



# **Sync data between a source and target**

## **BlueXP copy and sync**

NetApp  
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# Sync data between a source and target

## Prepare a data broker to sync data between object storage

If you're planning to sync data from object storage to object storage (for example, Amazon S3 to Azure Blob), then you need to prepare the data broker group before you create the sync relationship.


### About this task

To prepare the data broker group, you'll need to modify the configuration of the scanner. If you don't modify the configuration, you might notice performance issues for this sync relationship.

### Before you begin

The data broker group that you use to sync data from object storage to object storage should only manage these types of sync relationships. If the data broker group manages a different type of sync relationship (for example, NFS to NFS or object storage to SMB), then the performance of those sync relationships might be negatively affected.

### Steps

1. From BlueXP copy and sync, select **Manage Data Brokers**.
2. Select 
3. Update the scanner configuration:
  - a. Change **Scanner Concurrency** to 1.
  - b. Change **Scanner Processes Limit** to 1.
4. Select **Unify Configuration**.

### Result

BlueXP copy and sync updates the configuration of the data broker group.

### What's next?

You can now create the sync relationship between object storage using the data broker group that you just configured.

## Create sync relationships

When you create a sync relationship, the BlueXP copy and sync service copies files from the source to the target. After the initial copy, the service syncs any changed data every 24 hours.

Before you can create some types of sync relationships, you'll first need to create a working environment in BlueXP.

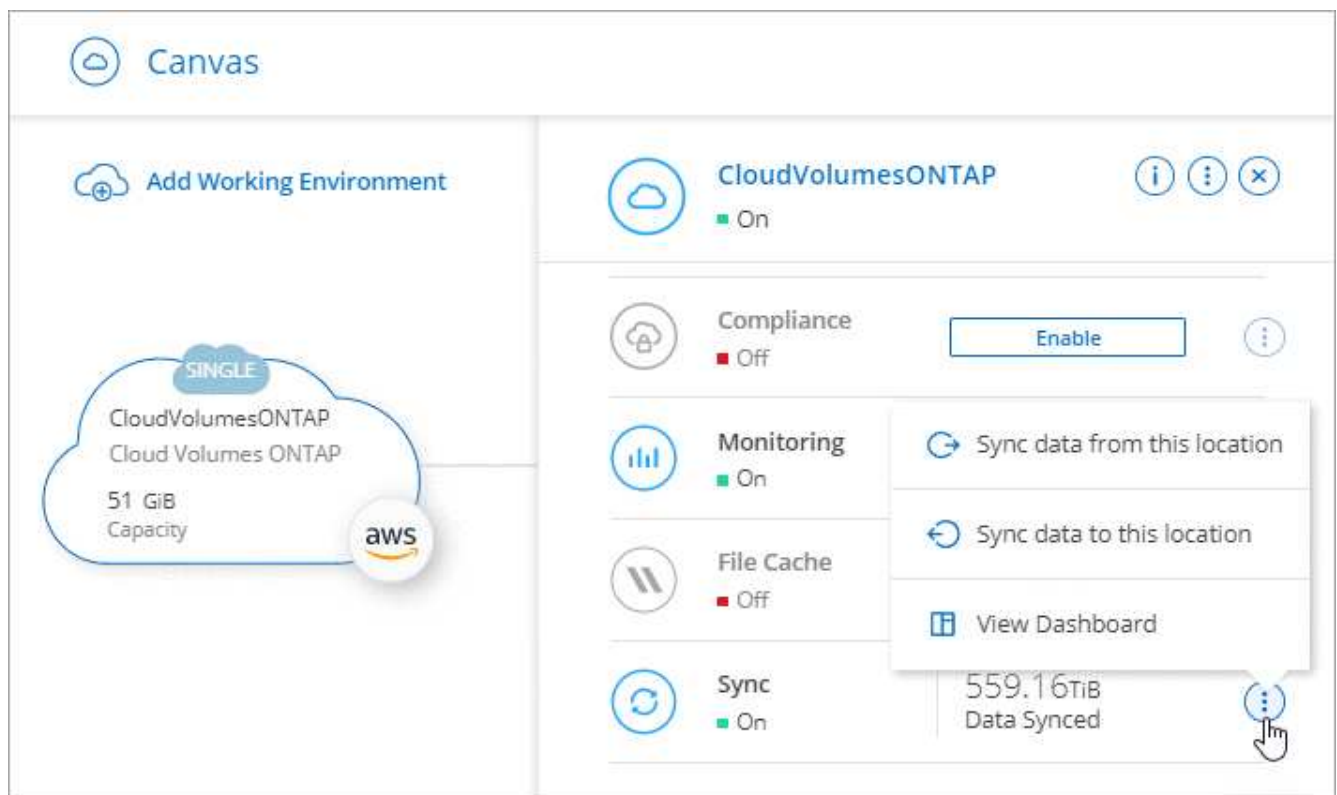
### Create sync relationships for specific types of working environments

If you want to create sync relationships for any of the following, then you first need to create or discover the working environment:

- Amazon FSx for ONTAP
- Azure NetApp Files
- Cloud Volumes ONTAP
- On-prem ONTAP clusters

## Steps

1. Create or discover the working environment.
  - [Create an Amazon FSx for ONTAP working environment](#)
  - [Setting up and discovering Azure NetApp Files](#)
  - [Launching Cloud Volumes ONTAP in AWS](#)
  - [Launching Cloud Volumes ONTAP in Azure](#)
  - [Launching Cloud Volumes ONTAP in Google Cloud](#)
  - [Adding existing Cloud Volumes ONTAP systems](#)
  - [Discovering ONTAP clusters](#)
2. Select **Canvas**.
3. Select a working environment that matches any of the types listed above.
4. Select the action menu next to Sync.



