

# Data Extract Utility

Last Modified on 10/22/2022 10:09 am CDT

**PATH:** *System Administration > Data Utilities > Data Extract Utility*

The Data Extract Utility provides an automated data extract tool for the purpose of transferring data via a flat file from Infinite Campus servers. This can be used to upload Campus data into third party software.

This article describes the following topics:

- [Data Extract Utility Set Up](#)
  - [Create a New Extract](#)
- [Set Up the Data Extract Tool Client to Utilize Pull Delivery Mode](#)
  - [Prerequisites](#)
  - [Configure the Data Extract Utility Client](#)
  - [Create a Windows Scheduled Task](#)
- [OneRoster CSV Extract Configuration](#)
- [Data Extract Zip Tool](#)
  - [Create Zip Tool Extract](#)
- [Data Extract History](#)

The screenshot displays the 'Data Extract Utility Set Up' configuration page. On the left is a navigation menu with 'Data Extract Utility' highlighted. The main area is divided into several sections:

- Data Extract Options Editor:** A table listing existing extracts with columns for Instance Name, Delivery Mode, Server, Frequency Scheduled, Extract Mode, Stopped, and Last Run.
- Detail Information:** Configuration fields for a new extract, including:
  - \*Extract Instance Name: FTPSAdhoc IE Week
  - \*File Name: FTPSAdhoc IE Week
  - File Extension: CSV (.csv)
  - Column Delimiter: None
  - Character Set: US-ASCII
  - Delivery Mode: SFTP (selected)
  - Append Date to Filename: No Date (selected)
  - \*Username: admin
  - \*Password: [masked]
  - \*Server: ADDE
  - Port: (Default SFTP=22)
  - Path: FTPSShare
  - Error Notification: [checkbox]
  - Use Data Warehouse Connection: [checkbox]
  - AdHoc Filter: 000-All-Users 057 Admin Support
- Data Extract Schedule:** Fields for Frequency (Weekly), Start Date (05/20/2020), Start Time (11:00 AM), and Day of Week (Monday).

*Data Extract Utility*

## Data Extract Utility Set Up

**PATH:** *System Administration > Data Utilities > Data Extract Utility > Data Extract Utility Set Up*

The Data Extract Utility Set Up tab allows users to create extracts to push data from Campus to a third party system. This can be used for food service programs, human resources software, or any other vendor software that may require information that is stored in Campus.

**Data Extract Utility Set Up** | Data Extract Zip Tool | Data Extract History

Save | Delete | New

| Extract Instance Name | Delivery Mode | Server | Frequency Scheduled            | Extract Mode | Stopped | Last Run  |
|-----------------------|---------------|--------|--------------------------------|--------------|---------|---|
| FTPSSAdhoc Edge Week  | ftps          | ADDEV  | weekly Monday 10/15/2018 11:00 | adhoc        | false   | Export ran successfully                               |
| FTPSSAdhoc FF Week    | ftps          | ADDEV  | weekly Monday 10/15/2018 11:00 | adhoc        | false   | Exception writing FTPSSAdhoc FF Week to remote system |
| FTPSSAdhoc IE Week    | ftps          | ADDEV  | weekly Monday 10/15/2018 11:00 | adhoc        | false   | Exception writing FTPSSAdhoc IE Week to remote system |
| FTPSSQL Chrome SSL    | ftps          | addev  |                                | sql          | false   | Exception writing FTPSSQL Chrome SSL to remote system |
| FTPSSQL Chrome TLS    | ftps          | addev  | daily 10/11/2018 11:00         | sql          | false   | Export ran successfully                               |
| FTPSSQL Edge SSL      | ftps          | ADDEV  |                                | sql          | false   | Exception writing FTPSSQL Edge SSL to remote system   |
| FTPSSQL Edge TLS      | ftps          | ADDEV  | daily 10/11/2018 11:00         | sql          | false   | Export ran successfully                               |
| FTPSSQL FF SSL        | ftps          | ADDEV  |                                | sql          | false   | Exception writing FTPSSQL FF SSL to remote system     |
| FTPSSQL FF TLS        | ftps          | ADDEV  | daily 10/11/2018 11:00         | sql          | false   | Export ran successfully                               |
| FTPSSQL IE SSL        | ftps          | ADDEV  |                                | sql          | false   | Exception writing FTPSSQL IE                          |

**Detail Information**

\*Extract Instance Name: FTPSSAdhoc IE Week

\*File Name: FTPSSAdhoc IE Week

File Extension: CSV (.csv)

Column Delimiter: None | Character Set: US-ASCII

\*Username: admin | Domain: [ ]

\*Server: ADDEV

Delivery Mode:  SMB  SFTP  FTPS  PULL

SSL:  TLS

Append Date to Filename:  No Date  yyyyymmdd  yyyyymmddhhmmssSS

Include header row?  | Include double quotes?

\*Password: [ ]

Port: (Default SFTP=22) [ ] | Path: FTPSShare

SQL:  Prism  AdHoc

AdHoc Filter: 000-All-Users:057 Admin Support

Buttons: Test Extract | Test Connection | Run Extract

Data Extract Schedule

Stop Automated Extract:

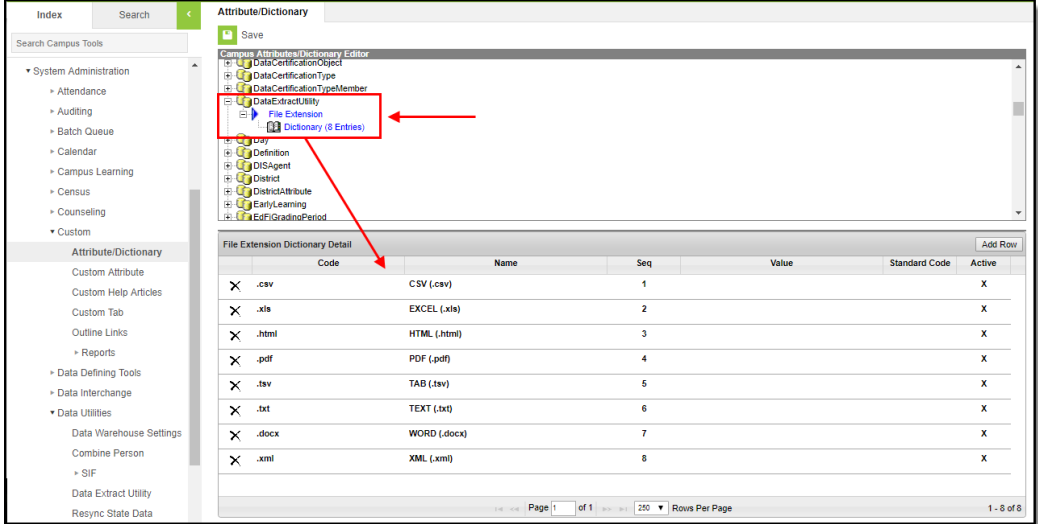
Frequency: Weekly | Start Date: 05/20/2020 | Start Time: 11:00 AM | Day of Week: Monday

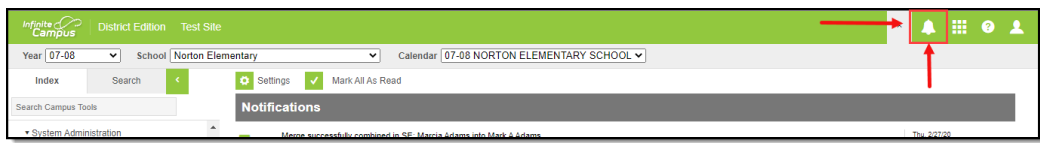
### Data Extract Set Up Editor

The following table provides definitions about the data elements available in the Data Extract Utility Editor.

| Field                        | Description              |
|------------------------------|--------------------------|
| <b>Extract Instance Name</b> | The name of the extract. |

| Field                                  | Description   |
|--|---|
| <b>Delivery Mode</b>                   | <p>Indicates how the extract will be delivered.</p> <ul style="list-style-type: none"> <li>• <b>SMB</b> - <i>Server Message Block</i>. This works with an operating system higher than Windows Xp; used in Windows networks to allow resources such as files on one machine to be shared on other machines as if they were local.</li> <li>• <b>SFTP</b> - <i>Secure File Transfer Protocol</i>. An encrypted form of file transfer between a local system and any system on the network.</li> <li>• <b>FTPS</b> - <i>File Transfer Protocol Secured</i>. An encrypted form of file transfer between a local system and any system on the network. This option also allows different encryption methods: <ul style="list-style-type: none"> <li>◦ <b>SSL</b> (Secure Sockets Layer)</li> <li>◦ <b>TLS</b> (Transport Layer Security)</li> </ul> </li> <li>• <b>PULL</b> - This option can be used in conjunction with the Export Wizard utility. This delivery mode allows for a separate client to be installed on a district server (not to be provided to third party vendors) and setup to pull the desired extract using https via a Windows Scheduled task. See the <a href="#">Pull Delivery Mode</a> section for information on using this option.</li> </ul> |
| <b>SFTP Key Exchange</b>               | <div style="background-color: #fff9c4; padding: 5px; margin-bottom: 10px;"> <p>Only applicable if the SFTP Delivery Mode is selected.</p> </div> <p>Indicates you want to use the SFTP Key Exchange for this extract.</p> <p>See the <a href="#">Data Extract Utility SFTP Key Exchange Manager</a> article for more information on this option and process.</p>  |
| <b>SFTP Key Exchange Configuration</b> | <div style="background-color: #fff9c4; padding: 5px; margin-bottom: 10px;"> <p>Only applicable if the SFTP Delivery Mode is selected and the SFTP Key Exchange checkbox is marked.</p> </div> <p>If a keypair has been properly configured and tested within the <a href="#">Data Extract Utility SFTP Key Exchange Manager</a>, select the key to be used for authenticating this extract.</p> <p>See the <a href="#">Data Extract Utility SFTP Key Exchange Manager</a> article for more information on this option and process.</p>  |
| <b>File Name</b>                       | <p>Name of the the file as it will appear in the destination folder. Often a third party tool needs/requires this file name.</p>  |

