Manage BlueXP classification

BlueXP classification

NetApp
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Exclude specific directories from BlueXP classification scans

If you want BlueXP classification to exclude scanning data that resides in certain data source directories, you can add these directory names to a configuration file. After you apply this change, the BlueXP classification engine will exclude scanning data in those directories.

Note that BlueXP classification is configured by default to exclude scanning volume snapshot data because that content is identical to the content in the volume.

This functionality is available in BlueXP classification version 1.29 and greater (starting in March 2024).

Supported data sources

Excluding specific directories from BlueXP classification scans is supported for NFS and CIFS shares in the following data sources:

- On-premises ONTAP
- Cloud Volumes ONTAP
- Amazon FSx for NetApp ONTAP
- Azure NetApp Files
- General file shares

Define the directories to exclude from scanning

Before you can exclude directories from classification scanning, you need to log into the BlueXP classification system so you can edit a configuration file and run a script. See how to log in to the BlueXP classification system depending on whether you manually installed the software on a Linux machine or if you deployed the instance in the cloud.

- You can exclude a maximum of 50 directory paths per BlueXP classification system.
- Excluding directory paths may affect scanning times.

Steps

1. On the BlueXP classification system, go to "/opt/netapp/config/custom_configuration" and open the file `data_provider.yaml`.
2. In the "data_providers" section, under the line "exclude:", enter the directory paths to exclude. For example:

```
exclude:
- "folder1"
- "folder2"
```

Do not change anything else in this file.

3. Save the changes to the file.
4. Go to "/opt/netapp/Datasense/tools/customer_configuration/data_providers" and run the following script:

```
update_data_providers_from_config_file.sh
```

This command commits the directories to be excluded from scanning to the classification engine.

Result

All subsequent scans of your data will exclude scanning of those specified directories.

You can add, edit, or delete items from the exclude list using these same steps. The revised exclude list will be updated after you run the script to commit your changes.

Examples

Configuration 1:

Every folder that contains "folder1" anywhere in the name will be excluded from all data sources.

```
data_providers:
   exclude:
   - "folder1"
```

Expected results for paths that will be excluded:

- /CVO1/folder1
- /CVO1/folder1name
- /CVO1/folder10
- /CVO1/*folder1
- /CVO1/+folder1name
- /CVO1/notfolder10
- /CVO22/folder1
- /CVO22/folder1name
- /CVO22/folder10

Examples for paths that will not be excluded:

- /CVO1/*folder
- /CVO1/foldername
- /CVO22/*folder20

Configuration 2:

Every folder that contains "*folder1" only at the start of the name will be excluded.

```
data_providers:
   exclude:
   - "\\*folder1"
```

Expected results for paths that will be excluded:

- /CVO/*folder1
- /CVO/*folder1name
- /CVO/*folder10

Examples for paths that will not be excluded:

- /CVO/folder1
- /CVO/folder1name
- /CVO/not*folder10

Configuration 3:

Every folder in data source "CVO22" that contains "folder1" anywhere in the name will be excluded.

```
data_providers:
   exclude:
   - "CVO22/folder1"
```

Expected results for paths that will be excluded:

- /CVO22/folder1
- /CVO22/folder1name
- /CVO22/folder10

Examples for paths that will not be excluded:

- /CVO1/folder1
- /CVO1/folder1name
- /CVO1/folder10

Escaping special characters in folder names

If you have a folder name that contains one of the following special characters and you want to exclude data in that folder from being scanned, you'll need to use the escape sequence \\ before the folder name.

```
., +, *, ?, ^, $, (, ), [, ], {, }, |
```

For example:

Path in source: `/project/*not_to_scan`

Syntax in exclude file: `"\\*not_to_scan"`

View the current exclusion list

It's possible for the contents of the `data_provider.yaml` configuration file to be different than what has actually been committed after running the `update_data_providers_from_config_file.sh` script. To view the current list of directories that you've excluded from BlueXP classification scanning, run the following command from "/opt/netapp/Datasense/tools/customer_configuration/data_providers":

```
get_data_providers_configuration.sh
```

Define additional group IDs as open to organization

When group IDs (GIDs) are attached to files or folders in NFS file shares they define the permissions for the file or folder; such as whether they are "open to the organization". If some group IDs (GIDs) are not initially set up with the "Open to Organization" permission level, you can add that permission to the GID so that any files and folders that have that GID attached will be deemed "open to the organization".

