
Amazon FSx

API Reference



Amazon FSx: API Reference

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Amazon FSx API Reference

The Amazon FSx API is a network protocol based on [HTTP \(RFC 2616\)](#). For each API call, you make an HTTP request to the region-specific Amazon FSx API endpoint for the AWS Region where you want to manage file systems. The API uses JSON (RFC 4627) documents for HTTP request/response bodies.

The Amazon FSx API is an RPC model. In this model, there is a fixed set of operations and the syntax for each operation is known to clients without any prior interaction. In the following section, you can find a description of each API operation using an abstract RPC notation. Each has an operation name that doesn't appear on the wire. For each operation, the topic specifies the mapping to HTTP request elements.

The specific Amazon FSx operation to which a given request maps is determined by a combination of the request's method (GET, PUT, POST, or DELETE) and which of the various patterns its Request-URI matches. If the operation is PUT or POST, Amazon FSx extracts call arguments from the Request-URI path segment, query parameters, and the JSON object in the request body.

Although operation names, such as `CreateFileSystem`, don't appear on the wire, these names are meaningful in AWS Identity and Access Management (IAM) policies. The operation name is also used to name commands in command-line tools and elements of the AWS SDKs. For example, there is a AWS CLI command named `create-file-system` that maps to the `CreateFileSystem` operation. The operation name also appears in AWS CloudTrail logs for Amazon FSx API calls.

API Endpoint

The API endpoint is the DNS name used as a host in the HTTP URI for the API calls. These API endpoints are specific to AWS Regions and take the following form.

```
fsx.aws-region.amazonaws.com
```

For example, the Amazon FSx API endpoint for the US East (N. Virginia) Region is the following.

```
fsx.us-east-1.amazonaws.com
```

For a list of AWS Regions that Amazon FSx supports (where you can create and manage file systems), see [Amazon FSx](#) in the *AWS General Reference*.

The region-specific API endpoint defines the scope of the Amazon FSx resources that are accessible when you make an API call. For example, when you call the `DescribeFileSystems` operation using the preceding endpoint, you get a list of file systems in the US West (Oregon) Region that have been created in your account.

API Version

The version of the API being used for a call is identified by the first path segment of the request URI, and its form is an ISO 8601 date. The documentation describes API version 2018-03-01.

Related Topics

The following related content provide information on the necessary permissions for these API operations using IAM policies.

- [Amazon FSx for Windows File Server API Permissions: Actions, Resources, and Conditions Reference](#) in the Amazon FSx for Windows File Sever User Guide
- [Amazon FSx for Lustre API Permissions: Actions, Resources, and Conditions Reference](#) in the Amazon FSx for Lustre User Guide

Amazon FSx for Windows File Server Forums

If you encounter issues while using Amazon FSx use the forums:

- [Amazon FSx for Windows File Server forums.](#)
- [Amazon FSx for Lustre forums.](#)

Actions

The following actions are supported:

- [CreateBackup](#) (p. 4)
- [CreateFileSystem](#) (p. 8)
- [CreateFileSystemFromBackup](#) (p. 14)
- [DeleteBackup](#) (p. 19)
- [DeleteFileSystem](#) (p. 22)
- [DescribeBackups](#) (p. 25)
- [DescribeFileSystems](#) (p. 29)
- [ListTagsForResource](#) (p. 33)
- [TagResource](#) (p. 36)
- [UntagResource](#) (p. 38)
- [UpdateFileSystem](#) (p. 40)

CreateBackup

Creates a backup of an existing Amazon FSx for Windows File Server file system. Creating regular backups for your file system is a best practice that complements the replication that Amazon FSx for Windows File Server performs for your file system. It also enables you to restore from user modification of data.

If a backup with the specified client request token exists, and the parameters match, this operation returns the description of the existing backup. If a backup specified client request token exists, and the parameters don't match, this operation returns `IncompatibleParameterError`. If a backup with the specified client request token doesn't exist, `CreateBackup` does the following:

- Creates a new Amazon FSx backup with an assigned ID, and an initial lifecycle state of `CREATING`.
- Returns the description of the backup.

By using the idempotent operation, you can retry a `CreateBackup` operation without the risk of creating an extra backup. This approach can be useful when an initial call fails in a way that makes it unclear whether a backup was created. If you use the same client request token and the initial call created a backup, the operation returns a successful result because all the parameters are the same.

The `CreateFileSystem` operation returns while the backup's lifecycle state is still `CREATING`. You can check the file system creation status by calling the [DescribeBackups \(p. 25\)](#) operation, which returns the backup state along with other information.

Note

Request Syntax

```
{
  "ClientRequestToken": "string",
  "FileSystemId": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 66\)](#).

The request accepts the following data in JSON format.

ClientRequestToken (p. 4)

(Optional) A string of up to 64 ASCII characters that Amazon FSx uses to ensure idempotent creation. This string is automatically filled on your behalf when you use the AWS Command Line Interface (AWS CLI) or an AWS SDK.

Type: String

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

Pattern: [A-Za-z0-9_/.-]{0,255}\$

Required: No

FileSystemId (p. 4)

The ID of the file system to back up.

Type: String

Length Constraints: Minimum length of 11. Maximum length of 21.

Pattern: ^(fs-[0-9a-f]{8,})\$

Required: Yes

Tags (p. 4)

The tags to apply to the backup at backup creation. The key value of the Name tag appears in the console as the backup name.

Type: Array of [Tag \(p. 61\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: No

Response Syntax

```
{
  "Backup": {
    "BackupId": "string",
    "CreationTime": number,
    "FailureDetails": {
      "Message": "string"
    },
    "FileSystem": {
      "CreationTime": number,
      "DNSName": "string",
      "FailureDetails": {
        "Message": "string"
      },
      "FileSystemId": "string",
      "FileSystemType": "string",
      "KmsKeyId": "string",
      "Lifecycle": "string",
      "LustreConfiguration": {
        "DataRepositoryConfiguration": {
          "ExportPath": "string",
          "ImportedFileChunkSize": number,
          "ImportPath": "string"
        },
        "WeeklyMaintenanceStartTime": "string"
      },
      "NetworkInterfaceIds": [ "string" ],
      "OwnerId": "string",
      "ResourceARN": "string",
      "StorageCapacity": number,
      "SubnetIds": [ "string" ],
      "Tags": [
        {
          "Key": "string",
          "Value": "string"
        }
      ]
    }
  }
}
```

```
    }
  ],
  "VpcId": "string",
  "WindowsConfiguration": {
    "ActiveDirectoryId": "string",
    "AutomaticBackupRetentionDays": number,
    "CopyTagsToBackups": boolean,
    "DailyAutomaticBackupStartTime": "string",
    "MaintenanceOperationsInProgress": [ "string" ],
    "ThroughputCapacity": number,
    "WeeklyMaintenanceStartTime": "string"
  }
},
"KmsKeyId": "string",
"Lifecycle": "string",
"ProgressPercent": number,
"ResourceARN": "string",
"Tags": [
  {
    "Key": "string",
    "Value": "string"
  }
],
>Type": "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.

Backup (p. 5)

A description of the backup.

Type: [Backup \(p. 44\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 68\)](#).

BackupInProgress

Another backup is already under way. Wait for completion before initiating additional backups of this file system.

HTTP Status Code: 400

BadRequest

A generic error indicating a failure with a client request.

HTTP Status Code: 400

FileSystemNotFound

No Amazon FSx file systems were found based upon supplied parameters.

HTTP Status Code: 400

IncompatibleParameterError

The error returned when a second request is received with the same client request token but different parameters settings. A client request token should always uniquely identify a single request.

