

TIKS API and cURL scripts

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Developer Portal

TIKS VMS - CSV Upload for Admin Users

Following are the steps to bulk import CSV file as the admin users in the admin portal.

1. Login via the admin portal at **`https://<domain>/dashboard`** with your admin credentials.
2. Find the valid API Key under the global settings tab.
3. Prepare the CSV file. The template file can be downloaded from users tab by clicking bulk import and download template.
4. **If you do not want to remove certain users, make sure you have the record in CSV file to be imported. Note: TIKS recycles every user from the CSV file, this means if a user is not in the CSV file but exist in the current system, this user will be deleted.**
5. Request bulk import.
 1. Using cURL Command:

```
curl -X POST \
  https://<domain>/sync-admin-users \
  -H 'Accept: application/json' \
  -H 'Content-Type: multipart/form-data' \
  -H 'cache-control: no-cache' \
  -H 'x-api-key: <x-api-key>' \ -F file=@./users.csv
```

Please note the **Content-Type** and **Accept** header parameters. They should be ``application/json`` & ``multipart/form-data`` respectively. Send the API key in the header with x-api-key parameter, as in the command.

If you want to have these error messages stored in a text file, the append file name at the end. Make sure to adjust the path for output.txt file.

```
curl -X POST \
  https://<domain>/sync-admin-users \
  -H 'Accept: application/json' \
  -H 'Content-Type: multipart/form-data' \
  -H 'cache-control: no-cache' \
  -H 'x-api-key: <x-api-key>' \ -F file=@./users.csv >> output.txt
```

Please review the response payload if there is validation error, the below will be returned

```
{"success":false,"errors":[{"line":2,"msg":{"email":["The email format is invalid."]]}}
```

Validations And Race Conditions

1. Ideal waiting time for each record sync is 1 minute. For the records to be synced properly, please wait one minute before another sync request.
2. Users won't be inserted into the system until all the records in the CSV file is valid. It validates the entire file first, and if it passes the validation then starts to sync.

If you don't have CURL installed by default, follow these steps to install cURL in your machine (Windows).

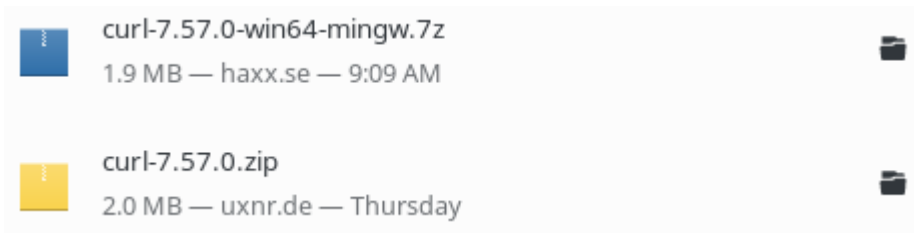
The easiest way to check whether the curl is installed or not is by typing following command in the command prompt.

```
curl --help
```

Now that you have your CSV file, you will need to ensure your system can use the cURL command correctly. As some systems (such as Windows computers) do not support cURL by default and it may be necessary to download cURL. To ensure you are running the correct version of cURL, please follow the steps below:

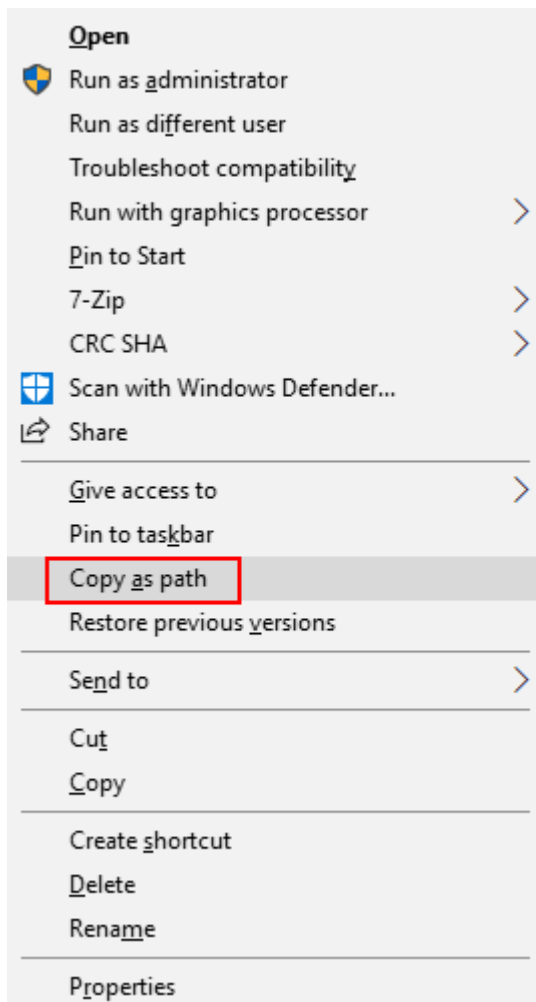
1. Navigate to this site: <https://curl.haxx.se/dlwiz/>
2. Select curl executable.
3. For Operating System, choose which operating system you are running from the drop-down menu.
4. What Flavour, select Generic from the drop-down menu.
5. For Which OS Version, select Unspecified from the drop-down menu.
6. What CPU, leave it as the default.

