

## OneGrade Web Installation and Configuration Guide

This guide describes the installation, upgrade and configuration of the OneGrade Web Application. Please refer to the separate OneGrade Installation Guide and OneGrade Upgrade Guide for details about installing and updating the SQL Server database and Windows Application.

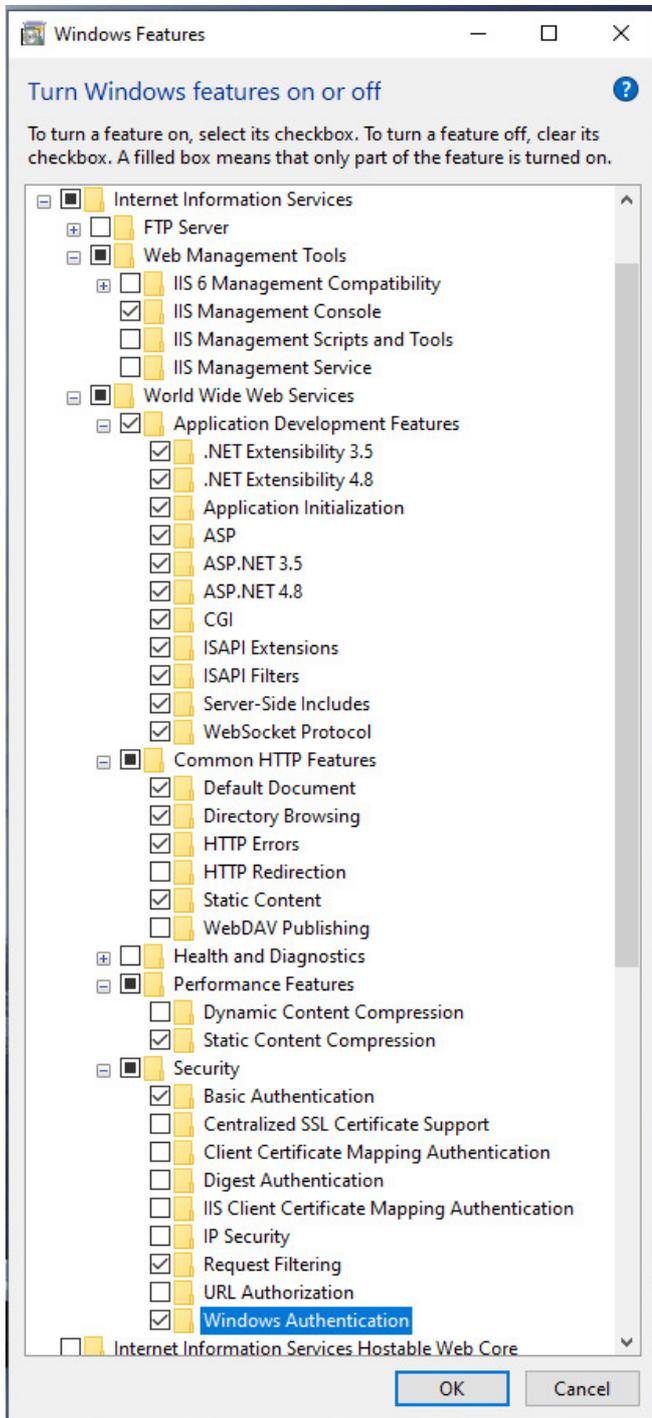
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## IIS Requirements

OneGrade Web requires Microsoft Internet Information Services (IIS). Using Windows Features, turn on the following features:



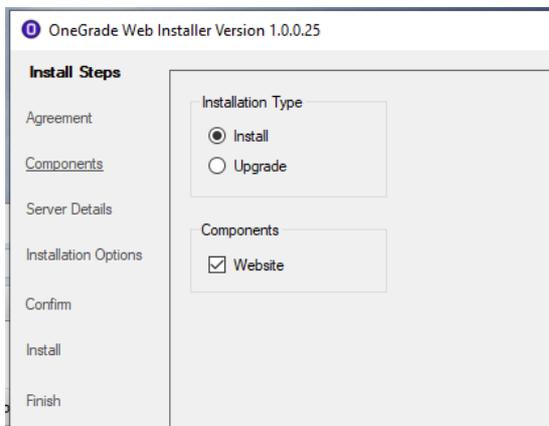
**Note:** the minimum .NET version required for OneGrade Web is 4.5.2.