After you make this change and BlueXP classification rescans your files and folders, any files and folders that have these group IDs attached will show this permission in the Investigation Details page, and they'll also appear in reports where you are displaying file permissions.

To activate this functionality, you need to log into the BlueXP classification system so you can edit a configuration file and run a script. See how to log in to the BlueXP classification system depending on whether you manually installed the software on a Linux machine or if you deployed the instance in the cloud.

Add the "open to organization" permission to group IDs

You need to have the group ID numbers (GIDs) before starting this task.

Steps

1. On the BlueXP classification system, go to "/opt/netapp/config/custom_configuration" and open the file `data_provider.yaml`.
2. In the line "organization_group_ids: []" add the group IDs. For example:

   ```
   organization_group_ids: [1014, 1015, 21, 2021, 1013, 2020, 1018, 1019]
   ```

   Do not change anything else in this file.

3. Save the changes to the file.
4. Go to "/opt/netapp/Datasense/tools/customer_configuration/data_providers" and run the following script:

   ```
   update_data_providers_from_config_file.sh
   ```

   This command commits the revised group ID permissions to the classification engine.

Result

All subsequent scans of your data will identify files or folders that have these group IDs attached as "open to organization".

You can edit the list of group IDs and delete any group IDs you added in the past using these same steps. The revised list of group IDs will be updated after you run the script to commit your changes.

View the current list of group IDs

It's possible for the contents of the `data_provider.yaml` configuration file to differ from what has actually been committed after running the `update_data_providers_from_config_file.sh` script. To view the current list of group IDs that you've added to BlueXP classification, run the following command from "/opt/netapp/Datasense/tools/customer_configuration/data_providers":

```
get_data_providers_configuration.sh
```

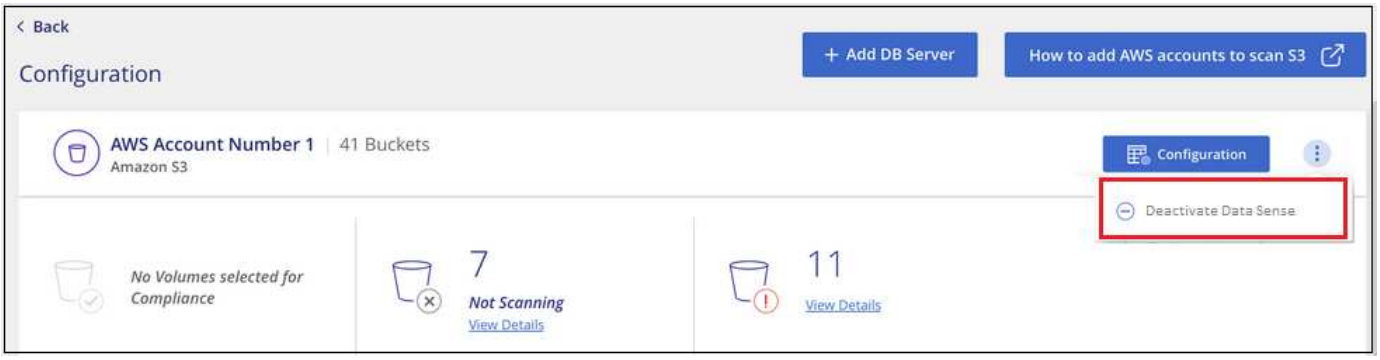
Remove data sources from BlueXP classification

If you need to, you can stop BlueXP classification from scanning one or more working environments, databases, or file share groups.

Deactivate compliance scans for a working environment

When you deactivate scans, BlueXP classification no longer scans the data on the working environment and it removes the indexed compliance insights from the BlueXP classification instance (the data from the working environment itself isn't deleted).

