

AvePoint Discovery Tool 3

User Guide



Service Pack 6, Cumulative Update 1

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What's New in this Release

- Renamed the **DiscoveryTool.exe** file to **SP2007AndSP2010DiscoveryTool.exe**.
- Renamed the **DiscoveryToolCMD.exe** file to **SP2007AndSP2010DiscoveryToolCMD.exe**.
- Support for generating the **UrlLengthWarningInformation.csv** report to report the information of URLs that exceed the configured maximum URL length.
- Support for reporting the total size of scanned objects in the **Summary.txt** report.
- Support for scanning all SharePoint Online site collections or OneDrive for Business in a SharePoint admin center using a **SharePoint Administrator** account.

About AvePoint Discovery Tool

The AvePoint Discovery Tool scans your SharePoint Online site collections and SharePoint 2007/2010/2013/2016 environment. After the scan has completed, the Discovery Tool stores all scanned SharePoint data into a configured database, which can then be retrieved and collected into a report. The Discovery Tool can also scan your SharePoint 2007/2010/2013/2016/Online environment and generate SharePoint data reports in the CSV format based on the scan without storing the data in a database. The Discovery Tool provides the following reports:

- **SharePoint Data Report** – Provides a better understanding of your SharePoint environment.
- **Storage Optimization Report** – Provides a preview of the data storage based on the configured rules and the cost of the storage.

***Note:** The Storage Optimization Report can only be generated for SharePoint 2010, 2013, and 2016 environments.

Submitting Documentation Feedback to AvePoint

AvePoint encourages customers to provide feedback regarding our product documentation. You can [Submit Your Feedback](#) on our website.

Before You Begin

Refer to the following sections for system and farm requirements that must be in place prior to using the Discovery Tool.

System Requirements

In order to use the Discovery Tool for SharePoint 2007 or SharePoint 2010, the Microsoft .NET Framework 3.5 Service Pack 1 or later must be installed and configured properly on your machine.

In order to use the Discovery Tool for SharePoint 2013 or SharePoint Online, the Microsoft .NET Framework 4.5 or later must be installed and configured properly on your machine.

In order to use the Discovery Tool for SharePoint 2016, the Microsoft .NET Framework 4.5.2 or later must be installed and configured properly on your machine.

Permissions Requirements

The Discovery Tool must be run on one of the Web front-end servers of a SharePoint 2007, 2010, 2013, or 2016 farm. The user who runs the Discovery Tool must have the following permissions:

- Local System permissions:
 - Permission of **Log on as a batch job** (it can be found within **Control Panel > Administrative Tools > Local Security Policy > Security Settings > Local Policies > User Rights Assignment**)
 - Full Control permission for Discovery Tool installation directory

If there are no strict limitations within your organization on the permissions that can be applied, you can simply add the user who runs the Discovery Tool to the local **Administrators** group to apply all required permissions.
- SharePoint permissions:
 - User is a member of the Farm **Administrators** group
 - Policy for Web Application: **Full Control**
- SQL permissions:
 - The **db_owner** database role in all databases related with SharePoint, including Content Databases, Configuration Database, and Central Admin Database
 - The **dbcreator** server role to SQL Server

To use Discovery Tool with SharePoint Online, the user who runs the Discovery Tool must have the **dbcreator** server role to SQL Server. Users who connect to SharePoint Online site collections or OneDrive for Business must have the **Site Collection Administrator** role; Users who connect to the SharePoint admin center must have the **SharePoint Administrator** role.

Getting Started

Refer to the sections below for important information on getting started with the AvePoint Discovery Tool.

***Note:** Discovery Tool supports being used on the server where the **System cryptography: Use FIPS compliant algorithms for encryption, hashing, and signing** local group policy is enabled.

Accessing Discovery Tool

There are two ways to access the Discovery Tool:

- To access the standalone Discovery Tool, refer to the following steps:
 - i. Download the **AvePoint_Discovery_Tool_3.6.1_Serial_Number.zip** file by contacting your AvePoint representative for links to this package and to retrieve your license.
 - ii. For SharePoint 2007, 2010, 2013, or 2016 environment, copy the file to one of the Web front-end servers of a SharePoint 2007, 2010, 2013, or 2016 farm.

For SharePoint Online, copy the file to a server with network connection.
 - iii. Extract this file.
 - iv. Locate the **SP2007AndSP2010DiscoveryTool.exe** (for SharePoint 2007 and SharePoint 2010), **SP2013DiscoveryTool.exe**, **SP2016DiscoveryTool.exe**, or **SPOnlineDiscoveryTool.exe** in the **bin** folder of the extracted folder and double-click it. The Discovery Tool will launch in a new window.

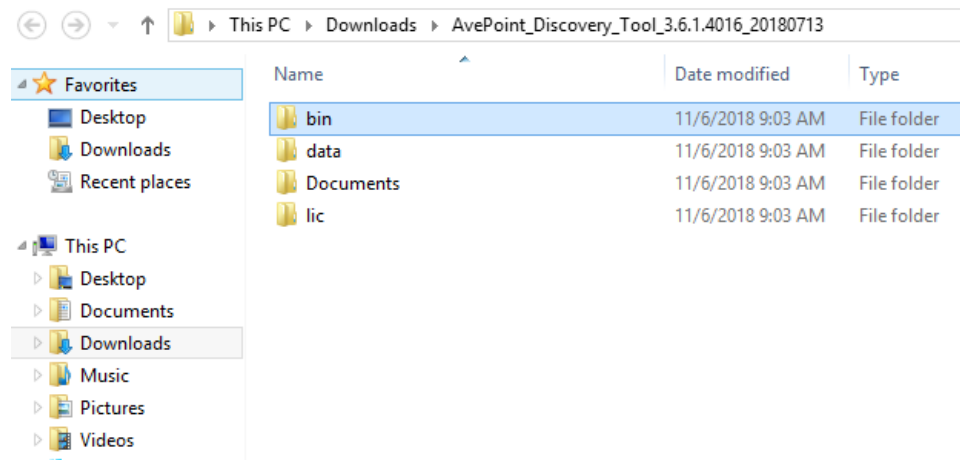


Figure 1: The bin folder.

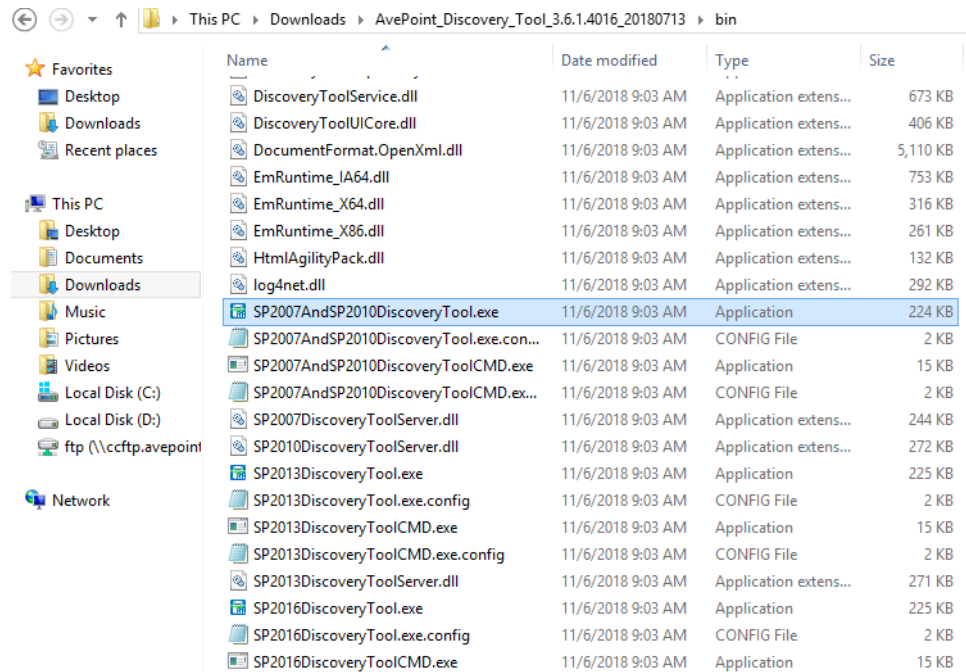


Figure 2: The files in the bin folder.

- The **DiscoveryTool** folder can be found in the DocAve Agent installation path: ...*AvePoint\DocAve6\Agent\bin*. Locate the **SP2007AndSP2010DiscoveryTool.exe** (for SharePoint 2007 and SharePoint 2010), **SP2013DiscoveryTool.exe**, **SP2016DiscoveryTool.exe**, or **SPOnlineDiscoveryTool.exe** in the **bin** folder of the **DiscoveryTool** folder and double-click it to start the tool. In order to use the tool, you need to contact your AvePoint representative to retrieve your license.

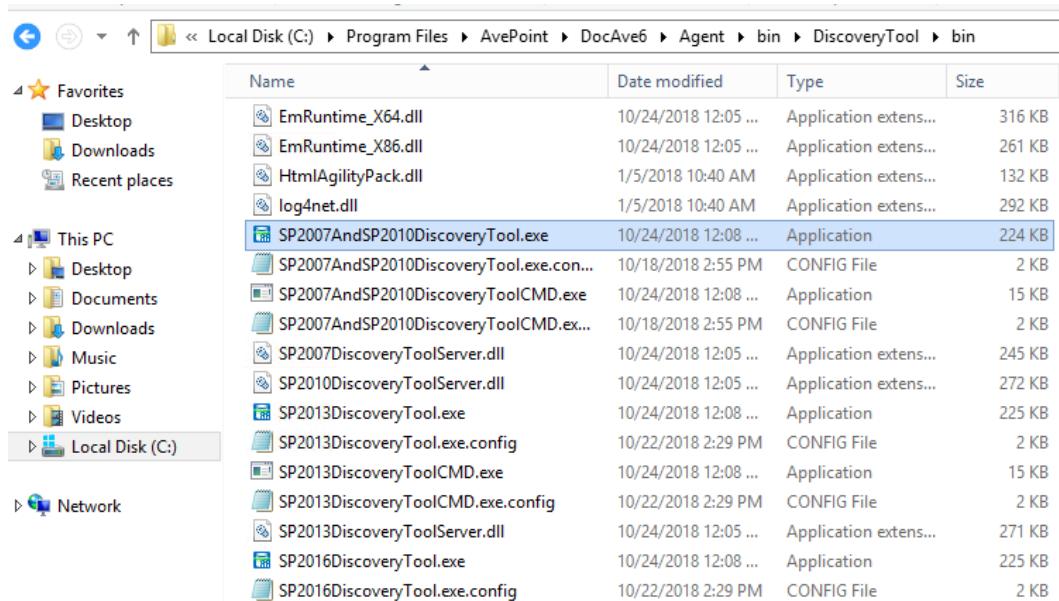


Figure 3: The bin folder in the DocAve Agent installation path.

