**GOA Machine Installation and Configuration Instructions**

GOA Migration

**Version 1.8**

**November 15, 2018**

Approvals

|  |  |  |
| --- | --- | --- |
| **Roles and Names** | **Signatures** | **Date of Approval** |
| Brad Schnabl |  | June 1 2018 |

Revision History

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| 0.02 | 25-May-2018 | Aaron Champagne, Junior Analyst | Changes related to adding GOA account as administrator |
| 0.03 | 28-May-2018 | Aaron Champagne, Junior Analyst | Brad Schnabl working copy |
| 0.04 | 29-May-2018 | Aaron Champagne, Junior Analyst | Proper document format, added IIS instructions to fix PDFNet issues. |
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| 1.2 | 04-June-2018 | Aaron Champagne | Adding instructions for:  Logging into my.visual.studio.com  Mapping source code to C:\\_LOCALdata\Source |
| 1.3 | 05-June-2018 | Aaron Champagne | Moved Visual Studio Install forward  Moved Steup Event Logs forward |
| 1.4 | 05-June-2018 | Aaron Champagne | Added various troubleshooting fixes  Removed duplicated instructions from Visual Studio installation  Update Resharper instructions added |
| 1.5 | 06-June-2018 | Aaron Champagne | Removed UpdateIIS script instructions.  Reboot Admin instructions changed |
| 1.6 | 27-June-2018 | Aaron Champagne | Added SSRS Instructions  Changed order of SSDT Instructions |
| 1.7 | 26-Sept-2018 | Aaron Champagne | Adding instructions for Activating Bitlocker. |
| 1.8 | 11-Nov-2018 | Aaron Champagne | Removed instructions for ActiveBatch 9 and addd link to instructions for ActiveBatch 11 |
| 1.9 | 12-Dec-2018 | Brad Schnabl | Added intructions for ActiveBatch 12 and removed ActiveBatch 11 |
| 1.10 | 13-Dec-2018 | Brad Schnabl | Added instructions for NodeJS, Angular/CLI, URL Rewrite Module for IIS, |

Peer Reviews (if applicable)

|  |  |  |
| --- | --- | --- |
| Revision | Date | Reviewed by |
| 0.03 | 2018 | Brad Scnabl |
| 1.0 | 2018-05-31 | Aaron Champagne |

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# Document Usage

## Document Purpose

Step by step instructions for setting up the new computers that are arriving June, 2018. Previously, SFS staff worked from a combination of local machines and VDIs. Once finished with the instructions in this document, Business Analysts, System Testers and Developers will be able to complete all of their regular tasks from their local machine.

## Audience

Business Analysts, System Testers and Developers

# Before You Begin, Activate BitLocker

1. BitLocker Activation Instructions.docx can be found on SharePoint and should be completed before installing any software. BitLocker is a drive encryption technology and it runs MUCH faster on an empty drive, so activate BitLocker first.
   1. http://projects.wfd.alberta.ca/PWA/SA-Program/SA\_IT\_SITE/\_layouts/15/DocIdRedir.aspx?ID=W7JMZDVRVNQ3-2019753045-464
2. BitLocker CAN be activated after a drive has been used for some time, but will slow down your computer for several hours.

# Initial .Z Login and Administrator Privileges

1. Please save all your work before restarting your computer.
2. REBOOT / RESTART your computer.
3. After your computer has restarted, log in with your .Z ID and password as soon as you see the prompt.
4. Wait 5 minutes to prepare for another reboot/restart.
5. When 5 minutes has lapsed, REBOOT / RESTART your computer again.
6. Log in with your.Z ID and password again. Your.Z ID should now have local admin access on the requested computer/s. This completes your service request.

## Checking That Your .Z Account is an Administrator

1. Log into your GOA account.
2. Use the Windows Key to open a search for “Computer Management”
3. Right-click Computer Management and Run as Administrator
   1. Enter your .Z credentials
4. Navigate to Local Users and Groups > Groups > Administrators
5. If your .Z account is listed then you are an admin.