| Field                                     | Description  |      |       |               |        |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
|---|--|------|-------|---------------|--------|---------------|--------|--|------------|---|--|--|---|--|--------------|---|--|--|---|---|--------------|---|--|--|---|--|------------|---|--|--|---|--|------------|---|--|--|---|--|-------------|---|--|--|---|---|--------------|---|--|--|---|--|------------|---|--|--|---|
| <b>File Extension</b>                     | <p>Extension of the file.</p> <p>CSV, HTML, TAB, TXT, and custom file extensions can be added through the attribute dictionary.</p>  <p>The screenshot shows the 'Attribute Dictionary' editor. A red box highlights the 'File Extension' category in the left sidebar, and a red arrow points to the 'Dictionary (8 Entries)' link. Another red arrow points to the 'File Extension Dictionary Detail' table below, which lists the following entries:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> <th>Seq</th> <th>Value</th> <th>Standard Code</th> <th>Active</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> .csv</td> <td>CSV (.csv)</td> <td>1</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td><input checked="" type="checkbox"/> .xls</td> <td>EXCEL (.xls)</td> <td>2</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td><input checked="" type="checkbox"/> .html</td> <td>HTML (.html)</td> <td>3</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td><input checked="" type="checkbox"/> .pdf</td> <td>PDF (.pdf)</td> <td>4</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td><input checked="" type="checkbox"/> .tsv</td> <td>TAB (.tsv)</td> <td>5</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td><input checked="" type="checkbox"/> .txt</td> <td>TEXT (.txt)</td> <td>6</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td><input checked="" type="checkbox"/> .docx</td> <td>WORD (.docx)</td> <td>7</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td><input checked="" type="checkbox"/> .xml</td> <td>XML (.xml)</td> <td>8</td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table> | Code | Name  | Seq           | Value  | Standard Code | Active | <input checked="" type="checkbox"/> .csv | CSV (.csv) | 1 |  |  | X | <input checked="" type="checkbox"/> .xls | EXCEL (.xls) | 2 |  |  | X | <input checked="" type="checkbox"/> .html | HTML (.html) | 3 |  |  | X | <input checked="" type="checkbox"/> .pdf | PDF (.pdf) | 4 |  |  | X | <input checked="" type="checkbox"/> .tsv | TAB (.tsv) | 5 |  |  | X | <input checked="" type="checkbox"/> .txt | TEXT (.txt) | 6 |  |  | X | <input checked="" type="checkbox"/> .docx | WORD (.docx) | 7 |  |  | X | <input checked="" type="checkbox"/> .xml | XML (.xml) | 8 |  |  | X |
| Code                                      | Name   | Seq  | Value | Standard Code | Active |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <input checked="" type="checkbox"/> .csv  | CSV (.csv)   | 1    |       |               | X      |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <input checked="" type="checkbox"/> .xls  | EXCEL (.xls)   | 2    |       |               | X      |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <input checked="" type="checkbox"/> .html | HTML (.html)   | 3    |       |               | X      |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <input checked="" type="checkbox"/> .pdf  | PDF (.pdf)   | 4    |       |               | X      |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <input checked="" type="checkbox"/> .tsv  | TAB (.tsv)   | 5    |       |               | X      |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <input checked="" type="checkbox"/> .txt  | TEXT (.txt)  | 6    |       |               | X      |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <input checked="" type="checkbox"/> .docx | WORD (.docx)   | 7    |       |               | X      |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <input checked="" type="checkbox"/> .xml  | XML (.xml)   | 8    |       |               | X      |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <b>Column Delimiter</b>                   | <p>Indicates how data in the file will be divided. Options are:</p> <ul style="list-style-type: none"> <li>• <b>TAB</b> - Uses the tab character to separate each of the columns used for storing data.</li> <li>• <b>CSV</b> - Comma-separated values file is used for data structured in lists.</li> <li>• <b>Tilde (~)</b> - Uses the tilde character (~) to separate each of the columns in the file used for data storage</li> <li>• <b>Vertical Bar ( )</b> - Uses the vertical bar character ( ) to separate each of the columns in the file used for data storage.</li> </ul>  |      |       |               |        |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <b>Character Set</b>                      | <p>Select the character encoding standard used in the file.</p> <ul style="list-style-type: none"> <li>• <b>US-ASCII</b> - The American Standard Code for Information is a common character encoding standard for electronic communication.</li> <li>• <b>UTF-8</b> - The Unicode Transformation Format is a variable width character encoding capable of encoding all valid code points in Unicode using one to four 8-bit bytes.</li> </ul>  |      |       |               |        |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <b>Append Date to Filename</b>            | <p>When selected, includes a date in the file, so as not to overwrite an existing file. Choose the format of the date, either the normal date format of <i>yyyymmdd</i> or date and time format of <i>yyyymmddhhmmssSS</i>.</p>  |      |       |               |        |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <b>Include Header Row?</b>                | <p>When selected, indicates a header row will be included as part of the file.</p>   |      |       |               |        |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <b>Include Double Quotes?</b>             | <p>When selected, includes quotes around each piece of data in the column.</p>   |      |       |               |        |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <b>Username</b>                           | <p>Username used to access the destination server.</p>   |      |       |               |        |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |
| <b>Password</b>                           | <p>Password used to access the destination server.</p>   |      |       |               |        |               |        |  |            |   |  |  |   |  |              |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |  |            |   |  |  |   |  |             |   |  |  |   |   |              |   |  |  |   |  |            |   |  |  |   |

| Field                        | Description  |
|------------------------------|--|
| <b>Domain</b>                | The domain of the server connecting to and uploading data from the Data Extract Utility.   |
| <b>Server</b>                | The IP Address of the server connecting to and uploading data from the Data Extract Utility.   |
| <b>Port</b>                  | Indicates the Port value required to connect to the server. <ul style="list-style-type: none"> <li>• SFTP default = 22</li> <li>• FTPS default = 990</li> </ul>  |
| <b>Path</b>                  | The location on the destination server where the file will be written. This needs to be absolute path and include the /upload indicator.   |
| <b>Error Notification</b>    | If marked, any errors which occur will send a notification to the Notifications area of Infinite Campus (see below) to all users within the user group selected in the User Group to Notify dropdown list. <div data-bbox="379 801 1423 943" data-label="Image">  </div>   |
| <b>User Group to Notify</b>  | This group will be notified via a Notifications message if an error occurs while using the Data Extract Utility Set Up tool. You must have the Error Notification checkbox marked in order to utilize this functionality.  |
| <b>SQL/Prism</b>             | Provides a text area to enter a SQL query or Prism call. Choose the desired SQL or Prism radio button. <ul style="list-style-type: none"> <li>▪ If choosing <b>SQL</b>, enter the text of the query used to generate the file.</li> <li>▪ If choosing <b>Prism</b>, choose the prism call for a PDF report and add the prism information. This option requires a Firefox browser add-on of Convert Form Methods.</li> </ul>  |
| <b>Ad Hoc</b>                | If choosing <b>Ad hoc</b> , select any saved filter to which the user has rights. This option generates the same filter as in ad hoc and carries over same restrictions. It must complete in 5 minutes. When a user no longer has rights to a filter, the utility stops running on a schedule. <p>Ad hoc filters used by the Data Extract Utility are automatically scoped to data within the active year. This is the equivalent of running the ad hoc filter for the year marked as Active in <a href="#">School Year Setup</a>.</p> |
| <b>Use Data Warehouse</b>    | If district has Data Warehouse, use that database instead of the live database.  |
| <b>Ad hoc Filter</b>         | When the Ad hoc radio button is selected, this lists every filter available to the user.   |
| <b>Data Extract Schedule</b> | Lists the frequency, date, time and day of the week the extract runs. If this needs to stop for any reason, mark the Stop Automated Extract checkbox.  |

## Create a New Extract

The creation of new extracts should be done by technical administrators only.

1. Select the **New** icon. A **Detail Information** section will appear.
2. Enter the **Extract Instance Name**.
3. Choose the other necessary items for adding the extract by populating and marking the appropriate fields, as defined above.
4. Click the **Save** icon when finished. Additional modifications may be made to the extract to determine when the extract should be generated.

At this time, a user can select the available buttons to test the extract, test the connection to the database or run the extract by selecting one of the appropriate buttons. Extracts will display in a new window in the selected format.

- The **Test Extract** button generates the containing information requested by SQL or Ad hoc. Data is not written to the database or stored in any location.
- The **Test Connection** button checks the connection to the entered server by attempting to write a 1-byte file to the location setup. When it is successful, a pop-up displays indicating the connection is good; if it is not successful, it provides the reason the connection failed.
- The **Run Extract** button runs and generates the extract, sends and stores the file where needed (in case of an issue when it is an auto-run extract).

## Set Up the Data Extract Tool Client to Utilize Pull Delivery Mode

The Pull Delivery Mode allows users to pull data from Campus and export it to a predetermined destination. This section will walk you through the steps needed to properly configure and setup up the process for saving Data Extract reports to other machines via a Data Extract Utility Client.

This section includes the following topics:

- [Prerequisites](#)
- [Configure the Data Extract Utility Client](#)
- [Create a Windows Scheduled Task](#)

### Prerequisites

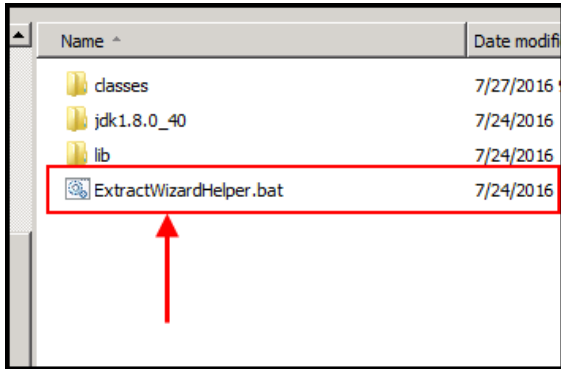
The following must be completed prior to setting up the Data Extract Utility Client:

- Extracts need to be created within the Data Extract Utility.
- Extracts within the Data Extract Utility need to be set to a Delivery Mode of PULL.