HTTP Status Code: 400

InternalServerError

A generic error indicating a server-side failure.

HTTP Status Code: 500

ServiceLimitExceeded

An error indicating that a particular service limit was exceeded. You can increase some service limits by contacting AWS Support.

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

CreateFileSystem

Creates a new, empty Amazon FSx file system.

If a file system with the specified client request token exists and the parameters match, `CreateFileSystem` returns the description of the existing file system. If a file system specified client request token exists and the parameters don't match, this call returns `IncompatibleParameterError`. If a file system with the specified client request token doesn't exist, `CreateFileSystem` does the following:

- Creates a new, empty Amazon FSx file system with an assigned ID, and an initial lifecycle state of `CREATING`.
- Returns the description of the file system.

This operation requires a client request token in the request that Amazon FSx uses to ensure idempotent creation. This means that calling the operation multiple times with the same client request token has no effect. By using the idempotent operation, you can retry a `CreateFileSystem` operation without the risk of creating an extra file system. This approach can be useful when an initial call fails in a way that makes it unclear whether a file system was created. Examples are if a transport level timeout occurred, or your connection was reset. If you use the same client request token and the initial call created a file system, the client receives success as long as the parameters are the same.

Note

The `CreateFileSystem` call returns while the file system's lifecycle state is still `CREATING`. You can check the file-system creation status by calling the [DescribeFileSystems](#) (p. 29) operation, which returns the file system state along with other information.

Request Syntax

```
{
  "ClientRequestToken": "string",
  "FileSystemType": "string",
  "KmsKeyId": "string",
  "LustreConfiguration": {
    "ExportPath": "string",
    "ImportedFileChunkSize": number,
    "ImportPath": "string",
    "WeeklyMaintenanceStartTime": "string"
  },
  "SecurityGroupIds": [ "string" ],
  "StorageCapacity": number,
  "SubnetIds": [ "string" ],
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "WindowsConfiguration": {
    "ActiveDirectoryId": "string",
    "AutomaticBackupRetentionDays": number,
    "CopyTagsToBackups": boolean,
    "DailyAutomaticBackupStartTime": "string",
    "ThroughputCapacity": number,
    "WeeklyMaintenanceStartTime": "string"
  }
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 66).

The request accepts the following data in JSON format.

[ClientRequestToken](#) (p. 8)

(Optional) A string of up to 64 ASCII characters that Amazon FSx uses to ensure idempotent creation. This string is automatically filled on your behalf when you use the AWS Command Line Interface (AWS CLI) or an AWS SDK.

Type: String

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

Pattern: `[A-Za-z0-9_/.-]{0,255}$`

Required: No

[FileSystemType](#) (p. 8)

The type of file system.

Type: String

Valid Values: `WINDOWS | LUSTRE`

Required: Yes

[KmsKeyId](#) (p. 8)

The ID of your AWS Key Management Service (AWS KMS) key. This ID is used to encrypt the data in your file system at rest. For more information, see [Encrypt](#) in the *AWS Key Management Service API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-4[a-fA-F0-9]{3}-[89aAbB][a-fA-F0-9]{3}-[a-fA-F0-9]{12}|arn:aws[a-z-]{0,7}:kms:[a-z]{2}-[a-z-]{4},-\d+:\d{12}:(key|alias)\|([a-fA-F0-9]{8}-[a-fA-F0-9]{4}-4[a-fA-F0-9]{3}-[89aAbB][a-fA-F0-9]{3}-[a-fA-F0-9]{12}|[a-zA-Z0-9:\/_-]+)|alias\[a-zA-Z0-9:\/_-]+\d$`

Required: No

[LustreConfiguration](#) (p. 8)

The configuration object for Lustre file systems used in the `CreateFileSystem` operation.

Type: [CreateFileSystemLustreConfiguration](#) (p. 47) object

Required: No

[SecurityGroupIds](#) (p. 8)

A list of IDs for the security groups that apply to the specified network interfaces created for file system access. These security groups will apply to all network interfaces. This list isn't returned in later describe requests.

Type: Array of strings

Array Members: Maximum number of 50 items.

Length Constraints: Minimum length of 11. Maximum length of 20.

Pattern: `^(sg-[0-9a-f]{8,})$`

Required: No

StorageCapacity (p. 8)

The storage capacity of the file system.

For Windows file systems, the storage capacity has a minimum of 300 GiB, and a maximum of 65,536 GiB.

For Lustre file systems, the storage capacity has a minimum of 3,600 GiB. Storage capacity is provisioned in increments of 3,600 GiB.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

SubnetIds (p. 8)

A list of IDs for the subnets that the file system will be accessible from. File systems support only one subnet. The file server is also launched in that subnet's Availability Zone.

Type: Array of strings

Array Members: Maximum number of 50 items.

Length Constraints: Minimum length of 15. Maximum length of 24.

Pattern: `^(subnet-[0-9a-f]{8,})$`

Required: Yes

Tags (p. 8)

The tags to be applied to the file system at file system creation. The key value of the Name tag appears in the console as the file system name.

Type: Array of [Tag \(p. 61\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: No

WindowsConfiguration (p. 8)

The configuration for this Microsoft Windows file system.

Type: [CreateFileSystemWindowsConfiguration \(p. 49\)](#) object

Required: No

Response Syntax

```
{
  "FileSystem": {
    "CreationTime": number,
```

```

    "DNSName": "string",
    "FailureDetails": {
      "Message": "string"
    },
    "FileSystemId": "string",
    "FileSystemType": "string",
    "KmsKeyId": "string",
    "Lifecycle": "string",
    "LustreConfiguration": {
      "DataRepositoryConfiguration": {
        "ExportPath": "string",
        "ImportedFileChunkSize": number,
        "ImportPath": "string"
      },
      "WeeklyMaintenanceStartTime": "string"
    },
    "NetworkInterfaceIds": [ "string" ],
    "OwnerId": "string",
    "ResourceARN": "string",
    "StorageCapacity": number,
    "SubnetIds": [ "string" ],
    "Tags": [
      {
        "Key": "string",
        "Value": "string"
      }
    ],
    "VpcId": "string",
    "WindowsConfiguration": {
      "ActiveDirectoryId": "string",
      "AutomaticBackupRetentionDays": number,
      "CopyTagsToBackups": boolean,
      "DailyAutomaticBackupStartTime": "string",
      "MaintenanceOperationsInProgress": [ "string" ],
      "ThroughputCapacity": number,
      "WeeklyMaintenanceStartTime": "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.

FileSystem (p. 10)

A description of the file system.

Type: [FileSystem \(p. 54\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 68\)](#).

ActiveDirectoryError

An Active Directory error.

HTTP Status Code: 400

BadRequest

A generic error indicating a failure with a client request.

HTTP Status Code: 400

IncompatibleParameterError

The error returned when a second request is received with the same client request token but different parameters settings. A client request token should always uniquely identify a single request.

HTTP Status Code: 400

InternalServerError

A generic error indicating a server-side failure.

HTTP Status Code: 500

InvalidExportPath

The path provided for data repository export isn't valid.

HTTP Status Code: 400

InvalidImportPath

The path provided for data repository import isn't valid.

HTTP Status Code: 400

InvalidNetworkSettings

One or more network settings specified in the request are invalid. `InvalidVpcId` means that the ID passed for the virtual private cloud (VPC) is invalid. `InvalidSubnetIds` returns the list of IDs for subnets that are either invalid or not part of the VPC specified. `InvalidSecurityGroupIds` returns the list of IDs for security groups that are either invalid or not part of the VPC specified.

HTTP Status Code: 400

MissingFileSystemConfiguration

File system configuration is required for this operation.