## If Your .Z Account Does Not Have Administrator Privileges

1. .Z accounts may have to be ported over to the new machine by Ken. If Ken is still hanging around installing machines then you can ask him if the request has been sent yet.
   1. You should still be able to download software while you wait.
2. .Z privileges may disappear even after you have confirmed that .Z privileges were available.
   1. You may have to email [Janet.Assaf@gov.ab.ca](mailto:Janet.Assaf@gov.ab.ca) to make a service request.
3. Once your service request is resolved be sure to verify that:
   1. Your .Z account is listed in the Administrators group (Computer Management)
   2. You can install software on your PC (try installing Notepad++ as it is fast and easy to download and install).

## Adding Your GOA Account to the Administrator Group

1. Use the Windows Key to open a search for “Computer Management”
2. Right-click Computer Management and Run as Administrator
   1. Enter your .Z credentials
3. Navigate to Local Users and Groups > Groups > Administrators
4. Add…
   1. Enter the object names to select: <FirstName.LastName>
   2. Check Names
      1. Highlight your GOA account
      2. OK
   3. OK
5. OK
6. Each time you reboot you will have to re-add your GOA account to the administrators group.

# General Houskeeping Tasks

## Disable OneDrive

1. In bottom right corner look for the cloud icon and right click on it
2. Select settings
3. Go to the setting tab and uncheck “Start OneDrive automatically when I sign in to Windows” and push Ok
4. In bottom right corner look for the cloud icon again and right click on it again and select Quit OneDrive
5. When prompted click Ok

## Creating a Restore Point

1. Use the Windows key to open a search for “Create a Restore Point”
2. On the System Protection tab make sure Protection is turned on for both of your drives
3. Create…
   1. Enter a name for your restore point “Brand New Machine”
   2. Create

## Mapping Network Drives

Your network drives should automatically be mapped when you first log in. You can check to see if your drives are already mapped by opening CMD and typing “M:” or by visiting the M: in File Explorer. If your network drives are unmapped, then follow these instructions:

1. Open Windows Explorer
2. Click on This PC
3. In the ribbon at the top of Windows Explorer click Map Network Drive and enter the following information:
   1. Drive: M: ([\\GOA\SHARED\AE](file://GOA/SHARED/AE))
   2. Folder: \\GOA\SHARED\AE

## Set Powershell and Command Prompt to Run as Administrator

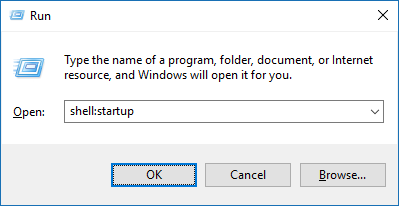
1. Use the Windows Key to open a search for “PowerShell”
2. Right-click on PowerShell and pin it to the taskbar
3. Right-click on PowerShell in the taskbar and select “properties”
   1. On the Shortcut tab click Advanced
      1. Run as Administrator: checked
      2. OK
   2. OK
4. Repeat the steps above for Command Prompt

## Set Skype For Business So Others Can See Your Presence

1. Open Skype for Business > Options > Status
2. Select the option “I want everyone to be able to see my presence regardless of system settings…”

## Set Microsoft Outlook and Skype For Business to Run on Startup

1. Open Internet Explorer and navigate to:
   1. <https://superuser.com/questions/1168835/starting-outlook-automatically-in-windows-10>
2. Bring up Run dialog Win+R
   1. Type shell:startup

[](https://i.stack.imgur.com/7YapR.png)

* 1. Copy the shortcut to Outlook to the Startup folder:
  2. Right click on the Outlook shortcut from your start menu
  3. Select Open file location
  4. Copy the shortcut for Outlook to the Startup folder
  5. Copy the shortcut for Skype for Business to the Startup folder