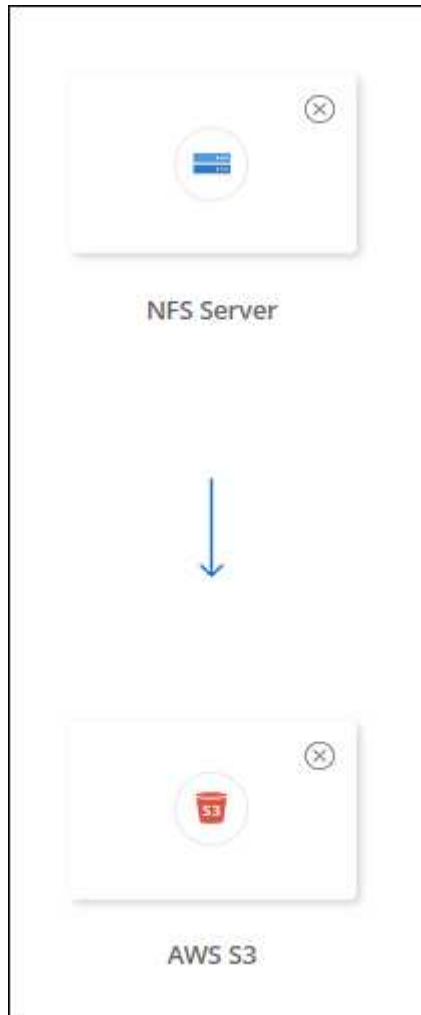
5. Select **Sync data from this location** or **Sync data to this location** and follow the prompts to set up the sync relationship.

## Create other types of sync relationships

Use these steps to sync data to or from a supported storage type other than Amazon FSx for ONTAP, Azure NetApp Files, Cloud Volumes ONTAP, or on-prem ONTAP clusters. The steps below provide an example that shows how to set up a sync relationship from an NFS server to an S3 bucket.

1. In BlueXP, select **Sync**.
2. On the **Define Sync Relationship** page, choose a source and target.

The following steps provide an example of how to create a sync relationship from an NFS server to an S3 bucket.



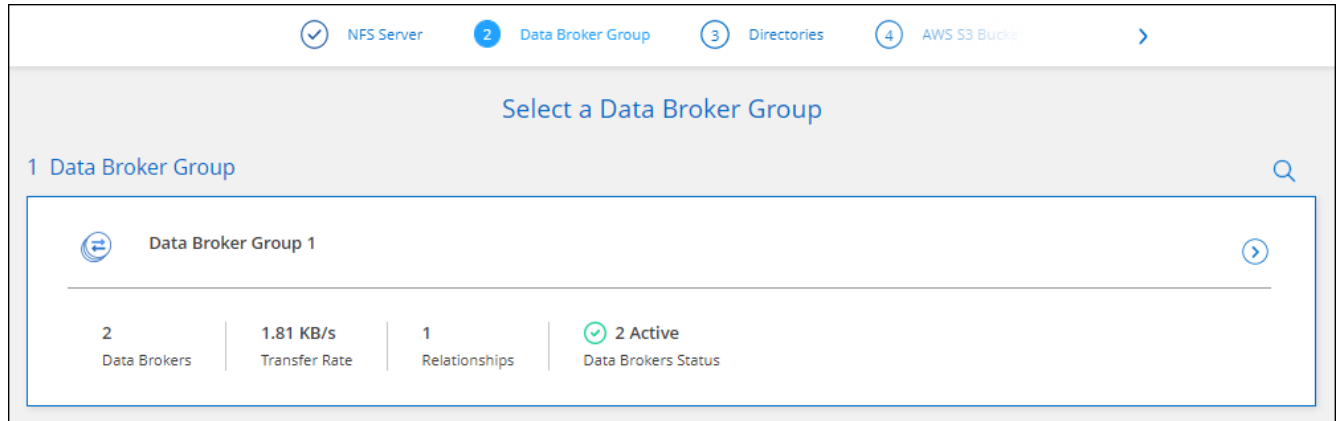
3. On the **NFS Server** page, enter the IP address or fully qualified domain name of the NFS server that you want to sync to AWS.
4. On the **Data Broker Group** page, follow the prompts to create a data broker virtual machine in AWS, Azure, or Google Cloud Platform, or to install the data broker software on an existing Linux host.

For more details, refer to the following pages:

- [Create a data broker in AWS](#)
- [Create a data broker in Azure](#)
- [Create a data broker in Google Cloud](#)

- Installing the data broker on a Linux host

5. After you install the data broker, select **Continue**.



6. On the **Directories** page, select a top-level directory or subdirectory.

If BlueXP copy and sync is unable to retrieve the exports, select **Add Export Manually** and enter the name of an NFS export.



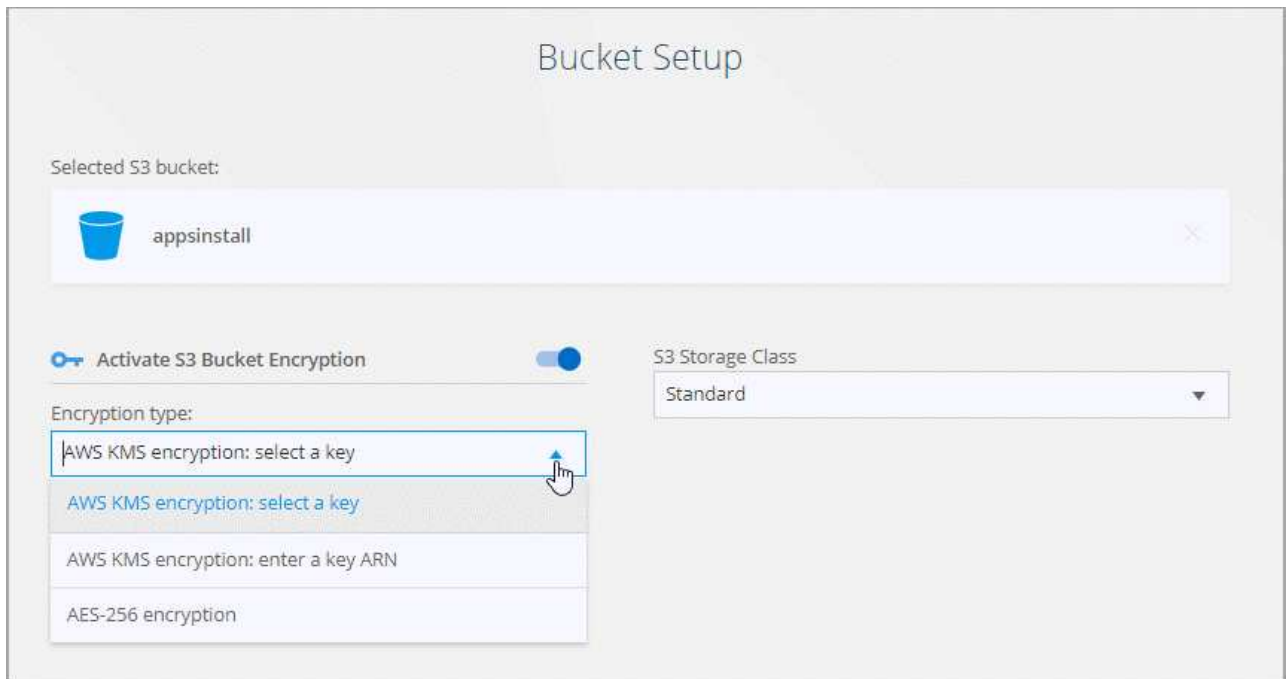
If you want to sync more than one directory on the NFS server, then you must create additional sync relationships after you are done.