7. Download the applicable file. For most users, this will be the top .7z or .zip file (similar to the examples pictured below).



8. Once the file has downloaded, navigate to it and find the curl.exe file. This will be in the “bin” folder.

9. In Windows computers, hold shift and right-click on the curl.exe file. After doing so, a drop-down menu should open up, please click on Copy as Path(using the default click only).



10. Open your default terminal and paste the path in there (remove the quotes around it). It should read similar to:

```
C:\Users\sineqa> C:\Folder1\Folder2\Downloads\curl-7.57.0-win64-mingw\bin\curl.exe
```

```
"C:\Users\vani\Downloads\curl-7.64.1-win64-mingw\curl-7.64.1-win64-mingw\bin\curl.exe" -X POST "https:,"
```

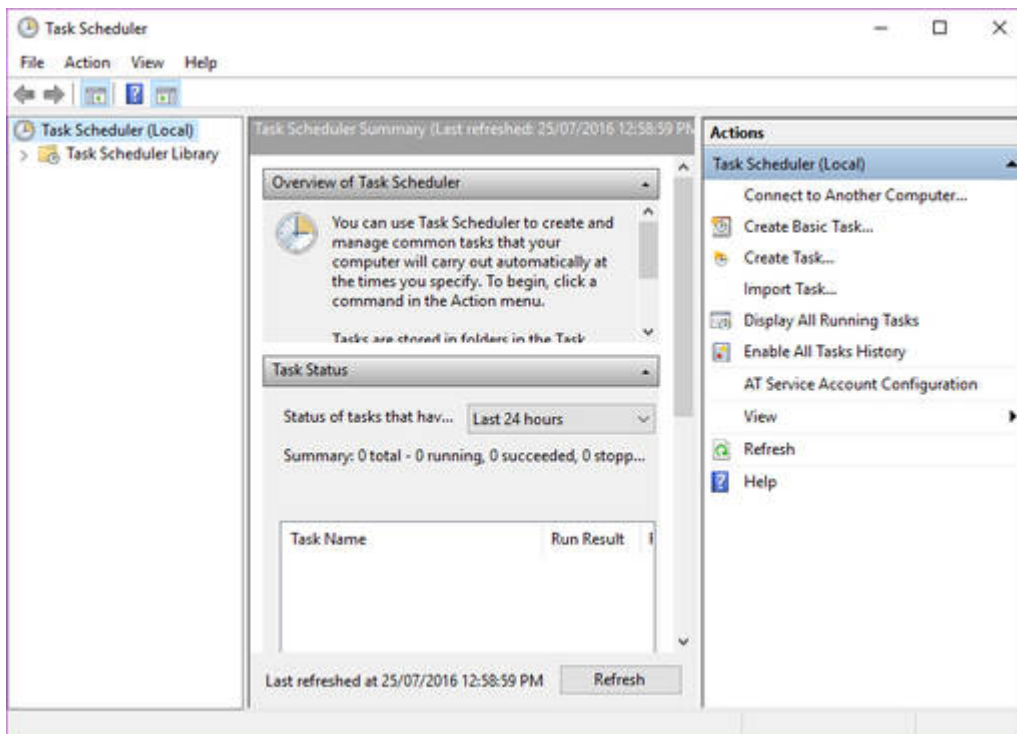
Update the file path.

CSV Upload Scheduler

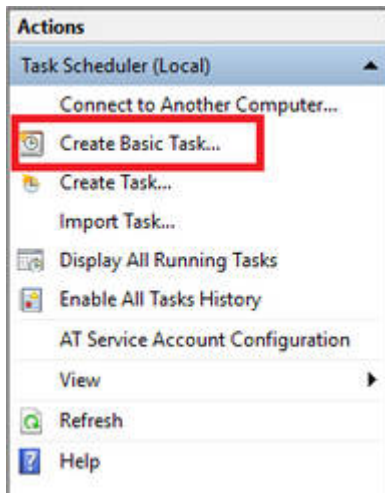
Windows

Task Scheduler makes it easy to upload a CSV on a periodic basis. The following instructions assume cURL is installed into a directory in the PATH environment variable.

