File download using AWS CLI

The LiDAR Point Cloud files are hosted on an amazon s3 bucket. They can be downloaded file by file using the index of the tiles or massively, by following the instructions in this guide. This document covers the use case where many files (even entire projects!) need to be downloaded efficiently. The procedure has been tested using version 1.25.83 of the AWS CLI tool but should work with other versions as well. The next steps assume that the tool has been correctly installed and configured following the AWS CLI User guide.

URI of the s3 bucket: **aws s3 ls --no-sign-request s3://canelevation-lidar-point-clouds/pointclouds_nuagespoints/**

The use of the --no-sign-request option is required. It allows the commands to be done anonymously.

Make sure you can access the files by listing them first

Command format: aws s3 ls <command options> <s3 URI>

Example:
```
aws s3 ls --no-sign-request s3://canelevation-lidar-point-
clouds/pointclouds_nuagespoints/
```

If the access works, the command should give you a list of the bucket contents.

Local sync of an entire project

Command format: aws s3 sync <command options> <S3 URI> <Destination directory>

Example:
```
aws s3 sync --no-sign-request s3://canelevation-lidar-point-
clouds/pointclouds_nuagespoints/NRCAN/Vineland/ C:\MyDestinationFolder\
```

Local sync filtered by file name

Command format: aws s3 sync <command options> <S3 URI> <Destination directory>

The --include option may be set to keep only the files whose names start by a given set of characters. The following example will download all the files starting with ON_GreatLakes_20180621_NAD83CSRS_UTMz17_1km_E6330.

Example:
```
aws s3 sync --no-sign-request s3://canelevation-lidar-point-
clouds/pointclouds_nuagespoints/NRCAN/Vineland/ C:\MyDestinationFolder\ --
exclude "*" --include "ON_GreatLakes_20180621_NAD83CSRS_UTMz17_1km_E6330*"
```

Unsure of your command? Add the --dryrun option. The command won't copy anything but instead, will print the operations it would have done.