7. On the **AWS S3 Bucket** page, select a bucket:

- Drill down to select an existing folder within the bucket or to select a new folder that you create inside the bucket.
- Select **Add to the list** to select an S3 bucket that is not associated with your AWS account. [Specific permissions must be applied to the S3 bucket.](#)

8. On the **Bucket Setup** page, set up the bucket:

- Choose whether to enable S3 bucket encryption and then select an AWS KMS key, enter the ARN of a KMS key, or select AES-256 encryption.
- Select an S3 storage class. [View the supported storage classes.](#)



9. On the **Settings** page, define how source files and folders are synced and maintained in the target location:

### Schedule

Choose a recurring schedule for future syncs or turn off the sync schedule. You can schedule a relationship to sync data as often as every 1 minute.

### Sync Timeout

Define whether BlueXP copy and sync should cancel a data sync if the sync hasn't completed in the specified number of minutes, hours, or days.

### Notifications

Enables you to choose whether to receive BlueXP copy and sync notifications in BlueXP's Notification Center. You can enable notifications for successful data syncs, failed data syncs, and canceled data syncs.

### Retries

Define the number of times that BlueXP copy and sync should retry to sync a file before skipping it.

### Continuous Sync

After the initial data sync, BlueXP copy and sync listens for changes on the source S3 bucket or Google Cloud Storage bucket and continuously syncs any changes to the target as they occur. There's no need to rescan the source at scheduled intervals.

This setting is available only when creating a sync relationship and when you sync data from an S3 bucket or Google Cloud Storage to Azure Blob storage, CIFS, Google Cloud Storage, IBM Cloud Object Storage, NFS, S3, and StorageGRID **or** from Azure Blob storage to Azure Blob storage, CIFS, Google Cloud Storage, IBM Cloud Object Storage, NFS, and StorageGRID.

If you enable this setting, it affects other features as follows:

- The sync schedule is disabled.

- The following settings are reverted to their default values: Sync Timeout, Recently Modified Files, and Date Modified.
- If S3 is the source, filter by size will be active only on copy events (not on delete events).
- After the relationship is created, you can only accelerate or delete the relationship. You can't abort syncs, modify settings, or view reports.

It is possible to create a Continuous Sync relationship with an external bucket. To do so, follow these steps:

- Go to the Google Cloud console for the external bucket's project.
- Go to **Cloud Storage > Settings > Cloud Storage Service Account**.
- Update the local.json file:

```
{
  "protocols": {
    "gcp": {
      "storage-account-email": <storage account email>
    }
  }
}
```

- Restart the data broker:
  - sudo pm2 stop all
  - sudo pm2 start all
- Create a Continuous Sync relationship with the relevant external bucket.



A data broker used to create a continuous sync relationship with an external bucket will not be able to create another Continuous Sync relationship with a bucket in its project.

### Compare By

Choose whether BlueXP copy and sync should compare certain attributes when determining whether a file or directory has changed and should be synced again.

Even if you uncheck these attributes, BlueXP copy and sync still compares the source to the target by checking the paths, file sizes, and file names. If there are any changes, then it syncs those files and directories.

You can choose to enable or disable BlueXP copy and sync from comparing the following attributes:

- **mtime**: The last modified time for a file. This attribute isn't valid for directories.
- **uid**, **gid**, and **mode**: Permission flags for Linux.

### Copy for Objects

Enable this option to copy object storage metadata and tags. If a user changes the metadata on the source, BlueXP copy and sync copies this object in the next sync, but if a user changes the tags on the source (and not the data itself), BlueXP copy and sync doesn't copy the object in the next sync.



You can't edit this option after you create the relationship.

Copying tags is supported with sync relationships that include Azure Blob or an S3-compatible endpoint (S3, StorageGRID, or IBM Cloud Object Storage) as the target.

Copying metadata is supported with "cloud-to-cloud" relationships between any of the following endpoints:

- AWS S3
- Azure Blob
- Google Cloud Storage
- IBM Cloud Object Storage
- StorageGRID

### Recently Modified Files

Choose to exclude files that were recently modified prior to the scheduled sync.

### Delete Files on Source

Choose to delete files from the source location after BlueXP copy and sync copies the files to the target location. This option includes the risk of data loss because the source files are deleted after they're copied.

If you enable this option, you also need to change a parameter in the local.json file on the data broker. Open the file and update it as follows:

```
{
  "workers": {
    "transferrer": {
      "delete-on-source": true
    }
  }
}
```

After updating the local.json file, you should do a restart: `pm2 restart all`.