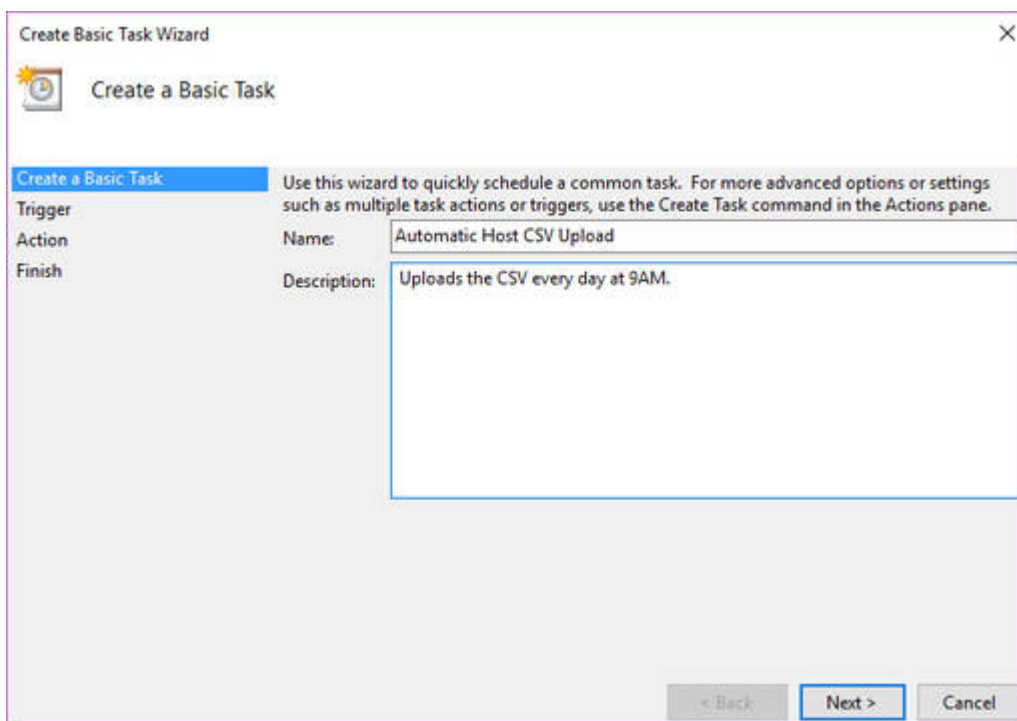
1. Open Task Scheduler. This is found in Start > All Programs > Administrative Tools > Task Scheduler.



3. On the right, in the Actions pane, select Create Basic Task.



4. Give your task a name and description, and click Next.



5. Select the frequency that you would like the CSV to upload. Daily uploads are recommended.

* If your database system triggers an event when it exports as a CSV, select "When a specific event is logged" instead, and navigate to the event.

Create Basic Task Wizard

Task Trigger

Create a Basic Task

Trigger

Daily

Action

Finish

When do you want the task to start?