## Installation

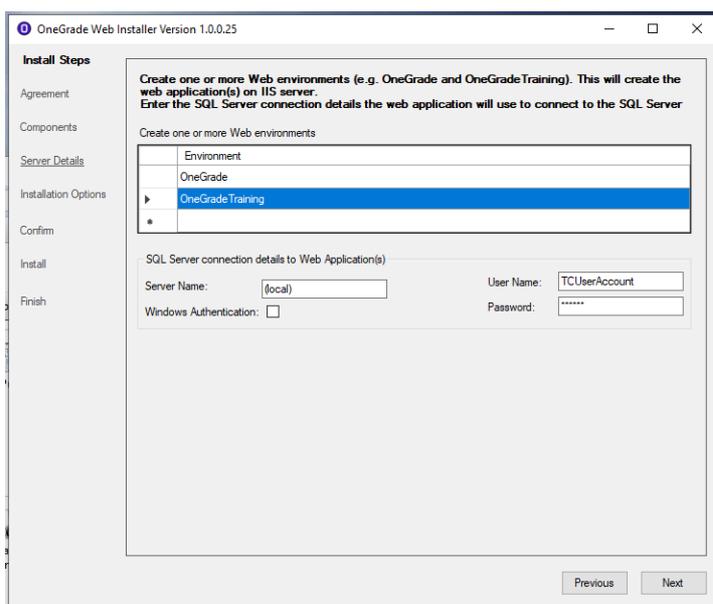
After extracting the installation files locally on the server on which IIS is installed, run the file installer.exe:

EntityFramework.dll	20/08/2020 10:25	Application exten...	5,075 KB
EntityFramework.xml	20/08/2020 10:25	XML Document	3,568 KB
Installer.exe	20/08/2020 10:25	Application	132 KB
Installer.exe.config	20/08/2020 10:25	XML Configuratio...	4 KB
Installer.pdb	20/08/2020 10:25	PDB File	54 KB

After ticking the Agreement checkbox and pressing next, you will be asked to Install or Upgrade. Select to Install and press Next:



On the Server Detail step, you will be asked to enter one or more Web Environments and their SQL Server connection details. A web environment is simply the name of the web application(s) you wish to install. By default, a single web environment called OneGrade will be displayed. You may edit the name of this or add and remove other web environments as required. In the example below, a second web environment called OneGradeTraining has been added.



Enter the name of the SQL Server which holds the database(s) and the connection details.

The SQL server name will be:

For a named server (database not on an instance), enter SERVERNAME

For a named server (database on an instance), enter SERVERNAME\INSTANCENAME

For an IP address (database not on an instance, default port), enter 99.99.99.99

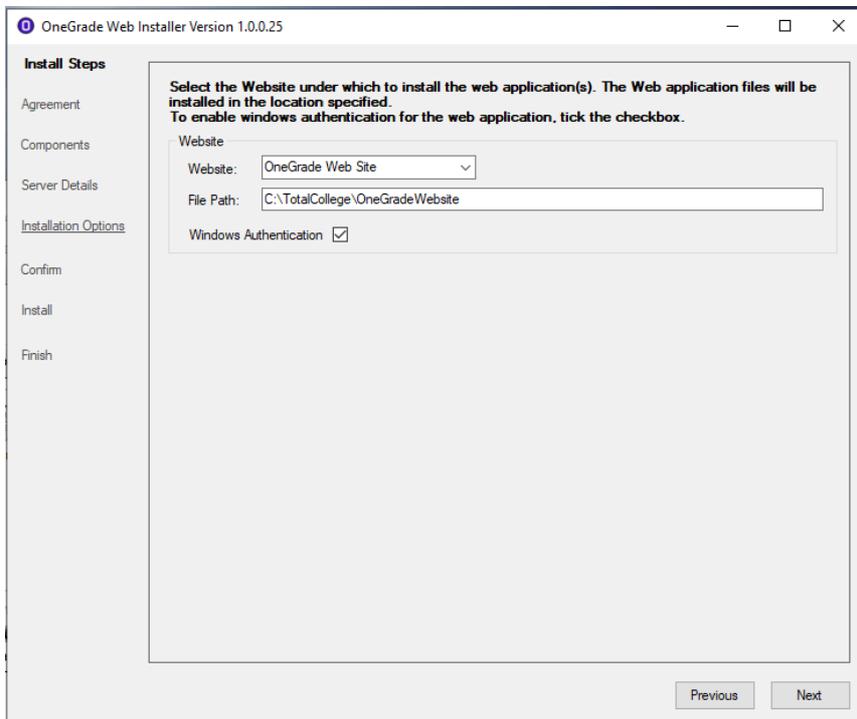
For an IP address (database not an instance, port 1400), enter 99.99.99.99,1400

For an IP address (database on an instance, port 1400) enter 99.99.99.99\INSTANCENAME,1400

By default, the TCUserAccount is used to connect to the database(s).