### Delete Files on Target

Choose to delete files from the target location, if they were deleted from the source. The default is to never delete files from the target location.

### File Types

Define the file types to include in each sync: files, directories, symbolic links, and hard links.



Hard links are only available for unsecured NFS to NFS relationships. Users will be limited to one scanner process and one scanner concurrency, and scans must be run from a root directory.

### Exclude File Extensions

Specify the regex or file extensions to exclude from the sync by typing the file extension and pressing

**Enter.** For example, type `log` or `.log` to exclude `*.log` files. A separator isn't required for multiple extensions. The following video provides a short demo:

▶ [https://docs.netapp.com/us-en/bluexp-copy-sync//media/video\\_file\\_extensions.mp4](https://docs.netapp.com/us-en/bluexp-copy-sync//media/video_file_extensions.mp4) (video)



Regex, or regular expressions, differ from wildcards or glob expressions. This feature **only** works with regex.

### Exclude Directories

Specify a maximum of 15 regex or directories to exclude from the sync by typing their name or directory full path and pressing **Enter**. The `.copy-offload`, `.snapshot`, `~snapshot` directories are excluded by default.



Regex, or regular expressions, differ from wildcards or glob expressions. This feature **only** works with regex.

### File Size

Choose to sync all files regardless of their size or just files that are in a specific size range.

### Date Modified

Choose all files regardless of their last modified date, files modified after a specific date, before a specific date, or between a time range.

### Date Created

When an SMB server is the source, this setting enables you to sync files that were created after a specific date, before a specific date, or between a specific time range.

### ACL - Access Control List

Copy ACLs only, files only, or ACLs and files from an SMB server by enabling a setting when you create a relationship or after you create a relationship.

10. On the **Tags/Metadata** page, choose whether to save a key-value pair as a tag on all files transferred to the S3 bucket or to assign a metadata key-value pair on all files.

The screenshot shows the 'Relationship Tags' configuration page. At the top, there is a navigation bar with a back arrow, a checkmark, 'AWS S3 Bucket', another checkmark, 'Settings', a blue circle with '6', 'Tags/Metadata', a blue circle with '7', and 'Review'. The main heading is 'Relationship Tags'. Below it, a message states: 'Cloud Sync assigns the relationship tags to all of the files transferred to the S3 bucket. This enables you to search for the transferred files by using the tag values.' There are two radio buttons: 'Save on Object's Tags' (selected) and 'Save On Object's Metadata'. Below this, there are two input fields: 'Tag Key' with a placeholder 'Up to 128 characters' and 'Tag Value' with a placeholder 'Up to 256 characters'. At the bottom left, there is a '+ Add Relationship Tag' button. At the bottom right, there is a note 'Optional Field | [Up to 5]'.



This same feature is available when syncing data to StorageGRID and IBM Cloud Object Storage. For Azure and Google Cloud Storage, only the metadata option is available.

11. Review the details of the sync relationship and then select **Create Relationship**.

## Result

BlueXP copy and sync starts syncing data between the source and target. Sync statistics on how long the sync took, whether it halted, and how many files were copied, scanned, or deleted are available. You can then manage your [sync relationships](#), [manage your data brokers](#), or [create reports to optimize your performance and configuration](#).

## Create sync relationships from BlueXP classification

BlueXP copy and sync is integrated with BlueXP classification. From within BlueXP classification, you can select the source files that you'd like to sync to a target location using BlueXP copy and sync.

After you initiate a data sync from BlueXP classification, all of the source information is contained in a single step and only requires you to enter a few key details. You then choose the target location for the new sync relationship.

Sync Relationship

1 Data Sense Integration 2 Data Broker Group 3 NFS Server 4 Directory >

How does it work?

Selected Data Sense Source

Azure NetApp Files	/cifs1 Source	1.1.1.1 Host	cifs Working Environment	\1.1.1.1\cifs1 Volume
--------------------	------------------	-----------------	-----------------------------	--------------------------

A few more things before we continue

Define SMB Credentials:

User Name Password Domain (Optional)

[Learn how to start a sync relationship from BlueXP classification.](#)

## Copy ACLs from SMB shares

BlueXP copy and sync can copy access control lists (ACLs) between SMB shares and between an SMB share and object storage (except for ONTAP S3). If needed, you also have the option to manually preserve ACLs between SMB shares by using robocopy.

### Choices

- [Set up BlueXP copy and sync to automatically copy ACLs](#)
- [Manually copy the ACLs between SMB shares](#)