HTTP Status Code: 400

ServiceLimitExceeded

An error indicating that a particular service limit was exceeded. You can increase some service limits by contacting AWS Support.

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 Go - Pilot](#)

- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

CreateFileSystemFromBackup

Creates a new Amazon FSx file system from an existing Amazon FSx for Windows File Server backup.

If a file system with the specified client request token exists and the parameters match, this call returns the description of the existing file system. If a client request token specified by the file system exists and the parameters don't match, this call returns `IncompatibleParameterError`. If a file system with the specified client request token doesn't exist, this operation does the following:

- Creates a new Amazon FSx file system from backup with an assigned ID, and an initial lifecycle state of `CREATING`.
- Returns the description of the file system.

Parameters like Active Directory, default share name, automatic backup, and backup settings default to the parameters of the file system that was backed up, unless overridden. You can explicitly supply other settings.

By using the idempotent operation, you can retry a `CreateFileSystemFromBackup` call without the risk of creating an extra file system. This approach can be useful when an initial call fails in a way that makes it unclear whether a file system was created. Examples are if a transport level timeout occurred, or your connection was reset. If you use the same client request token and the initial call created a file system, the client receives success as long as the parameters are the same.

Note

The `CreateFileSystemFromBackup` call returns while the file system's lifecycle state is still `CREATING`. You can check the file-system creation status by calling the [DescribeFileSystems \(p. 29\)](#) operation, which returns the file system state along with other information.

Request Syntax

```
{
  "BackupId": "string",
  "ClientRequestToken": "string",
  "SecurityGroupIds": [ "string" ],
  "SubnetIds": [ "string" ],
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "WindowsConfiguration": {
    "ActiveDirectoryId": "string",
    "AutomaticBackupRetentionDays": number,
    "CopyTagsToBackups": boolean,
    "DailyAutomaticBackupStartTime": "string",
    "ThroughputCapacity": number,
    "WeeklyMaintenanceStartTime": "string"
  }
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 66\)](#).

The request accepts the following data in JSON format.

BackupId (p. 14)

The ID of the backup.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 128.

Pattern: `^(backup-[0-9a-f]{8,})$`

Required: Yes

ClientRequestToken (p. 14)

(Optional) A string of up to 64 ASCII characters that Amazon FSx uses to ensure idempotent creation. This string is automatically filled on your behalf when you use the AWS Command Line Interface (AWS CLI) or an AWS SDK.

Type: String

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

Pattern: `[A-Za-z0-9_/.-]{0,255}$`

Required: No

SecurityGroupIds (p. 14)

A list of IDs for the security groups that apply to the specified network interfaces created for file system access. These security groups apply to all network interfaces. This value isn't returned in later describe requests.

Type: Array of strings

Array Members: Maximum number of 50 items.

Length Constraints: Minimum length of 11. Maximum length of 20.

Pattern: `^(sg-[0-9a-f]{8,})$`

Required: No

SubnetIds (p. 14)

A list of IDs for the subnets that the file system will be accessible from. Currently, you can specify only one subnet. The file server is also launched in that subnet's Availability Zone.

Type: Array of strings

Array Members: Maximum number of 50 items.

Length Constraints: Minimum length of 15. Maximum length of 24.

Pattern: `^(subnet-[0-9a-f]{8,})$`

Required: Yes

Tags (p. 14)

The tags to be applied to the file system at file system creation. The key value of the `Name` tag appears in the console as the file system name.

Type: Array of [Tag \(p. 61\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: No

WindowsConfiguration (p. 14)

The configuration for this Microsoft Windows file system.

Type: [CreateFileSystemWindowsConfiguration \(p. 49\)](#) object

Required: No

Response Syntax

```
{
  "FileSystem": {
    "CreationTime": number,
    "DNSName": "string",
    "FailureDetails": {
      "Message": "string"
    },
    "FileSystemId": "string",
    "FileSystemType": "string",
    "KmsKeyId": "string",
    "Lifecycle": "string",
    "LustreConfiguration": {
      "DataRepositoryConfiguration": {
        "ExportPath": "string",
        "ImportedFileChunkSize": number,
        "ImportPath": "string"
      },
      "WeeklyMaintenanceStartTime": "string"
    },
    "NetworkInterfaceIds": [ "string " ],
    "OwnerId": "string",
    "ResourceARN": "string",
    "StorageCapacity": number,
    "SubnetIds": [ "string " ],
    "Tags": [
      {
        "Key": "string",
        "Value": "string"
      }
    ],
    "VpcId": "string",
    "WindowsConfiguration": {
      "ActiveDirectoryId": "string",
      "AutomaticBackupRetentionDays": number,
      "CopyTagsToBackups": boolean,
      "DailyAutomaticBackupStartTime": "string",
      "MaintenanceOperationsInProgress": [ "string " ],
      "ThroughputCapacity": number,
      "WeeklyMaintenanceStartTime": "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.

FileSystem (p. 16)

A description of the file system.

Type: [FileSystem](#) (p. 54) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 68).

ActiveDirectoryError

An Active Directory error.

HTTP Status Code: 400

BackupNotFound

No Amazon FSx backups were found based upon the supplied parameters.

HTTP Status Code: 400

BadRequest

A generic error indicating a failure with a client request.

HTTP Status Code: 400

IncompatibleParameterError

The error returned when a second request is received with the same client request token but different parameters settings. A client request token should always uniquely identify a single request.

HTTP Status Code: 400

InternalServerError

A generic error indicating a server-side failure.

HTTP Status Code: 500

InvalidNetworkSettings

One or more network settings specified in the request are invalid. `InvalidVpcId` means that the ID passed for the virtual private cloud (VPC) is invalid. `InvalidSubnetIds` returns the list of IDs for subnets that are either invalid or not part of the VPC specified. `InvalidSecurityGroupIds` returns the list of IDs for security groups that are either invalid or not part of the VPC specified.

HTTP Status Code: 400

MissingFileSystemConfiguration

File system configuration is required for this operation.

HTTP Status Code: 400

ServiceLimitExceeded

An error indicating that a particular service limit was exceeded. You can increase some service limits by contacting AWS Support.

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DeleteBackup

Deletes an Amazon FSx for Windows File Server backup, deleting its contents. After deletion, the backup no longer exists, and its data is gone.

The `DeleteBackup` call returns instantly. The backup will not show up in later `DescribeBackups` calls.

Important

The data in a deleted backup is also deleted and can't be recovered by any means.

Request Syntax

```
{
  "BackupId": "string",
  "ClientRequestToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 66\)](#).

The request accepts the following data in JSON format.

BackupId (p. 19)

The ID of the backup you want to delete.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 128.

Pattern: `^(backup-[0-9a-f]{8,})$`

Required: Yes

ClientRequestToken (p. 19)

(Optional) A string of up to 64 ASCII characters that Amazon FSx uses to ensure idempotent deletion. This is automatically filled on your behalf when using the AWS CLI or SDK.

Type: String

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

Pattern: `[A-Za-z0-9_/.-]{0,255}$`

Required: No

Response Syntax

```
{
  "BackupId": "string",
  "Lifecycle": "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.

BackupId (p. 19)

The ID of the backup deleted.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 128.

Pattern: `^(backup-[0-9a-f]{8,})$`

Lifecycle (p. 19)

The lifecycle of the backup. Should be `DELETED`.

Type: String

Valid Values: `AVAILABLE` | `CREATING` | `DELETED` | `FAILED`

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 68).

BackupInProgress

Another backup is already under way. Wait for completion before initiating additional backups of this file system.

HTTP Status Code: 400

BackupNotFound

No Amazon FSx backups were found based upon the supplied parameters.