# Pre-Installed Software Packages

1. Use the Windows Key to open a search for “Software Center”
2. Within the Software Center > Applications you can view a list of applications that are ready to be installed.
   1. From here you can install the following software by clicking on each title and then clicking on Install (most or all of these programs may already be installed):
      1. Google Chrome
      2. Mozilla Firefox
      3. Igor Pavlov 7Zip x64
      4. Greenshot
      5. Oracle JRE Std
      6. Adobe Acrobat Reader
      7. Acro CutePDFWriter 2.x
      8. WRQ\_Reflections\_SFS-HUGH\_8.x
      9. Microsoft Visio Pro 2013
   2. You can also optionally uninstall the following software:
      1. Cisco\_AnyConnectMobileAccess\_4.x
      2. Microsoft\_VisualStudio\_Pro\_2013 (we will be installing a later version)
         1. WARNING: This action may take a full hour to complete.
         2. Open Windows Explorer and navigate to %localappdata%\Microsoft\VisualStudio\
            1. You may see folders for different versions of Visual Studio
            2. Within each version, there may be a \ComponentModelCache folder. Go into each \ComponentModelCache folder and delete the contents.
            3. This step my be repeated later on.
      3. Microsoft\_VisualC++Redist\_2013
      4. Both Greenshot and TechSmith Snagit come pre-installed and you may wish to remove one or both programs since they both have similar functionality. This step is optional.
      5. Developers may not need EaSynthSolution\_ForeUI\_4.x and wish to uninstall it. Business Analysts will likely need ForeUI for mocking screens and should keep it installed.
   3. The Installation Status tab also offers similar Install/Uninstall functions but includes a full list of the software installed on the machine.

# Downloading Software

## Balsamiq

1. https://balsamiq.com/download/
2. Download Mockups 3 For Windows (click)
   1. I Agree (click)
3. Save As and save file to your E:
   1. Balsamiq\_Mockups\_3.5.15.exe

## Fiddler

1. <https://www.telerik.com/download/fiddler>
2. Fill out the form as follows:
   1. Website development/debugging
   2. [your.email@gov.ab.ca](mailto:your.email@gov.ab.ca)
   3. Canada
   4. Alberta
   5. DO NOT agree to receive email communications
   6. I accept the Fiddler End User Agreement
3. Download for Windows
4. Save As and save file to E:
5. FiddlerSetup.exe

## Notepad++

1. <https://notepad-plus-plus.org/download/v7.5.6.html>
2. Click on the link for Notepad++ Installer 64-bit x64 (click)
3. Save As and save file to E:
   1. npp.7.5.6.Installer.x64.exe

## Visual Studio Professional/Enterprise 2017

1. [https://my.visualstudio.com/Downloads?q=Visual Studio 2017](https://my.visualstudio.com/Downloads?q=Visual%20Studio%202017)
   1. You may be prompted to log in to my.visualstudio.com. Your login ID should be your [firstName.lastName@gov.ab.ca](mailto:firstName.lastName@gov.ab.ca) email. Your password should be your regular GOA password.
2. Visual Studio Professional/Enterprise 2017 (version 15.7) should appear on the page. Read each option carefully.
3. Click the drop down with x64 and change it to x86
4. Download
5. Save As and save file to E:
   1. vs\_professional\_\_594472731.1526066655.exe (Example name file name. Your file name may differ).

# Installing SQL Server 2012/2016 and SQL Server Management Studio 2017

## Installing SQL Server 2012

An older set of instructions are here:

<https://cloud.eae.alberta.ca/sites/sfs/Wiki/SQL%20Server%202012%20Installation%20-%20Batch%20Script.aspx>

1. Create Directories in File Explorer for:
   1. C:\\_LOCALdata\Deploy
   2. C:\\_LOCALdata\SFSSQLData\Dev
   3. C:\\_LOCALdata\SQLSnapshots\DEV
2. Open CMD as <FirstName.LastName>, not <FirstName.LastName.Z>
   1. Use the Windows Key to open a search for “cmd”
   2. Right-click on Command Prompt and choose Run as a Different User.
      1. If the Run as Different User option is not available choose Open File Location
      2. Hold shift and right-click on the file in Windows Explorer
      3. Run as a Different User should be available.
   3. Enter your GOA credentials as GOA\<FirstName.LastName>
3. In Command Prompt enter the following commands:
   1. M:
   2. cd M:\SA\Systems\Software\SQL Server 2012 Developer Edition with SP1\\_GeneratedConfigFileForUnattendedInstallations
   3. Install\_SQL2012\_GOA.bat
4. You will be prompted for admin permission
   1. Yes
5. Dialogs will continue to appear, but they will not require user input.
6. At the completion, control will return to your Command Prompt and it will look like:

https://cloud.eae.alberta.ca/sites/sfs/WIKI%20Images/Database/SQL%20Install%20via%20Batch%20script/SQL%20Install%20-%20Install%20Complete%20-%20Command%20Prompt.PNG