**Note:** A web environment called “OneGradeTraining” will create a web application called “OneGradeTraining” running under an application pool called “OneGradeTraining”. It will be installed into a folder called “OneGradeTraining” (the root folder is specified on the Installation Options step) and it will expect to connect to a database called “OneGradeTraining” (This can be changed in the web.config file – described later in this document).

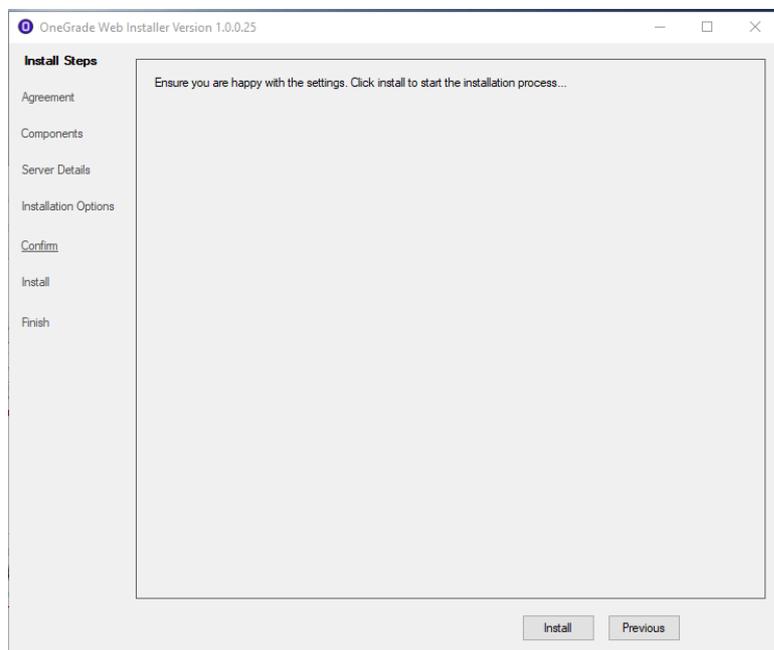
The Installation Options step allows you to specify the website under which you wish to install the Web Application(s) specified in the “Server Details” step. By default, this is the “Default Web Site”. In the example below, a “OneGrade Web Site” has been created in IIS and selected from the drop down list. Enter the root file path where you wish the files to be installed to.



It is recommended that the Windows Authentication checkbox is ticked. This will allow users to log onto OneGrade Web using Windows Authentication.

**Note:** If possible, it is worth considering setting up a separate web site within IIS for OneGrade Web as it will cause minimal disruption to other web applications if it needs to be restarted.

The next step is a confirmation step. If you wish to proceed with the installation, press Install.



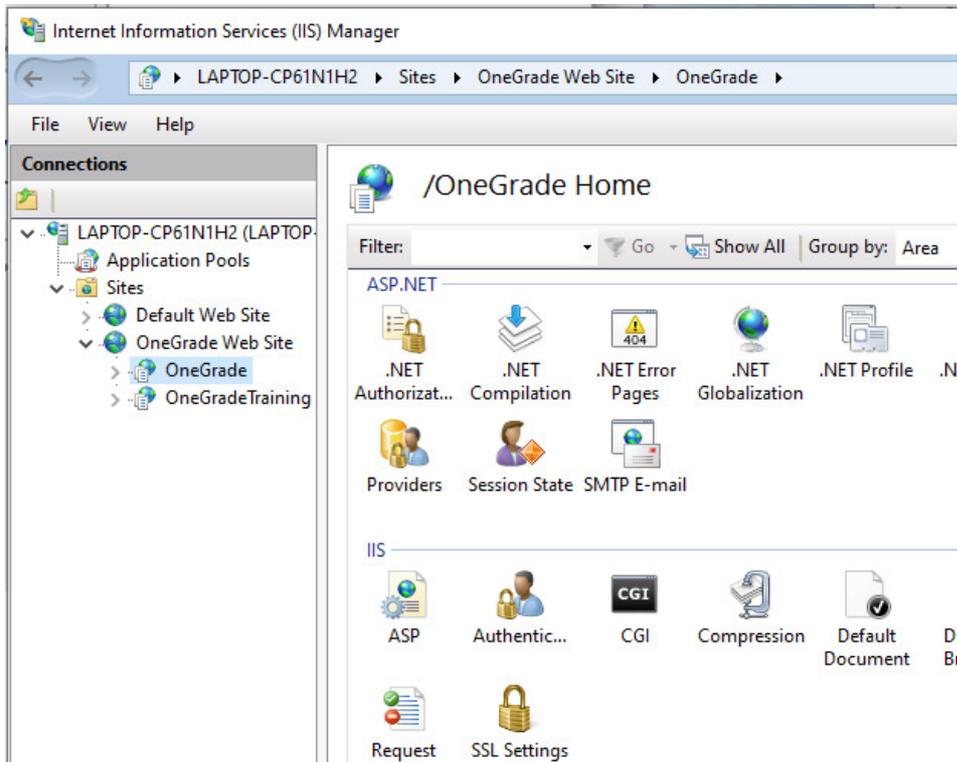
After successful installation, the following message will be displayed:



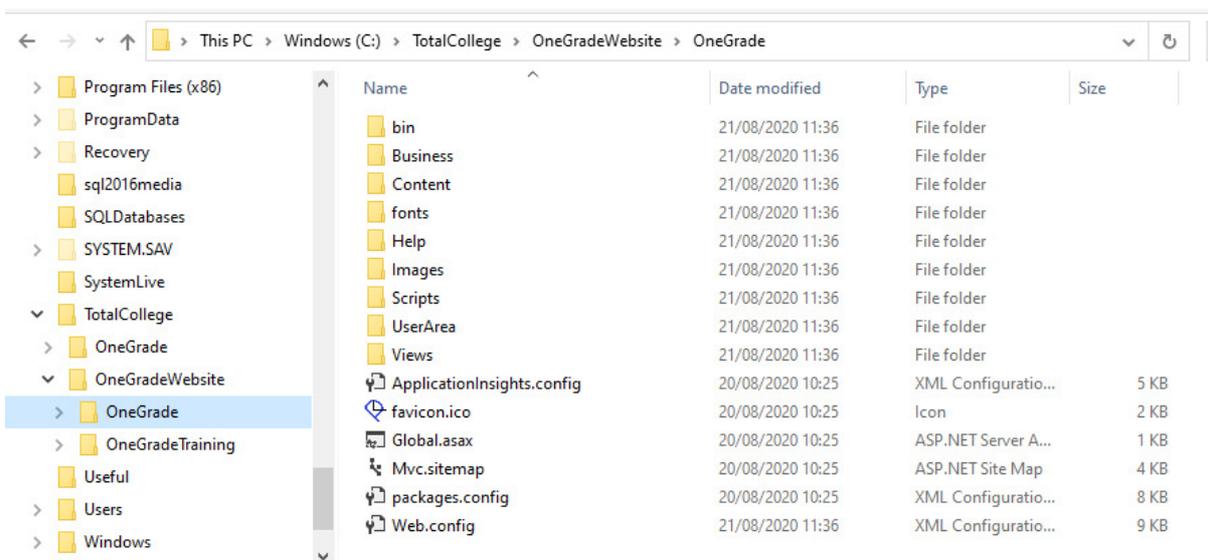
**Note:** After installation, within IIS, recycle the Application Pool.

## Viewing the Web Application(s) in IIS after Installation

In the installation example, two OneGrade web environments called “OneGrade” and “OneGradeTraining” were installed under a “OneGrade Web Site” IIS website. When the IIS Manager is opened, this is how they are presented:

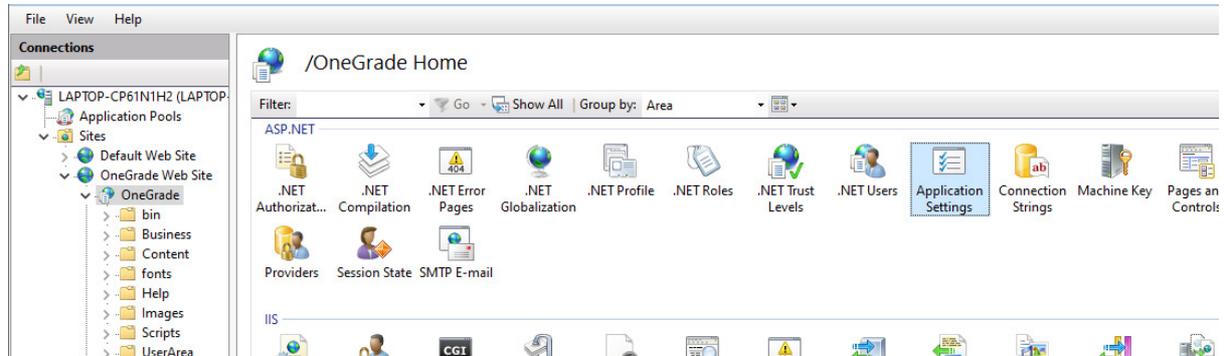


Within Windows file explorer, under the File Path C:\TotalCollege\OneGradeWebsite, the Web Application Files have been installed under the “OneGrade” and “OneGradeTraining” folders:



## Database Connection

The OneGrade Web Application connects to a SQL Server database using settings stored in its web.config file. The web.config file can be opened in notepad and edited directly, or more safely and practically through the Application Settings using the IIS Manager.