HTTP Status Code: 400

BackupRestoring

You can't delete a backup while it's being used to restore a file system.

HTTP Status Code: 400

BadRequest

A generic error indicating a failure with a client request.

HTTP Status Code: 400

IncompatibleParameterError

The error returned when a second request is received with the same client request token but different parameters settings. A client request token should always uniquely identify a single request.

HTTP Status Code: 400

InternalServerError

A generic error indicating a server-side failure.

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DeleteFileSystem

Deletes a file system, deleting its contents. After deletion, the file system no longer exists, and its data is gone. Any existing automatic backups will also be deleted.

By default, when you delete an Amazon FSx for Windows File Server file system, a final backup is created upon deletion. This final backup is not subject to the file system's retention policy, and must be manually deleted.

The `DeleteFileSystem` action returns while the file system has the `DELETING` status. You can check the file system deletion status by calling the [DescribeFileSystems \(p. 29\)](#) action, which returns a list of file systems in your account. If you pass the file system ID for a deleted file system, the [DescribeFileSystems \(p. 29\)](#) returns a `FileSystemNotFound` error.

Important

The data in a deleted file system is also deleted and can't be recovered by any means.

Request Syntax

```
{
  "ClientRequestToken": "string",
  "FileSystemId": "string",
  "WindowsConfiguration": {
    "FinalBackupTags": [
      {
        "Key": "string",
        "Value": "string"
      }
    ],
    "SkipFinalBackup": boolean
  }
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 66\)](#).

The request accepts the following data in JSON format.

ClientRequestToken (p. 22)

(Optional) A string of up to 64 ASCII characters that Amazon FSx uses to ensure idempotent deletion. This is automatically filled on your behalf when using the AWS CLI or SDK.

Type: String

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

Pattern: `[A-Za-z0-9_/.-]{0,255}`\$

Required: No

FileSystemId (p. 22)

The ID of the file system you want to delete.

Type: String

Length Constraints: Minimum length of 11. Maximum length of 21.

Pattern: `^(fs-[0-9a-f]{8,})$`

Required: Yes

WindowsConfiguration (p. 22)

The configuration object for the Microsoft Windows file system used in the `DeleteFileSystem` operation.

Type: [DeleteFileSystemWindowsConfiguration \(p. 52\)](#) object

Required: No

Response Syntax

```
{
  "FileSystemId": "string",
  "Lifecycle": "string",
  "WindowsResponse": {
    "FinalBackupId": "string",
    "FinalBackupTags": [
      {
        "Key": "string",
        "Value": "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.

FileSystemId (p. 23)

The ID of the file system being deleted.

Type: String

Length Constraints: Minimum length of 11. Maximum length of 21.

Pattern: `^(fs-[0-9a-f]{8,})$`

Lifecycle (p. 23)

The file system lifecycle for the deletion request. Should be `DELETING`.

Type: String

Valid Values: `AVAILABLE` | `CREATING` | `FAILED` | `DELETING`

WindowsResponse (p. 23)

The response object for the Microsoft Windows file system used in the `DeleteFileSystem` operation.

Type: [DeleteFileSystemWindowsResponse \(p. 53\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 68\)](#).

BadRequest

A generic error indicating a failure with a client request.

HTTP Status Code: 400

FileSystemNotFound

No Amazon FSx file systems were found based upon supplied parameters.

HTTP Status Code: 400

IncompatibleParameterError

The error returned when a second request is received with the same client request token but different parameters settings. A client request token should always uniquely identify a single request.

HTTP Status Code: 400

InternalServerError

A generic error indicating a server-side failure.

HTTP Status Code: 500

ServiceLimitExceeded

An error indicating that a particular service limit was exceeded. You can increase some service limits by contacting AWS Support.

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DescribeBackups

Returns the description of specific Amazon FSx for Windows File Server backups, if a `BackupIds` value is provided for that backup. Otherwise, it returns all backups owned by your AWS account in the AWS Region of the endpoint that you're calling.

When retrieving all backups, you can optionally specify the `MaxResults` parameter to limit the number of backups in a response. If more backups remain, Amazon FSx returns a `NextToken` value in the response. In this case, send a later request with the `NextToken` request parameter set to the value of `NextToken` from the last response.

This action is used in an iterative process to retrieve a list of your backups. `DescribeBackups` is called first without a `NextToken` value. Then the action continues to be called with the `NextToken` parameter set to the value of the last `NextToken` value until a response has no `NextToken`.

When using this action, keep the following in mind:

- The implementation might return fewer than `MaxResults` file system descriptions while still including a `NextToken` value.
- The order of backups returned in the response of one `DescribeBackups` call and the order of backups returned across the responses of a multi-call iteration is unspecified.

Request Syntax

```
{
  "BackupIds": [ "string" ],
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 66\)](#).

The request accepts the following data in JSON format.

BackupIds (p. 25)

(Optional) IDs of the backups you want to retrieve (String). This overrides any filters. If any IDs are not found, `BackupNotFound` will be thrown.

Type: Array of strings

Array Members: Maximum number of 50 items.

Length Constraints: Minimum length of 12. Maximum length of 128.

Pattern: `^(backup-[0-9a-f]{8,})$`

Required: No

Filters (p. 25)

(Optional) Filters structure. Supported names are file-system-id and backup-type.

Type: Array of [Filter \(p. 59\)](#) objects

Array Members: Maximum number of 10 items.

Required: No

MaxResults (p. 25)

(Optional) Maximum number of backups to return in the response (integer). This parameter value must be greater than 0. The number of items that Amazon FSx returns is the minimum of the `MaxResults` parameter specified in the request and the service's internal maximum number of items per page.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

NextToken (p. 25)

(Optional) Opaque pagination token returned from a previous `DescribeBackups` operation (String). If a token present, the action continues the list from where the returning call left off.

Type: String

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

Pattern: `^(?:[A-Za-z0-9+\/]{4})*(?:[A-Za-z0-9+\/]{2}==|[A-Za-z0-9+\/]{3}=)?$`

Required: No

Response Syntax

```
{
  "Backups": [
    {
      "BackupId": "string",
      "CreationTime": number,
      "FailureDetails": {
        "Message": "string"
      },
      "FileSystem": {
        "CreationTime": number,
        "DNSName": "string",
        "FailureDetails": {
          "Message": "string"
        },
        "FileSystemId": "string",
        "FileSystemType": "string",
        "KmsKeyId": "string",
        "Lifecycle": "string",
        "LustreConfiguration": {
          "DataRepositoryConfiguration": {
            "ExportPath": "string",
            "ImportedFileChunkSize": number,
            "ImportPath": "string"
          },
          "WeeklyMaintenanceStartTime": "string"
        }
      }
    }
  ]
}
```

```

    },
    "NetworkInterfaceIds": [ "string" ],
    "OwnerId": "string",
    "ResourceARN": "string",
    "StorageCapacity": number,
    "SubnetIds": [ "string" ],
    "Tags": [
      {
        "Key": "string",
        "Value": "string"
      }
    ],
    "VpcId": "string",
    "WindowsConfiguration": {
      "ActiveDirectoryId": "string",
      "AutomaticBackupRetentionDays": number,
      "CopyTagsToBackups": boolean,
      "DailyAutomaticBackupStartTime": "string",
      "MaintenanceOperationsInProgress": [ "string" ],
      "ThroughputCapacity": number,
      "WeeklyMaintenanceStartTime": "string"
    }
  },
  "KmsKeyId": "string",
  "Lifecycle": "string",
  "ProgressPercent": number,
  "ResourceARN": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "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.

Backups (p. 26)

Any array of backups.

Type: Array of [Backup \(p. 44\)](#) objects

Array Members: Maximum number of 50 items.