1. A log of the installation is available at:
   1. C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\Summary.txt
   2. A successful installation will look like this:
      1. Overall summary:  
         Final result:                  Passed  
         Exit code (Decimal):       0  
         Start time:                   2018-04-26 15:39:32  
         End time:                     2018-04-26 15:52:19  
         Requested action:          Install
2. Run Microsoft SQL Server Management Studio as Administrator
   1. Yes
3. Add your GOA account as a SQL Server Sysadmin
   1. In Object Explorer > Security > Logins right-click on Logins
      1. New Login…
      2. Login name: FirstName.LastName
         1. Search…
            1. Enter the object name to select: GOA\FirstName.LastName
            2. Click Check Names
            3. Multiple Names Found window

Select your non-.Z account name

OK

* + - * 1. OK
      1. Leave Windows authentication selected
      2. In the left sidebar navigate to Server Roles
         1. Sysadmin: checked
         2. OK

## Installing SQL Server 2012 Service Pack 4

1. Open Command Prompt as Administrator
2. In Command Prompt enter the following commands:
   1. M:
   2. cd SA\Systems\Software\SQL Server 2012 SP4
   3. Install\_SQL2012\_SP4.bat
3. You will be prompted for credentials once
   1. Enter your GOA credentials as GOA\<FirstName.LastName>
4. Dialogs will appear during the installation, but they won’t require user input.
5. At the completion, control will return to your Command Prompt and it will look like:

https://cloud.eae.alberta.ca/sites/sfs/WIKI%20Images/Database/SQL%20Install%20via%20Batch%20script/SP4%20Install%20-%20Install%20Complete%20-%20Command%20Prompt.PNG

A log of the installation is available at:

* 1. C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\Summary.txt

1. A successful installation will look like this:
   1. Overall summary:  
      Final result:                  Passed but reboot required, see logs for details  
      Exit code (Decimal):        3010  
      Start time:                    2018-04-26 16:14:06  
      End time:                      2018-04-26 16:23:46  
      Requested action:           Patch
2. It is recommended to reboot after the installation.

## Installing SQL Server 2016 via Batch Script

Please follow the instructions found at this wiki page:

## <https://cloud.eae.alberta.ca/sites/sfs/Wiki/SQL%20Server%202016%20Installation%20-%20Batch%20Script.aspx>

## Installing SQL Server Management Studio 2017

1. Backup instructions can be found here:
   1. <https://cloud.eae.alberta.ca/sites/sfs/Wiki/SQL%20Server%20Management%20Studio%2017%20Installation.aspx>
2. Use Windows Explorer to navigate to the software location:
   1. [M:\SA\Systems\Software\SQL Server Management Studio\17.7](file://goa/Shared/AE/SA/Systems/Software/SQL%20Server%20Management%20Studio/17.7)
3. Double-click on SSMS-Setup-ENU.exe
   1. Click Run
   2. Click Yes
   3. Click Install
   4. When the installation is finished click Closed
4. You can manage your 2012 DB through SSMS 17!
   1. Open SSMS 17
   2. Connect: <machine Name>\DEV

# Installing Visual Studio 2017 and ReSharper

## Installing Visual Studio 2017

1. Open Windows Explorer and navigate to E:
2. Double-click on
   1. vs\_professional\_\_594472731.1526066655.exe or (Example name file name. Your file name may differ).
   2. vs\_enterprise\_\_594472731.1526066655.exe (Example name file name. Your file name may differ).
   3. Click Yes to allow the installer to make changes
   4. Click Continue
3. The Installer will open and give you the option to install various workloads. Install the following from the list:
   1. Universal Windows Platform development
   2. .NET desktop development
   3. ASP.NET and web development
   4. Office/SharePoint development
   5. Install
4. Search for Visual Studio 2017, right-click and open file location
   1. Right-click on Visual Studio and click Properties
      1. In the Shortcut tab select Advanced
      2. Check Run as Administrator
      3. ATTENTION: While running Visual Studio you can confirm that you are running as Administrator by looking at the top left of the application frame and seeing “ <<ProjectName>> - Microsoft Visual Studio (Administrator)”
5. Open Visual Studio 2017
   1. Sign in with your @gov.ab.ca email
   2. Choose your theme
   3. Start Visual Studio
6. Open Team Explorer
   1. Click Connect…
   2. Click Servers…
   3. Click Add…
      1. Name or URL of Team Foundation Server: [https://tfs.ae.alberta.ca/tfs/](https://tfs.ae.alberta.ca/tfs/SFS/SFS%202.0/_versionControl)
      2. Protocol: HTTPS
      3. OK
      4. Enter your .Z credentials
   4. Select the Team Projects you need:
      1. *I chose SFS 2.0 and no others*
   5. Configure your workspace mappings
      1. C:\\_LOCALdata
      2. Be sure only to grab the latest branch. Your path should look like:
         1. $/SFS 2.0/AMS/18.0
   6. Map & Get
7. Open FullSolution.sln
   1. Build the solution
8. Install Missing Features dialog may open
   1. Select Install
   2. Click Install (You may have to close Visual Studio first)
   3. When installation is complete restart your computer.

