



Upgrading One Analytics

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Technical Guide

CAPITA

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01/ Upgrading One Analytics

Purpose

This document describes how to upgrade One Analytics and should be used as a reference during the installation of the One Analytics upgrade.

Overview and Scope

The One Analytics upgrade for this release consists of the following steps:

- Updating the data warehouse
- Republishing data sources

Prerequisites

- An existing One and One Analytics environment, with hardware that meets the minimum OTRA specification.
- SQL Server 2012 R2 Standard Edition or higher.
- Mixed-mode authentication enabled.
- Oracle Client 12.1.0.2, both 32-bit and 64-bit, configured to connect to any relevant One Oracle databases.
- You be running Tableau Server 10.5.2 and Desktop 10.5.2, which were upgraded as part of the March 2018 release.

What's new in this release?

- Selected Diagnostic Tool 'Data Issues' have been changed to 'Data Warnings' to remove unnecessary data constraints and allow data to import into One Analytics.
- CSS \ SEN Models – Address information is appropriately anonymised where the Student or Person is deleted from One Education.
- CSS \ SEN Models – Records were being duplicated within the 'People and Student' View when a student is deleted from One Education, this has been resolved.
- Core - Students associated with an invalid address and so associated with 'OA Unknown Address' value, when deleted from One Education the address information is retained.
- Import Tool - Where a GIS file is imported validation has been changed to ensure for column 'GIS_Information_Type' a maximum of 128 characters can only be accepted.

Installing the Data Warehouse

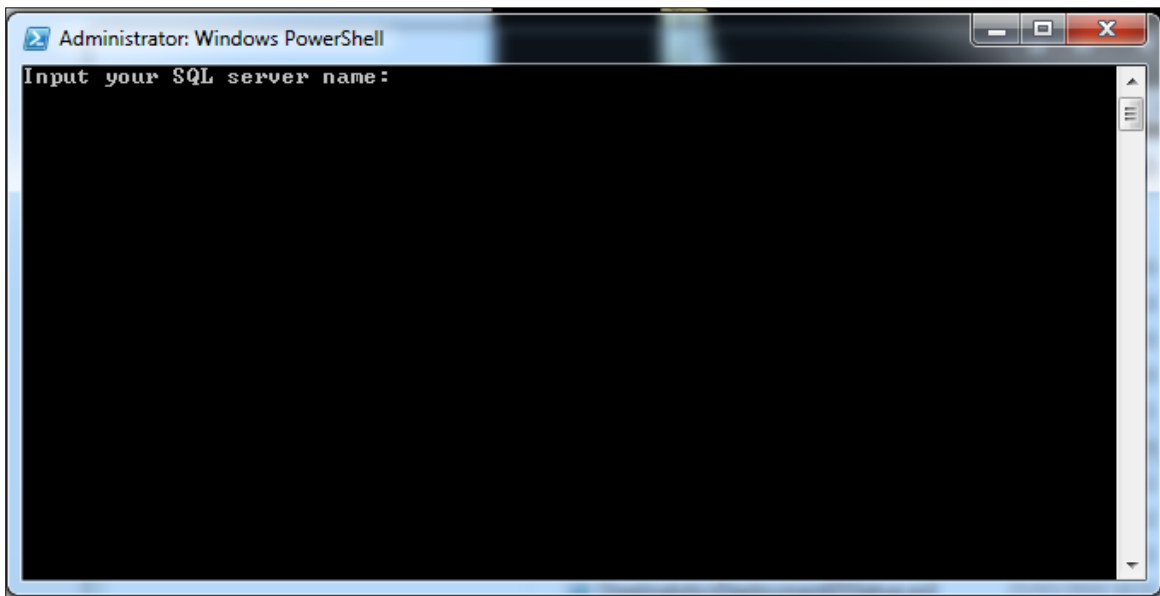
The data warehouse is installed and upgraded using the `OneAnalyticsDeployment.Input.ps1` script. You can run it from any machine with access to the One Analytics SQL server, however it is recommended that you run it directly on the One Analytics server. The script prompts you to enter all the information it requires. After you have entered all the required information, the script starts the installation/upgrade process automatically. You can monitor the installation progress via the SQL Server Agent jobs list in SQL Server.