NextToken (p. 26)

This is present if there are more backups than returned in the response (String). You can use the `NextToken` value in the later request to fetch the backups.

Type: String

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

Pattern: `^(?:[A-Za-z0-9+\/]{4})*(?:[A-Za-z0-9+\/]{2}==|[A-Za-z0-9+\/]{3}=)?$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 68\)](#).

BackupNotFound

No Amazon FSx backups were found based upon the supplied parameters.

HTTP Status Code: 400

BadRequest

A generic error indicating a failure with a client request.

HTTP Status Code: 400

FileSystemNotFound

No Amazon FSx file systems were found based upon supplied parameters.

HTTP Status Code: 400

InternalServerError

A generic error indicating a server-side failure.

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DescribeFileSystems

Returns the description of specific Amazon FSx file systems, if a `FileSystemIds` value is provided for that file system. Otherwise, it returns descriptions of all file systems owned by your AWS account in the AWS Region of the endpoint that you're calling.

When retrieving all file system descriptions, you can optionally specify the `MaxResults` parameter to limit the number of descriptions in a response. If more file system descriptions remain, Amazon FSx returns a `NextToken` value in the response. In this case, send a later request with the `NextToken` request parameter set to the value of `NextToken` from the last response.

This action is used in an iterative process to retrieve a list of your file system descriptions. `DescribeFileSystems` is called first without a `NextToken` value. Then the action continues to be called with the `NextToken` parameter set to the value of the last `NextToken` value until a response has no `NextToken`.

When using this action, keep the following in mind:

- The implementation might return fewer than `MaxResults` file system descriptions while still including a `NextToken` value.
- The order of file systems returned in the response of one `DescribeFileSystems` call and the order of file systems returned across the responses of a multical iteration is unspecified.

Request Syntax

```
{
  "FileSystemIds": [ "string" ],
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 66\)](#).

The request accepts the following data in JSON format.

[FileSystemIds \(p. 29\)](#)

(Optional) IDs of the file systems whose descriptions you want to retrieve (String).

Type: Array of strings

Array Members: Maximum number of 50 items.

Length Constraints: Minimum length of 11. Maximum length of 21.

Pattern: `^(fs-[0-9a-f]{8,})$`

Required: No

[MaxResults \(p. 29\)](#)

(Optional) Maximum number of file systems to return in the response (integer). This parameter value must be greater than 0. The number of items that Amazon FSx returns is the minimum of the

MaxResults parameter specified in the request and the service's internal maximum number of items per page.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

NextToken (p. 29)

(Optional) Opaque pagination token returned from a previous DescribeFileSystems operation (String). If a token present, the action continues the list from where the returning call left off.

Type: String

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

Pattern: ^(?:[A-Za-z0-9+\-\/]{4})*(?:[A-Za-z0-9+\-\/]{2}==|[A-Za-z0-9+\-\/]{3}=)?\$

Required: No

Response Syntax

```
{
  "FileSystems": [
    {
      "CreationTime": number,
      "DNSName": "string",
      "FailureDetails": {
        "Message": "string"
      },
      "FileSystemId": "string",
      "FileSystemType": "string",
      "KmsKeyId": "string",
      "Lifecycle": "string",
      "LustreConfiguration": {
        "DataRepositoryConfiguration": {
          "ExportPath": "string",
          "ImportedFileChunkSize": number,
          "ImportPath": "string"
        },
        "WeeklyMaintenanceStartTime": "string"
      },
      "NetworkInterfaceIds": [ "string" ],
      "OwnerId": "string",
      "ResourceARN": "string",
      "StorageCapacity": number,
      "SubnetIds": [ "string" ],
      "Tags": [
        {
          "Key": "string",
          "Value": "string"
        }
      ],
      "VpcId": "string",
      "WindowsConfiguration": {
        "ActiveDirectoryId": "string",
        "AutomaticBackupRetentionDays": number,
        "CopyTagsToBackups": boolean,
        "DailyAutomaticBackupStartTime": "string",
        "MaintenanceOperationsInProgress": [ "string" ],
        "ThroughputCapacity": number,

```

```
        "WeeklyMaintenanceStartTime": "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.

FileSystems (p. 30)

An array of file system descriptions.

Type: Array of [FileSystem \(p. 54\)](#) objects

Array Members: Maximum number of 50 items.

NextToken (p. 30)

Present if there are more file systems than returned in the response (String). You can use the `NextToken` value in the later request to fetch the descriptions.

Type: String

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

Pattern: `^(?:[A-Za-z0-9+\-\/]{4})*(?:[A-Za-z0-9+\-\/]{2}==|[A-Za-z0-9+\-\/]{3}=)?$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 68\)](#).

BadRequest

A generic error indicating a failure with a client request.

HTTP Status Code: 400

FileSystemNotFound

No Amazon FSx file systems were found based upon supplied parameters.

HTTP Status Code: 400

InternalServerError

A generic error indicating a server-side failure.

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

ListTagsForResource

Lists tags for an Amazon FSx file systems and backups in the case of Amazon FSx for Windows File Server.

When retrieving all tags, you can optionally specify the `MaxResults` parameter to limit the number of tags in a response. If more tags remain, Amazon FSx returns a `NextToken` value in the response. In this case, send a later request with the `NextToken` request parameter set to the value of `NextToken` from the last response.

This action is used in an iterative process to retrieve a list of your tags. `ListTagsForResource` is called first without a `NextToken` value. Then the action continues to be called with the `NextToken` parameter set to the value of the last `NextToken` value until a response has no `NextToken`.

When using this action, keep the following in mind:

- The implementation might return fewer than `MaxResults` file system descriptions while still including a `NextToken` value.
- The order of tags returned in the response of one `ListTagsForResource` call and the order of tags returned across the responses of a multi-call iteration is unspecified.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 66\)](#).

The request accepts the following data in JSON format.

MaxResults (p. 33)

(Optional) Maximum number of tags to return in the response (integer). This parameter value must be greater than 0. The number of items that Amazon FSx returns is the minimum of the `MaxResults` parameter specified in the request and the service's internal maximum number of items per page.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

NextToken (p. 33)

(Optional) Opaque pagination token returned from a previous `ListTagsForResource` operation (String). If a token present, the action continues the list from where the returning call left off.

Type: String

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

Pattern: `^(?:[A-Za-z0-9+\-\/]{4})*(?:[A-Za-z0-9+\-\/]{2}==|[A-Za-z0-9+\-\/]{3}=)?$`

Required: No

ResourceARN (p. 33)

The ARN of the Amazon FSx resource that will have its tags listed.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 512.

Pattern: `^arn:aws[a-z-]{0,7}:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9_/.-]{0,127}$`

Required: Yes

Response Syntax

```
{
  "NextToken": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "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.

NextToken (p. 34)

This is present if there are more tags than returned in the response (String). You can use the `NextToken` value in the later request to fetch the tags.

Type: String

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

Pattern: `^(?:[A-Za-z0-9+\-\/]{4})*(?:[A-Za-z0-9+\-\/]{2}==|[A-Za-z0-9+\-\/]{3}=)?$`

Tags (p. 34)

A list of tags on the resource.

Type: Array of [Tag \(p. 61\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 68\)](#).

BadRequest

A generic error indicating a failure with a client request.

HTTP Status Code: 400

InternalServerError

A generic error indicating a server-side failure.

HTTP Status Code: 500

NotServiceResourceError

The resource specified for the tagging operation is not a resource type owned by Amazon FSx. Use the API of the relevant service to perform the operation.

HTTP Status Code: 400

ResourceDoesNotSupportTagging

The resource specified does not support tagging.

HTTP Status Code: 400

ResourceNotFound

The resource specified by the Amazon Resource Name (ARN) can't be found.

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

TagResource

Tags an Amazon FSx resource.

Request Syntax

```
{
  "ResourceARN": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 66\)](#).