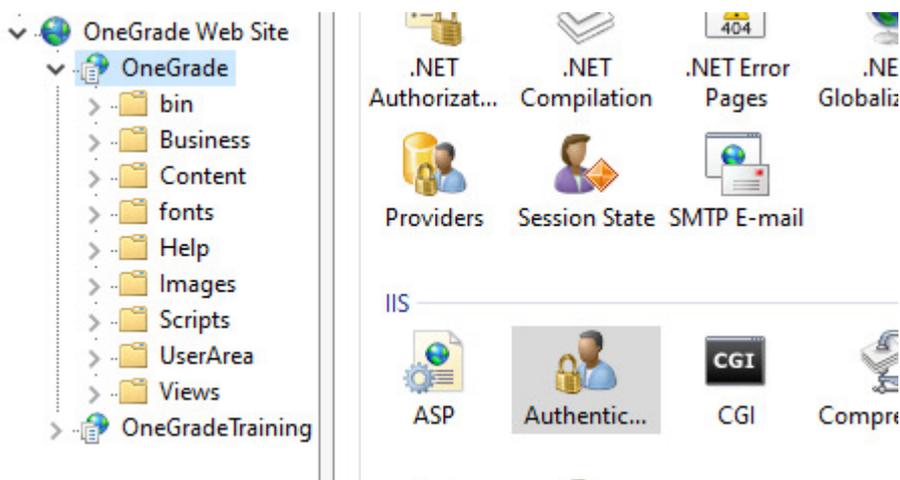
Clicking the Application Settings, the following database connection properties can be edited:

- Database
- Server
- UserName
- Password
- UseWindowsAuthentication

**Note:** After making any changes to a web application within IIS, recycle the Application Pool.

## Authentication

OneGrade Web currently supports Windows Authentication and Forms-based login. These settings are accessed via the IIS Manager. Select the Web Application and click the Authentication settings:



### Windows Authentication Settings

Name	Status	Response Type
Anonymous Authentication	Disabled	
ASP.NET Impersonation	Enabled	
Basic Authentication	Disabled	HTTP 401 Challenge
Forms Authentication	Disabled	HTTP 302 Login/Redirect
Windows Authentication	Enabled	HTTP 401 Challenge

### Forms Authentication Settings

Name	Status	Response Type
Anonymous Authentication	Enabled	
ASP.NET Impersonation	Disabled	
Basic Authentication	Disabled	HTTP 401 Challenge
Forms Authentication	Enabled	HTTP 302 Login/Redirect
Windows Authentication	Disabled	HTTP 401 Challenge

**Note:** We recommend that Windows Authentication is enabled for users to log into OneGrade Web. It is advisable to set a password for the administrator account as a fall-back. Using Forms authentication for all users is not recommended and will be difficult to manage.

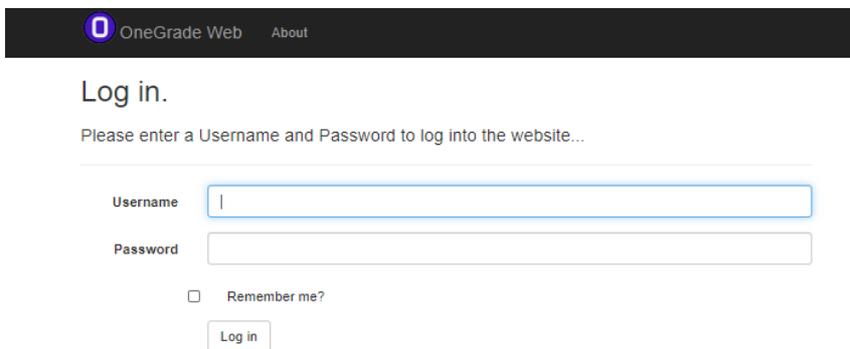
**Note:** After making any changes to a web application within IIS, recycle the Application Pool.

If Windows Authentication is switched on, and a user attempting to open OneGrade Web has not been recognised or their User Account has been disabled within the OneGrade Windows administration application, the following message will be displayed:

### Unable To login to the Website with Window Authentication

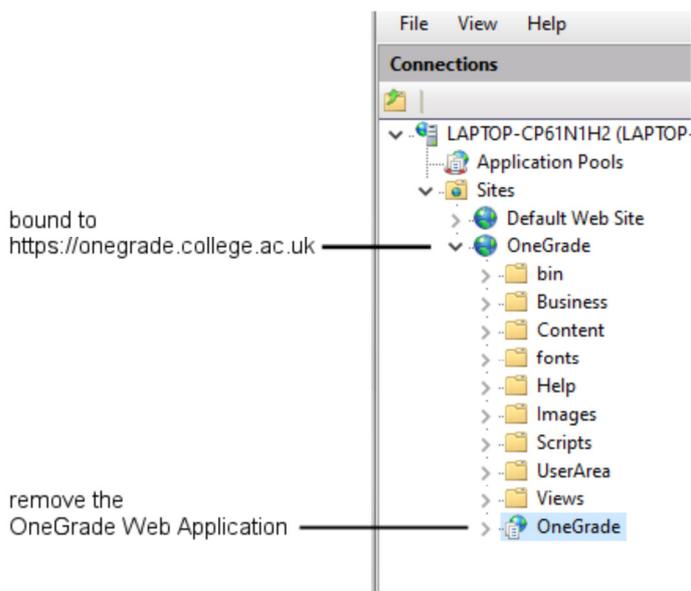
The Username 'andrew' is not a valid username within the system.  
 You may be able to login manually [here](#)  
 Please contact your system administrator who can help with this message.

Pressing the link will open the login page allowing you to log in with a username and password:



### Binding to https

If you bind the WebSite to https, and you link the files to the WebSite, you must remove the WebApplication to prevent errors occurring within OneGrade Web:

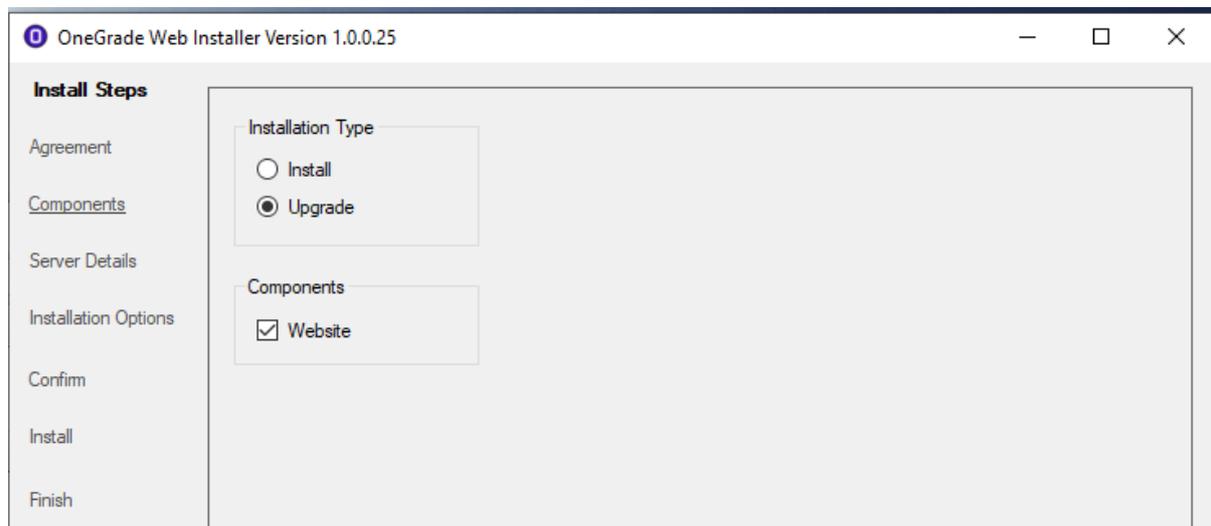


## Upgrade

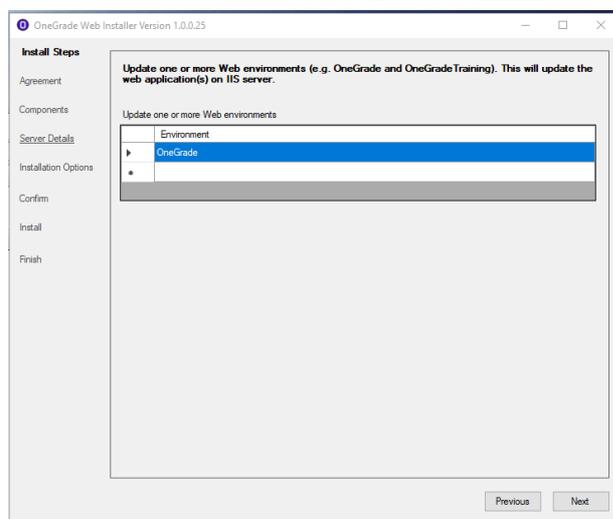
After extracting the installation files locally on the server on which IIS is installed, run the file installer.exe:

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Installer.exe.config	20/08/2020 10:25	XML Configuratio...	4 KB
Installer.pdb	20/08/2020 10:25	PDB File	54 KB