### Configure the Data Extract Utility Client

The following steps will walk you through configuring the Data Extract Utility Client:

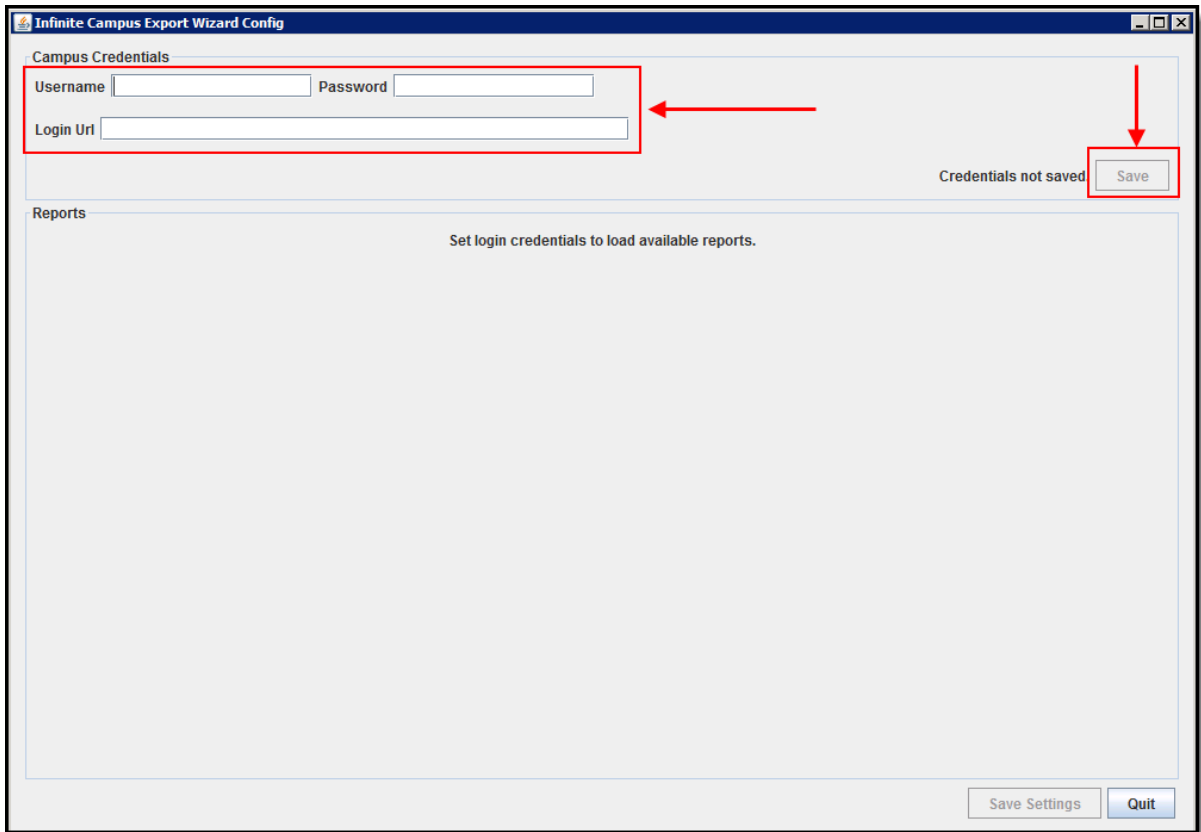
1. Download the [zip file](#) and extract it to the machine you would like data pulled onto.
2. Double-click the **ExtractWizardHelper.bat** file. The Infinite Campus Export Wizard Config tool will appear.



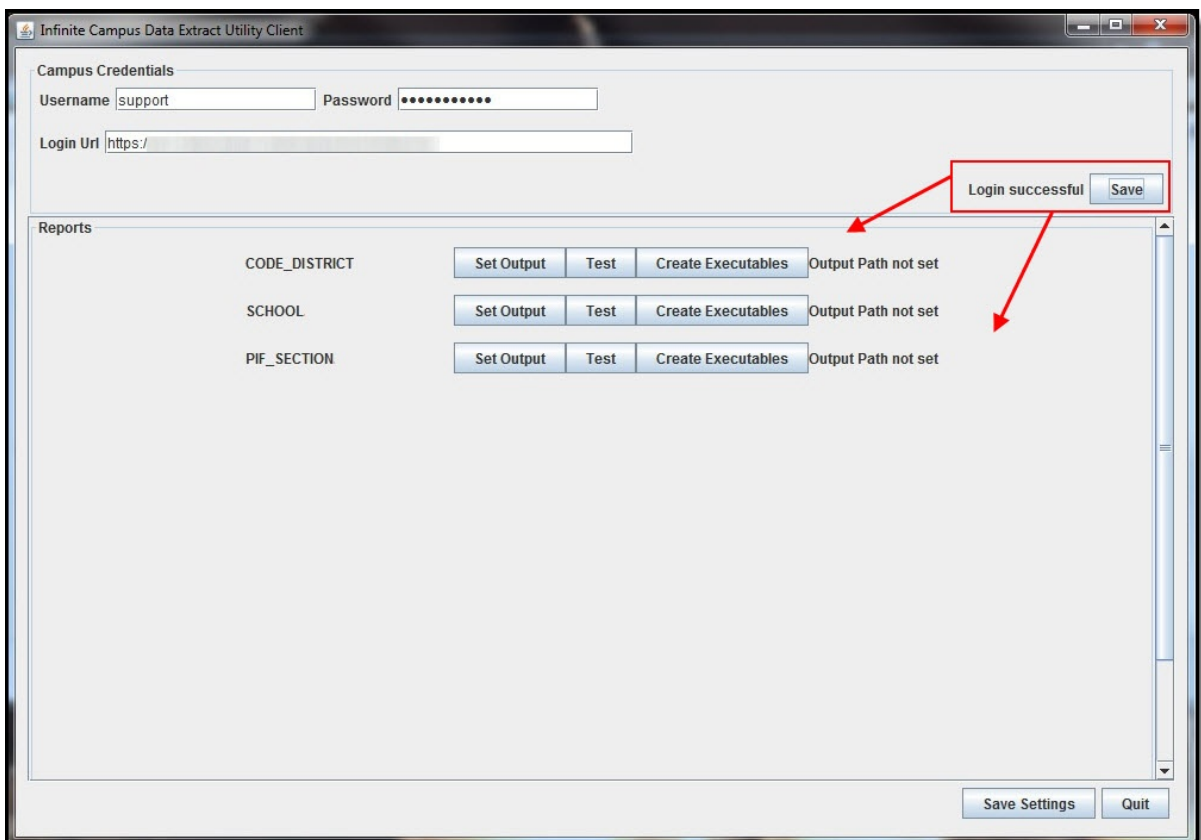
3. Enter the **Username**, Password, and **Login URL** (must be HTTPS) and click the **Save** button. Your Campus Username and Password are the values you should enter in these fields and the URL of your Campus login page is the value you must enter in the URL field.

**THE LOGIN URL MUST BE HTTPS**

Campus recommends you create a new user to pull extracts and give Campus login and Data Extract Utility tool rights to this user.



Once logged in, you will see the reports set up in the Data Extract Utility within Campus (see image below).





Only reports in the Data Extract Utility Set Up tool with a Delivery Mode of PULL can be configured to pull and report data via the Data Extract Utility Client. To modify existing reports to use HTTPS Pull, go to System Administration > Data Utilities > Data Extract Utility and update the Delivery Method to PULL (select image below).

You will need to quit and reopen the Data Extract Utility Client to see modifications made to reports.

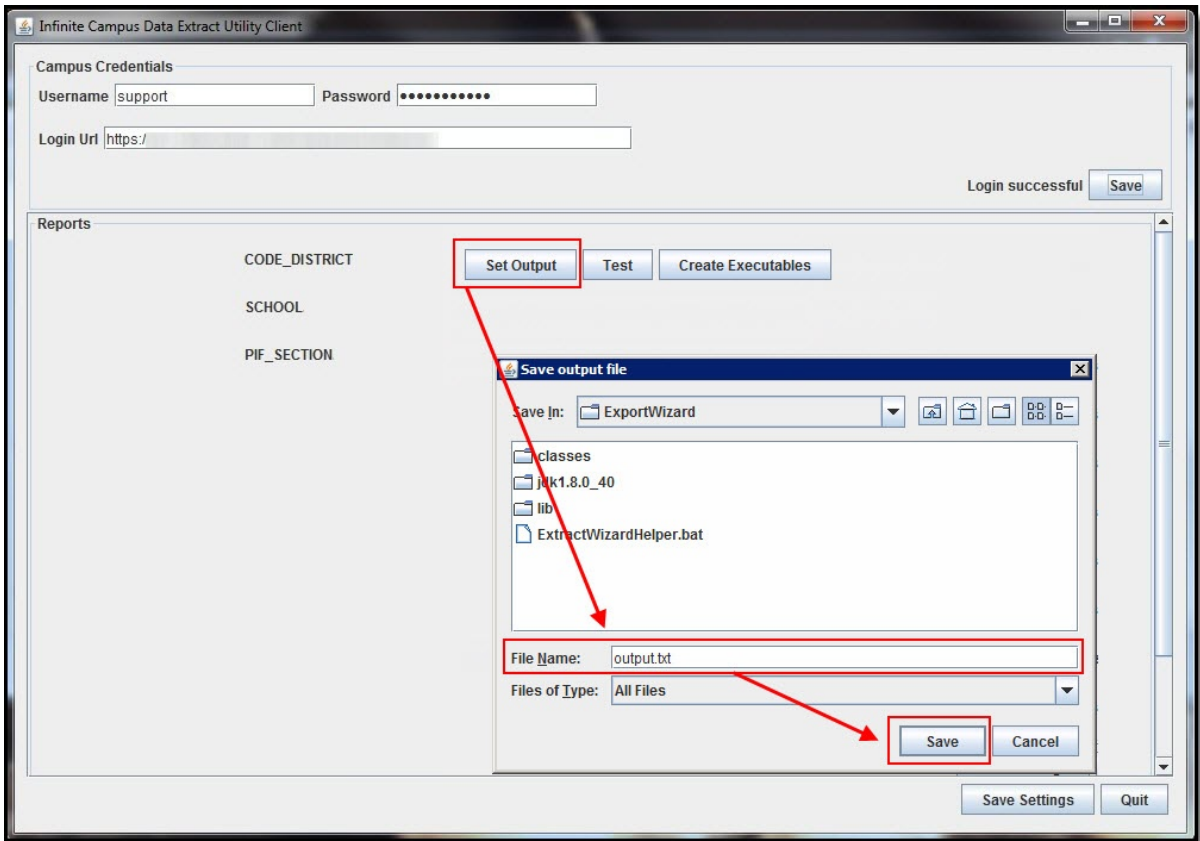
The screenshot shows the 'Data Extract Utility Set Up' interface. On the left is a navigation menu with 'Data Extract Utility' highlighted. The main area contains a table of reports and a configuration panel for the selected report 'bob'.