User Interface Overview

When you launch the Discovery Tool, the following interface appears.

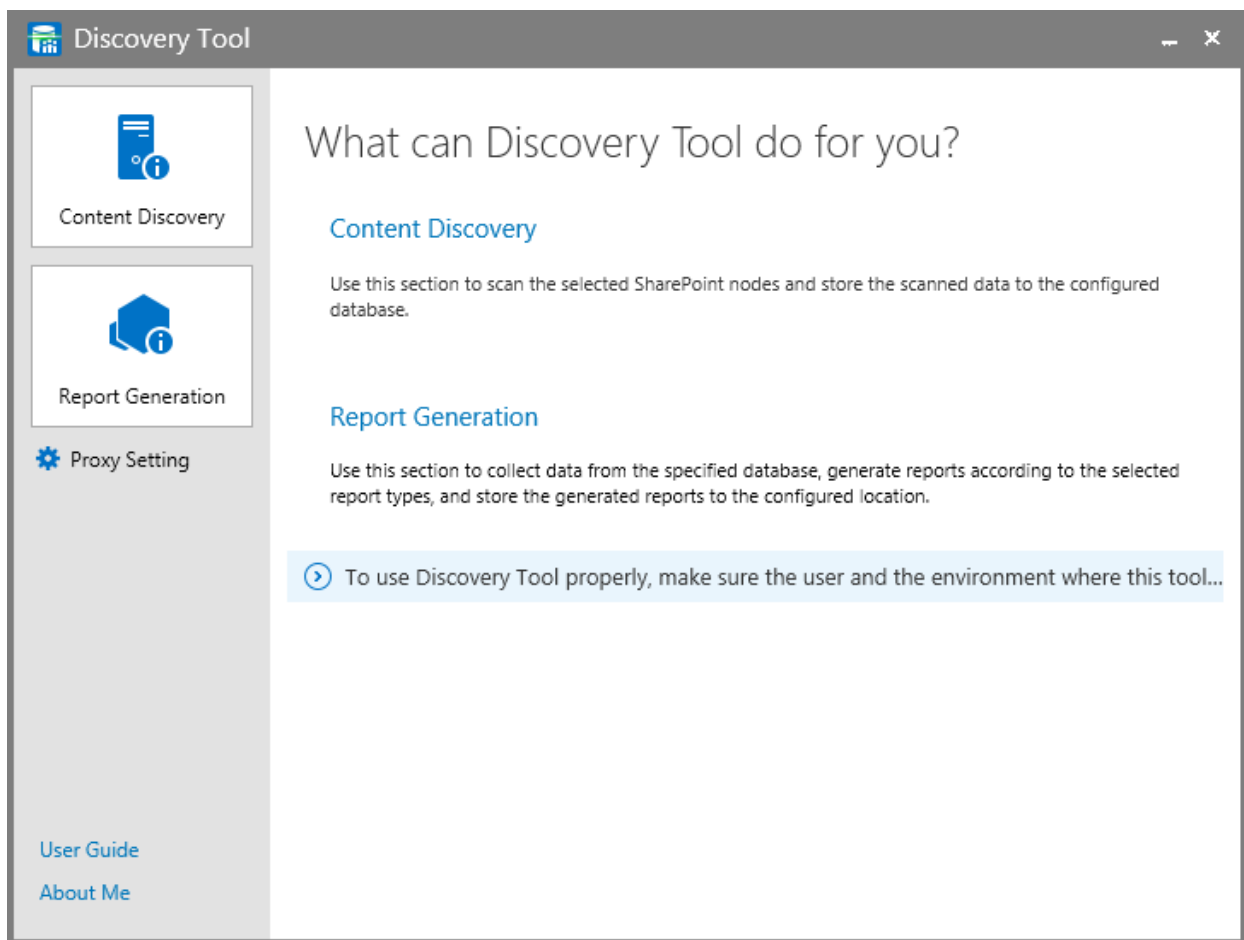


Figure 4: The Discovery Tool launch window.


- **Content Discovery** – Use this section to scan a SharePoint 2007, 2010, 2013, 2016, or Online environment, and then store all scanned SharePoint data in a configured database; or use this section to scan a SharePoint 2007, 2010, 2013, 2016, or SharePoint Online environment to generate reports in the CSV format based on the scan without storing the data in a database. Also, you can use this section to scan a SharePoint 2010, 2013, or 2016 environment, and then store the DocAve Storage Optimization required information on the scanned SharePoint data in a configured database.
- **Report Generation** – Use this section to collect data from the specified database, generate reports according to the selected report types or configured rules, and store the generated reports to the configured location.

Discovery Tool Functions

Refer to the following sections for details about the Discovery Tool functions.

Content Discovery

To scan SharePoint data, and store all scanned SharePoint data to the database or generate reports in the CSV format without storing the data in a database, complete the following steps:

1. On the welcome page of Discovery Tool, click the **Content Discovery**  tile on the navigation pane or the **Content Discovery** link on the right pane.
2. In the **Scope Configuration** step, complete the following information:

***Note:** This step is only available when you run the **SPOnlineDiscoveryTool.exe**.

- **URL** – Enter the URL of the SharePoint Online site collection or OneDrive for Business you want to scan. You can also enter the SharePoint admin center URL to scan all site collections or OneDrive for Business.
- **Username** – Enter the username of the account that has the **Site Collection Administrator** role to the SharePoint Online site collection or OneDrive for Business entered above or **SharePoint Administrator** role to the SharePoint admin center entered above.

***Note:** The **SharePoint Administrator** you entered will be automatically added as the **Site Collection Administrator** of the site collections or OneDrive for Business in the SharePoint admin center.

- **Password** – If the account does not have multi-factor authentication (MFA) enabled, enter the login password of the account above. If MFA is enabled, enter the app password of the account above. For more information about app passwords, refer to the Microsoft technical article <https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-mfasettings>.

Select the **Remember the account credentials** checkbox to remember the URL, username, and password you entered.

Click **Validation Test** to verify the information entered above. Click **Next** to go to the next step.

3. In the **Scope Selection** step, there are two tabs:
 - **Tree Mode** – Click the farm, **SharePoint Online**, or **OneDrive for Business** node to load the nodes under it. Select the nodes you want to scan by selecting the corresponding checkboxes.
 - **Import Mode** – The site collections or OneDrive for Business configured in the XML file will be scanned by the Discovery Tool.

***Note:** Select **SharePoint Online Site Collection** or **OneDrive for Business** when you run the **SPOnlineDiscoveryTool.exe**.

- Click **Choose File** and select a file where the site collection information is configured. To view a sample file, click **Sample File**.
 - Click **Clear** to remove the browsed XML file.
4. Click **Next** to go to the next step.
5. In the **Discovery Mode** step, select one of the following discovery modes: **SharePoint Data Basic Report**, **SharePoint Data Advanced Report**, and **Storage Optimization Report**.
- Select the **SharePoint Data Basic Report** mode to collect the following information about the selected node.
 - Farm Overview and Topology Information (unavailable for SharePoint Online)
 - Site Collection and Site General Statistics
 - List General Statistics
 - Solution and Feature Information
 - Custom Web Part and Page Layout Information
 - Custom Template Information
 - Workflow Information
 - SharePoint Users and Groups
 - Select the **SharePoint Data Advanced Report** mode, and then select the advanced types of information that you want to collect. The selected types of information about the selected nodes, together with that of the **SharePoint Data Basic Report** mode, will all be collected. The advanced types are as follows:
 - Alert Information
 - Content Type Information
 - Column Information
 - Lookup Column Information
 - Event Receiver Information
 - InfoPath Information
 - Managed Metadata Service Information
 - Item Information
 - Nintex Form Information

- Nintex Workflow Information

Click **Select All** to select all checkboxes or click **Clear All** to deselect all of the checkboxes.

- Select the **Storage Optimization Report** mode to collect information that is required by DocAve Storage Optimization about the selected nodes.

***Note:** To define whether additional information will be scanned and collected, refer to [Appendix A: Configuring Advanced Content Discovery Settings](#).

6. Click **Next** to go to the next step.

7. In the **Report Location** step, choose the method of generating the reports:

The screenshot shows the 'Discovery Tool' interface at the 'Report Location' step. A progress bar at the top indicates the current step. The main area contains the following elements:

- How would you like to generate the report?**: Radio buttons for 'Database' (selected) and 'CSV'.
- Please configure a database:**
 - Database Server:** Text input field containing '11.1.11.11'.
 - Database Name:** Text input field containing 'DiscoveryTool'.
- Please specify an authentication mode:** Dropdown menu set to 'Windows Authentication'.
- Account:** Empty text input field.
- Password:** Empty text input field.
- Validation Test**: Blue button.
- Back** and **Generate**: Buttons at the bottom right.

Figure 5: The Report Location step.

- **Database** – Use this option to store the collected information in a database.

***Note:** The data that will be stored in the database for the SharePoint data reports and storage optimization report are different. To ensure the report generation functionality works, the database configured to store data for the SharePoint data reports and storage optimization report **MUST** be different.

- **Database Server** – Enter the IP address or name of the server where the database you want to store data is located.


- **Database Name** – Enter the name of the database where you want to store data.
- **Authentication Mode** – Select an authentication mode to connect to the database. You can select **Windows Authentication** or **SQL Authentication**.
 - **Account** – Enter the account that has the **db_owner** permission to the specified database.
 - **Password** – Enter the password for the account above.

Click **Validation Test** to validate the SQL database account.

- **CSV** – Use this option to generate reports of the collected information in the CSV format. Specify a location to store the reports. The default location is the **bin** folder of the current tool's directory. To change to another location, click **Change Location**, select the desired location, and click **OK** to save the new location. You can also click **Make New Folder** to create a new folder for storing the reports.
8. Click **Generate** to scan data in the selected nodes and store the specific data to the configured database or generate the SharePoint data reports in the CSV format. To go back to the **Discovery Mode** step, click **Back**.
 9. If you click **Generate**, you will be redirected to the job status page where you can see the job progress and job details.
 10. When the job finishes, the following message appears: **The job is completed**. The following options are then available to you:
 - To go to the home page of the Discovery Tool, click the **Home Page** link.
 - There is a **click here** link on the page if reports in the CSV format are generated in this job. To go to the report location directory, click the **click here** link. For more information on the generated reports, refer to [SharePoint Data Reports \(CSV Format\)](#).