The request accepts the following data in JSON format.

ResourceARN (p. 36)

The Amazon Resource Name (ARN) of the Amazon FSx resource that you want to tag.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 512.

Pattern: `^arn:aws[a-z-]{0,7}:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9_/.-]{0,127}$`

Required: Yes

Tags (p. 36)

A list of tags for the resource. If a tag with a given key already exists, the value is replaced by the one specified in this parameter.

Type: Array of [Tag \(p. 61\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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 \(p. 68\)](#).

BadRequest

A generic error indicating a failure with a client request.

HTTP Status Code: 400

InternalServerError

A generic error indicating a server-side failure.

HTTP Status Code: 500

NotServiceResourceError

The resource specified for the tagging operation is not a resource type owned by Amazon FSx. Use the API of the relevant service to perform the operation.

HTTP Status Code: 400

ResourceDoesNotSupportTagging

The resource specified does not support tagging.

HTTP Status Code: 400

ResourceNotFound

The resource specified by the Amazon Resource Name (ARN) can't be found.

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

UntagResource

This action removes a tag from an Amazon FSx resource.

Request Syntax

```
{  
  "ResourceARN": "string",  
  "TagKeys": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 66).

The request accepts the following data in JSON format.

ResourceARN (p. 38)

The ARN of the Amazon FSx resource to untag.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 512.

Pattern: `^arn:aws[a-z-]{0,7}:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9_/.-]{0,127}$`

Required: Yes

TagKeys (p. 38)

A list of keys of tags on the resource to untag. In case the tag key doesn't exist, the call will still succeed to be idempotent.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

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. 68).

BadRequest

A generic error indicating a failure with a client request.

HTTP Status Code: 400

InternalServerError

A generic error indicating a server-side failure.

HTTP Status Code: 500

NotServiceResourceError

The resource specified for the tagging operation is not a resource type owned by Amazon FSx. Use the API of the relevant service to perform the operation.

HTTP Status Code: 400

ResourceDoesNotSupportTagging

The resource specified does not support tagging.

HTTP Status Code: 400

ResourceNotFound

The resource specified by the Amazon Resource Name (ARN) can't be found.

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

UpdateFileSystem

Updates a file system configuration.

Request Syntax

```
{
  "ClientRequestToken": "string",
  "FileSystemId": "string",
  "LustreConfiguration": {
    "WeeklyMaintenanceStartTime": "string"
  },
  "WindowsConfiguration": {
    "AutomaticBackupRetentionDays": number,
    "DailyAutomaticBackupStartTime": "string",
    "WeeklyMaintenanceStartTime": "string"
  }
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 66).

The request accepts the following data in JSON format.

ClientRequestToken (p. 40)

(Optional) A string of up to 64 ASCII characters that Amazon FSx uses to ensure idempotent updates. This string is automatically filled on your behalf when you use the AWS Command Line Interface (AWS CLI) or an AWS SDK.

Type: String

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

Pattern: `[A-Za-z0-9_/.-]{0,255}`\$

Required: No

FileSystemId (p. 40)

The globally unique ID of the file system, assigned by Amazon FSx.

Type: String

Length Constraints: Minimum length of 11. Maximum length of 21.

Pattern: `^(fs-[0-9a-f]{8,})$`

Required: Yes

LustreConfiguration (p. 40)

The configuration object for Amazon FSx for Lustre file systems used in the `UpdateFileSystem` operation.

Type: [UpdateFileSystemLustreConfiguration](#) (p. 62) object

Required: No

WindowsConfiguration (p. 40)

The configuration for this Microsoft Windows file system. The only supported options are for backup and maintenance.