| Extract Instance Name | Delivery Mode | Server | Frequency Scheduled            | Extract Mode | Stopped | Last Run                 |
|-----------------------|---------------|--------|--------------------------------|--------------|---------|--------------------------|
| bob                   | httppull      |        |                                | sql          | false   | Export ran successfully  |
| Brook                 | sftp          |        |                                | sql          | false   | Export ran successfully  |
| Cabrillo              | ftps          |        |                                | sql          | false   | Export ran successfully  |
| DataExtract_46        | ftps          |        |                                | sql          | true    | Export ran successfully  |
| edinatest             | sftp          |        | weekly Sunday 09/30/2016 12:00 | sql          | false   | Export ran successfully  |
| Local SFTP            | sftp          |        |                                | sql          | true    | Auth fail                |
| Mesacon               | ftps          |        |                                | sql          | true    | Export ran successfully  |
| One-Roster District   | httppull      |        |                                | sql          | false   | Export ran successfully  |
| SFTPtest              | sftp          |        | daily 09/10/2014 11:15         | sql          | false   | Export ran successfully  |
| smblest               | smb           |        |                                | sql          | false   | Export ran successfully  |
| Standard              | ftps          |        |                                | sql          | true    | Export ran successfully  |
| Standard              | ftps          |        |                                | sql          | false   | Export ran successfully  |
| test                  | ftps          |        | weekly Friday 09/29/2016 12:14 | sql          | false   | Cannot connect to remote |

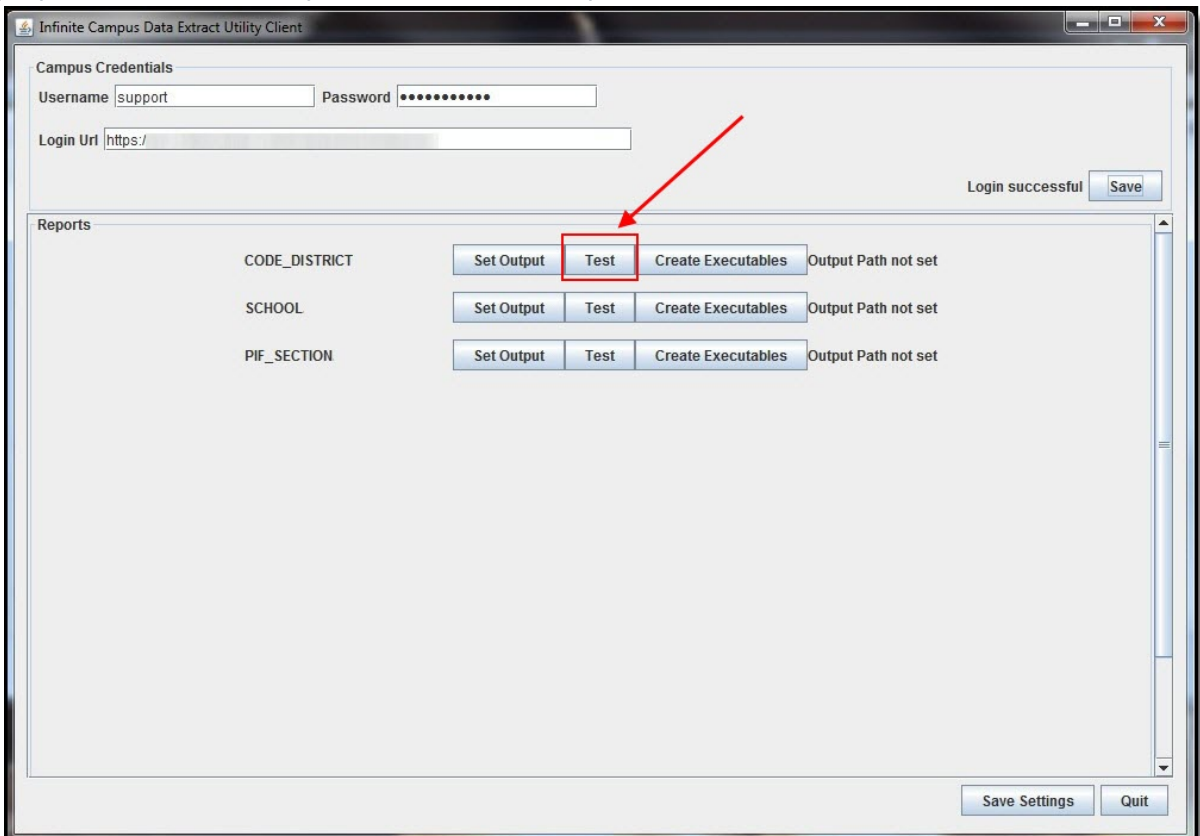
The 'Detail Information' section for the 'bob' report shows the following configuration:

- Extract Instance Name: bob
- Delivery Mode:  PULL
- SMB SFTP FTPS:
- Column Delimiter: CSV
- Character Set: US-ASCII
- Append Date to Filename:  (yyyyymmdd)  (yyyymmddhhmmssSSS)
- Include header row?:
- Include double quotes?:
- SQL: `select top 10 * from person`
- Use Data Warehouse Connection:

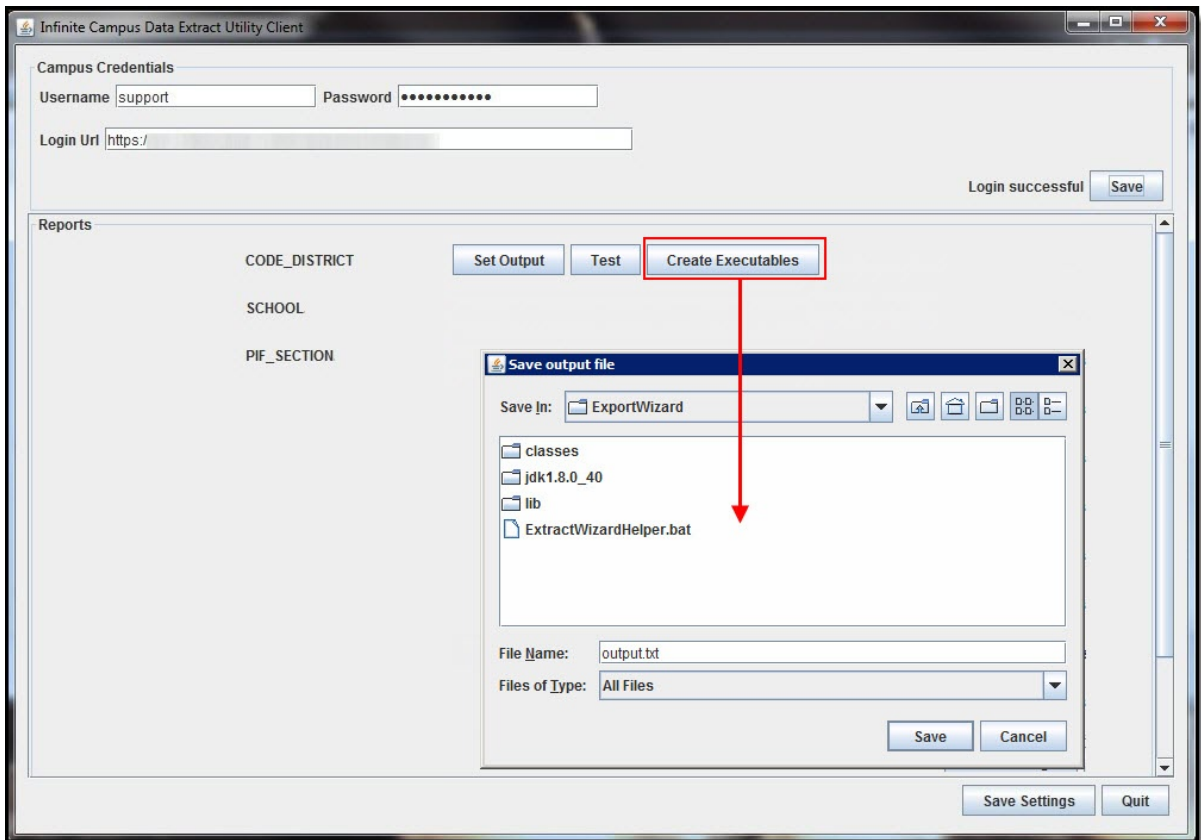
- Click **Set Output** for the report you want to configure, enter the filename and extension type (i.e., csv, txt, etc) and click the **Save** button.



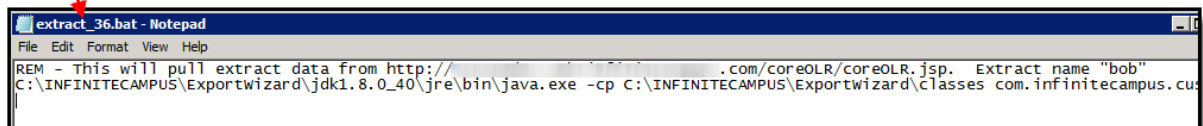
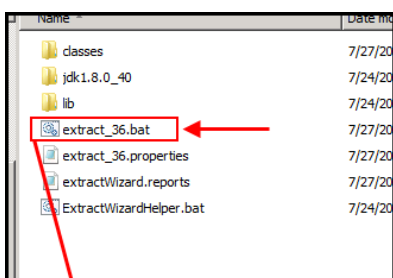
- Now that the file is being properly pulled down into the directory specified in the previous step, you should now test the report by clicking the **Test** button to verify the file was written to the proper location. The Output Path column will update with the location of the file.



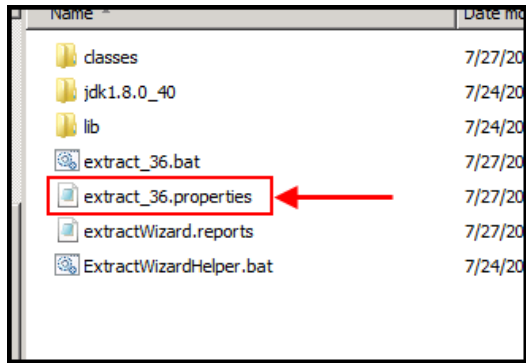
- Verify the Output Path populated by the previous step is correct. If so, select the **Create Executables** button to set the directory you would like the bat file and properties files to be written. The bat file can now be schedule to pull the report. The [Create a Windows Scheduled Task](#) section below will explain more about this process.



- The previous step has now placed a .bat file within the directory. This .bat file is named by the extractID from Campus but has a remark in the filename to help identify the report (see example below).



Settings for what has been configured is saved in the *extract\_XX.properties* file.