Report Generation

To generate a report on the data from the database, follow the instructions below:

1. In the welcome page of the Discovery Tool, click the **Report Generation**  tile on the navigation pane or the **Report Generation** link on the right pane.
2. In the **Data Source** step, configure a database to collect data and generate reports. Refer to step 7 of [Content Discovery](#) to configure a database.
3. Click **Next** to go to the next step.

4. In the **Report Type** step, select the report type that you want to generate. Based on the report type you select, the following steps are different.
5. If you select to generate a **SharePoint Data Report**, follow the steps below:
 - a. Select the information types that you want to be included in the report. There are three types of settings that you can select.

- **General Statistics** – Configure the settings in this tab to collect general statistics.
 - **Farm Overview** – Select this checkbox to collect the information on each Web application of the farm from the database. (unavailable for SharePoint Online)
 - **Farm Topology** – Select this checkbox to collect the farm topology information. (unavailable for SharePoint Online)
 - **Site Collection Information** – Select this checkbox to collect all the site collections' information from the database.
 - **Site Information** – Select this checkbox to collect all the sites' information from the database.
 - **Data Overview** – Select this checkbox to collect the top 20 site collections with certain objects.
 - **List Information** – Select this checkbox to collect all the lists' information from the database.
 - **Checked Out File Information** – Select this checkbox to collect the information of all the checked-out files from the database.
 - **URL Length Warning** – Select this checkbox to collect the information on the object whose URL exceeds the maximum value. Enter a value to define the maximum length of URL. The default value is **255**.

Click **Select All** to select all checkboxes or click **Clear All** to deselect all checkboxes. By default, the checkboxes are all selected.

- **Configuration** – Configure the settings in this tab to collect configuration information.
 - **Lookup Column Information** – Collect all Lookup column information from the database.
 - **Content Type Information** – Collect all the content types' information from the database.
 - **Workflow Information** – Collect all the workflows' information from the database.

- **Nintex Form Information** – Collect the Nintex form information from the database.
- **User Information** – Collect the user information from the database.
- **Group Information** – Collect the group information from the database.
- **Page Information** – Collect all pages' information from the database.
- **Page Layout Information** – Collect the page layouts' information from the database.
- **Web Part Information** – Collect the Web part information from the database.
- **InfoPath Information** – Collect the InfoPath information from the database.
- **Managed Metadata Service Information** – Collect the Managed Metadata Service information from the database.
- **Unsupported** – Collect the information on containers and settings that are not supported being migrated by SharePoint Migration from the database.


Click **Select All** to select all checkboxes or click **Clear All** to deselect all checkboxes. By default, the checkboxes are all selected.

- **Customization** – Configure the settings in this tab to collect customized information.
 - **Feature Information** – Collect the information on the features that are customized and activated.
 - **Solution Information** – Collect the information on the solutions that have been added to SharePoint.

Click **Select All** to select all checkboxes or click **Clear All** to deselect all checkboxes. By default, the checkboxes are all selected.

- b. Click **Next** to go to the next step or click **Back** to go back to the **Data Source** step.
- c. In the **Report Generation** step, enter a name for the report and specify a location to store the report. The default location is the **bin** folder of the current tool's directory. To change another location, click **Change Location**, select the desired location, and click **OK** to save the new location. You can also click **Make New Folder** to create a new folder for storing the report.

- d. Click **Export** to generate the SharePoint data report with the selected types of information or click **Back** to go back to the **Report Type** step.
 - e. If you click **Export**, you will be redirected to the job status page where you can see the job progress and job details.
 - f. When the reports are generated successfully, the following message appears: **The job is completed**. There are **click here** and **Home Page** links on the page. You can do the following things:
 - o Click the **click here** link to go to the report location directory. For more information on the generated report, refer to [SharePoint Data Report \(Excel Format\)](#).
 - o Click the **Home Page** link to go to the home page of Discovery Tool.
6. If you select to generate a **Storage Optimization Report**, follow the steps below.
- a. Configure Storage Optimization Report rules to filter documents to be included in the report. A rule contains the following two parts:
 - o **Criteria** – Configure the criteria to filter specific documents to be extended to the external device.
 - **Size** – Enter a data size value for the document. The units for this value can be selected as **KB**, **MB** or **GB** from the drop-down list. Use the condition **>=** to extend all documents whose size is equal to or greater than the entered size. Use the condition **<=** to extend all documents whose size is equal to or less than the entered size.
 - **Modified Date** – Set a date range of the modified time for the document. Use the condition **From ... To** to extend all documents that are modified between the two dates selected. Use the condition **Before** to extend all documents modified before the date selected. Use the condition **Older Than** to extend all documents with a modification date that is older than the specific number of **Day(s)**, **Week(s)**, **Month(s)**, or **Year(s)** selected from the drop-down list.

Click **Add a Criterion** to add another criterion. Click the () icon next to a criterion to remove the criterion from the rule.

You can change the logical relationship between criteria by selecting **And** or **Or** from the drop-down list. (**And** is the default logical relationship).

- **And** – The documents that meet all the criteria are filtered.
- **Or** – The documents that meet any one of the criteria are filtered.

- **Storage** – Select an external device where the filtered documents will be extended. 10 virtual storage devices from **BLOB Storage1** to **BLOB Storage10** are provided.


Click **Add Rule** to add another rule. Click the () icon next to each rule to delete the rule.

- b. Click **Next** to go to the **Report Generation** step and start the report generation directly. The data storages are displayed in two formats.
 - You can see all data storages and the data size in each storage on the right pane of the **Storage Optimization** area.
 - On the left pane, the storages are displayed in a pie chart.

In the **Cost Saving** area, enter the cost of each storage per year, and click **Calculate**. You can also click the **Change to Month** link to enter the cost of each storage per month. The cost of each storage per year/month and the total cost, before and after externalization, will be listed in the table below.

- c. Click **Export** to export the current report into an .xlsx file.
- d. Click **Back** to go back to the **Report Type** step or click **Finish** to go to the home page of Discovery Tool.

License Manager

Click the **License Manager** () button on the home page. The **License Manager** interface appears and displays the current license information in the **License Details** area. The **Status**, **Server Host/IP**, and **Expiration Time** of the current license are displayed.

If the current license has expired or does not work, you can apply a new license. A license is required the first time you run this tool. Refer to the following steps to apply a license.

1. In the **License Manager** interface, click **Browse**.
2. Select a new license file and click **Open**.
3. The details of the new license are displayed.
4. Click **Apply** to apply the license or click **Cancel** to cancel the changes.

Proxy Setting

Proxy setting allows you to configure the Discovery Tool for cases where it needs to connect to sites outside of the current server's network when scanning SharePoint Online environments. To access the proxy settings, in the SharePoint Online Discovery Tool, click **Proxy Setting** on the home page. The **Proxy Setting** page appears. By default, the **No Proxy** option is selected. To change the proxy settings, follow the steps below:

1. Select the **HTTP Proxy** option.
2. Enter the following information:
 - **Proxy host** – The hostname or IP address of the proxy server.
 - **Proxy port** – The port used to access the proxy server.
 - **Username** – The username to log into the proxy server.
 - **Password** – The password to access the proxy server.
3. Click **Save** to save the proxy settings.

User Guide

Click **User Guide** on the home page. The *AvePoint Discovery Tool User Guide* will be opened. You can view detailed information on Discovery Tool in the guide.

About Me

Click **About Me** on the home page. The detailed information on the Discovery Tool version is displayed in the pop-up window.

Running the Tool Using Command Prompt

In the **bin** folder of the Discovery Tool folder, you can also find the **SP2007AndSP2010DiscoveryToolCMD.exe** (for SharePoint 2007 and SharePoint 2010), **SP2013DiscoveryToolCMD.exe**, **SP2016DiscoveryToolCMD.exe**, and **SPOnlineDiscoveryToolCMD.exe** files. These files can be used by Command Prompt to run the Discovery Tool without having to open the tool interface.

Complete the following steps to run the Discovery Tool using Command Prompt for SharePoint 2007/2010/2013/2016:

1. On one of the Web front-end servers of a SharePoint 2007, 2010, 2013, or 2016 farm, open Command Prompt.
***Note:** Make sure the user who opens Command Prompt is a member of the local **Administrators** group on the server.
2. Enter the full URL of the **SP2007AndSP2010DiscoveryToolCMD.exe**, **SP2013DiscoveryToolCMD.exe**, or **SP2016DiscoveryToolCMD.exe** file, and press **Enter** on the keyboard.
3. The usage information appears as the screenshot shown below:

```
Usage: SP2013DiscoveryToolCMD
-cd : Content Discovery
      -if: Scan Web applications or site collections configured in the customized
XML file.
      -url webapp: Scan the entered web application.
      -url : Scan the entered site collection.
      -m: Discovery Mode
           br: SharePoint Data Basic Report
           ar: SharePoint Data Advanced Report
Example - Discover data for SharePoint Data Advanced Report:
SP2013DiscoveryToolCMD -cd -if "<Customized XML File Path>" -m ar
SP2013DiscoveryToolCMD -cd -url webapp "<Web Application URL>" -m ar
SP2013DiscoveryToolCMD -cd -url "<Site Collection URL>" -m ar
-rg: Report Generation
      -rf: Report Location
Example - Generate SharePoint Data Report:
SP2013DiscoveryToolCMD -rg -rf "Report Location Path"
```

Figure 6: The usage information of SP2013DiscoveryToolCMD.exe.

4. The first section shows the commands to perform a content discovery.
 - **-cd** – Use this command to perform a content discovery.
 - **-if "Customized XML File Path"** – Use this command to scan site collections in bulk. Replace **Customized XML File Path** with the full URL of the XML file where the site collections you want to scan are configured.

By default, you can find the **TreeSample.xml** file in the `...\data\DiscoveryTool` directory of the Discovery Tool folder. You can configure Web applications and/or site collections in the file.

```

<DiscoveryToolSettings>
  <TreeRoot>
    <WebApplications>
      i <WebApplication url="http://SharePointWebApplication" />
      <WebApplication>
        <SiteCollections>
          ii <SiteCollection url="http://SharePoint/sites/DatabaseSite">
            </SiteCollection>
          </SiteCollections>
        </WebApplication>
      </WebApplications>
    </TreeRoot>
  </DiscoveryToolSettings>

```

Figure 7: The TreeSample.xml file.

- i. The node used to configure Web application URL.
- ii. The node used to configure site collection URL.

***Note:** If the URL of a Web application is configured in the XML file, all site collections under the Web application will be scanned.

- `-url webapp "Web Application URL"` – Use this command to scan a single Web application. Replace **Web Application URL** with the full URL of the Web application that you want to scan.
- `-url "Site Collection URL"` – Use this command to scan a single site collection. Replace **Site Collection URL** with the full URL of the site collection that you want to scan.
- `-m` – Use this command to select the discovery mode.
 - `br` means the SharePoint Data Basic Report.
 - `ar` means the SharePoint Data Advanced Report.

