": [
  {
    "actions": [
      "GetObject",
      "PutObject",
      "DeleteObject",
      "ListBucket",
      "ListMyBuckets"
    ],
    "effect": "deny",
    "index": 0,
    "resources": [
      "*"
    ],
    "sid": "DenyAccessToAllResources"
  }
],
"svm": {
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
}
```

Creating an S3 policy for an SVM

```
# The API:
/api/protocols/s3/services/{svm.uuid}/policies
```

```
# The call:
curl -X POST "https://<mgmt-ip>/api/protocols/s3/services/12f3ba4c-7ae0-
11e9-8c06-0050568ea123/policies?return_records=true" -H "accept:
application/json" -H "authorization: Basic YWRtaW46bmV0YXBwMSE=" -H
"Content-Type: application/json" -d "{ \"comment\": \"S3 policy.\",
\"name\": \"Policy1\", \"statements\": [ { \"actions\": [ \"ListBucket\",
\"ListMyBuckets\" ], \"effect\": \"allow\", \"resources\": [ \"*\" ],
\"sid\": \"AllowListAccessToAllResources\" } ]}"

# The response:
HTTP/1.1 202 Accepted
Date: Mon, 16 Mar 2020 11:32:27 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 289
Content-Type: application/json
{
"num_records": 1,
"records": [
  {
    "comment": "S3 policy.",
    "name": "Policy1",
    "statements": [
      {
        "actions": [
          "ListBucket",
          "ListMyBuckets"
        ],
        "effect": "allow",
        "index": 5,
        "resources": [
          "*"
        ],
        "sid": "AllowListAccessToAllResources"
      }
    ],
    "svm": {
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  }
]
}
```

Updating an S3 policy for an SVM

```
# The API:
/api/protocols/s3/services/{svm.uuid}/policies/{name}:

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/s3/services/12f3ba4c-7ae0-
11e9-8c06-0050568ea123/policies/Policy1" -H "accept: application/json" -H
"authorization: Basic YWRtaW46bmV0YXBwMSE=" -H "Content-Type:
application/json" -d "{ \"comment\": \"S3 policy.\", \"statements\": [ {
\"actions\": [ \"GetObject\", \"PutObject\", \"DeleteObject\",
\"ListBucket\", \"ListMyBuckets\" ], \"effect\": \"allow\", \"resources\":
[ \"bucket1\", \"bucket1/*\" ], \"sid\": \"FullAccessToAllResources\" }
]}"

# The response:
HTTP/1.1 202 Accepted
Date: Mon, 16 Mar 2020 11:32:27 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 189
Content-Type: application/json
```

Deleting an S3 policy for a specified SVM

```
# The API:
/api/protocols/s3/services/{svm.uuid}/policies/{name}:

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/s3/services/12f3ba4c-7ae0-
11e9-8c06-0050568ea123/policies/Policy1" -H "accept: application/json"

# The response:
HTTP/1.1 202 Accepted
Date: Mon, 16 Mar 2020 11:32:27 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 189
Content-Type: application/json
```

Retrieve S3 policies in SVM configuration

GET `/protocols/s3/services/{svm.uuid}/policies`

Introduced In: 9.8

Retrieves the S3 policies SVM configuration.

Related ONTAP commands

- `vserver object-store-server policy show`

Learn more

- DOC /protocols/s3/services/{svm.uuid}/policies

Parameters

Name	Type	In	Required	Description
name	string	query	False	Filter by name
statements.sid	string	query	False	Filter by statements.sid
statements.effect	string	query	False	Filter by statements.effect
statements.index	integer	query	False	Filter by statements.index
statements.resources	string	query	False	Filter by statements.resources
statements.actions	string	query	False	Filter by statements.actions
comment	string	query	False	Filter by comment
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
read-only	boolean	query	False	Filter by read-only

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	collection_links	
num_records	integer	Number of records
records	array[s3_policy]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "comment": "S3 policy.",
      "name": "Policy1",
      "statements": [
        {
          "actions": [
            "*"
          ],
          "effect": "allow",
          "index": 0,
          "resources": [
            "bucket1",
            "bucket1/*"
          ],
          "sid": "FullAccessToBucket1"
        }
      ],
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```

Error

```
Status: Default, Error
```

Name	Type	Description
error	error	

Example error


```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```


Definitions

See Definitions

href

Name	Type	Description
href	string	

collection_links

Name	Type	Description
next	href	
self	href	

s3_policy_statement

Specifies information about a single access policy statement.