Type: [UpdateFileSystemWindowsConfiguration \(p. 63\)](#) object

Required: No

Response Syntax

```
{
  "FileSystem": {
    "CreationTime": number,
    "DNSName": "string",
    "FailureDetails": {
      "Message": "string"
    },
    "FileSystemId": "string",
    "FileSystemType": "string",
    "KmsKeyId": "string",
    "Lifecycle": "string",
    "LustreConfiguration": {
      "DataRepositoryConfiguration": {
        "ExportPath": "string",
        "ImportedFileChunkSize": number,
        "ImportPath": "string"
      },
      "WeeklyMaintenanceStartTime": "string"
    },
    "NetworkInterfaceIds": [ "string" ],
    "OwnerId": "string",
    "ResourceARN": "string",
    "StorageCapacity": number,
    "SubnetIds": [ "string" ],
    "Tags": [
      {
        "Key": "string",
        "Value": "string"
      }
    ],
    "VpcId": "string",
    "WindowsConfiguration": {
      "ActiveDirectoryId": "string",
      "AutomaticBackupRetentionDays": number,
      "CopyTagsToBackups": boolean,
      "DailyAutomaticBackupStartTime": "string",
      "MaintenanceOperationsInProgress": [ "string" ],
      "ThroughputCapacity": number,
      "WeeklyMaintenanceStartTime": "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.

[FileSystem \(p. 41\)](#)

A description of the file system.

Type: [FileSystem \(p. 54\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 68\)](#).

BadRequest

A generic error indicating a failure with a client request.

HTTP Status Code: 400

FileSystemNotFound

No Amazon FSx file systems were found based upon supplied parameters.

HTTP Status Code: 400

IncompatibleParameterError

The error returned when a second request is received with the same client request token but different parameters settings. A client request token should always uniquely identify a single request.

HTTP Status Code: 400

InternalServerError

A generic error indicating a server-side failure.

HTTP Status Code: 500

MissingFileSystemConfiguration

File system configuration is required for this operation.

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 Go - Pilot](#)
- [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 Amazon FSx API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [Backup](#) (p. 44)
- [BackupFailureDetails](#) (p. 46)
- [CreateFileSystemLustreConfiguration](#) (p. 47)
- [CreateFileSystemWindowsConfiguration](#) (p. 49)
- [DataRepositoryConfiguration](#) (p. 51)
- [DeleteFileSystemWindowsConfiguration](#) (p. 52)
- [DeleteFileSystemWindowsResponse](#) (p. 53)
- [FileSystem](#) (p. 54)
- [FileSystemFailureDetails](#) (p. 58)
- [Filter](#) (p. 59)
- [LustreFileSystemConfiguration](#) (p. 60)
- [Tag](#) (p. 61)
- [UpdateFileSystemLustreConfiguration](#) (p. 62)
- [UpdateFileSystemWindowsConfiguration](#) (p. 63)
- [WindowsFileSystemConfiguration](#) (p. 64)

Backup

A backup of an Amazon FSx for Windows File Server file system. You can create a new file system from a backup to protect against data loss.

Contents

BackupId

The ID of the backup.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 128.

Pattern: `^(backup-[0-9a-f]{8,})$`

Required: Yes

CreationTime

The time when a particular backup was created.

Type: Timestamp

Required: Yes

FailureDetails

Details explaining any failures that occur when creating a backup.

Type: [BackupFailureDetails \(p. 46\)](#) object

Required: No

FileSystem

Metadata of the file system associated with the backup. This metadata is persisted even if the file system is deleted.

Type: [FileSystem \(p. 54\)](#) object

Required: Yes

KmsKeyId

The ID of the AWS Key Management Service (AWS KMS) key used to encrypt this backup's data.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-4[a-fA-F0-9]{3}-[89aAbB][a-fA-F0-9]{3}-[a-fA-F0-9]{12}|arn:aws[a-z-]{0,7}:kms:[a-z]{2}-[a-z-]{4,}-\d+:\d{12}:(key|alias)\|([a-fA-F0-9]{8}-[a-fA-F0-9]{4}-4[a-fA-F0-9]{3}-[89aAbB][a-fA-F0-9]{3}-[a-fA-F0-9]{12})|([a-zA-Z0-9:\/_-]+)|alias\|([a-zA-Z0-9:\/_-]+)$`

Required: No

Lifecycle

The lifecycle status of the backup.

Type: String

Valid Values: AVAILABLE | CREATING | DELETED | FAILED

Required: Yes

ProgressPercent

The current percent of progress of an asynchronous task.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

ResourceARN

The Amazon Resource Name (ARN) for the backup resource.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 512.

Pattern: `^arn:aws[a-z-]{0,7}:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9_/.-]{0,127}$`

Required: No

Tags

Tags associated with a particular file system.

Type: Array of [Tag \(p. 61\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: No

Type

The type of the backup.

Type: String

Valid Values: AUTOMATIC | USER_INITIATED

Required: Yes

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

BackupFailureDetails

If backup creation fails, this structure contains the details of that failure.

Contents

Message

A message describing the backup creation failure.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

CreateFileSystemLustreConfiguration

The configuration object for Lustre file systems used in the `CreateFileSystem` operation.

Contents

ExportPath

(Optional) The path in Amazon S3 where the root of your Amazon FSx file system is exported. The path must use the same Amazon S3 bucket as specified in `ImportPath`. You can provide an optional prefix to which new and changed data is to be exported from your Amazon FSx for Lustre file system. If an `ExportPath` value is not provided, Amazon FSx sets a default export path, `s3://import-bucket/FSxLustre[creation-timestamp]`. The timestamp is in UTC format, for example `s3://import-bucket/FSxLustre20181105T222312Z`.

The Amazon S3 export bucket must be the same as the import bucket specified by `ImportPath`. If you only specify a bucket name, such as `s3://import-bucket`, you get a 1:1 mapping of file system objects to S3 bucket objects. This mapping means that the input data in S3 is overwritten on export. If you provide a custom prefix in the export path, such as `s3://import-bucket/[custom-optional-prefix]`, Amazon FSx exports the contents of your file system to that export prefix in the Amazon S3 bucket.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 900.

Required: No

ImportedFileChunkSize

(Optional) For files imported from a data repository, this value determines the stripe count and maximum amount of data per file (in MiB) stored on a single physical disk. The maximum number of disks that a single file can be striped across is limited by the total number of disks that make up the file system.

The chunk size default is 1,024 MiB (1 GiB) and can go as high as 512,000 MiB (500 GiB). Amazon S3 objects have a maximum size of 5 TB.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 512000.

Required: No

ImportPath

(Optional) The path to the Amazon S3 bucket (including the optional prefix) that you're using as the data repository for your Amazon FSx for Lustre file system. The root of your FSx for Lustre file system will be mapped to the root of the Amazon S3 bucket you select. An example is `s3://import-bucket/optional-prefix`. If you specify a prefix after the Amazon S3 bucket name, only object keys with that prefix are loaded into the file system.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 900.

Required: No

WeeklyMaintenanceStartTime

The preferred time to perform weekly maintenance, in the UTC time zone.

Type: String

Length Constraints: Fixed length of 7.

Pattern: `^[1-7]:([01]\d|2[0-3]):?([0-5]\d)$`

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

CreateFileSystemWindowsConfiguration

The configuration object for the Microsoft Windows file system used in `CreateFileSystem` and `CreateFileSystemFromBackup` operations.

Contents

ActiveDirectoryId

The ID for an existing Microsoft Active Directory instance that the file system should join when it's created.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^d-[0-9a-f]{10}$`

Required: No

AutomaticBackupRetentionDays

The number of days to retain automatic backups. The default is to retain backups for 7 days. Setting this value to 0 disables the creation of automatic backups. The maximum retention period for backups is 35 days.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 35.

Required: No

CopyTagsToBackups

A boolean flag indicating whether tags on the file system should be copied to backups. This value defaults to false. If it's set to true, all tags on the file system are copied to all automatic backups and any user-initiated backups where the user doesn't specify any tags. If this value is true, and you specify one or more tags, only the specified tags are copied to backups.

Type: Boolean

Required: No

DailyAutomaticBackupStartTime

The preferred time to take daily automatic backups, in the UTC time zone.

Type: String

Length Constraints: Fixed length of 5.

Pattern: `^([01]\d|2[0-3]):?([0-5]\d)$`

Required: No

ThroughputCapacity

The throughput of an Amazon FSx file system, measured in megabytes per second.

Type: Integer

Valid Range: Minimum value of 8. Maximum value of 2048.

Required: Yes

WeeklyMaintenanceStartTime

The preferred start time to perform weekly maintenance, in the UTC time zone.

Type: String

Length Constraints: Fixed length of 7.

Pattern: `^[1-7]:([01]\d|2[0-3]):?([0-5]\d)$`

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DataRepositoryConfiguration

The data repository configuration object for Lustre file systems returned in the response of the `CreateFileSystem` operation.

Contents

ExportPath

The export path to the Amazon S3 bucket (and prefix) that you are using to store new and changed Lustre file system files in S3.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 900.

Required: No

ImportedFileChunkSize

For files imported from a data repository, this value determines the stripe count and maximum amount of data per file (in MiB) stored on a single physical disk. The maximum number of disks that a single file can be striped across is limited by the total number of disks that make up the file system.

The default chunk size is 1,024 MiB (1 GiB) and can go as high as 512,000 MiB (500 GiB). Amazon S3 objects have a maximum size of 5 TB.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 512000.

Required: No

ImportPath

The import path to the Amazon S3 bucket (and optional prefix) that you're using as the data repository for your FSx for Lustre file system, for example `s3://import-bucket/optional-prefix`. If a prefix is specified after the Amazon S3 bucket name, only object keys with that prefix are loaded into the file system.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 900.