Example:

- To scan site collections in bulk, enter the following commands after configuring the URLs of Web applications and/or site collections in an XML file:

```
SP2013DiscoveryToolCMD -cd -if "Customized XML File Path" -m br
```

or

```
SP2013DiscoveryToolCMD -cd -if "Customized XML File Path" -m ar
```

- To scan a single Web application, enter the following commands:

```
SP2013DiscoveryToolCMD -cd -url webapp "Web Application URL" -m br
```

or

```
SP2013DiscoveryToolCMD -cd -url webapp "Web Application URL" -m ar
```

- To scan a single site collection, enter the following commands:

```
SP2013DiscoveryToolCMD -cd -url "Site Collection URL" -m br
```

or

```
SP2013DiscoveryToolCMD -cd -url "Site Collection URL" -m ar
```

***Note:** If SQL Authentication is configured to use in the **CommandDiscoverSetting.xml** file, the password of the configured account is required after pressing **Enter** on the keyboard to execute the commands above.

5. When the following message appears in the window, it indicates that the content discovery job is successful: **The job is completed.**
6. The second section shows the commands to generate a SharePoint data report.
 - `-rg` – Use this command to generate the SharePoint data report.
 - `-rf "Report Location Path"` – Use this command to configure the storage location of the generated SharePoint data report.

Example:

To generate the SharePoint data report, enter the following commands after performing the content discovery:

```
SP2013DiscoveryToolCMD -rg -rf "Report Location Path"
```

7. When the following message appears in the window, it indicates that the report generation job is successful: **The job is completed.**

Complete the following steps to run the Discovery Tool using Command Prompt for SharePoint Online:

1. On a server with network connection, open the Command Prompt.

***Note:** Make sure the user who opens Command Prompt is a member of the local **Administrators** group on the server.
2. Enter the full URL of the **SPOnlineDiscoveryToolCMD.exe** file, and press **Enter** on the keyboard.
3. The usage information appears as the screenshot shown below:

```

Usage: SPOnlineDiscoveryToolCMD
-cd: Content Discovery
    ol: SharePoint Online site collection
    od: OneDrive for Business
    -if: Scan SharePoint Online site collections or OneDrive for Business configured in the customized XML file.
    -url tenant: Scan SharePoint Online site collections or OneDrive for Business in the configured tenant.
    -url: Scan the entered SharePoint Online site collection or OneDrive for Business.
    -m: Discovery Mode
        br: SharePoint Data Basic Report
        ar: SharePoint Data Advanced Report
Example - Discover data for SharePoint Data Advanced Report:
SPOnlineDiscoveryToolCMD -cd ol -if "<Customized XML File Path>" -m ar
SPOnlineDiscoveryToolCMD -cd ol -url tenant "<SharePoint Admin Center URL>" -m ar
SPOnlineDiscoveryToolCMD -cd ol -url "<URL>" -m ar
-rg: Report Generation
-rf: Report Location
Example - Generate SharePoint Data Report:
SPOnlineDiscoveryToolCMD -rg -rf "Report Location Path"

```

Figure 8: The usage information of SPOnlineDiscoveryToolCMD.exe.

4. The first section shows the commands to perform a content discovery.
 - -cd – Use this command to perform a content discovery.
 - ol – means scanning SharePoint Online site collections.
 - od – means scanning OneDrive for Business.
 - -if "Customized XML File Path" – Use this command to scan SharePoint Online site collections or OneDrive for Business in bulk. Replace **Customized XML File Path** with the full URL of the XML file where the site collections or OneDrive for Business you want to scan are configured.

By default, you can find the **SPOnlineTreeSample.xml** file in the ...*data\SPOnlineDiscoveryTool* directory of the Discovery Tool folder. You can configure SharePoint Online site collections or OneDrive for Business in the file.

```

<DiscoveryToolSettings>
  <TreeRoot>
    <Tenants>
      <Tenant>
        <SiteCollections>
          <SiteCollection url="https://SharePointOnlineSiteCollection"/>
          <SiteCollection url="https://OneDriveforBusiness"/>
        </SiteCollections>
      </Tenant>
    </Tenants>
  </TreeRoot>
</DiscoveryToolSettings>

```

Figure 9: The SPOnlineTreeSample.xml file.

The **<SiteCollection url=" " />** node is used to configure the SharePoint Online site collections or OneDrive for Business that you want to scan. Enter the URL of each SharePoint Online site collection or OneDrive for Business as the **url=" "** parameter value.

- `-url tenant "SharePoint Admin Center URL"` – Use this command to scan all SharePoint Online site collections or OneDrive for Business in a tenant. Replace **SharePoint Admin Center URL** with the SharePoint admin center URL of the tenant that you want to scan.
- `-url "URL"` – Use this command to scan a single SharePoint Online site collection or OneDrive for Business. Replace **URL** with the URL of the site collection or OneDrive for Business that you want to scan.
- `-m` – Use this command to select the discovery mode.
 - `br` means the SharePoint Data Basic Report.
 - `ar` means the SharePoint Data Advanced Report.

Example:

- To scan SharePoint Online site collections in bulk, enter the following commands after configuring the URLs of site collections in an XML file:

```
SPOnlineDiscoveryToolCMD -cd ol -if "Customized XML File Path" -m br
```

or

```
SPOnlineDiscoveryToolCMD -cd ol -if "Customized XML File Path" -m ar
```

To scan OneDrive for Business in bulk, enter the following commands after configuring the URLs of OneDrive for Business in an XML file:

```
SPOnlineDiscoveryToolCMD -cd od -if "Customized XML File Path" -m br
```

or

```
SP2013DiscoveryToolCMD -cd od -if "Customized XML File Path" -m ar
```

- To scan SharePoint Online site collections in a tenant, enter the following commands:

```
SPOnlineDiscoveryToolCMD -cd ol -url tenant "SharePoint Admin Center URL" -m br
```

or

```
SPOnlineDiscoveryToolCMD -cd ol -url tenant "SharePoint Admin Center URL" -m ar
```

To scan OneDrive for Business in a tenant, enter the following commands:

```
SPOnlineDiscoveryToolCMD -cd od -url tenant "SharePoint Admin Center URL" -m br
```

or

```
SPOnlineDiscoveryToolCMD -cd od -url tenant "SharePoint Admin Center URL" -m ar
```


- To scan a single SharePoint Online site collection, enter the following commands:

```
SPOnlineDiscoveryToolCMD -cd ol -url "URL" -m br
```

or

```
SPOnlineDiscoveryToolCMD -cd ol -url "URL" -m ar
```

To scan a OneDrive for Business object, enter the following commands:

```
SPOnlineDiscoveryToolCMD -cd od -url "URL" -m br
```

or

```
SPOnlineDiscoveryToolCMD -cd od -url "URL" -m ar
```

***Note:** If SQL Authentication is configured to use in the **SPOnlineCommandDiscoverSetting.xml** file, the password of the configured account is required after pressing **Enter** on the keyboard to execute the commands above.

5. When the following message appears in the window, it indicates that the content discovery job is successful: **The job is completed.**
6. The second section shows the commands to generate a SharePoint data report.
 - `-rg` – Use this command to generate the SharePoint data report.
 - `-rf "Report Location Path"` – Use this command to configure the storage location of the generated SharePoint data report.

Example:

To generate the SharePoint data report, enter the following commands after performing the content discovery:

```
SPOnlineDiscoveryToolCMD -rg -rf "Report Location Path"
```

7. When the following message appears in the window, it indicates that the report generation job is successful: **The job is completed.**

Configuring Content Discovery Settings

Before running the Content Discovery job, you can define which types of additional information to collect in the SharePoint Data Advanced Report and configure the database used to store the collected data.

1. In the Discovery Tool folder, find the **CommandDiscoverSetting.xml** file in the `...\data\DiscoveryTool` directory (for SharePoint 2007,2010,2013, or 2016) or the **SPOnlineCommandDiscoverSetting.xml** file in the `...\data\SPOnlineDiscoveryTool` directory.
2. Open the file with Notepad.

3. Configure the nodes in the file.

```
<DiscoverySetting>
  <ScanSetting>
    <CompleteMode
      IsAlertChecked="true"
      IsContentTypeChecked="true"
      IsLookupColumnChecked="true"
      IsColumnChecked="true"
      IsEventReceiverChecked="true"
      IsInfoPathChecked="true"
      IsManagedMetadataChecked="true"
      IsItemChecked="true"
      IsNintexFormChecked="true"
      IsNintexWorkflowChecked="false"
    />
  </ScanSetting>
  <!--
  Configure "Database" as the Type="" parameter value to store the collected data in a database.
  Configure "CSV" as the Type="" parameter value to generate reports of the collected data in the CSV format.
  -->
  <ReportSetting Type="Database">
    <CSVReportSetting ReportLocation="C:\Report" />
    <!--AuthenticationType, 0: Windows, 1: SQL-->
    <SQLReportSetting DatabaseServer="localhost" DatabaseName="DiscoveryTool" AuthenticationType="0" Account="" />
  </ReportSetting>
</DiscoverySetting>
```

Figure 10: The CommandDiscoverSetting.xml file.

Configure the following parameters to define which types of additional information to collect in the SharePoint Data Advanced Report. By default, these types of information will all be collected. If you want to collect data for the SharePoint Data Basic Report or collect all types of information in the SharePoint Data Advance Report, skip this section.

- **IsAlertChecked="true"** – This parameter is used to define whether to collect alert information.
- **IsContentTypeChecked="true"** – This parameter is used to define whether to collect content type information.
- **IsLookupColumnChecked="true"** – This parameter is used to define whether to collect Lookup column information.
- **IsColumnChecked="true"** – This parameter is used to define whether to collect column information.
- **IsEventReceiverChecked="true"** – This parameter is used to define whether to collect event receiver information.
- **IsInfoPathChecked="true"** – This parameter is used to define whether to collect InfoPath information.
- **IsManagedMetadataChecked="true"** – This parameter is used to define whether to collect Managed Metadata Service information.
- **IsItemChecked="true"** – This parameter is used to define whether to collect item information.

- **IsNintexFormChecked="true"** – This parameter is used to define whether to collect Nintex form information.
- **IsNintexWorkflowChecked="false"** – This parameter is used to define whether to collect Nintex workflow action information.

***Note:** To define whether or not additional information will be scanned and collected, refer to [Appendix A: Configuring Advanced Content Discovery Settings](#).

Configure **Database** or **CSV** as the **Type=" "** parameter value.