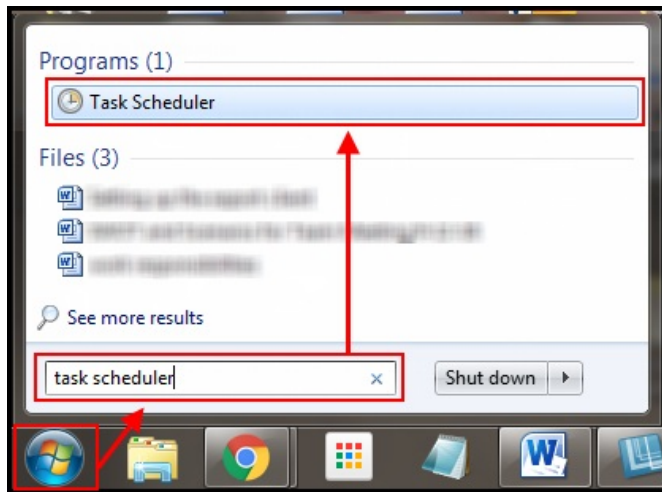
8. Move on to and complete all steps in the [Create a Windows Scheduled Task](#) section described below.

## Create a Windows Scheduled Task

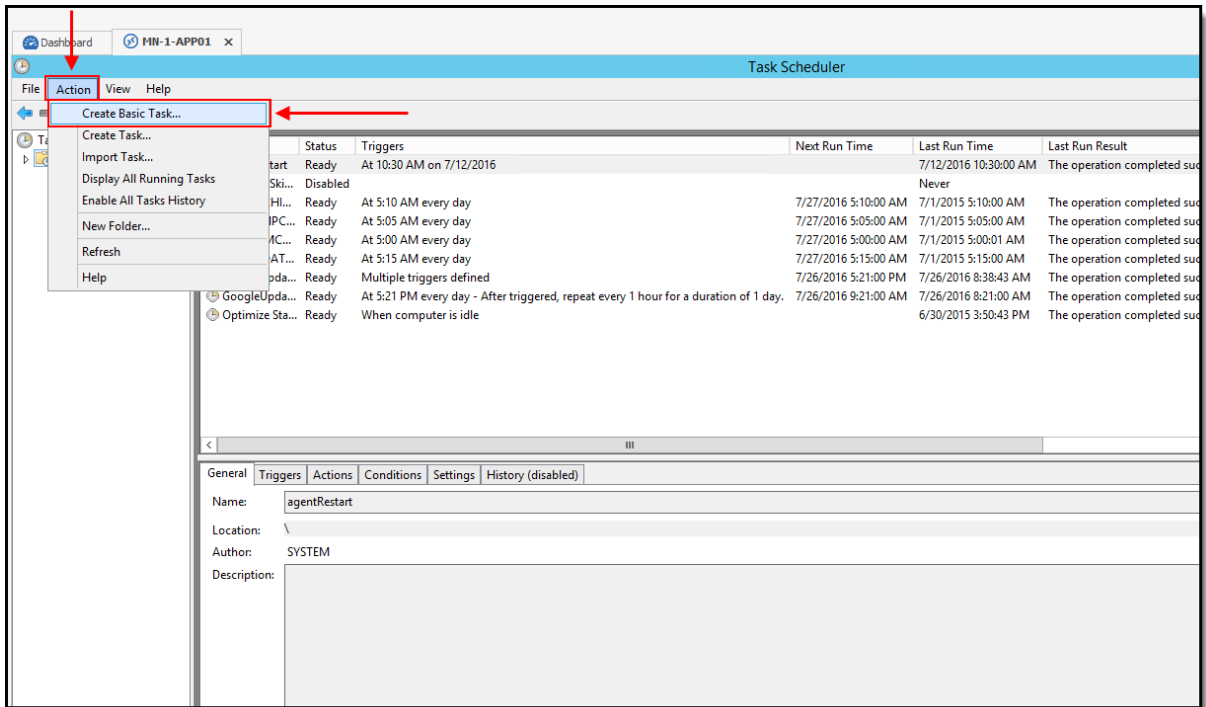
Now that the Data Extract Utility Client has been configured, you must now follow these steps and create a Windows scheduled task:

1. Open the Task Scheduler tool by selecting the Windows Start Menu button, searching for Task Scheduler, and selecting the tool in search results (see image below).

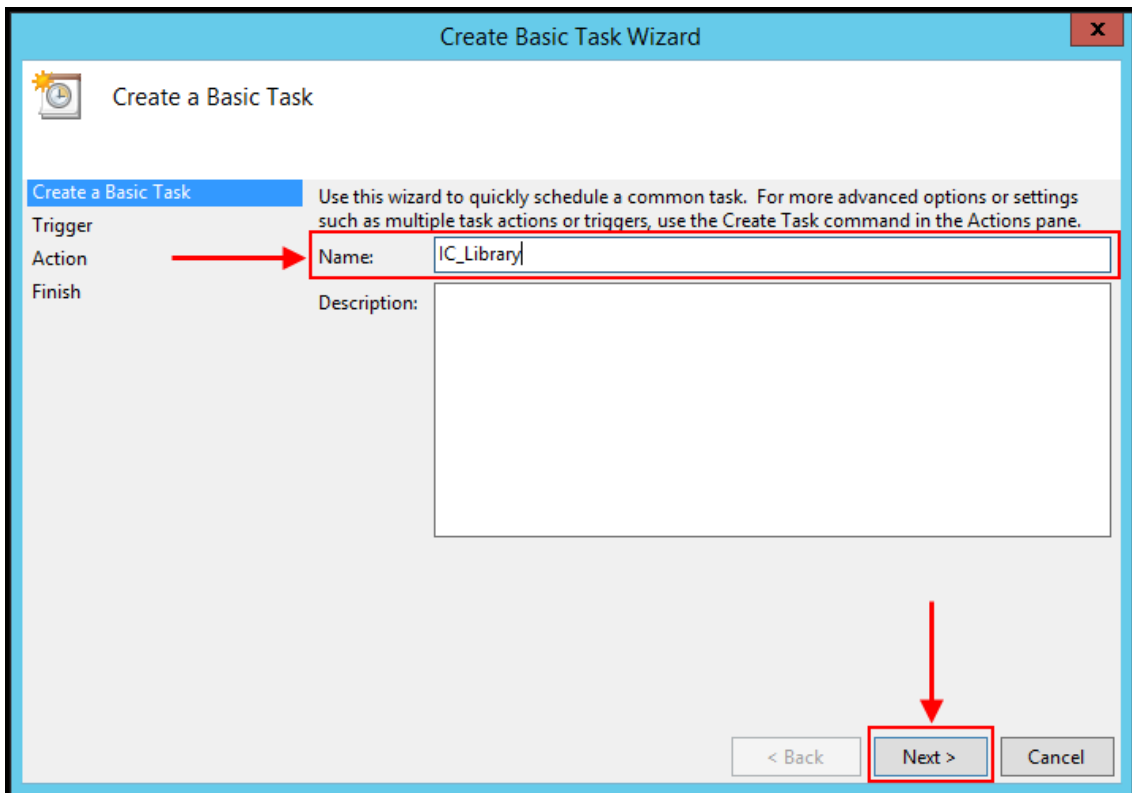
Setting up a Windows Scheduled Task is required on any version of Windows however, the example below shows the process within Windows 7. The details and screens used to walk through this process may vary based on your version of Windows.



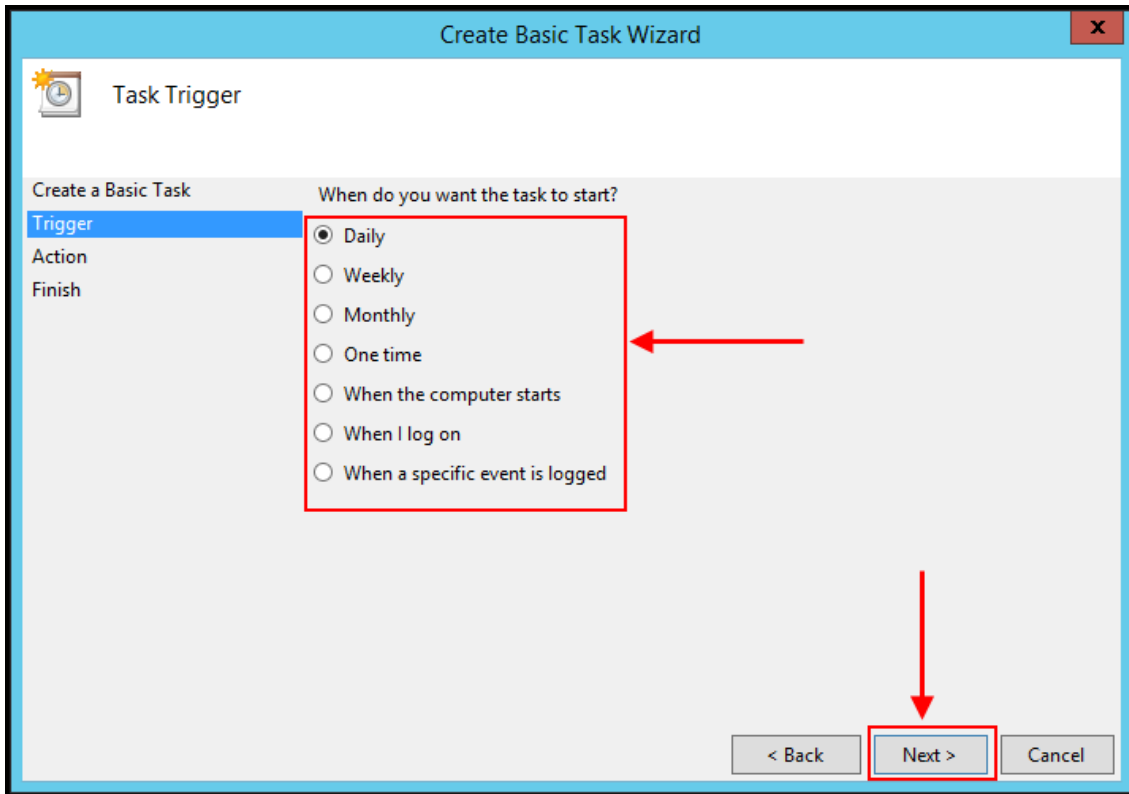
2. Once the Task Scheduler has been opened, click **Action** at the top and select **Create Basic Task**.