For more information on monitoring progress, see the [View Job Activity](#) page on Microsoft's [TechNet](#) website. When the One Analytics database is installed or updated, a completion message is also displayed in the PowerShell console window.

IMPORTANT NOTE: *Running the DW Deployment job redeploys the ETL jobs. This removes the job schedules associated with the ETL jobs. You should check the existing schedules prior to running the DW Deployment job as you will need to replace them after it has completed.*

1. Open a new PowerShell terminal.
2. Within PowerShell, navigate to the folder where the deployment script is located. The deployment script is located in the DW Deployment folder of the installation media.
3. Run the following command to start the script:

```
.\ OneAnalyticsDeployment.Input.ps1
```



4. Enter the details requested by the script. You should enter details for each requested parameter, unless noted in the table below. The parameters are outlined in the following table.

Input Parameter	Details	Example
Input your SQL Server name	This is the server name of the target SQL environment you are deploying to.	Sqlserver1942\mssql
Input the SQL user name	This is the SQL login for the target SQL environment you are deploying to. This user must have permissions to create databases, and manage security roles within the server, along with creating SQL agent jobs and scheduled tasks.	Sqladmin
Input the SQL user password	This is the password of the SQL login you are connecting to the target SQL environment with.	#####

Input Parameter	Details	Example
Input the SQL user name to use the ETL if different from above	This is the SQL login used by the Extract, Transform, and Load (ETL) processes (SQL Jobs). Must have permission to create tables, write to tables, run SQL jobs and be able to add jobs into MSDB.	datauser
Input the SQL user password to use the ETL	This is the password for the SQL login used by the ETL processes (SQL Jobs).	#####
Input your Oracle server name	The server name of the One Oracle database that this warehouse will be populated from. Your Oracle client must be configured to allow this.	EMSMAN
Input the Oracle user name	The username for access to the One Oracle database.	onemx64
Input the Oracle user password	The password for access to the One Oracle database	#####
Input your eStart server name	<u>eStart only</u> - The server name\instance name of the eStart SQL server that this warehouse will be populated from. If you do not have an eStart installation in your environment or do not want to analyse eStart data, press the Enter key.	SQLServer12\eStart
Input your eStart database (only asked if a value was entered for the eStart server name)	The name of the database to retrieve eStart data from.	eSuite
Input the eStart user name (only asked if a value was entered for the eStart server name)	The username for the eStart database.	eStartAdmin
Input the eStart user password (only asked if a value was entered for the eStart server name)	The password for the eStart database.	#####
Input your Youth server name	<u>Youth only</u> - The name of the database to retrieve youth data from. If you do not have a Youth installation in your environment or do not want to analyse Youth data, press the Enter key.	EMSMAN_IYSS
Input the Youth user name (only asked if a value was entered for the Youth server name)	The username for the Youth database.	Onemx64_iyss
Input the Youth User password (only asked if a value was entered for the Youth server name)	The password for the Youth database.	#####