Name	Type	Description
actions	array[string]	For each resource, S3 supports a set of operations. The resource operations allowed or denied are identified by an action list: • GetObject - retrieves objects from a bucket. • PutObject - puts objects in a bucket. • DeleteObject - deletes objects from a bucket. • ListBucket - lists the objects in a bucket. • GetBucketAcl - retrieves the access control list (ACL) of a bucket. • GetObjectAcl - retrieves the access control list (ACL) of an object. • ListAllMyBuckets - lists all of the buckets in a server. The wildcard character "*" can be used to form a regular expression for specifying actions.

Name	Type	Description
effect	string	Specifies whether access is allowed or denied. If access (to allow) is not granted explicitly to a resource, access is implicitly denied. Access can also be denied explicitly to a resource, in order to make sure that a user cannot access it, even if a different policy grants access.
index	integer	Specifies a unique statement index used to identify a particular statement. This parameter should not be specified in the POST method. A statement index is automatically generated and is retrieved using the GET method.
resources	array[string]	
sid	string	Specifies the statement identifier which contains additional information about the statement.

_links

Name	Type	Description
self	href	

svm

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

s3_policy

An S3 policy is an object. It defines resource (bucket, folder or object) permissions. These policies get evaluated when an object store user user makes a request. Permissions in the policies determine whether the request is allowed or denied.

Name	Type	Description
comment	string	Can contain any additional information about the S3 policy.
name	string	Specifies the name of the policy. A policy name length can range from 1 to 128 characters and can only contain the following combination of characters 0-9, A-Z, a-z, "_", "+", "=", ",", ".","@", and "-".
read-only	boolean	Specifies whether or not the s3 policy is read only. This parameter should not be specified in the POST method.
statements	array[s3_policy_statement]	Specifies the policy statements.
svm	svm	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Create an S3 policy configuration

POST `/protocols/s3/services/{svm.uuid}/policies`

Introduced In: 9.8

Creates the S3 policy configuration.

Important notes

- Each SVM can have one or more s3 policy configurations.

Required properties

- `svm.uuid` - Existing SVM in which to create the s3 policy configuration.
- `name` - Policy name that is to be created.

Recommended optional properties

- `comment` - Short description about the S3 policy.
- `statements.effect` - Indicates whether to allow or deny access.
- `statements.actions` - List of actions that can be allowed or denied access. Example: GetObject, PutObject, DeleteObject, ListBucket and ListMyBuckets.
- `statements.resources` - Buckets or objects that can be allowed or denied access.
- `statements.sid` - Statement identifier providing additional information about the statement.

Related ONTAP commands

- `vserver object-store-server policy create`
- `vserver object-store-server policy add-statement`

Learn more

- DOC /protocols/s3/services/{svm.uuid}/policies

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Request Body

Name	Type	Description
comment	string	Can contain any additional information about the S3 policy.
name	string	Specifies the name of the policy. A policy name length can range from 1 to 128 characters and can only contain the following combination of characters 0-9, A-Z, a-z, "_", "+", "=", ",", ".","@", and "-".
read-only	boolean	Specifies whether or not the s3 policy is read only. This parameter should not be specified in the POST method.
statements	array[s3_policy_statement]	Specifies the policy statements.
svm	svm	

Example request

```
{
  "comment": "S3 policy.",
  "name": "Policy1",
  "statements": [
    {
      "actions": [
        "*"
      ],
      "effect": "allow",
      "index": 0,
      "resources": [
        "bucket1",
        "bucket1/*"
      ],
      "sid": "FullAccessToBucket1"
    }
  ],
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

```
Status: 201, Created
```

Name	Type	Description
num_records	integer	Number of records
records	array[s3_policy]	

Example response


```
{
  "records": [
    {
      "comment": "S3 policy.",
      "name": "Policy1",
      "statements": [
        {
          "actions": [
            "*"
          ],
          "effect": "allow",
          "index": 0,
          "resources": [
            "bucket1",
            "bucket1/*"
          ],
          "sid": "FullAccessToBucket1"
        }
      ],
      "svm": {
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```


Error

```
Status: Default
```

ONTAP Error Response Codes

| Error Code | Description | | ------- | -------- |

Definitions

See Definitions

s3_policy_statement

Specifies information about a single access policy statement.