## Installing ReSharper

1. Open Windows Explorer and navigate to
   1. M:\SA\Systems\Software\Jetbrains
2. Right-click on JetBrains.ReSharperUltimate.2017.2.2.exe and Run as Administrator
   1. Yes
3. A setup screen will appear. Set the following values:
   1. ReSharper 2017.2.2: Install
   2. dotCover 2017.2.2: Install
   3. Visual Studio Integration: 2010, 2015, 2017
   4. I have read and accept the license agreement: checked
   5. Next
4. Click Install
5. When the installation is finished click Exit.
6. Open Visual Studio (repeat these steps for both 2015, and 2017)
7. Accept the terms and conditions
8. Use your JB account to register ReSharper
   1. You can view your JB account name by logging into your VDI, going into Visual Studio, selecting ReSharper from the menu bar, and then choosing License Information.
9. In the Menu bar go to Resharper > Help > Check for Updates
   1. Select Update for you installed products
   2. Accept the terms and conditions
   3. Next
   4. Install
10. If you have issues then repeat these steps and choose the Repair option instead of Install.

## Installing SQL Server Data Tools 2017(SSDT)

1. Open Internet Explorer and navigate to:
   1. <https://docs.microsoft.com/en-us/sql/ssdt/download-sql-server-data-tools-ssdt?view=sql-server-2017>
   2. Download SSDT for Visual Studio 2017 (15.x.x)
   3. Save the installer to the E:
      1. SSDT-Setup-ENU.exe
2. Open Command Prompt
   1. Enter the following commands
      1. E:
      2. SSDT-Setup-ENU.exe /layout
         1. This will add two folders to E: (payload and redist) and download all the packages there for us to use directly.
3. Open File Explorer and navigate to
   1. E:\payload
   2. Double-click on vsta\_setup.exe
      1. Select Install
      2. Yes
   3. Double-click on Microsoft.DataTools.ReportingServices.VSIX
      1. Select Install
      2. Yes
   4. Double-click on Microsoft.DataTools.IntegrationServices.VSIX
      1. Select Install
      2. Yes
4. Restart your computer

## Set up SSRS on your workstation

In order to set the initial security for SSRS:

1. Start Internet Explorer as Administrator
2. Go to the Reporting Services manager website for the instance:
   1. http://localhost/Reports\_DEV13/Pages/Folder.aspx
3. Select Site Settings > Security > New Role Assignment and add the following identities as a System Administrator:
   1. Your non-admin account
   2. GOA\SFS-G-DBA-DEV-TEST
4. Select Home > Folder Settings and add New Role Assignments:
   1. Your non-admin account -- > Content Manger
   2. LAN\\_SFSR2.Web.SYST --> Content Manager
   3. LAN\\_SFSR2.Web.DEVL --> Content Manager
   4. GOA\SFSR2-Web-SYST.S --> Content Manager
   5. GOA\SFSR2-Web-DEV.S --> Content Manager
5. You should now be able to Build and Publish the reporting solution from Visual Studio to your local machine.

# Visual Studio Code

## Installing Visual Studio Code

1. Go to <https://code.visualstudio.com> and download the latest stable version of Visual Studio Code.
2. Run Visual Studio Code executable.
3. I accept the agreement and push next.
4. Leave the default installation path and push next.
5. Leave the detault Start Menu Folder and push next.
6. Only select the Add to PATH check box and push next.
7. Push Install.
8. Launch Visual Studio Code.