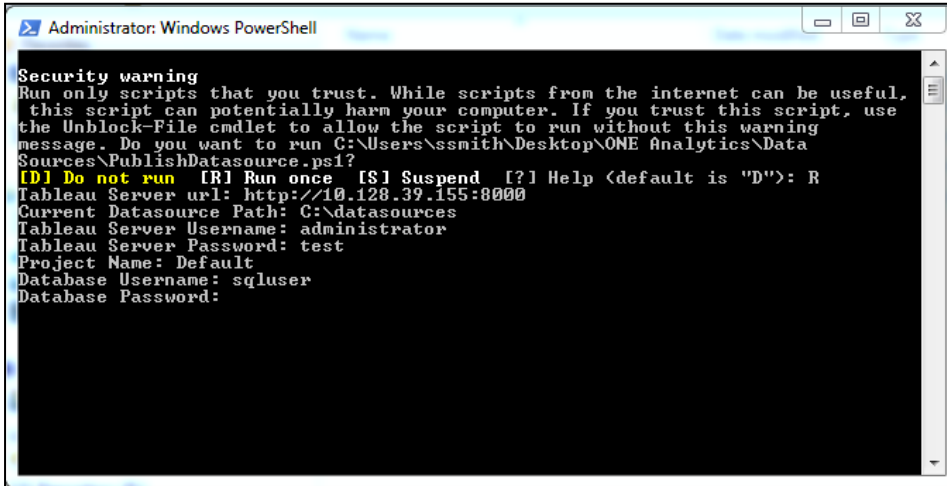
Input Parameter	Details	Example
Input the location of the ETL packages folder (referring to the SQL Server)	The local path to the ETL packages folder when accessed from the SQL Server. For example, if the ETL folder is located on the SQL Server's D drive, the path might look like the example provided here.	D:\ONE Analytics\ETL
Input the destination ETL packages folder if different from above (if you are installing One Analytics from a separate box using a remote mapped drive)	The folder into which the SQL jobs and packages will be copied during the install. If you are running the install on the <u>same box</u> that houses the SQL Server, this value will be the same as for the above parameter. If you are running the install from a <u>remote location</u> , the path will use the drive to which you have mapped the SQL Server on this box. For example, if the ETL folder is mapped onto the V drive, the path might look like the example provided here.	V:\ETL
Input the SQL Server to deploy the SQL job, if different from above	The server name\instance name of the SSIS server. If you are deploying the SQL job to the same SQL server defined earlier, press the Enter key. The script will automatically skip ahead to the Input the first job schedule (dd/MM/yyyy hh:mm) step.	SQLServer12\SSIS
Input the SQL user to use the ETL	The username to connect to the SQL SSIS instance specified above. This user must have permission to create SSIS jobs and schedules.	Ssisuser
Input the SQL user password to use the ETL	The password for the user specified above.	#####
Input the first job schedule (dd/MM/yyyy hh:mm)	The date and time the first ETL population will occur. The jobs will be scheduled to run once per day from this date onwards.	29/03/2016 15:00
Input if you would trigger SQL jobs - Yes or No	Yes if you want to run the ETL jobs immediately after creation.	Yes or No
Verbose (see what I am doing) - Yes or No	Yes if you want to enable extra logging details within the installation process.	Yes or No

Republishing Data Sources

In order to publish the data sources used by One Analytics, you must run the PublishDatasource.ps1 script available on the One Analytics release media in the Configuration folder.

IMPORTANT NOTE: If you are given a security warning when attempting to run the script, please enter "R" to allow the script to run.

When running, you will be prompted to enter the following details:



Setting Name	Details	Example
Tableau Server URL	The URL to your One Analytics Server installation.	http://xxx.xxx.xxx.xxx
Current Datasource Path	The folder path containing the data source files (part of the One Analytics installation media).	C:\ONE Analytics\Data Sources
Tableau Server Username	The username to login to the One Analytics Server.	OAdmin
Tableau Server Password	The password for the username in the previous value.	#####
Project Name	The project within the One Analytics server that the data sources should be published to. This will overwrite/upgrade any existing version within the project.	Default
Database Username	The SQL Server username to use when the data source connects to the One Analytics data warehouse. This can be any username that has the necessary permissions to access the SQL data warehouse.	SQLUser
Database Password	The password for the database user.	#####
Database Server	The name of the SQL Server database containing the data warehouse.	SqlServer1942\mssql

After all details are entered, the utility will publish the latest versions of the One Analytics data sources to your One Analytics server.

After a data source has been published, you can embed the password for the data source so that users do not have to re-enter the password every time they try to connect to the data source. For more information, refer to the *Embedding Passwords* topic in the *Installing and Configuring One Analytics* technical guide, available from the [One Publications](http://www.onepublications.com) website (www.onepublications.com).

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