## Set up BlueXP copy and sync to copy ACLs

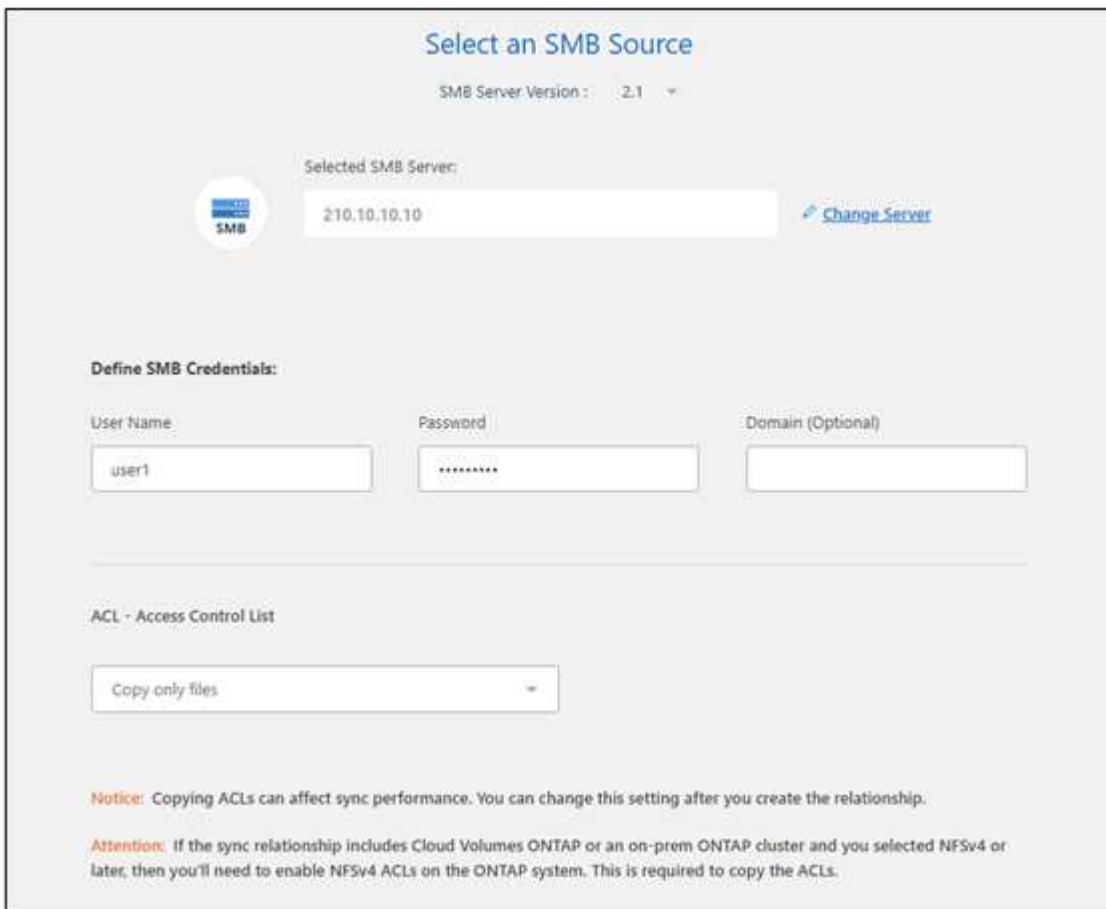
Copy ACLs between SMB shares and between SMB shares and object storage by enabling a setting when you create a relationship or after you create a relationship.

## Before you begin

This feature works with *any* type of data broker: the AWS, Azure, Google Cloud Platform, or on-prem data broker. The on-prem data broker can run [any supported operating system](#).

## Steps for a new relationship

1. From BlueXP copy and sync, select **Create New Sync**.
2. Drag and drop an SMB server or object storage as the source and an SMB server or object storage as the target, and select **Continue**.
3. On the **SMB Server** page:
  - a. Enter a new SMB server or select an existing server and select **Continue**.
  - b. Enter credentials for the SMB server.
  - c. Choose to either **Copy only files**, **Copy only ACL**, or **Copy files and ACL** and select **Continue**.



Select an SMB Source

SMB Server Version : 2.1

Selected SMB Server:

210.10.10.10 [Change Server](#)

Define SMB Credentials:

User Name: user1 Password: Password Domain (Optional):

ACL - Access Control List

Copy only files

**Notice:** Copying ACLs can affect sync performance. You can change this setting after you create the relationship.

**Attention:** If the sync relationship includes Cloud Volumes ONTAP or an on-prem ONTAP cluster and you selected NFSv4 or later, then you'll need to enable NFSv4 ACLs on the ONTAP system. This is required to copy the ACLs.

4. Follow the remaining prompts to create the sync relationship.

When you copy ACLs from SMB to object storage, you can choose to copy the ACLs to the object's tags or on the object's metadata, depending on the target. For Azure and Google Cloud Storage, only the metadata option is available.

The following screenshot shows an example of the step where you can make this choice.

### Steps for an existing relationship

1. Hover over the sync relationship and select the action menu.
2. Select **Settings**.
3. Choose to either **Copy only files**, **Copy only ACL**, or **Copy files and ACL** and select **Continue**.
4. Select **Save Settings**.

### Result

When syncing data, BlueXP copy and sync preserves the ACLs between the source and target.

## Manually copy ACLs between SMB shares

You can manually preserve ACLs between SMB shares by using the Windows robocopy command.

### Steps

1. Identify a Windows host that has full access to both SMB shares.
2. If either of the endpoints require authentication, use the **net use** command to connect to the endpoints from the Windows host.

You must perform this step before you use robocopy.

3. From BlueXP copy and sync, create a new relationship between the source and target SMB shares or sync an existing relationship.
4. After the data sync is complete, run the following command from the Windows host to sync the ACLs and ownership:

```
robocopy /E /COPY:SOU /secfix [source] [target] /w:0 /r:0 /XD ~snapshots
/UNILOG:"[logfilepath]
```

Both *source* and *target* should be specified using the UNC format. For example: \\<server>\<share>\<path>

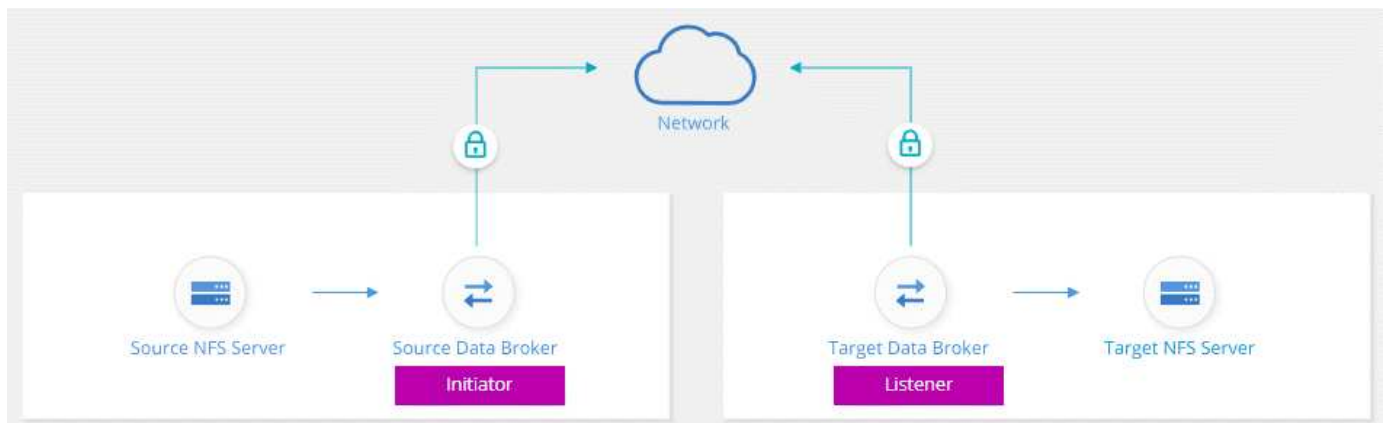
# Sync NFS data using data-in-flight encryption

If your business has strict security policies, you can sync NFS data using data-in-flight encryption. This feature is supported from an NFS server to another NFS server and from Azure NetApp Files to Azure NetApp Files.