# GIT

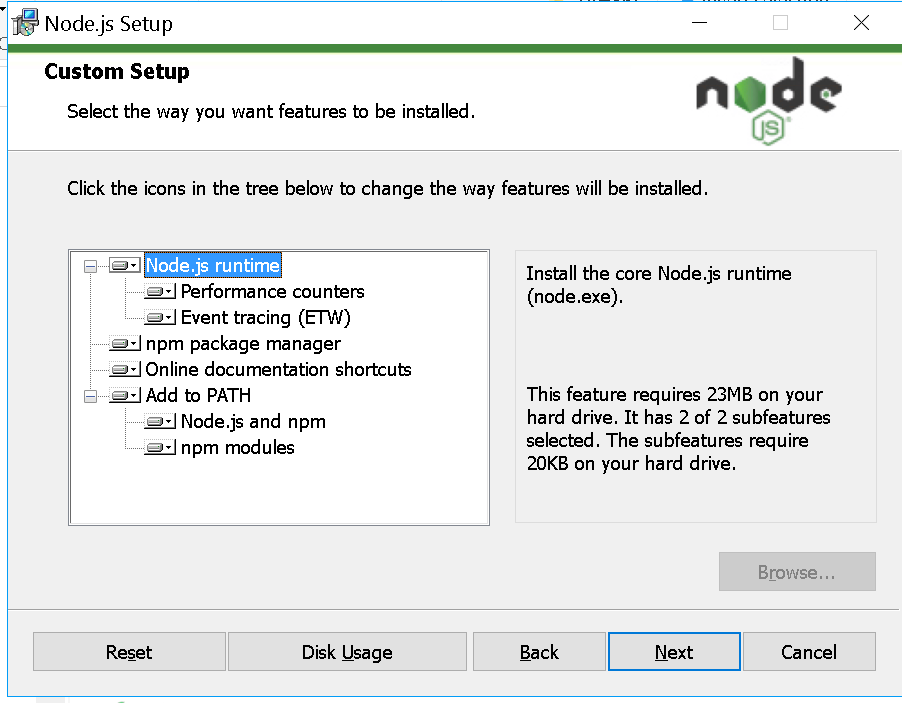
## Installing GIT

1. Go to <https://git-scm.com/download> and download the latest source release.
2. Run Git executable.
3. When you see the GNU General Public License push next.
4. Leave the default installation path and push next.
5. Leave the components as default push next.
6. Leave the deatuls Start Menu Folder and push next.
7. For the default editor used by Git select **“Use Visual Studio Code as Git’s default editor”.**
8. For Adjusting your PATH environment select **“Git from the command line and also from 3rd-party software”.**
9. For HTTPS transport backend select **“Use the Open SSL Library”**
10. For line ending conversions select **“Checkout Windows-style, commit Unix-style line endings”**
11. For terminal emulator to use with Git Bath select **“Use Windows’ default console window”**
12. For the extra options select **“Enable file system caching”** and **“Enable Git Credential Manager”** and push install

# NodeJS

## Installing NodeJS

1. Go to <https://nodejs.org/dist/v10.14.1/node-v10.14.1-x64.msi> and download this version.
2. Run the NodeJS msi file.
3. When the setup wizard starts push next.
4. Push the Accept the terms check box and push next.
5. Leave the default installation location and push next.
6. For the Custom Setup leave the features as default and push next.