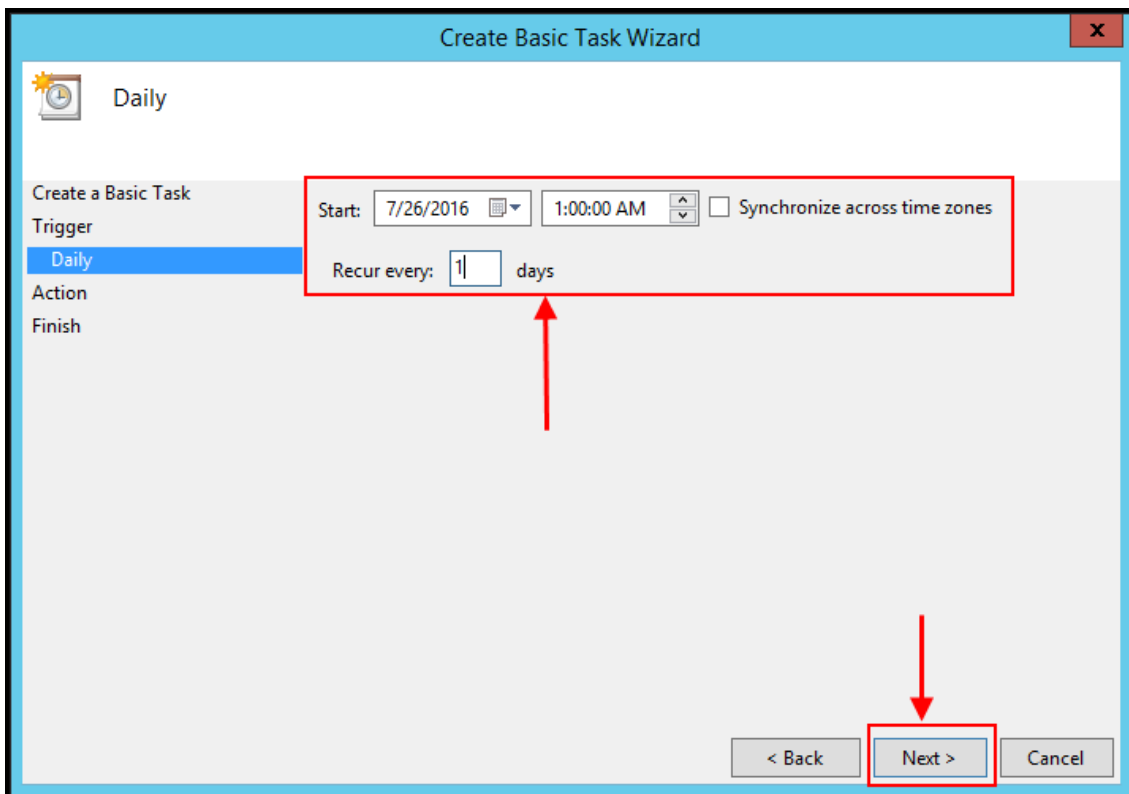
3. Give the task a **Name** that is descriptive for the job (for example, IC\_LibraryExtract, IC\_Transportation, etc) and click **Next**.



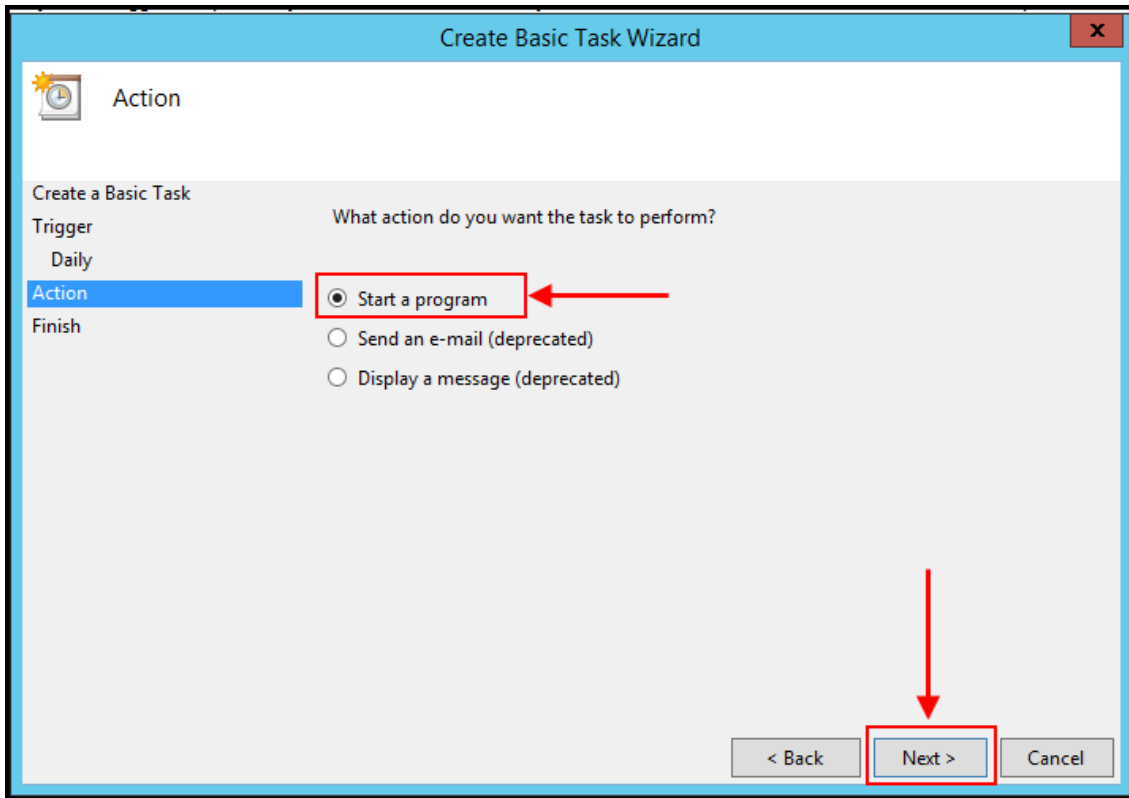
4. Select the frequency of the task (i.e., Daily, Weekly, Monthly, etc) and click **Next**.



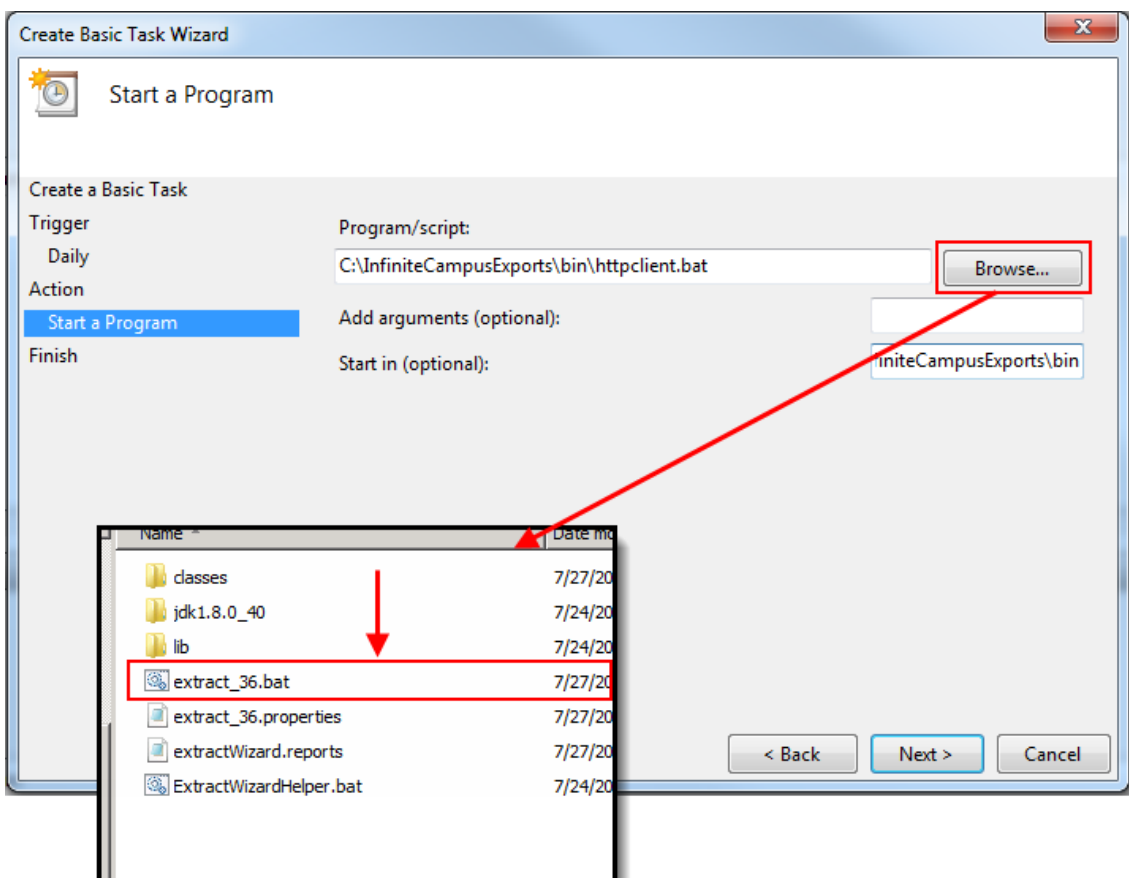
5. Enter the Start Date, Time and Recurrence of the task. Once entered, select the **Next** button.



6. By default the **Start a Program** option will be selected. If not, select this option and select the **Next** button.



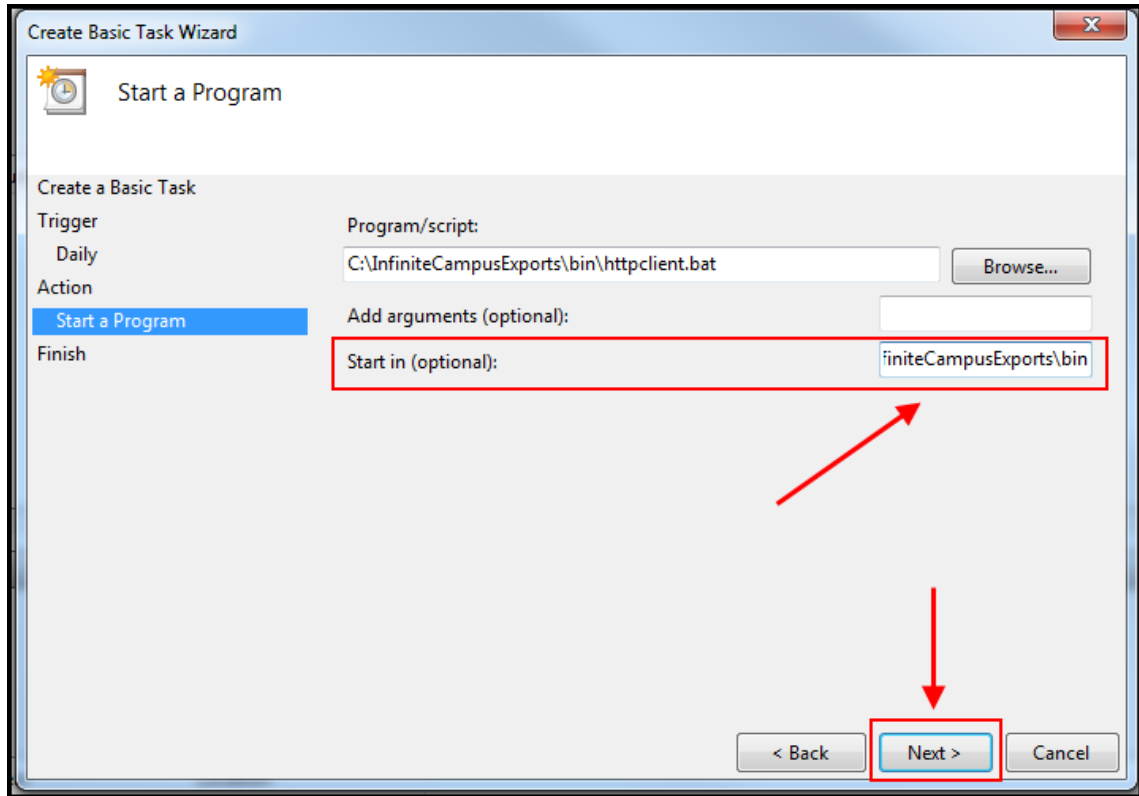
7. Click the **Browse** button and locate the .bat file created via the Campus Data Extract Utility (Step 6 in the section above).