After ticking the Agreement checkbox and pressing next, you will be asked to Install or Upgrade. Select to Upgrade and press Next:

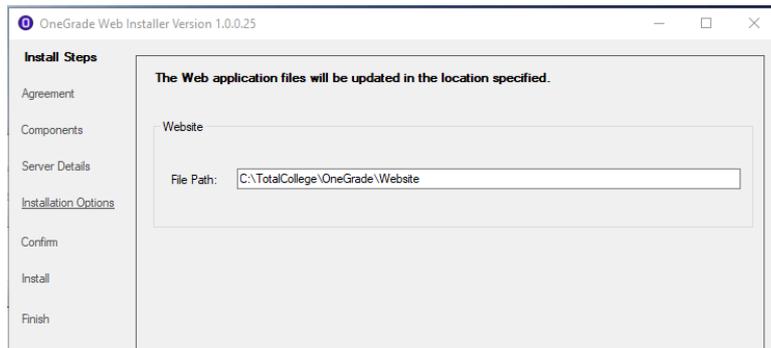


The Server Details step will show which Environment(s) to upgrade. The installation settings are stored, so the upgrader will display the same settings as used by the installer. For example, if you chose to install multiple environments (OneGrade and OneGradeTraining for example), these would both be shown on this step.

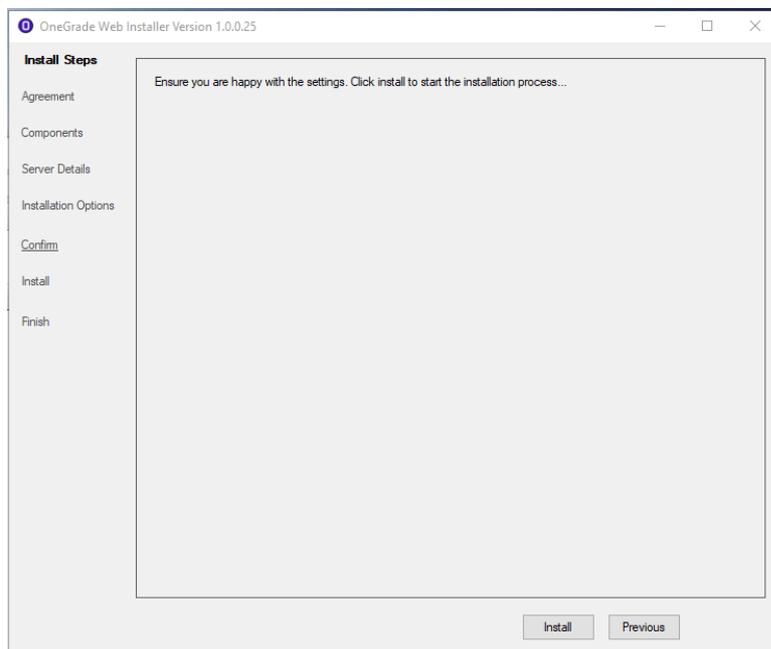


Press Next to continue to the Installation Options step.

The Installation Options step allows you to confirm the root location of the Web Application Files.

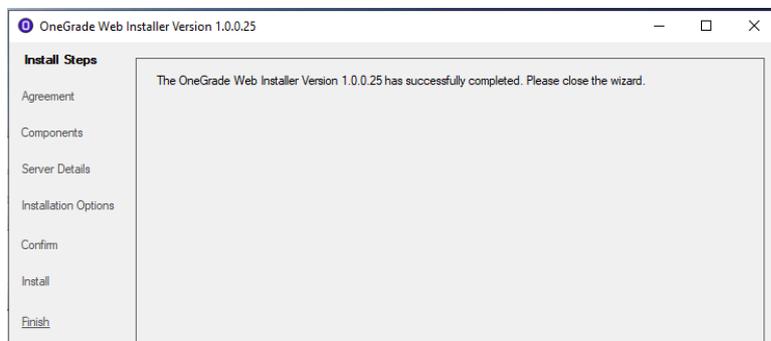


Press Next to continue to the Confirm step:



If you wish to proceed with the installation, press Install.