For example, you might want to sync data between two NFS servers that are in different networks. Or you might need to securely transfer data on Azure NetApp Files across subnets or regions.

## How data-in-flight encryption works

Data-in-flight encryption encrypts NFS data when it's sent over the network between two data brokers. The following image shows a relationship between two NFS servers and two data brokers:



One data broker functions as the *initiator*. When it's time to sync data, it sends a connection request to the other data broker, which is the *listener*. That data broker listens for requests on port 443. You can use a different port, if needed, but be sure to check that the port is not in use by another service.

For example, if you sync data from an on-premises NFS server to a cloud-based NFS server, you can choose which data broker listens for the connection requests and which sends them.

Here's how in-flight encryption works:

1. After you create the sync relationship, the initiator starts an encrypted connection with the other data broker.
2. The source data broker encrypts data from the source using TLS 1.3.
3. It then sends the data over the network to the target data broker.
4. The target data broker decrypts the data before sending it to the target.
5. After the initial copy, the service syncs any changed data every 24 hours. If there is data to sync, the process starts with the initiator opening an encrypted connection with the other data broker.

If you prefer to sync data more frequently, [you can change the schedule after you create the relationship](#).

## Supported NFS versions

- For NFS servers, data-in-flight encryption is supported with NFS versions 3, 4.0, 4.1, and 4.2.
- For Azure NetApp Files, data-in-flight encryption is supported with NFS versions 3 and 4.1.

## Proxy server limitation

If you create an encrypted sync relationship, the encrypted data is sent over HTTPS and isn't routable through a proxy server.

## What you'll need to get started

Be sure to have the following:

- Two NFS servers that meet [source and target requirements](#) or Azure NetApp Files in two subnets or regions.
- The IP addresses or fully qualified domain names of the servers.
- Network locations for two data brokers.

You can select an existing data broker but it must function as the initiator. The listener data broker must be a *new* data broker.

If you want to use an existing data broker group, the group must have only one data broker. Multiple data brokers in a group aren't supported with encrypted sync relationships.

If you have not yet deployed a data broker, review the data broker requirements. Because you have strict security policies, be sure to review the networking requirements, which includes outbound traffic from port 443 and the [internet endpoints](#) that the data broker contacts.

- [Review AWS installation](#)
- [Review Azure installation](#)
- [Review Google Cloud installation](#)
- [Review Linux host installation](#)

## Sync NFS data using data-in-flight encryption

Create a new sync relationship between two NFS servers or between Azure NetApp Files, enable the in-flight encryption option, and follow the prompts.

### Steps

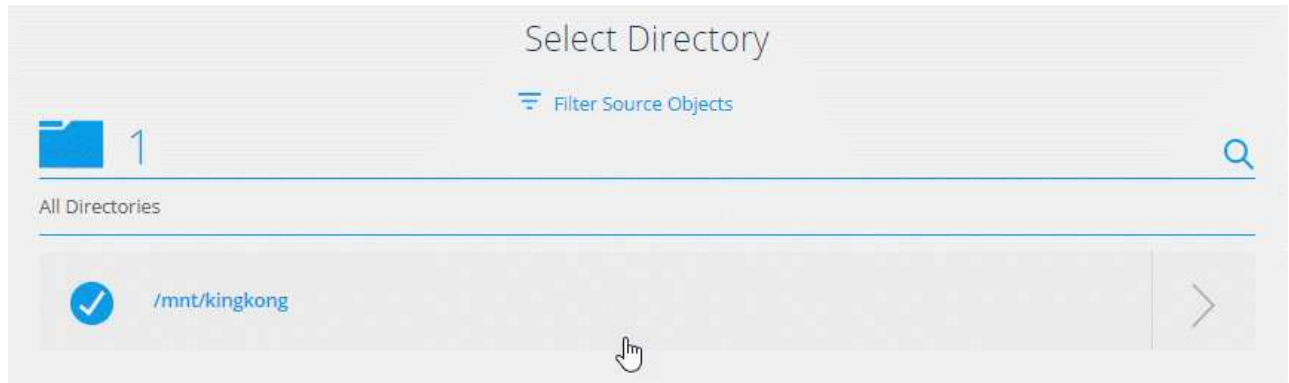
1. Select **Create New Sync**.
2. Drag and drop **NFS Server** to the source and target locations or **Azure NetApp Files** to the source and target locations and select **Yes** to enable data-in-flight encryption.
3. Follow the prompts to create the relationship:
  - a. **NFS Server/Azure NetApp Files**: Choose the NFS version and then specify a new NFS source or select an existing server.
  - b. **Define Data Broker Functionality**: Define which data broker *listens* for connection requests on a port and which one *initiates* the connection. Make your choice based on your networking requirements.
  - c. **Data Broker**: Follow the prompts to add a new source data broker or select an existing data broker.

Note the following:

- If you want to use an existing data broker group, the group must have only one data broker. Multiple data brokers in a group aren't supported with encrypted sync relationships.

- If the source data broker acts as the listener, then it must be a new data broker.
  - If you need a new data broker, BlueXP copy and sync prompts you with the installation instructions. You can deploy the data broker in the cloud or download an installation script for your own Linux host.
- d. **Directories:** Choose the directories that you want to sync by selecting all directories, or by drilling down and selecting a subdirectory.