8. In the **Start in (optional)** field, copy and paste the directory of the .bat file.

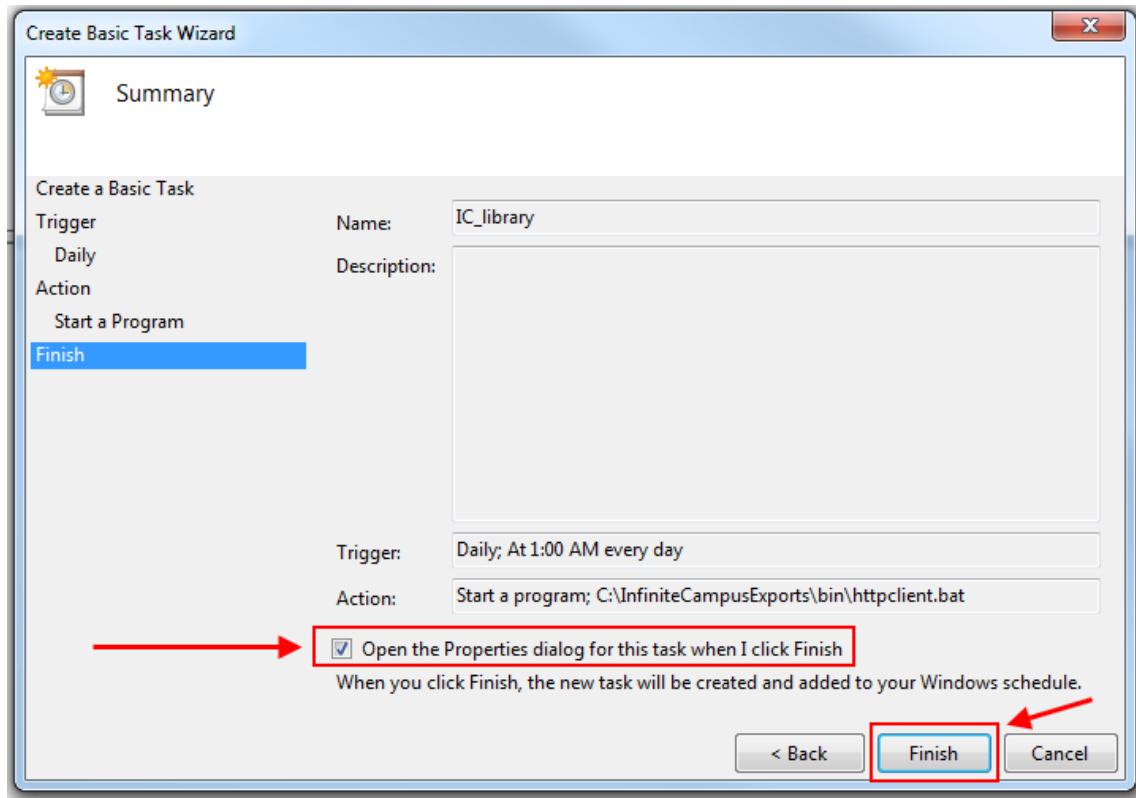
For example, if the .bat file is located at *C:\InfiniteCampusExports\bin\httpclient.bat*, the value you would enter in the Start in (optional) field would be *C:\InfiniteCampusExports\bin*.

Once entered, select the **Next** button.

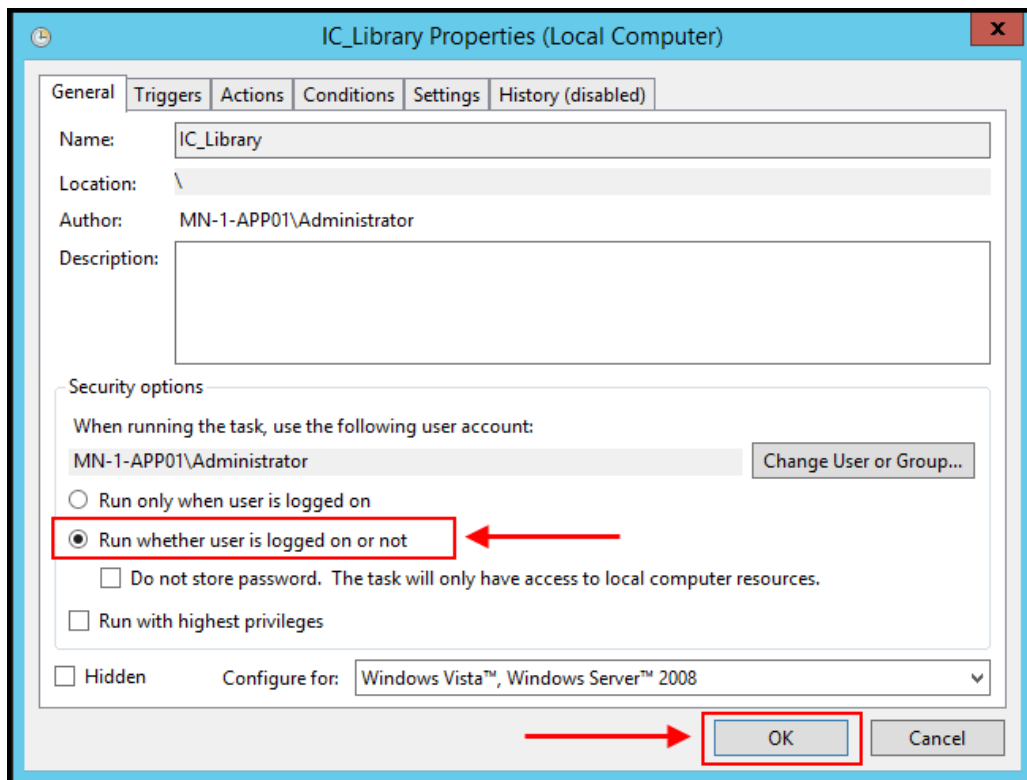


9. Mark the **Open the Properties dialog for this task when I click Finish** checkbox and select **Finish**.

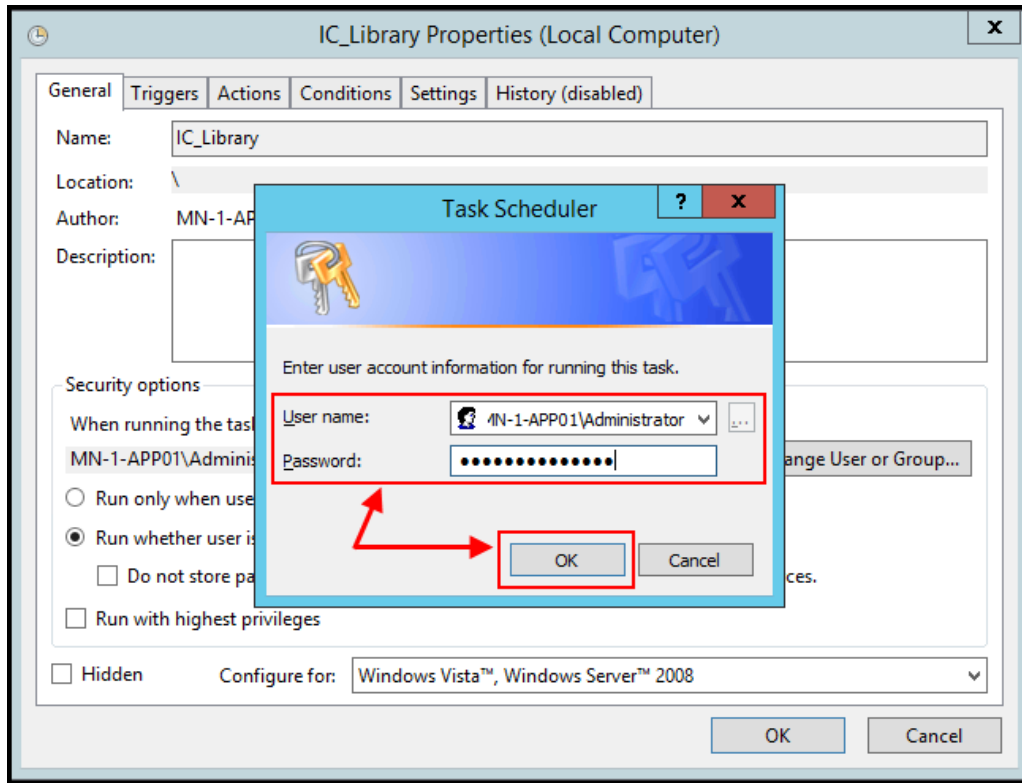




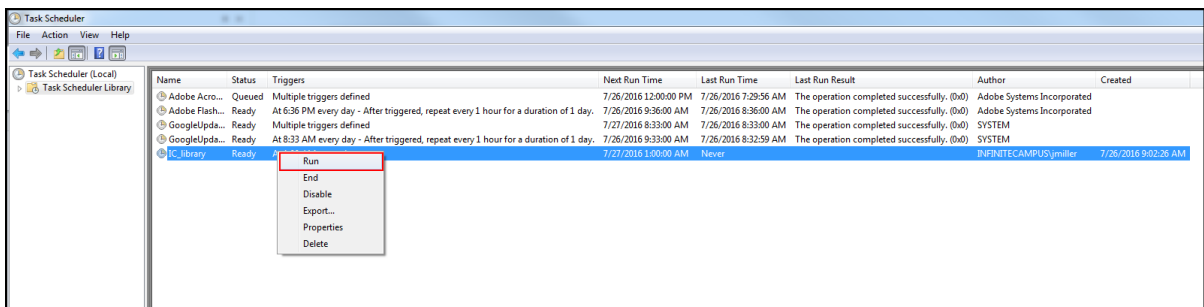
10. Select the **Run whether user is logged on or not** option and click **OK**.