After a successful upgrade, the following message will be displayed:



**Note:** After upgrading, within IIS, recycle the Application Pool.

## Important - Configuring OneGrade Web for Use after Installation

Once OneGrade Web has been installed, use the OneGrade Windows Application to complete the following steps:

1. Enter a Web Module Licence Key into the OneGrade Windows Application. You will need to contact Total College Ltd. for a Licence Key.
2. Open the System Setting Values screen (Main Menu | System Maintenance | System Settings - Values). Enter the Website URL (so the website can be opened and the cache cleared from the Home screen). Enter the College Structure UDF (so that a college structure level can be used in the Web App e.g. Enrolment|UserDefinedString1).
3. Open the In Year Grade Web Settings screen (Main Menu | System Maintenance | In Year Grade Web Settings). Rename and show/hide the In Year Grade settings as necessary.
4. Open the User Defined Fields screen (Main Menu | System Maintenance | User Defined Fields). Rename the fields with a tablename of “n/a” as applicable.
5. Import Staff Users / Student Users / StaffTeachingGroups as necessary. You may manually create Staff Users – if you just need to create a few! You may need to alter the Enrolment or Course import dataset to cater for the College Structure UDF as described in Step 2. After any imports, you may need to re-summarise the data (Estimated vs Actual Analysis / English & Maths Analysis screens) and re-index the database (Home screen)
6. Refresh the Home screen to display the new licence keys. Clear the Website Cache.
7. It is recommended to recycle the OneGrade Web Application Pool(s) within IIS after an install / upgrade.

## General Configuration Notes

A summary of the new features that have been added to the OneGrade Windows Application are summarised below:

### New Grading Schemes

At the same time as releasing OneGrade Web, we have introduced support for two new cohorts of enrolments – Ofqual Graded and Ofqual NoGrade. This means that in addition to students enrolled on L3VA, CA and Pass-Only qualifications, all other qualifications are now supported. InYear progress can be recorded and analysed using OneGrade Web for all qualifications. The NoGrade and Ofqual Graded grading schemes can be maintained using the facilities available on the Reference Data menu.

### Importing

With the introduction of the NoGrade and Ofqual Graded cohorts, analysis is no longer restricted to just Level 2 and Level 3 qualifications. Therefore, your import datasets should now be adapted to import all students and enrolments at all levels across college for whom you wish to record InYear progress. Please note that extra import fields have been added to the Enrolment Imports (VA and EM) in August 2020 to support OneGrade Web. There are also new StaffTeachingGroup, StaffUser and StudentUser imports as well.

### Pass/Fail Qualifications – Grades and Points

From this facility – available from the Reference Data menu, there is a new flag – “View on Website”. Those Grades set to True will be available for selection in OneGrade Web when recording InYear progression.

### User Defined Fields

A set of new “...Target Grade” and “Student Info...” User Defined Fields are available to define how column headings / text is displayed in OneGrade Web.

### System Setting Flags

New “Allow English / Maths Starting Grades to be entered into OneGrade Web”, Import and Summary system settings have been added to support OneGrade Web.

### System Setting Values

The location of the OneGrade website and the college structure used by OneGrade web can be configured using the System Setting Values.

### InYear Grade Settings

InYear progress grades can be recorded up to 8 times per year. Use this facility to define how many times you wish to record InYear progress grades and the column heading names.

### User Accounts

To use OneGrade Web fully, a User Account must be linked to a member of staff. This will allow searches (College Structure and Teaching Groups) to be saved. An active User Account that is not linked to a member of Staff may still log into OneGrade Web however.

## Student Access to OneGrade Web

Student Accounts are imported into the OneGrade Windows Application. Students log into the same OneGrade Web Application as Staff in the same way. Student accounts are restricted to a single page to view selected read-only progress information:

The screenshot shows the OneGrade Web interface with a navigation bar at the top containing 'OneGrade Web', '19/20', and 'About'. A user greeting 'Hello!' and 'Log off' are visible on the right. A blue information box states: 'This page displays a National Target Grade (where available) and a Personal Target Grade set by your tutor for each of the main qualifications you are enrolled on. During the year, your tutor will periodically record progress grades so you can compare your progress to the target grade(s)'. Below this are two tables:

**Main Qualification Progress**

In Year Progress (1 Records)											
Group Code	Course Code	Learning Aim	1. Sept 2019	2. Nov 2019	3. Feb 2020	NTG	NTG+	PTG	Completion	Level	Final Grade
A063L001	A063	6003807X	P	P		P	M		Continuing	2	

**English / Maths Progress**

In Year Progress (2 Records)											
Group Code	Course Code	Learning Aim	1. Sept 2019	2. Nov 2019	3. Feb 2020	Minimum Target Grade	PTG	Completion	Level	Final Grade	
M062L111	M062	60147003	3	3		3		Continuing	2		
W003L111	W003	60148366	4	3		7	4	Continuing	2		

## Linking to OneGrade Web from other applications

To open a Teaching Group within OneGrade Web, if your application supports the generation of a URL, you should form a URL as follows:

<WebsiteURL>/Search/GroupDetail?RecordID=<TeachingGroupCode>&AcademicYearCode=<AcademicYearID>

e.g.

<https://onegrade.college.ac.uk/Search/GroupDetail?RecordID=Q101T01&AcademicYearCode=19/20>