- **Database** – Configure **Database** as the parameter value to store the collected data in a database. Configure the following parameters to configure the database used to store the collected data:
 - **DatabaseServer="localhost"** – This parameter is used to configure the database server where the database you want to store data locates. Replace **localhost** with the IP address or name of the database server.
 - **DatabaseName="DiscoveryTool"** – This parameter is used to configure the database where you want to store data. Replace **DiscoveryTool** with a desired database name. The default database name is **DiscoveryTool** (for SharePoint 2007, 2010, 2013, or 2016) or **DiscoveryToolOnline**. If the database does not exist in the database server, it will be automatically created.
 - **AuthenticationType="0"** – This parameter is used to configure the authentication mode that will be used to connect to the database. **0** represents Windows Authentication, and **1** represents SQL Authentication.
 - **Account=" "** – This parameter is used to configure the account name when SQL Authentication is selected to be used.
- **CSV** – Configure **CSV** as the parameter value to generate reports of the collected data in the CSV format without storing the data in a database. Configure the storage location of the generated SharePoint data reports as the **ReportLocation=" "** parameter value.

4. Save changes to the file and close it.

Configuring Report Generation Settings

Before you run the Report Generation job, you can configure the database from where data will be retrieved to generate reports and select which types of information you want to include in the report.

1. In the Discovery Tool folder, find the **CommandGenerateReportSetting.xml** file in the `...\data\DiscoveryTool` directory (for SharePoint 2007, 2010, 2013, or 2016) or

SPOnlineCommandGenerateReportSetting.xml file in the ...*data\SPOnlineDiscoveryTool* directory.

2. Open the file with Notepad.
3. Configure the nodes in the file.

```
<GenerateReportSetting>
  <!--AuthenticationType, 0: Windows, 1: SQL-->
  <SQLReportSetting DatabaseServer="localhost" DatabaseName="DiscoveryTool" AuthenticationType="0" Account="" />
  <ExportTypeSelectionSettings>
    <GeneralStatisticsSettings
      FarmOverviewChecked="true"
      FarmTopologyChecked ="true"
      SiteCollectionInformationChecked ="true"
      SiteInformationChecked ="true"
      DataOverviewChecked ="true"
      ListInformationChecked="true"
      CheckOutFilesChecked = "true"
      LongPathChecked ="true"
      UrlLength="255" />
    <ConfigurationAndSecuritySettings
      LookupColumnChecked ="true"
      WorkflowChecked ="true"
      NintexFormChecked="true"
      UsersChecked ="true"
      GroupChecked ="true"
      PageInfoChecked ="true"
      PageLayoutChecked ="true"
      WebPartChecked ="true"
      UnSupportChecked ="true"
      InfoPathChecked ="true"
      ManagedMetadataChecked ="true"
      ContentTypeChecked="true" />
    <FeaturesAndSolutionSettings
      FeatureChecked="true"
      SolutionArchitectureChecked ="true" />
  </ExportTypeSelectionSettings>
</GenerateReportSetting>
```

Figure 11: The CommandGenerateReportSetting.xml file.

Configure the following parameters to configure the database where data will be used to generate report:

- DatabaseServer="localhost"
- DatabaseName="DiscoveryTool"
- AuthenticationType="0"
- Account=" "

For detailed information, refer to step 3 in the [Configuring Content Discovery Settings](#) section.

Configure the following parameters to configure the general statistics settings. By default, all types of general statistics will be collected in the report.

- **FarmOverviewChecked="true"** (unavailable for SharePoint Online) – This parameter is used to define whether or not to collect the information on each Web application of the farm from the database.

- **FarmTopologyChecked="true"** (unavailable for SharePoint Online) – This parameter is used to define whether to collect the farm topology information from the database.
- **SiteCollectionInformationChecked="true"** – This parameter is used to define whether to collect the site collection information from the database.
- **SiteInformationChecked="true"** – This parameter is used to define whether to collect all of the site information from the database.
- **DataOverviewChecked="true"** – This parameter is used to define whether to collect the top 20 site collections with certain objects.
- **ListInformationChecked="true"** – This parameter is used to define whether to collect the lists information from the database.
- **CheckOutFilesChecked="true"** – This parameter is used to define whether or not to collect the checked out files information from the database.
- **LongPathChecked="true"** – This parameter is used to define whether to collect the information on the objects whose URLs exceed the configured limitation.
- **UrlLength="255"** – This parameter is used to define the limitation of characters in object URLs. The default value is **255**.

Configure the following parameters to configure what types of configuration information to collect. By default, all types of information below will be collected in the report.

- **LookupColumnChecked="true"** – This parameter is used to define whether to collect all of the Lookup column information from the database.
- **WorkflowChecked="true"** – This parameter is used to define whether to collect all workflow information from the database.
- **NintexFormChecked="true"** – This parameter is used to define whether to collect the Nintex form information from the database.
- **UsersChecked="true"** – This parameter is used to define whether to collect the user information from the database.
- **GroupChecked="true"** – This parameter is used to define whether to collect the group information from the database.
- **PageInfoChecked="true"** – This parameter is used to define whether to collect all page information from the database.
- **PageLayoutChecked="true"** – This parameter is used to define whether to collect the page layout information from the database.
- **WebPartChecked="true"** – This parameter is used to define whether to collect the Web part information from the database.

- **UnSupportChecked="true"** – This parameter is used to define whether to collect the information on containers and settings that are not supported being migrated by SharePoint Migration from the database.
- **InfoPathChecked="true"** – This parameter is used to define whether to collect the InfoPath information from the database.
- **ManagedMetadataChecked="true"** – This parameter is used to define whether to collect the Managed Metadata Service information from the database.
- **ContentTypeChecked="true"** – This parameter is used to define whether to collect the content type information from the database.

Configure the following parameters to configure what type of customized information to be collected in the report. By default, the customized information below will be collected.

- **FeatureChecked="true"** – This parameter is used to define whether to collect the information on the features that are customized and activated.
- **SolutionArchitectureChecked="true"** – This parameter is used to define whether to collect the information on the solutions that have been added to SharePoint.

4. Save changes to the file and close it.

Configuring Power BI Template to View Reports

If you want to view the scanning results of the SharePoint 2007/2010/2013/2016 data in the Power BI template, complete the following settings:

1. In the **Documents** folder of the Discovery Tool folder, find the **Discovery_Tool_PowerBI_Template_SP_On_Premises.pbix** file and open it.
2. Press **ESC** on the keyboard and cancel all of the settings related to connect to the databases.
3. Navigate to **Edit Queries > Data source settings** and click **Change Source...** to change the data source.
4. Configure the SQL Server database settings.
 - **Server** – Enter the server configured for the Discovery Tool.
 - **Database** – Enter the database used for the Discovery Tool.Click **OK** to exit the current page and click **Close** to close the **Data source settings** page.
5. Click **Apply Changes** and enter the database credentials configured for the database.
6. Click **Apply** to load the data.
7. After loading the data, click **Fields** on the right navigation. Right-click the **List Template Reference**, **Site Template Reference**, **Calendar**, and **Common File Extension** tables and click **Refresh data** to update the data.
8. Then, you can view the report in the Power BI template.

Appendix A: Configuring Advanced Content Discovery Settings

To define whether additional information will be scanned and collected, follow the instructions below:

1. In the Discovery Tool folder, find the **ReportSetting.xml** file in the ...*data*\DiscoveryTool directory (for SharePoint 2007, 2010, 2013, or 2016) or **SPOnlineReportSetting.xml** file in the ...*data*\SPOnlineDiscoveryTool directory.
2. Open the file with Notepad.
3. Find the **<ReportSetting .../>** node in the file.
4. Configure the following parameters to define which types of additional information to scan and collect:
 - **EnablePerformanceLog="false"** – By default, performance logs are not generated. To generate performance logs for jobs, change the value of this parameter to **true**.
 - **SkipUsersAndGroups="false"** (Unavailable for SharePoint Online) – By default, users and groups in the selected node are scanned. To skip scanning users and groups in the selected node, change the value of this parameter to **true**.
 - **IncludeFullControlInfo="false"** (Only available for SharePoint Online) – By default, the information of users or groups with the Full Control permission is not collected. To collect the information of users or groups with the Full Control permission, change the value of this parameter to **true**.
 - **IncludeLastModifiedTimeInfo="false"** – By default, the last modified time of sites is not collected. To collect the last modified time of sites, change the value of this parameter to **true**.
 - **ScanUniquePermissionUser="false"** (Unavailable for SharePoint Online) – By default, the information of users and groups in sites/lists with unique permissions is not collected. To collect the information of users or groups in sites/lists with unique permissions, change the value of this parameter to **true**.
 - **ScanItemsVersionCount="true"** – By default, versions of items are collected. To disable collecting the item versions, change the value of this parameter to **false**.
 - **ScanItemLastAccessTime="true"** (Unavailable for SharePoint Online) – By default, the last accessed time for site collections, sites, lists, and items is collected. To disable collecting the last accessed time for all of these, change the value of this parameter to **false**.
 - **GenerateReportForFailedItems="true"** (Unavailable for SharePoint Online) – By default, information of items that are failed to be scanned is collected and

displayed in a TXT file in the **Logs** folder. To disable collecting the information of failed items in the log, change the value of this parameter to **false**.

- **ScanItemModifiedByAndCreatedByAndContentTypeId="true"** (Unavailable for SharePoint Online) – By default, Modified By, Created By, and Content Type ID of an item are collected. To disable collecting information, change the value of this parameter to **false**.
- **ScanningWorkflowInstance="false"** (Only available for SharePoint Online) – By default, workflow instances are not collected. To enable collecting the workflow instances, change the value of this parameter to **true**.
- **SkipHiddenList="true"** – By default, the information of hidden lists is not collected. To collect the information of hidden list, change the value of this parameter to **false**.
- **UrlLengthWarning="255"** – Enter a value to define the maximum length of URL. If any URL of a scanned object exceeds the maximum value, the **UrlLengthWarningInformation.csv** report will be generated to collect the information of the URL. The default value is **255**.

5. Save the changes to the file and close it.

Appendix B: Report Details

Refer to the following sections for report details:

SharePoint Data Report (Excel Format)

In the report location, you can find the SharePoint data report with the name you configured in the **Report Generation** step. The default name of the report is

DiscoveryToolReport_DateTime. For example, **DiscoveryToolReport_20170422134832**. The report collects the information you selected in the **Report Type** step.