11. Enter the **User Name** and **Password** for the Windows user who will run the task(s) and click **OK**.



12. The scheduled task is now setup and will run on the schedule specified. This task can be manually run by right-clicking on the task within the Task Scheduler and selecting **Run**.



## OneRoster CSV Extract Configuration

For detailed instructions on how to configure the Data Extract Utility to produce CSV files that match the OneRoster (Provisioning Connection) specification, see the [OneRoster CSV Extract Configuration](#) article.

## Data Extract Zip Tool

**PATH:** *System Administration > Data Utilities > Data Extract Utilities > Data Extract Zip Tool*

The Data Extract Zip Tool functions like the Utility Setup tool, where users can upload a file to export to a third party system. Unlike the Utility Setup tool, the Zip Tool allows users to upload more than one file to export to a third party system.

Data Extract Utility Set Up    **Data Extract Zip Tool**    Data Extract History

Save    Delete    New

| Extract Instance Name      | Delivery Mode |
|----------------------------|---------------|
| *mgTestzip1                | ftps          |
| 123                        | smb           |
| FTPS2instances Chrome      | ftps          |
| FTPS3instancesdaily Chrome | ftps          |
| SFTP2instances Chrome      | sftp          |
| SFTP2instances Edge        | sftp          |
| SFTP2instances FF          | sftp          |
| SFTP2instances IE          | sftp          |
| SMB1instance Chrome        | smb           |
| <b>SMB1instance Edge</b>   | <b>smb</b>    |
| SMB1instance FF            | smb           |
| SMB1instance IE            | smb           |

**Detail Information**

\*Extract Instance Name: SMB1instance Edge

\*File Name: SMB1instance Edge

\*Username: devadmin-01

\*Server: ADDEV2012-01

Delivery Mode:  SMB  SFTP  FTPS  PULL

Append Date to Filename:  No Date  yyyyymmdd  yyyyymmddhhmmssSS

\*Password: .....

Port : (Default SFTP=22)

Path: SMBTest

Select instances to include

- \*mgTest1.2
- mgovernight2
- mgtest now
- SFTPSQL Chrome
- 123badextract
- Test no extension
- SMBAdhoc Edge
- Daily Test 2
- httppullTest

Test Connection    Run Extract

**Data Extract Schedule**

Stop Automated Extract

Frequency: Daily

Start Date: 10/11/2018

Start Time: 13:00

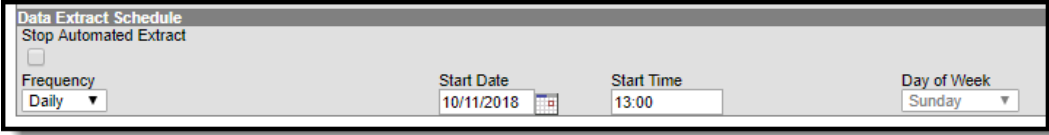
Day of Week: Sunday

### Data Extract Utility Zip Tool

The following table provides definitions about the data elements available in the Zip Tool Editor.

| Field                        | Description                 |
|------------------------------|-----------------------------|
| <b>Extract Instance Name</b> | Description of the extract. |

| Field                          | Description   |
|--------------------------------|---|
| <b>Delivery Mode</b>           | <p>Indicates how the extract will be delivered.</p> <ol style="list-style-type: none"> <li><b>SMB</b> - <i>Server Message Block</i>. This works with an operating system higher than Windows Xp; used in Windows networks to allow resources such as files on one machine to be shared on other machines as if they were local.</li> <li><b>SFTP</b> - <i>Secure File Transfer Protocol</i>. An encrypted form of file transfer between a local system and any system on the network.</li> <li><b>FTPS</b> - <i>File Transfer Protocol Secured</i>. An encrypted form of file transfer between a local system and any system on the network. This option also allows different encryption methods: <ol style="list-style-type: none"> <li><b>SSL</b> (Secure Sockets Layer)</li> <li><b>TLS</b> (Transport Layer Security)</li> </ol> </li> <li><b>PULL</b> - This option can be used in conjunction with the Export Wizard utility. This delivery mode allows for a separate client to be installed on a district server (not to be provided to third party vendors) and setup to pull the desired extract using https via a Windows Scheduled task. See the <a href="#">Pull Delivery Mode</a> section for information on using this option.</li> </ol> |
| <b>File Name</b>               | File name associated with the extract being generated. Often a third party tool needs this name.  |
| <b>Append Date to Filename</b> | When selected, includes a date in the file, so as not to overwrite an existing file. Choose the format of the date, either the normal date format of <i>yyyymmdd</i> or date and time format of <i>yyyymmddhhmmssSS</i> .   |
| <b>Username</b>                | Username used to access the destination server.   |
| <b>Password</b>                | Password used to access the destination server.   |
| <b>Domain</b>                  | An identification label, using a string of letters and numbers separated by periods, to name organizations and addresses on the internet and to define a realm of administrative autonomy in the internet.  |
| <b>Server</b>                  | A computer that provides client stations with access to files and printers as shared resources to a computer network. Can be an IP address or a server domain name.   |
| <b>Port</b>                    | Indicates the value required to connect to the server. <ol style="list-style-type: none"> <li>SFTP default = 22</li> <li>FTPS default = 990</li> </ol>  |
| <b>Path</b>                    | Indicates the navigation path the user takes to find the server or files. This needs to be absolute path and include the /upload indicator.   |
| <b>Error Notification</b>      | <p>If marked, any errors which occur will send a notification to the Notifications area of Infinite Campus (see below) to all users within the user group selected in the User Group to Notify dropdown list.</p>   |

| Field                              | Description  |
|------------------------------------|--|
| <b>User Group to Notify</b>        | This group will be notified via a Notifications message if an error occurs while using the Data Extract Zip tool. You must have the Error Notification checkbox marked in order to utilize this functionality.   |
| <b>Select Instances to Include</b> | Mark the file instances to include in the zip file. These options display every instance of extracts that were previously set up in the DEU Setup tab.   |
| <b>Test Connection</b>             | This button checks the connection to the entered server by attempting to write a 1-byte file to the location setup. When it is successful, a pop-up displays indicating the connection is good; if it is not successful, it provides the reason the connection failed. |
| <b>Run Extract</b>                 | This button runs and generates the extract, sends and stores the file where needed (in case of an issue when it is an auto-run extract).   |
| <b>Data Extract Schedule</b>       | Lists the frequency, date, time and day of the week the extract runs. If this needs to stop for any reason, mark the <b>Stop Automated Extract</b> checkbox.<br><br>                |

## Create Zip Tool Extract

The creation of new extracts should be done by technical administrators only.

1. Select the **New** icon. A **Detail Information** section will appear.
2. Enter the **Extract Instance Name**.
3. Choose the other necessary items for adding the extract by populating and marking the appropriate fields, as defined above.
4. Click the **Save** icon when finished. Additional modifications may be made to the extract to determine when the extract should be generated.

At this time, a user can select the available buttons to test the extract, test the connection to the database or run the extract by selecting one of the appropriate buttons. Extracts will display in a new window in the selected format.

1. The **Test Connection** button checks the connection to the entered server by attempting to write a 1-byte file to the location setup. When it is successful, a pop-up displays indicating the connection is good; if it is not successful, it provides the reason the connection failed.
2. The **Run Extract** button runs and generates the extract, sends and stores the file where needed (in case of an issue when it is an auto-run extract).

# Data Extract History

**PATH:** *System Administration > Data Utilities > Data Extract Utilities > Data Extract History*

The Data Extract History tab lists the available extract and any reason why it may have failed. Successful extract runs are not displayed.

Data Extract Utility Set Up
Data Extract Zip Tool
Data Extract History

| Extract Instance Name | Delivery Mode |
|-----------------------|---------------|
| FTPSSQL Edge SSL      | ftps          |
| FTPSSQL Edge TLS      | ftps          |
| FTPSSQL FF SSL        | ftps          |
| FTPSSQL FF TLS        | ftps          |
| FTPSSQL IE SSL        | ftps          |
| FTPSSQL IE TLS        | ftps          |
| httppullTest          | httppull      |
| mgovernight2          | sftp          |
| mgSMBAdHoc            | smb           |
| mgSMBtest1            | smb           |
| mgtest now            | ftps          |
| SFTP2instances Chrome | sftp          |
| SFTP2instances Edge   | sftp          |
| SFTP2instances FF     | sftp          |

| Start Time              | End Time                | Result  | Server           | Error Description                                 |
|-------------------------|-------------------------|---------|------------------|---|
| 2018-10-17 11:00:00.033 | 2018-10-17 11:00:13.113 | Success | SIS-109884-2 App |   |
| 2018-10-16 11:00:00.037 | 2018-10-16 11:00:11.05  | Fail    | SIS-109884-2 App | Exception writing FTPSSQL FF TLS to remote system |
| 2018-10-16 09:03:31.923 | 2018-10-16 09:03:42.81  | Fail    | SIS-109884-2 App | Exception writing FTPSSQL FF TLS to remote system |
| 2018-10-16 09:03:19.673 | 2018-10-16 09:03:30.59  | Fail    | SIS-109884-2 App | Exception writing FTPSSQL FF TLS to remote system |
| 2018-10-15 11:00:00.037 | 2018-10-15 11:00:09.923 | Fail    | SIS-109884-2 App | Exception writing FTPSSQL FF TLS to remote system |
| 2018-10-14 11:00:00.05  | 2018-10-14 11:00:08.75  | Fail    | SIS-109884-2 App | Exception writing FTPSSQL FF TLS to remote system |
| 2018-10-13 11:00:00.037 | 2018-10-13 11:00:07.563 | Fail    | SIS-109884-2 App | Exception writing FTPSSQL FF TLS to remote system |
| 2018-10-12 11:00:00.037 | 2018-10-12 11:00:07.35  | Success | SIS-109884-2 App |   |
| 2018-10-11 11:57:24.29  | 2018-10-11 11:57:30.38  | Success | SIS-109884-2 App |   |

## Data Extract History