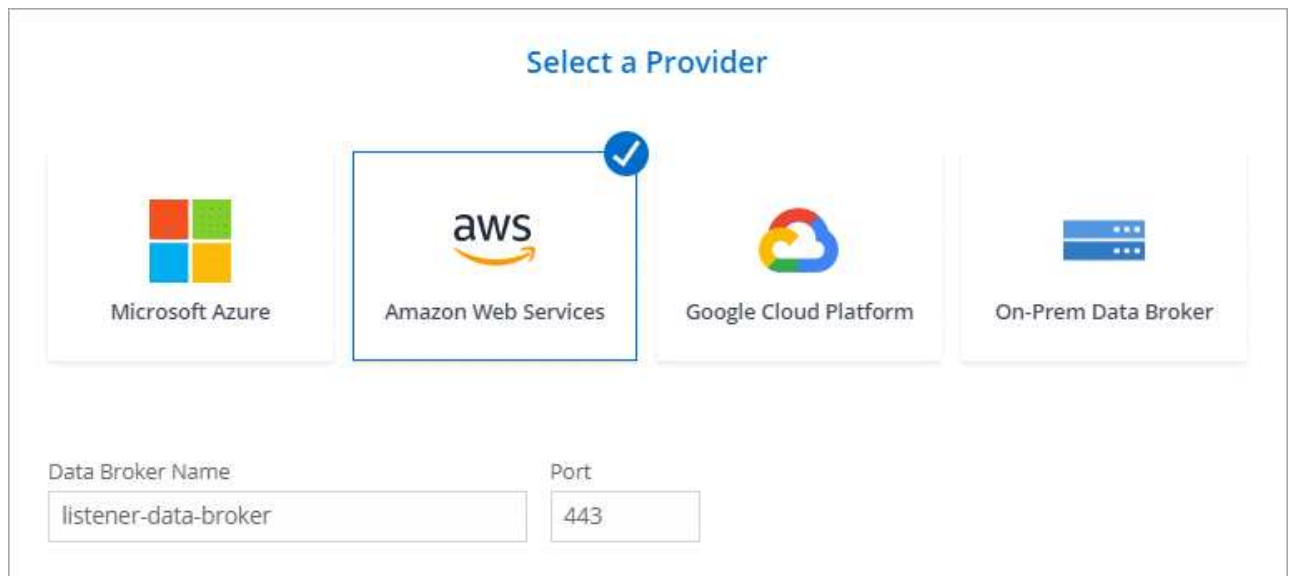
Select **Filter Source Objects** to modify settings that define how source files and folders are synced and maintained in the target location.



- e. **Target NFS Server/Target Azure NetApp Files:** Choose the NFS version and then enter a new NFS target or select an existing server.
- f. **Target Data Broker:** Follow the prompts to add a new source data broker or select an existing data broker.

If the target data broker acts as the listener, then it must be a new data broker.

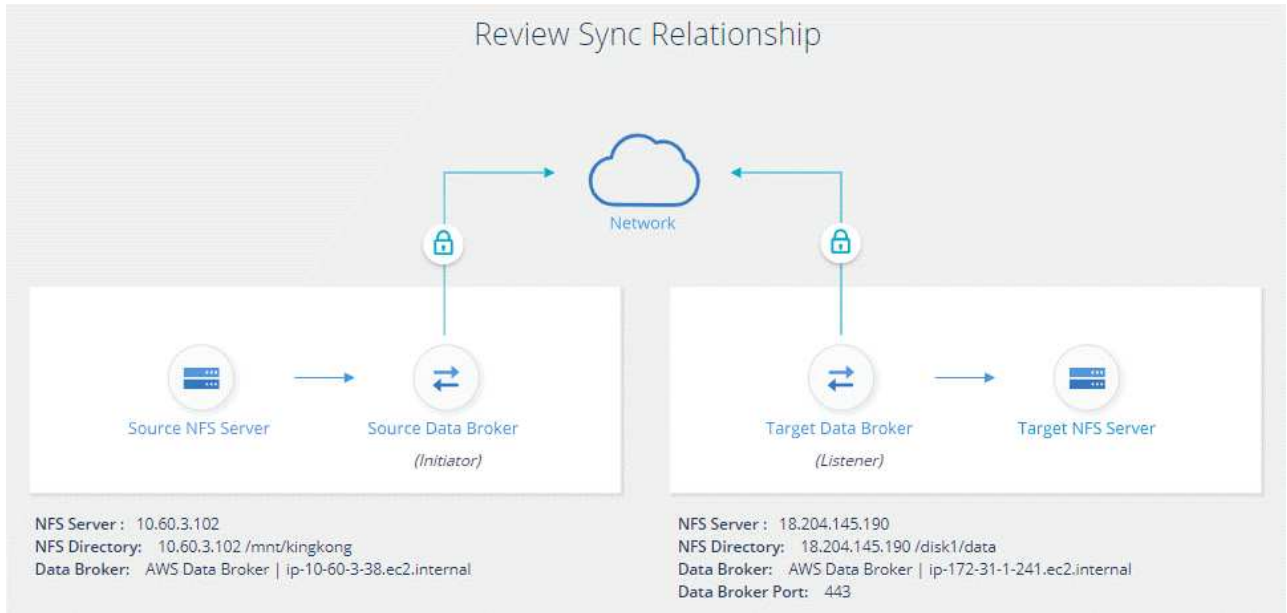
Here's an example of the prompt when the target data broker functions as the listener. Notice the option to specify the port.



- g. **Target Directories:** Select a top-level directory, or drill down to select an existing subdirectory or to create a new folder inside an export.



- h. **Settings:** Define how source files and folders are synced and maintained in the target location.
- i. **Review:** Review the details of the sync relationship and then select **Create Relationship**.



## Result

BlueXP copy and sync starts creating the new sync relationship. When it's done, select **View in Dashboard** to view details about the new relationship.