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DeleteFileSystemWindowsConfiguration

The configuration object for the Microsoft Windows file system used in the `DeleteFileSystem` operation.

Contents

FinalBackupTags

A set of tags for your final backup.

Type: Array of [Tag \(p. 61\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: No

SkipFinalBackup

By default, Amazon FSx for Windows takes a final backup on your behalf when the `DeleteFileSystem` operation is invoked. Doing this helps protect you from data loss, and we highly recommend taking the final backup. If you want to skip this backup, use this flag to do so.

Type: Boolean

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DeleteFileSystemWindowsResponse

The response object for the Microsoft Windows file system used in the `DeleteFileSystem` operation.

Contents

FinalBackupId

The ID of the final backup for this file system.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 128.

Pattern: `^(backup-[0-9a-f]{8,})$`

Required: No

FinalBackupTags

The set of tags applied to the final backup.

Type: Array of [Tag \(p. 61\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

FileSystem

A description of a specific Amazon FSx file system.

Contents

CreationTime

The time that the file system was created, in seconds (since 1970-01-01T00:00:00Z), also known as Unix time.

Type: Timestamp

Required: No

DNSName

The DNS name for the file system.

Type: String

Length Constraints: Minimum length of 16. Maximum length of 275.

Pattern: `^(fsi?-[0-9a-f]{8,})\.\.{4,253}$`

Required: No

FailureDetails

Structure providing details of any failures that occur when creating the file system has failed.

Type: [FileSystemFailureDetails \(p. 58\)](#) object

Required: No

FileSystemId

The eight-digit ID of the file system that was automatically assigned by Amazon FSx.

Type: String

Length Constraints: Minimum length of 11. Maximum length of 21.

Pattern: `^(fs-[0-9a-f]{8,})$`

Required: No

FileSystemType

Type of file system. Currently the only supported type is WINDOWS.

Type: String

Valid Values: `WINDOWS` | `LUSTRE`

Required: No

KmsKeyId

The ID of the AWS Key Management Service (AWS KMS) key used to encrypt the file system's data for an Amazon FSx for Windows File Server file system.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-4[a-fA-F0-9]{3}-[89aAbB][a-fA-F0-9]{3}-[a-fA-F0-9]{12}|arn:aws[a-z-]{0,7}:kms:[a-z]{2}-[a-z-]{4,}-\d+:\d{12}:(key|alias)\|([a-fA-F0-9]{8}-[a-fA-F0-9]{4}-4[a-fA-F0-9]{3}-[89aAbB][a-fA-F0-9]{3}-[a-fA-F0-9]{12}|[a-zA-Z0-9:\/_-]+)|alias\|([a-zA-Z0-9:\/_-]+)$`

Required: No

Lifecycle

The lifecycle status of the file system.

Type: String

Valid Values: `AVAILABLE | CREATING | FAILED | DELETING`

Required: No

LustreConfiguration

The configuration for the Amazon FSx for Lustre file system.

Type: [LustreFileSystemConfiguration \(p. 60\)](#) object

Required: No

NetworkInterfaceIds

The IDs of the elastic network interface from which a specific file system is accessible. The elastic network interface is automatically created in the same VPC that the Amazon FSx file system was created in. For more information, see [Elastic Network Interfaces](#) in the *Amazon EC2 User Guide*.

For an Amazon FSx for Windows File Server file system, you can have one network interface Id. For an Amazon FSx for Lustre file system, you can have more than one.

Type: Array of strings

Array Members: Maximum number of 50 items.

Length Constraints: Minimum length of 12. Maximum length of 21.

Pattern: `^(eni-[0-9a-f]{8,})$`

Required: No

OwnerId

The AWS account that created the file system. If the file system was created by an IAM user, the AWS account to which the IAM user belongs is the owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

ResourceARN

The resource ARN of the file system.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 512.

Pattern: `^arn:aws[a-z-]{0,7}:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9_/.-]{0,127}$`

Required: No

StorageCapacity

The storage capacity of the file system in gigabytes.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

SubnetIds

The IDs of the subnets to contain the endpoint for the file system. One and only one is supported. The file system is launched in the Availability Zone associated with this subnet.

Type: Array of strings

Array Members: Maximum number of 50 items.

Length Constraints: Minimum length of 15. Maximum length of 24.

Pattern: `^(subnet-[0-9a-f]{8,})$`

Required: No

Tags

The tags to associate with the file system. For more information, see [Tagging Your Amazon EC2 Resources](#) in the *Amazon EC2 User Guide*.

Type: Array of [Tag \(p. 61\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: No

VpcId

The ID of the primary VPC for the file system.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 21.

Pattern: `^(vpc-[0-9a-f]{8,})$`

Required: No

WindowsConfiguration

The configuration for this Microsoft Windows file system.

Type: [WindowsFileSystemConfiguration \(p. 64\)](#) object

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

FileSystemFailureDetails

Structure providing details of any failures that occur when creating the file system has failed.

Contents

Message

Message describing the failures that occurred during file system creation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Filter

A filter used to restrict the results of describe calls. You can use multiple filters to return results that meet all applied filter requirements.

Contents

Name

The name for this filter.

Type: String

Valid Values: `file-system-id` | `backup-type`

Required: No

Values

The values of the filter. These are all the values for any of the applied filters.

Type: Array of strings

Array Members: Maximum number of 20 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[0-9a-zA-Z*\.\ \\/\?\-_\]*$`

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

LustreFileSystemConfiguration

The configuration for the Amazon FSx for Lustre file system.

Contents

DataRepositoryConfiguration

The data repository configuration object for Lustre file systems returned in the response of the `CreateFileSystem` operation.

Type: [DataRepositoryConfiguration \(p. 51\)](#) object

Required: No

WeeklyMaintenanceStartTime

The UTC time that you want to begin your weekly maintenance window.

Type: String

Length Constraints: Fixed length of 7.

Pattern: `^[1-7]:([01]\d|2[0-3]):?([0-5]\d)$`

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Tag

Specifies a key-value pair for a resource tag.

Contents

Key

A value that specifies the `TagKey`, the name of the tag. Tag keys must be unique for the resource to which they are attached.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

Value

A value that specifies the `TagValue`, the value assigned to the corresponding tag key. Tag values can be null and don't have to be unique in a tag set. For example, you can have a key-value pair in a tag set of `finances : April` and also of `payroll : April`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

UpdateFileSystemLustreConfiguration

The configuration object for Amazon FSx for Lustre file systems used in the `UpdateFileSystem` operation.

Contents

WeeklyMaintenanceStartTime

The preferred time to perform weekly maintenance, in the UTC time zone.

Type: String

Length Constraints: Fixed length of 7.

Pattern: `^[1-7]:([01]\d|2[0-3]):?([0-5]\d)$`

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

UpdateFileSystemWindowsConfiguration

The configuration object for the Microsoft Windows file system used in the `UpdateFileSystem` operation.

Contents

AutomaticBackupRetentionDays

The number of days to retain automatic backups. Setting this to 0 disables automatic backups. You can retain automatic backups for a maximum of 35 days.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 35.

Required: No

DailyAutomaticBackupStartTime

The preferred time to take daily automatic backups, in the UTC time zone.

Type: String

Length Constraints: Fixed length of 5.

Pattern: `^([01]\d|2[0-3]):?([0-5]\d)$`

Required: No

WeeklyMaintenanceStartTime

The preferred time to perform weekly maintenance, in the UTC time zone.

Type: String

Length Constraints: Fixed length of 7.

Pattern: `^[1-7]:([01]\d|2[0-3]):?([0-5]\d)$`

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 Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

WindowsFileSystemConfiguration

The configuration for this Microsoft Windows file system.

Contents

ActiveDirectoryId

The ID for an existing Microsoft Active Directory instance that the file system should join when it's created.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^d-[0-9a-f]{10}$`

Required: No

AutomaticBackupRetentionDays

The number of days to retain automatic backups. Setting this to 0 disables automatic backups. You can retain automatic backups for a maximum of 35 days.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 35.

Required: No

CopyTagsToBackups

A boolean flag indicating whether tags on the file system should be copied to backups. This value defaults to false. If it's set to true, all tags on the file system are copied to all automatic backups and any user-initiated backups where the user doesn't specify any tags. If this value is true, and you specify one or more tags, only the specified tags are copied to backups.

Type: Boolean

Required: No

DailyAutomaticBackupStartTime

The preferred time to take daily automatic backups, in the UTC time zone.

Type: String

Length Constraints: Fixed length of 5.

Pattern: `^([01]\d|2[0-3]):?([0-5]\d)$`

Required: No

MaintenanceOperationsInProgress

The list of maintenance operations in progress for this file system.

Type: Array of strings

Array Members: Maximum number of 20 items.

Valid Values: `PATCHING` | `BACKING_UP`

Required: No

ThroughputCapacity

The throughput of an Amazon FSx file system, measured in megabytes per second.

Type: Integer

Valid Range: Minimum value of 8. Maximum value of 2048.

Required: No

WeeklyMaintenanceStartTime

The preferred time to perform weekly maintenance, in the UTC time zone.

Type: String

Length Constraints: Fixed length of 7.

Pattern: `^[1-7]:([01]\d|2[0-3]):?([0-5]\d)$`

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 Go - Pilot](#)
- [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'THHMMSS'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

not required. 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