1. From the *Configuration* page, click the button in the row for the working environment, and then click **Deactivate Data Sense**.



You can also disable compliance scans for a working environment from the Services panel when you select the working environment.

Remove a database from BlueXP classification

If you no longer want to scan a certain database, you can delete it from the BlueXP classification interface and stop all scans.

1. From the *Configuration* page, click the button in the row for the database, and then click **Remove DB**

Server.

Remove a group of file shares from BlueXP classification

If you no longer want to scan user files from a file shares group, you can delete the File Shares Group from the BlueXP classification interface and stop all scans.

Steps

1. From the *Configuration* page, click the button in the row for the File Shares Group, and then click **Remove File Shares Group**.

2. Click **Delete Group of Shares** from the confirmation dialog.

Uninstalling BlueXP classification

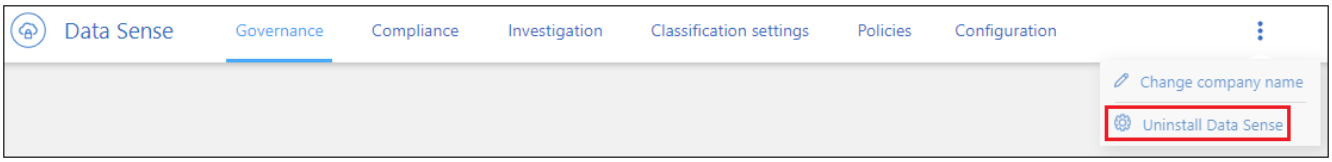
You can uninstall the BlueXP classification software to troubleshoot issues or to permanently remove the software from the host. Deleting the instance also deletes the associated disks where the indexed data resides - all the information BlueXP classification has scanned will be permanently deleted.

The steps that you need to use depend on whether you deployed BlueXP classification in the cloud or on an on-premises host.

Uninstall BlueXP classification from a cloud deployment

You can uninstall and delete the BlueXP classification instance from the cloud provider environment if you no longer want to use BlueXP classification.

1. At the top of the BlueXP classification page, click and then click **Uninstall Data Sense**.



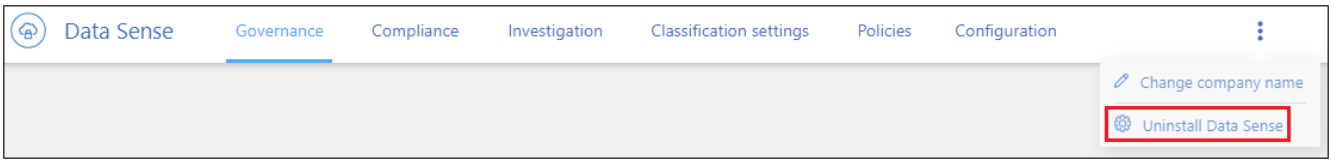
2. In the *Uninstall Data Sense* dialog, type **uninstall** to confirm that you want to disconnect the BlueXP classification instance from the BlueXP Connector, and then click **Uninstall**.
3. Go to your cloud provider's console and delete the BlueXP classification instance. The instance is named *CloudCompliance* with a generated hash (UUID) concatenated to it. For example: *CloudCompliance-16bb6564-38ad-4080-9a92-36f5fd2f71c7*

   This deletes the instance and all associated data that had been collected by BlueXP classification.

Uninstall BlueXP classification from an on-premises deployment

You can uninstall BlueXP classification from a host if you no longer want to use BlueXP classification, or if you had an issue that requires reinstallation.

1. At the top of the BlueXP classification page, click and then click **Uninstall Data Sense**.



2. In the *Uninstall Data Sense* dialog, type **uninstall** to confirm that you want to disconnect the BlueXP classification instance from the BlueXP Connector, and then click **Uninstall**.
3. To uninstall the software from the host, run the `cleanup.sh` script on the host machine, for example:

```
cleanup.sh
```

See how to log in to the BlueXP classification host machine.

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