☒ Daily

☐ Weekly

☐ Monthly

☐ One time

☐ When the computer starts

☐ When I log on

☐ When a specific event is logged

< Back

Next >

Cancel

6. Set the time you wish to automatically upload the CSV.

Create Basic Task Wizard

Daily

Create a Basic Task

Trigger

Daily

Action

Finish

Start: 26/07/2016 9:00:00 AM ☐ Synchronize across time zones

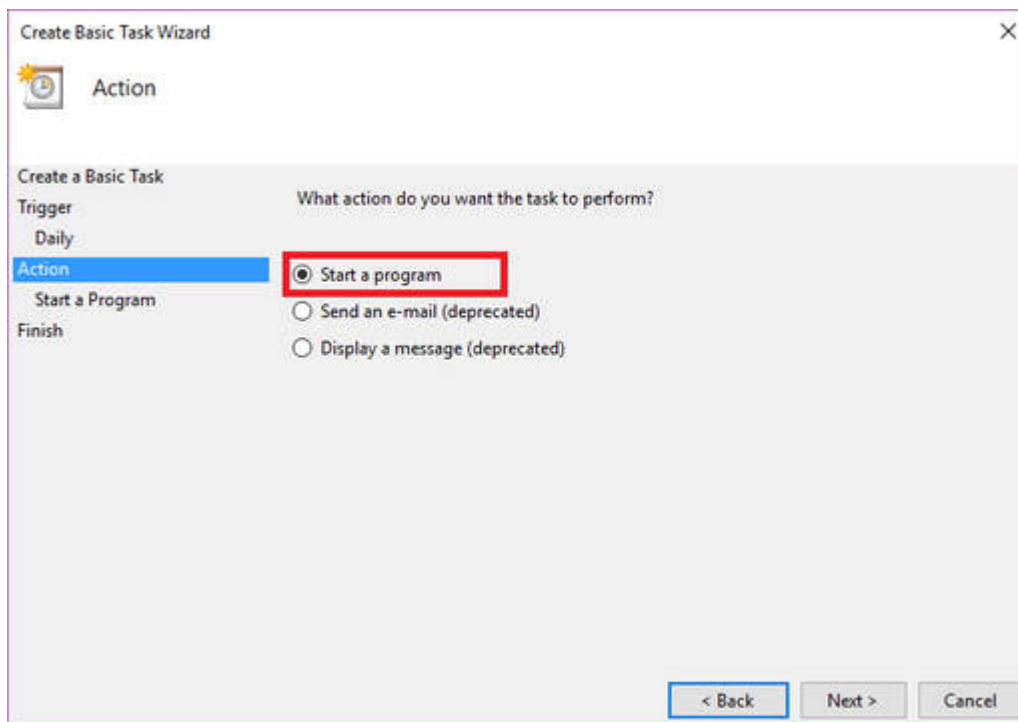
Recur every: 1 days

< Back

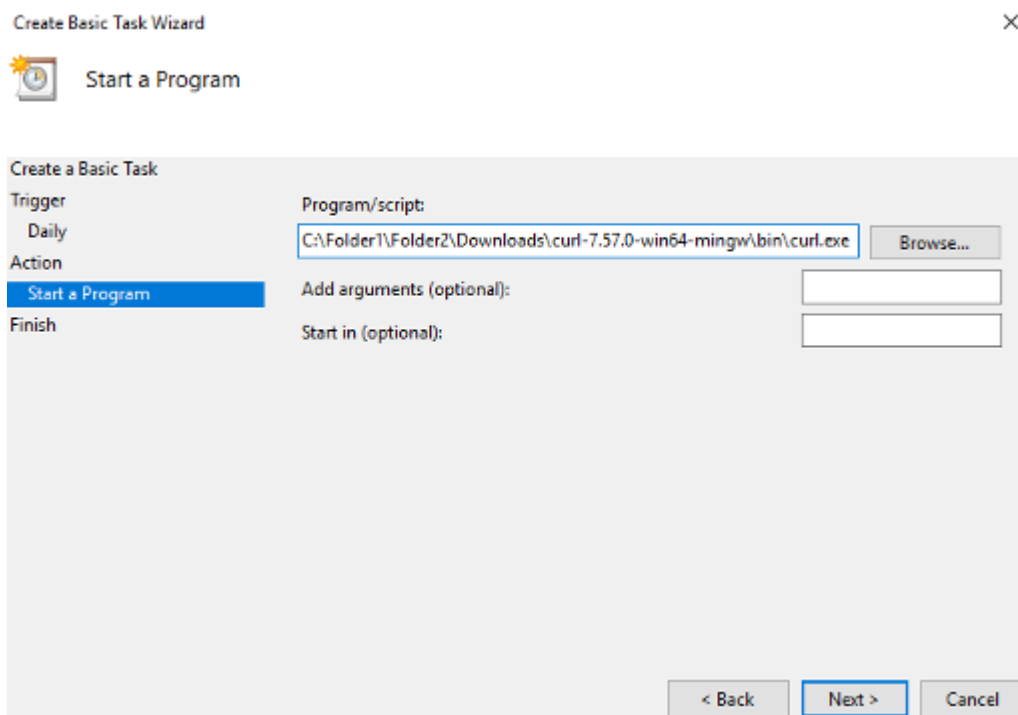
Next >

Cancel

7. Check Start a program.



8. Paste the cURL command into the Program/script box. Make sure to change the file path to the CSV you wish to upload.



9. If a message box appears, select Yes.

10. Select Finish, and every day at your specified time, the CSV will be uploaded.

11. The entire output can be saved into a file.

Microsoft Graph API

1. Find your **tenantId** <https://docs.microsoft.com/en-us/onedrive/find-your-office-365-tenant-id>
2. Enable graph API and add an APP to allow VMS to connect to their Graph API
<https://developer.microsoft.com/en-us/graph/quick-start>
3. Add the appropriate permissions allowing the TIKS VMS to retrieve list of users

Application

User.Read.All, User.ReadWrite.All,
Directory.Read.All, Directory.ReadWrite.All

4. Generate a Client Secret, and you should have the client_id and the client_secret

```
$post_params = array(  
    "client_id" => $clientId,    "scope" =>  
    "https%3A%2F%2Fgraph.microsoft.com%2F.default",  
    "client_secret" => $clientSecret,  
    "grant_type" => "client_credentials",);
```

Please provide your TIKS account manager

1. Tenant ID
2. Client ID
3. Client Secret

Further reference in more detail <https://vincentlauzon.com/2017/01/31/using-microsoft-graph-api-to-interact-with-azure-ad/>