Name	Type	Description
actions	array[string]	For each resource, S3 supports a set of operations. The resource operations allowed or denied are identified by an action list: • GetObject - retrieves objects from a bucket. • PutObject - puts objects in a bucket. • DeleteObject - deletes objects from a bucket. • ListBucket - lists the objects in a bucket. • GetBucketAcl - retrieves the access control list (ACL) of a bucket. • GetObjectAcl - retrieves the access control list (ACL) of an object. • ListAllMyBuckets - lists all of the buckets in a server. The wildcard character "*" can be used to form a regular expression for specifying actions.
effect	string	Specifies whether access is allowed or denied. If access (to allow) is not granted explicitly to a resource, access is implicitly denied. Access can also be denied explicitly to a resource, in order to make sure that a user cannot access it, even if a different policy grants access.

Name	Type	Description
index	integer	Specifies a unique statement index used to identify a particular statement. This parameter should not be specified in the POST method. A statement index is automatically generated and is retrieved using the GET method.
resources	array[string]	
sid	string	Specifies the statement identifier which contains additional information about the statement.

href

Name	Type	Description
href	string	

_links

svm

Name	Type	Description
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

s3_policy

An S3 policy is an object. It defines resource (bucket, folder or object) permissions. These policies get evaluated when an object store user user makes a request. Permissions in the policies determine whether the request is allowed or denied.

Name	Type	Description
comment	string	Can contain any additional information about the S3 policy.
name	string	Specifies the name of the policy. A policy name length can range from 1 to 128 characters and can only contain the following combination of characters 0-9, A-Z, a-z, "_", "+", "=", ",", ".","@", and "-".

Name	Type	Description
read-only	boolean	Specifies whether or not the s3 policy is read only. This parameter should not be specified in the POST method.
statements	array[s3_policy_statement]	Specifies the policy statements.
svm	svm	

collection_links

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Delete an S3 policy configuration

DELETE `/protocols/s3/services/{svm.uuid}/policies/{name}`

Introduced In: 9.8

Deletes the S3 policy configuration of an SVM.

Related ONTAP commands

- `vserver object-store-server policy delete`
- `vserver object-store-server policy delete-statement`

Learn more

- DOC /protocols/s3/services/{svm.uuid}/policies

Parameters

Name	Type	In	Required	Description
name	string	path	True	Policy name
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Response

```
Status: 200, Ok
```

Error

```
Status: Default, Error
```

Name	Type	Description
error	error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve an S3 policy configuration

GET `/protocols/s3/services/{svm.uuid}/policies/{name}`

Introduced In: 9.8

Retrieves the S3 policy configuration of an SVM.

Related ONTAP commands

- `vserver object-store-server policy show`

Learn more

- DOC /protocols/s3/services/{svm.uuid}/policies

Parameters

Name	Type	In	Required	Description
name	string	path	True	Policy name

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.

Response

```
Status: 200, Ok
```

Name	Type	Description
comment	string	Can contain any additional information about the S3 policy.
name	string	Specifies the name of the policy. A policy name length can range from 1 to 128 characters and can only contain the following combination of characters 0-9, A-Z, a-z, "_", "+", "=", ",", ".","@", and "-".
read-only	boolean	Specifies whether or not the s3 policy is read only. This parameter should not be specified in the POST method.
statements	array[s3_policy_statement]	Specifies the policy statements.
svm	svm	

Example response


```
{
  "comment": "S3 policy.",
  "name": "Policy1",
  "statements": [
    {
      "actions": [
        "*"
      ],
      "effect": "allow",
      "index": 0,
      "resources": [
        "bucket1",
        "bucket1/*"
      ],
      "sid": "FullAccessToBucket1"
    }
  ],
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	error	

Example error


```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```


Definitions

See Definitions

s3_policy_statement

Specifies information about a single access policy statement.