- **Data Overview** – This report shows the URLs of the top 20 site collections with certain objects and the corresponding numbers of the objects in the site collections.
- **Farm Overview** (unavailable for SharePoint Online) – This report shows information of each Web application in the farm and provides three charts to show the number of content databases, site collections, and total size.
- **Farm Topology** (unavailable for SharePoint Online) – This report shows the server information of the farm.
- **Site Collection Information** – This report shows the number of site collections in each migration difficulty level and the information of each site collection.
- **MySite Information** – This report shows the total number of MySites and the information of each MySite.
- **Site Information** – This report shows the information of each site.
- **List Information** – This report shows the number of lists and information of each list.
- **Checked Out File Information** – This report shows the information of each checked out file.
- **Lookup Column Information** – This report shows the information of each Lookup column.
- **Feature Information** – This report shows the number of customized features and the information of each feature that is customized and activated.
- **Workflow Information** – This report shows the information of each workflow.
- **Nintex Form Information** – This report shows the information of Nintex forms.
- **URL Length Warning** – This report shows information of the object whose URL exceeds the maximum value.
- **User Information** – This report shows the number of users and the information of each user.

- **Group Information** – This report shows the number of groups and the information of each group.
 - **Unsupported** – This report shows information of objects that are not supported being migrated by SharePoint Migration from the database.
 - **Web Part Information** – This report shows the number of Web parts and the information of each Web part.
 - **InfoPath Information** – This report shows the InfoPath information.
 - **MMS Information** – This report shows the Managed Metadata Service information.
 - **Solution Information** – This report shows the corresponding solution of each Web application.
 - **Master Page and Page Layout** – This report shows the number of customized master pages/page layouts, the number of site collections, and information of each master page or page layout.
 - **Page Information** – This report shows the number and information of pages.
 - **Special Pages with Scripts** (unavailable for SharePoint Online) – This report shows the information of special pages that have Content Editor Web parts containing JavaScript.
- *Note:** To generate this report, make sure the **Page Information** checkbox is selected when configuring settings for the SharePoint Data Report using the **Report Generation** function.
- **Content Type Information** – This report shows the number of customized content types and the information of each content type.

Refer to the following table for detailed information on SharePoint 2007, 2010, 2013, and 2016 reports.

Tab Name	Content (Column Name)
Data Overview	URL, Count
Farm Overview	SharePoint Version Web Application Name, Number of Content Databases, Number of Site Collections, Total Size (GB)
Farm Topology	Server, Service, Status
Site Collection Information	Migration Difficulty, Site Collection Size (GB), Number of Items (Including Versions) Web Application Name, Web Application URL, Site Collection URL, Number of Sites, Total Size (GB, including content in the Recycle Bin), Number of Documents (Including Versions), Number of

Tab Name	Content (Column Name)
	Items (Including Versions), Number of Folders, Number of Attachments, Migration Difficulty, Number of Users, Number of Groups, Number of Customized Features, Number of Workflows, Number of Web Parts, Number of Customized Template Sites, No Activity Period (Day), Last Modified Time (UTC), Last Accessed Time (UTC), Primary Administrator, Secondary Administrator
MySite Information	Total Number of MySite Web Application Name, Web Application URL, Site Collection URL, Number of Sites, Total Size (GB, including content in the Recycle Bin), Number of Documents (Including Versions), Number of Items (Including Versions), Number of Folders, Number of Attachments, Number of Users, Number of Groups, Number of Customized Features, Number of Workflows, Number of Web Parts, Number of Customized Template Sites, No Activity Period (Day), Last Modified Time (UTC), Last Accessed Time (UTC), Primary Administrator, Secondary Administrator
Site Information	Web Application URL, Site Collection URL, Site URL, Site Title, Level, Template, Is Customized Template, Number of Items (Including Versions), Number of Documents (Including Versions), Number of Folders, Number of Attachments, Total Size (GB, Including All Versions), Number of Users, Number of Groups, Number of Customized Features, Number of Web Parts, Last Accessed Time (UTC)
List Information	Number of Lists Parent Site ID, List URL, List Title, List ID, Item Count (Excluding Versions), Size (GB), Template Title, Template ID, Customization, Template Feature ID, Template Description, Template Category
Checked Out File Information	Site Collection URL, Path, File Name, Checked Out, UI Version, Version Count, Size (KB)
Lookup Column Information	Number of Lookup Columns Site URL, Scope, List Title, Column Name, Internal Name, Lookup Site URL, Lookup List Name, Lookup Field
Feature Information	Total Number of Customized Features Feature ID, Display Name, Root Directory, Solution Name
Workflow Information	Site Collection URL, URL, Workflow Name, Workflow Template, Number of Instances, Parent Object Name, Assembly, Classification, Actions, Action Type, Is Customized
Nintex Form Information	Scope URL, Content Type ID, Content Type Name, Form Control Type

Tab Name	Content (Column Name)
URL Length Warning	Web Application URL, Relative URL, URL Length
User Information	Total Number of Users, Number of Active Users, Number of Dead Users Display Name, Login Name, Type (AD/ADFS/FBA), Is Active
Group Information	Total Number of Groups Group Name, Type (AD/SP)
Unsupported	Object Type, Object URL, Object Name, Object ID, Classification, Feature ID
Web Part Information	Total Number of Customized Web Parts, Total Number of Unsupported Web Parts Site Collection URL, Web Part URL, Web Part ID, Type, Type ID, Zone, Classification, Migration to SharePoint On-Premises, Migration to SharePoint Online, Assembly, Web Part Location, Base Class, Template Name, Feature ID
InfoPath Information	Number of InfoPath Site Collection URL, Site URL, List URL, Content Type Name, List Title
MMS Information	Total Number of Terms Site URL, Term Store, Term Group, Site Collection Group, Term Set, Term Path, Term, Term ID
Solution Information	Deployed To, Deployment State, Solution Name
Master Page and Page Layout	Number of Customized Master Pages/Page Layouts, Number of Site Collections Site Collection URL, URL, Title, Associated Content Type Name, Setup Path, Is Customized, Modified By, Modified Time
Page Information	Total Number of Pages, Total Number of Customized Pages Site URL, Library Title, Page URL, Page Layout URL, Is Customized
Special Pages with Scripts	Total Number of Pages Site Collection ID, Site Collection URL, Page URL
Content Type Information	Number of Customized Content Types Site Collection URL, Site URL, Content Type Name, Is Customized

Refer to the following table for detailed information on SharePoint Online reports.

Tab Name	Content (Column Name)
Data Overview	URL, Count
Site Collection Information	Site Collection URL, Number of Sites, Size (GB), Number of Documents (Including Versions), Number of Items (Including

Tab Name	Content (Column Name)
	Versions), Number of Folders, Number of Attachments, Number of Users, Number of Groups, Number of Customized Features, Number of Workflows, Number of Web Parts, Number of Customized Template Sites, Primary Administrator, Site Administrators, SharePoint Version, No Activity Period (Day), Last Modified Time (UTC)
MySite Information	Total Number of MySite Site Collection URL, Number of Sites, Size (GB), Number of Documents (Including Versions), Number of Items (Including Versions), Number of Folders, Number of Attachments, Number of Users, Number of Groups, Number of Customized Features, Number of Workflows, Number of Web Parts, Number of Customized Template Sites, Primary Administrator, Site Administrators, SharePoint Version, No Activity Period (Day), Last Modified Time (UTC)
Site Information	Site Collection URL, Site URL, Site Title, Level, Template, Is Customized Template, Number of Items (Including Versions), Number of Documents (Including Versions), Number of Folders, Number of Attachments, Number of Users, Number of Groups, Number of Customized Features, Number of Web Parts
List Information	Number of Lists Parent Site ID, List URL, List Title, List ID, Item Count (Excluding Versions), Size (GB), Template Title, Template ID, Customization, Template Feature ID, Template Description, Template Category
Checked Out File Information	Site Collection URL, Path, File Name, Checked Out, UI Version, Version Count, Size (KB)
Lookup Column Information	Number of Lookup Columns Site URL, Scope, List Title, Column Name, Internal Name, Lookup Site URL, Lookup List Name, Lookup Field
User Information	Total Number of Users Display Name, Login Name, Type (AD/ADFS/FBA)
Group Information	Total Number of Groups Group Name, Type (AD/SP)
Feature Information	Total Number of Customized Features Feature ID, Display Name, Dependency ID
Web Part Information	Total Number of Customized Web Parts, Total Number of Unsupported Web Parts Site Collection URL, Web Part URL, Classification, Assembly, Template Name

Tab Name	Content (Column Name)
MMS Information	Total Number of Terms Site URL, Term Store, Term Group, Site Collection Group, Term Set, Term Path, Term, Term ID
Content Type Information	Number of Customized Content Types Site Collection URL, Site URL, Content Type Name, Is Customized
Workflow Information	Site Collection URL, URL, Workflow Name, Number of Instances, Parent Object Name, Classification, Actions, Action Type, Is Customized
Nintex Form Information	Scope URL, Content Type ID, Name, Form Control Type
Master Page and Page Layout	Number of Customized Master Pages/Page Layouts, Number of Site Collections Site Collection URL, URL, Title, Associated Content Type Name, Setup Path, Is Customized, Modified By, Modified Time
Page Information	Total Number of Pages, Total Number of Customized Pages Site URL, Library Title, Page URL, Page Layout URL, Is Customized
InfoPath Information	Number of InfoPath Site Collection URL, Site URL, List URL, Content Type Name, List Title
Solution Information	Deployed To, Deployment State, Solution Name
URL Length Warning	Relative URL, URL Length
Unsupported	Object Type, Object URL, Object Name, Object ID, Classification, Feature ID

The default name of the Storage Optimization Report is **Cost Saving Report.xlsx**. This report collects the data displayed in the **Report Generation** step when you click **Export**. In this report, the following information is displayed:

- **BLOB Storage** – The storage of the data in the database.
- **Size (Unit)** – The data size of each storage.
- **Cost** – The price of 1 GB data per year or month of each storage.
- **Before Externalization** – The cost of each storage before externalization.
- **After Externalization** – The cost of each storage after externalization.

SharePoint Data Reports (CSV Format)

In the report location you configured in the **Report Location** step, you can find the SharePoint data CSV reports folder. The folder name of the reports is **DiscoveryReport_DateTime** (for

example, **DiscoveryReport_20171211175254**) or **SPOnlineDiscoveryReport_DateTime** (for example, **SPOnlineDiscoveryReport_20171211175254**).

In the report folder, there is one report in the TXT format named **Summary** that collects the **Job ID, Start Time, Finish Time**, and **SharePoint Version** of the job, the Tool version, the number of each level of objects, and the total size of scanned objects.

In the report folder, there are three folders: **General Statistics Reports, Configuration, and Customization**.

General Statistics Reports

In the **General Statistics** folder, the following reports listed in the **File Name** column in the table can be generated depending on your configurations.