## Set up a data broker group to use an external HashiCorp Vault

When you create a sync relationship that requires Amazon S3, Azure, or Google Cloud credentials, you need to specify those credentials through the BlueXP copy and sync user interface or API. An alternative is to set up the data broker group to access the credentials (or *secrets*) directly from an external HashiCorp Vault.

This feature is supported through the BlueXP copy and sync API with sync relationships that require Amazon S3, Azure, or Google Cloud credentials.

### 1 Prepare the vault

Prepare the vault to supply credentials to the data broker group by setting up the URLs. The URLs to the secrets in the vault must end with *Creds*.

### 2 Prepare the data broker group

Prepare the data broker group to fetch credentials from the external vault by modifying the local config file for each data broker in the group.

### 3 Create a sync relationship using the API

Now that everything is set up, you can send an API call to create a sync relationship that uses your vault to get the secrets.

## Prepare the vault

You'll need to provide BlueXP copy and sync with the URL to the secrets in your vault. Prepare the vault by setting up those URLs. You need to set up URLs to the credentials for each source and target in the sync relationships that you plan to create.

The URL must be set up as follows:

```
/<path>/<requestid>/<endpoint-protocol>Creds
```

### Path

The prefix path to the secret. This can be any value that's unique to you.

### Request ID

A request ID that you need to generate. You'll need to provide the ID in one of the headers in the API POST request when you create the sync relationship.

### Endpoint protocol

One of the following protocols, as defined [in the post relationship v2 documentation](#): S3, AZURE, or GCP (each must be in uppercase).

### Creds

The URL must end with *Creds*.

## Examples

The following examples show URLs to secrets.

### Example for the full URL and path for source credentials

```
http://example.vault.com:8200/my-path/all-secrets/hb312vdasr2/S3Creds
```

As you can see in the example, the prefix path is */my-path/all-secrets/*, the request ID is *hb312vdasr2* and the source endpoint is S3.

### Example for the full URL and path for target credentials

```
http://example.vault.com:8200/my-path/all-secrets/n32hcbnejk2/AZURECreds
```

The prefix path is */my-path/all-secrets/*, the request ID is *n32hcbnejk2*, and the target endpoint is Azure.

## Prepare the data broker group

Prepare the data broker group to fetch credentials from the external vault by modifying the local config file for each data broker in the group.

### Steps

1. SSH to a data broker in the group.
2. Edit the local.json file that resides in `/opt/netapp/databroker/config`.
3. Set `enable` to **true** and set the config parameter fields under `external-integrations.hashicorp` as follows:

**enabled**

- Valid values: true/false
- Type: Boolean
- Default value: false
- True: The data broker gets secrets from your own external HashiCorp Vault
- False: The data broker stores credentials in its local vault

**url**

- Type: string
- Value: The URL to your external vault

**path**

- Type: string
- Value: Prefix path to the secret with your credentials

**Reject-unauthorized**

- Determines if you want the data broker to reject unauthorized external vault
- Type: Boolean
- Default: false

**auth-method**

- The authentication method that the data broker should use to access credentials from the external vault
- Type: string
- Valid values: "aws-iam" / "role-app" / "gcp-iam"

**role-name**

- Type: string
- Your role name (in case you use aws-iam or gcp-iam)

**Secretid & rootid**

- Type: string (in case you use app-role)

**Namespace**

- Type: string
- Your namespace (X-Vault-Namespace header if needed)

4. Repeat these steps for any other data brokers in the group.

**Example for aws-role authentication**

```

{
  "external-integrations": {
    "hashicorp": {
      "enabled": true,
      "url": "https://example.vault.com:8200",
      "path": "my-path/all-secrets",
      "reject-unauthorized": false,
      "auth-method": "aws-role",
      "aws-role": {
        "role-name": "my-role"
      }
    }
  }
}

```

### Example for gcp-iam authentication

```

{
  "external-integrations": {
    "hashicorp": {
      "enabled": true,
      "url": "http://ip-10-20-30-55.ec2.internal:8200",
      "path": "v1/secret",
      "namespace": "",
      "reject-unauthorized": true,
      "auth-method": "gcp-iam",
      "aws-iam": {
        "role-name": ""
      },
      "app-role": {
        "root_id": "",
        "secret_id": ""
      }
    },
    "gcp-iam": {
      "role-name": "my-iam-role"
    }
  }
}

```

### Set up permissions when using gcp-iam authentication

If you're using the *gcp-iam* authentication method, then the data broker must have the following GCP permission:

```
- iam.serviceAccounts.signJwt
```

[Learn more about GCP permission requirements for the data broker.](#)

## Creating a new sync relationship using secrets from the vault

Now that everything is set up, you can send an API call to create a sync relationship that uses your vault to get the secrets.

Post the relationship using the BlueXP copy and sync REST API.

```
Headers:  
Authorization: Bearer <user-token>  
Content-Type: application/json  
x-account-id: <accountid>  
x-netapp-external-request-id-src: request ID as part of path for source  
credentials  
x-netapp-external-request-id-trg: request ID as part of path for target  
credentials  
Body: post relationship v2 body
```

- To obtain a user token and your BlueXP account ID, [refer to this page in the documentation](#).
- To build a body for your post relationship, [refer to the relationships-v2 API call](#).

### Example

Example for the POST request:

**url:** `https://api.cloudsync.netapp.com/api/relationships-v2`

**headers:**

`"x-account-id": "CS-SasdW"`

`"x-netapp-external-request-id-src": "hb312vdasr2"`

`"Content-Type": "application/json"`

`"Authorization": "Bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6Ik..."`

**Body:**

```
{
  "dataBrokerId": "5e6e111d578dtyuu1555sa60",
  "source": {
    "protocol": "s3",
    "s3": {
      "provider": "sgws",
      "host": "1.1.1.1",
      "port": "443",
      "bucket": "my-source"
    }
  },
  "target": {
    "protocol": "s3",
    "s3": {
      "bucket": "my-target-bucket"
    }
  }
}
```

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