Name	Type	Description
actions	array[string]	For each resource, S3 supports a set of operations. The resource operations allowed or denied are identified by an action list: • GetObject - retrieves objects from a bucket. • PutObject - puts objects in a bucket. • DeleteObject - deletes objects from a bucket. • ListBucket - lists the objects in a bucket. • GetBucketAcl - retrieves the access control list (ACL) of a bucket. • GetObjectAcl - retrieves the access control list (ACL) of an object. • ListAllMyBuckets - lists all of the buckets in a server. The wildcard character "*" can be used to form a regular expression for specifying actions.
effect	string	Specifies whether access is allowed or denied. If access (to allow) is not granted explicitly to a resource, access is implicitly denied. Access can also be denied explicitly to a resource, in order to make sure that a user cannot access it, even if a different policy grants access.

Name	Type	Description
index	integer	Specifies a unique statement index used to identify a particular statement. This parameter should not be specified in the POST method. A statement index is automatically generated and is retrieved using the GET method.
resources	array[string]	
sid	string	Specifies the statement identifier which contains additional information about the statement.

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update an S3 policy configuration

PATCH `/protocols/s3/services/{svm.uuid}/policies/{name}`

Introduced In: 9.8

Updates the S3 policy configuration of an SVM.

Important notes

- The following fields can be modified for a policy:
  - `comment` - Any information related to the policy.
  - `statements` - Specifies the array of policy statements.

Related ONTAP commands

- `vserver object-store-server policy modify`
- `vserver object-store-server policy modify-statement`

Learn more

- DOC /protocols/s3/services/{svm.uuid}/policies

Parameters

Name	Type	In	Required	Description
name	string	path	True	Policy name
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Request Body

Name	Type	Description
comment	string	Can contain any additional information about the S3 policy.
read-only	boolean	Specifies whether or not the s3 policy is read only. This parameter should not be specified in the POST method.
statements	array[s3_policy_statement]	Specifies the policy statements.
svm	svm	

Example request

```
{
  "comment": "S3 policy.",
  "statements": [
    {
      "actions": [
        "*"
      ],
      "effect": "allow",
      "index": 0,
      "resources": [
        "bucket1",
        "bucket1/*"
      ],
      "sid": "FullAccessToBucket1"
    }
  ],
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

| Error Code | Description | | ------- | -------- |

Definitions

See Definitions

s3_policy_statement

Specifies information about a single access policy statement.

Name	Type	Description
actions	array[string]	For each resource, S3 supports a set of operations. The resource operations allowed or denied are identified by an action list: • GetObject - retrieves objects from a bucket. • PutObject - puts objects in a bucket. • DeleteObject - deletes objects from a bucket. • ListBucket - lists the objects in a bucket. • GetBucketAcl - retrieves the access control list (ACL) of a bucket. • GetObjectAcl - retrieves the access control list (ACL) of an object. • ListAllMyBuckets - lists all of the buckets in a server. The wildcard character "*" can be used to form a regular expression for specifying actions.
effect	string	Specifies whether access is allowed or denied. If access (to allow) is not granted explicitly to a resource, access is implicitly denied. Access can also be denied explicitly to a resource, in order to make sure that a user cannot access it, even if a different policy grants access.

Name	Type	Description
index	integer	Specifies a unique statement index used to identify a particular statement. This parameter should not be specified in the POST method. A statement index is automatically generated and is retrieved using the GET method.
resources	array[string]	
sid	string	Specifies the statement identifier which contains additional information about the statement.

href

Name	Type	Description
href	string	

_links

svm

Name	Type	Description
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

s3_policy

An S3 policy is an object. It defines resource (bucket, folder or object) permissions. These policies get evaluated when an object store user user makes a request. Permissions in the policies determine whether the request is allowed or denied.

Name	Type	Description
comment	string	Can contain any additional information about the S3 policy.
read-only	boolean	Specifies whether or not the s3 policy is read only. This parameter should not be specified in the POST method.
statements	array[s3_policy_statement]	Specifies the policy statements.
svm	svm	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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