***Note:** The CSV file can be generated only when the type of data exists in the scanned scope.

Refer to the following table for detailed information on SharePoint 2007, 2010, 2013, and 2016 reports.

File Name	Content (Column Name)
ItemInformation.csv	Site Collection URL, Site Relative URL, List Title, Directory Name, Leaf Name, Item GUID, Item ID, Size (KB), Version Number, Checked Out, Checked Out User, Created Time, Created By, Last Modified Time, Last Modified By, Last Accessed Time, File Extension, Item Type, Content Type ID, Setup Path, Number of Versions, Total Size of All Versions (KB), Has Stream
ItemInformationSummary.csv	Site Collection URL, Site Relative URL, List Title, List Base Type, Number of Documents/Items, Number of Versions, Number of Folders, Number of Attachments, Total Size (MB)
ListInformation.csv	Site Collection URL, Site Relative URL, ID, URL, Title, Base Type, Template ID, Template Title, Customized, Template Feature ID, Number of Items (Excluding Versions), Number of Columns, Last Item Modified Date, Last Item Deleted Date, Last Accessed Time, Enable Versioning, Enable Minor Versions, Hidden, Allow Manage Content Types, On Quick Launch, Has Unique Permission, Enable Content Approval
SiteCollectionInformation.csv	Web Application URL, Content Database Name, URL, Size (GB), Number of Users, Primary Administrator, Secondary Administrator, Number of Groups, Last Modified Time, Last Accessed Time

File Name	Content (Column Name)
SiteInformation.csv	Site Collection ID, ID, Site URL, Site Title, Root Site, Theme, Last Modified Time, Last Accessed Time, Time Zone, Size (GB), Number of Users, Number of Groups, Created Time, Language, Parent Site ID, Site Template, Site Template ID, Configuration, Site Template Title, Master Page URL, Custom Master URL, Customized
UrlLengthWarningInformation.csv	Web Application URL, Relative URL, URL Length
WebApplicationInformation.csv	ID, Name, URL, Total Size (GB), Number of Site Collections, SharePoint Version

Refer to the following table for detailed information on SharePoint Online reports.

File Name	Content (Column Name)
ItemInformation.csv	Site Collection URL, Site Relative URL, List Title, Directory Name, Leaf Name, Item GUID, Item ID, Size (KB), Version Number, Checked Out, Checked Out User, Created Time, Created By, Last Modified Time, Last Modified By, File Extension, Item Type, Content Type ID, Setup Path, Number of Versions, Total Size of All Versions (KB), Has Stream
ItemInformationSummary.csv	Site Collection URL, Site Relative URL, List Title, List Base Type, Number of Documents/Items, Number of Versions, Number of Folders, Number of Attachments, Total Size (MB)
ListInformation.csv	Site Collection URL, Site Relative URL, ID, URL, Title, Base Type, Template ID, Template Title, Customized, Template Feature ID, Number of Items (Excluding Versions), Number of Columns, Last Item Modified Date, Last Item Deleted Date, Enable Versioning, Enable Minor Versions, Hidden, Allow Manage Content Types, On Quick Launch, Enable Content Approval
SiteCollectionInformation.csv	URL, Size (GB), Number of Users, Number of Groups, Primary Administrator, Last Modified Time
SiteInformation.csv	Site Collection ID, ID, URL, Site Title, Root Site, Theme, Last Modified Time, Number of Users, Number of Groups, Created Time, Language, Parent Site ID, Site Template, Site Template ID, Configuration, Site Template Title, Master Page URL, Custom Master URL, Customized
UrlLengthWarningInformation.csv	Relative URL, URL Length

Configuration Reports

In the **Configuration** folder, the following reports listed in the **File Name** column in the table can be generated depending on your configurations.

***Note:** The CSV file can be generated only when the type of data exists in the scanned scope.

Refer to the following table for detailed information on SharePoint 2007, 2010, 2013, and 2016 reports.

File Name	Content (Column Name)
AlertInformation.csv	ID, Site URL, List URL, Alert Title, Item Title with Alert, Type, Status, User Login Name, Template Name
UniquePermissionInfo.csv	Site Collection URL, Site URL, List Title, User/Group, Permission
GroupInformation.csv	Site Collection ID, ID, Site Collection URL, Title
LookupColumnInformation.csv	Site URL, Scope, List Title, Internal Name, Column Name, Lookup Site URL, Lookup List Name, Lookup Field
ManagedMetadataService.csv	Site Collection ID, Site Collection URL, Term Store, Term Group, Site Collection Group, Term Set, Term Path, Term, Term ID
PagesInformation.csv	Site Collection URL, Site Relative URL, List ID, ID, Library Title, Page URL, Page Layout URL
UserInformation.csv	Site Collection ID, Site Collection URL, ID, User/Group, Active, Type, Display Name, Domain Group
WorkflowInformation.csv	ID, Site URL, Scope URL, Workflow Type, Base ID, Workflow Name, Template, Task List Name, History List Name, Assembly, Classification, Number of Instances, List ID, Parent Object Name, Site Collection ID, Feature ID, Customized, Actions, Action Type

Refer to the following table for detailed information on SharePoint Online reports.

File Name	Content (Column Name)
AlertInformation.csv	ID, Site URL, List URL, Alert Title, Type, Status, User Login Name, Template Name
FullControllInformation.csv	Site Collection URL, Site ID, Site Relative URL, Display Name, Login Name, Member ID
GroupInformation.csv	Site Collection ID, ID, Site Collection URL, Title

File Name	Content (Column Name)
LookupColumnInformation.csv	Site URL, Scope, List Title, Internal Name, Column Name, Lookup Site URL, Lookup List Name, Lookup Field
ManagedMetadataService.csv	Site Collection ID, Site Collection URL, Term Store, Term Group, Site Collection Group, Term Set, Term Path, Term, Term ID
PagesInformation.csv	Site Collection URL, Site Relative URL, List ID, ID, Library Title, Page URL, Page Layout URL
UserInformation.csv	Site Collection ID, Site Collection URL, ID, Login Name, Type, Display Name, Domain Group, Is Site Collection Administrator
WorkflowInformation.csv	ID, Site URL, Scope URL, Workflow Type, Base ID, Workflow Name, Task List Name, History List Name, Classification, List ID, Parent Object Name, Site Collection ID, Feature ID, Customized, Actions, Action Type

Customization Reports

In the **Customization** folder, the following reports listed in the **File Name** column in the table can be generated depending upon your configurations.

***Note:** The CSV file can be generated only when the type of data exists in the scanned scope.

Refer to the following table for detailed information on reports for SharePoint 2007, 2010, 2013, and 2016.

File Name	Content (Column Name)
ColumnInformation.csv	Site Collection URL, Site Relative URL, List ID, ID, Scope URL, Internal Name, Display Name, Customized, Field Class, Type, Field Property
ContentTypeInformation.csv	Site URL, List ID, Content Type ID, Site Collection URL, Scope URL, Name, Customized, Feature ID
EventReceiverInformation.csv	ID, Site Collection URL, Site Relative URL, Type, Name, Scope ID, Item ID, Item Path, Item Name, Synchronization, Trigger Type, Sequence Number, Solution ID, Assembly, Class, Data, Filter
FeatureInformation.csv	Web Application ID, Site Collection ID, Site ID, ID, Scope URL, Name, Scope, Status, Solution Name, Root Directory, Customized

File Name	Content (Column Name)
InfoPathInformation.csv	Site Collection ID, Site ID, List ID, List URL, List Title, Content Type Name, Template Path, Display Form URL, Edit Form URL, New Form URL, Content Type Schema XML
MasterPageandPagelayout.csv	Site Collection ID, URL, Title, Associated Content Type Name, Page Path, Last Modified Time, Last Modified By, Customized
NintexFormInformation.csv	Site Collection ID, Site ID, List ID, Scope URL, Content Type ID, Content Type Name, Form Control Type
SolutionInformation.csv	ID, Name, Solution Type, Deployed To, Site Collection ID, Status, Has Assemblies, Signature
TemplateInformation.csv	Site Collection ID, Name, Title, Description, Location, Base Type, Category, Feature ID, ID, Site ID, List ID, Template Type
WebPartInformation.csv	Site Collection ID, Site ID, ID, Page ID, Page URL, Type, Type ID, Zone ID, Assembly, Web Part Location, Base Class, Template Name, Migration to SharePoint On-Premises, Migration to SharePoint Online, Feature ID

Refer to the following table for detailed information on SharePoint Online reports.

File Name	Content (Column Name)
ColumnInformation.csv	Site Collection URL, Site Relative URL, List ID, ID, Scope URL, Internal Name, Display Name, Type, Field Property
ContentTypeInformation.csv	Site Relative URL, List ID, Content Type ID, Site Collection URL, Scope URL, Name, Customized, Feature ID
EventReceiverInformation.csv	ID, Site Collection URL, Site Relative URL, List Title, Type, Name, Synchronization, Trigger Type, Sequence Number, Assembly, Class
FeatureInformation.csv	Site Collection ID, Site ID, ID, Scope URL, Name, Scope, Root Directory, Customized
InfoPathInformation.csv	Site Collection ID, Site ID, List ID, List URL, List Title, Content Type Name, Template Path, Display Form URL, Edit Form URL, New Form URL, Content Type Schema XML
MasterPageandPagelayout.csv	Site Collection ID, URL, Title, Associated Content Type Name, Page Path, Last Modified Time, Last Modified By, Customized
NintexFormInformation.csv	Site Collection ID, Site ID, List ID, Scope URL, Content Type ID, Content Type Name, Form Control Type
SolutionInformation.csv	ID, Name, Solution Type, Deployed To, Site Collection ID, Status, Has Assemblies, Signature

File Name	Content (Column Name)
TemplateInformation.csv	Site Collection ID, Name, Title, Description, Location, Base Type, Category, Feature ID, ID, Site ID, List ID, Template Type
WebPartInformation.csv	Site Collection ID, Site ID, Name, Page URL, Assembly, Classification, Setup Path, Template Name

Appendix C: Discovery Tool Database Schema

Refer to the following table to view the detailed information stored in the database for SharePoint 2007/2010/2013/2016.

Table Name	Column Name
AlertInfo	Id
	Title
	ItemTitle
	Type
	Status
	WebId
	ListURL
	UserLoginName
	TemplateName
	Message
ColumnInfo	Siteld
	WebId
	Setting
	Name
	Id
	FieldTypeClass
	InternalName
	TypeAsString
	ListId

Table Name	Column Name
	ScopeURL
	IsCustomized
	Message
ContentDatabaseInfo	WebApplicationId
	Id
	Name
	Version
	Size(GB)
	SiteCount
	Message
ContentTypeInfo	SiteUrl
	WebId
	ListId
	Id
	Name
	FeatureId
	ScopeURL
	Message
	Customized
EventReceiverInfo	Id
	Name

Table Name	Column Name
	SiteId
	WebId
	HostType
	HostId
	ItemId
	DirName
	LeafName
	Synchronization
	Type
	SequenceNumber
	SolutionId
	Assembly
	Class
	Data
	Filter
	Message
FeatureInfo	WebApplicationId
	SiteId
	WebId
	Id
	Name

Table Name	Column Name
	Scope
	ScopeURL
	Status
	Solution Id
	Solution Name
	RootDirectory
	Customized
	Message
GroupInfo	Siteld
	Id
	LoginName
	Message
InfoPathInfo	Siteld
	WebId
	ListId
	ListUrl
	ListTitle
	ContentTypeName
	DocumentTemplate
	DisplayFormUrl
	EditFormUrl

Table Name	Column Name
	NewFormUrl
	ContentTypeSchemaXml
	Message
ItemInfo	SiteId
	WebId
	ListId
	DirName
	LeafName
	DocId
	DocLibRowId
	Size
	UIVersion
	Level
	CheckoutUserId
	CreatedTime
	CreatedBy
	LastModifiedTime
	LastModifiedBy
LastAccessedTime	
Extension	
ItemType	

Table Name	Column Name
	FSObjType
	ContentTypeld
	SetupPath
	VersionCount
	AllVersionSize
	DocFlags
	HasStream
	ItemRealTotalSize
	Message
LastModifiedTimeInfo	Siteld
	WebId
	WebURL
	LastModifiedTime
	Message
ListInfo	Siteld
	WebId
	Id
	URL
	Title
	BaseType
	Templateld

Table Name	Column Name
	TemplateTitle
	Customized
	TemplateFeatureID
	TemplateDescription
	TemplateCategory
	ItemCount
	ColumnCount
	LastItemModifiedDate
	LastItemDeletedDate
	EnableVersioning
	EnableMinorVersions
	Hidden
	AllowContentTypes
	OnQuickLaunch
	EnableModeration
	Message
LookupColumnInfo	SiteUrl
	Scope
	ListTitle
	ColumnName
	InternalName

Table Name	Column Name
	LookupSiteURL
	LookupListName
	LookupField
ManagedMetadataInfo	SiteId
	SiteUrl
	TermStore
	TermGroup
	IsSiteCollectionGroup
	TermSet
	TermPath
	Term
	TermId
	Message
NintexFormInfo	SiteId
	WebId
	ListId
	ScopeURL
	ContentTypeId
	Name
	FormControlTypes
	Message

Table Name	Column Name
PageLayoutInfo	Siteld
	Page Layout URL
	Title
	Content Type Name
	SetupPath
	LastModifiedTime
	LastModifiedBy
	IsCustomized
	Message
PagesInfo	Siteld
	WebId
	ListId
	Id
	Library Title
	PageUrl
	Page Layout URL
	Message
PagesInfoWithScript	Siteld
	SiteCollectionUrl
	WebId
	ListId

Table Name	Column Name
	ListTemplate
	PageUrl
	Message
ServerInfo	Service
	Server
	Status
	Message
SiteInfo	WebApplicationId
	Databaseld
	Id
	URL
	Size(GB)
	RecycleSize(GB)
	UserCount
	PrimaryAdministratorId
	SecondaryAdministratorId
	GroupCount
	LastContentChange
	LastAccessedTime
	Message
SolutionInfo	Id

Table Name	Column Name
	Name
	DeploymentState
	DeployedTo
	SiteId
	Status
	HasAssemblies
	Signature
	Message
SummaryInformation	JobId
	ToolVersion
	SPVersion
	StartTime
	FinishedTime
	ItemTotalCount
	siteCount
	webCount
TemplateInfo	listCount
	SiteId
	Name
	Title
	Description

Table Name	Column Name
	Location
	BaseType
	Category
	FeatureId
	Id
	WebId
	ListId
	Scope
	Message
UniquePermissionInfo	SiteId
	WebId
	ListId
	MemberId
	Roles
	Message
UserInfo	SiteId
	Id
	LoginName
	IsActive
	Type
	DisplayName

Table Name	Column Name
	IsDomainGroup
	Message
WebApplicationInfo	Id
	Name
	URL
	TotalSize(GB)
	SharePointVersion
	Message
WebInfo	SiteId
	Id
	URL
	Title
	Rootsite
	Theme
	LastModifiedTime
	LastAccessedTime
	TimeZone
	TotalSize(GB)
	UserCount
	GroupCount
	CreatedTime

Table Name	Column Name
	LCID
	ParentWebId
	WebTemplate
	WebTemplateId
	Configuration
	WebTemplateTitle
	MasterUrl
	CustomMasterUrl
	Customized
	Message
WebpartInfo	SiteId
	WebId
	Id
	PageUrlId
	PageUrl
	Type
	TypeId
	ZoneId
	Assembly
	WebPartLocation
	BaseClass

Table Name	Column Name
	TemplateName
	Classification
	MigrationToOnPremise
	MigrationToSPOnline
	FeatureId
	Message
WorkflowInfo	Id
	WebId
	ScopeURL
	Type
	BaseId
	Name
	Template
	TaskListName
	HistoryListName
	Assembly
	Classification
	InstanceCount
	ListId
	ParentObjectName
SiteId	

Table Name	Column Name
	FeatureId
	Customized
	Actions
	ActionTypes
	Message

Refer to the following table for details about information stored in the database for SharePoint Online.

Table Name	Column Name
AlertInfo	Id
	Title
	Type
	Status
	WebId
	WebURL
	UserLoginName
	TemplateName
	Message
ColumnInfo	SiteId
	WebId
	Setting
	Name

Table Name	Column Name
	Id
	InternalName
	TypeAsString
	ListId
	ScopeURL
	Message
ContentTypeInfo	SiteUrl
	WebId
	ListId
	Id
	Name
	FeatureId
	ScopeURL
	Message
	Customized
EventReceiverInfo	Id
	Name
	SiteId
	WebId
	HostType
	Synchronization

Table Name	Column Name
	Type
	SequenceNumber
	Assembly
	Class
	Message
FeatureInfo	Siteld
	WebId
	Id
	Name
	Scope
	ScopeURL
	DependencyIds
	RootDirectory
	Customized
	Message
FullControlInfo	Siteld
	WebId
	MemberId
	Message
GroupInfo	Siteld
	Id

Table Name	Column Name
	LoginName
	Message
InfoPathInfo	Siteld
	WebId
	ListId
	ListUrl
	ListTitle
	ContentTypeName
	DocumentTemplate
	DisplayFormUrl
	EditFormUrl
	NewFormUrl
	ContentTypeSchemaXml
Message	
ItemInfo	Siteld
	WebId
	ListId
	DirName
	LeafName
	DocId
	DocLibRowId

Table Name	Column Name
	Size
	UIVersion
	Level
	CheckoutUserId
	CreatedTime
	CreatedBy
	LastModifiedTime
	LastModifiedBy
	Extension
	ItemType
	FSObjType
	SetupPath
	ContentType Id
	VersionCount
	AllVersionSize
	HasStream
	ItemRealTotalSize
	Message
LastModifiedTimeInfo	SiteId
	WebId
	WebURL

Table Name	Column Name
	LastModifiedTime
	Message
ListInfo	SiteId
	WebId
	Id
	URL
	Title
	BaseType
	TemplateId
	TemplateTitle
	Customized
	TemplateFeatureID
	TemplateDescription
	TemplateCategory
	ItemCount
	ColumnCount
	LastItemModifiedDate
	LastItemDeletedDate
	EnableVersioning
	EnableMinorVersions
	Hidden

Table Name	Column Name
	AllowContentTypes
	OnQuickLaunch
	EnableModeration
	Message
LookupColumnInfo	SiteUrl
	Scope
	ListTitle
	ColumnName
	InternalName
	LookupSiteURL
	LookupListName
	LookupField
ManagedMetadataInfo	SiteId
	SiteUrl
	TermStore
	DefaultLanguage
	WorkingLanguage
	TermGroup
	IsSiteCollectionGroup
	TermSet
	TermPath

Table Name	Column Name
	Term
	TermId
	Message
NintexFormInfo	Siteld
	WebId
	ListId
	ScopeURL
	ContentTypeId
	Name
	FormControlTypes
	Message
PageLayoutInfo	Siteld
	Page Layout URL
	Title
	Associated Content Type Name
	Content Type Name
	Compatible UI Version(s)
	SetupPath
	LastModifiedTime
	LastModifiedBy
	IsCustomized

Table Name	Column Name
	Message
PagesInfo	SiteId
	WebId
	ListId
	Id
	Library Title
	PageUrl
	Page Layout URL
	Message
SiteInfo	Id
	URL
	Size(GB)
	UserCount
	GroupCount
	PrimaryAdministratorId
	DocumentVersionCount
	ItemVersionCount
	LastContentChange
	SharePointVersion
	Message
SolutionInfo	Id

Table Name	Column Name
	Name
	DeploymentState
	DeployedTo
	SiteId
	Status
	HasAssemblies
	Signature
	Message
SummaryInformation	JobId
	ToolVersion
	SPVersion
	StartTime
	FinishedTime
	ItemTotalCount
	siteCount
	webCount
	listCount
TemplateInfo	SiteId
	Name
	Description
	Location

Table Name	Column Name
	BaseType
	Category
	FeatureId
	Id
	WebId
	Scope
	Message
UserInfo	SiteId
	Id
	LoginName
	Type
	DisplayName
	IsDomainGroup
	IsSiteAdmin
	Message
WebInfo	SiteId
	Id
	URL
	Rootsite
	Theme
	LastModifiedTime

Table Name	Column Name
	TimeZone
	UserCount
	GroupCount
	CreatedTime
	LCID
	ParentWebId
	WebTemplate
	WebTemplateId
	Configuration
	WebTemplateTitle
	MasterUrl
	CustomMasterUrl
	Customized
	Message
WebpartInfo	SiteId
	WebId
	PageUrl
	Assembly
	TemplateName
	Classification
	SetupPath

Table Name	Column Name
	Name
	Message
WorkflowInfo	Id
	WebId
	ScopeURL
	Type
	BaseId
	Name
	TaskListName
	HistoryListName
	ListId
	ParentObjectName
	SiteId
	FeatureId
	Classification
	Customized
	Actions
ActionTypes	
Message	
WorkflowInstanceInfo	SiteId
	WebId

Table Name	Column Name
	ListId
	ScopeURL
	DocId
	WorkflowDefinitionId
	Id
	Status
	InstanceCreated
	LastUpdated
	Message

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