1. Push the Install button.
2. Push the finish button.

# Angular and Command Line Interface

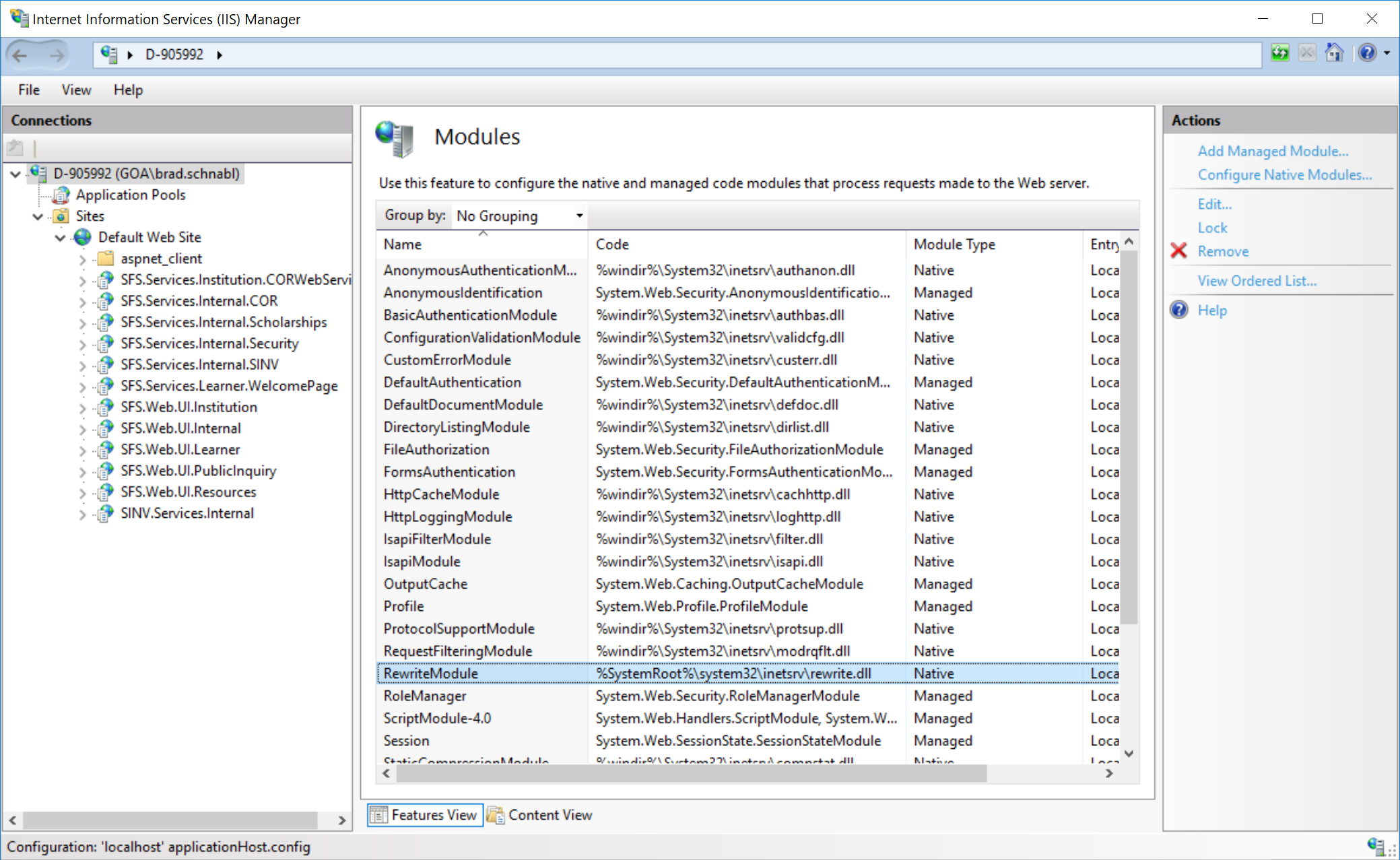
## Installing Angular and Command Line Interface

1. Open Command Prompt as Administrator
2. Run the following command: "npm install -g @angular/cli"

# URL Rewrite Module 2.1 for IIS

## Installing the URL Rewrite Modile 2.1

1. Go to https://www.iis.net/downloads/microsoft/url-rewrite and download the MSI file.
2. Run the installer.
3. Select all default option when required.
4. Click the finish button to complete the installer.
5. Reboot your computer if required.
6. Open your IIS as administrator.
7. In the connections section select your machine name or if your on a server the server name.
8. In the features view select Modules
9. Make sure there is a Module in the list of Modules called RewriteModule.



# Git Source Control

## Get Welcome Page Code Base

1. Go to <https://tfs.ae.alberta.ca/tfs/sfs/WelcomePage/_git/ng-student-portal> and click on copy clone link.
2. Open command prompt as administrator.
3. Navigate to c:\\_LOCALdata\source.
4. Run the command “git clone [Paste Clone Link]” (Make sure you paste your link in that command)
5. Navigate to the folder c:\\_LOCALdata\source\ng-student-portal
6. Run the command “npm install”

# Internet Information Services

## Setup Internet Information Services (IIS)

1. Backup instructions can be found here:
   1. <https://cloud.eae.alberta.ca/sites/sfs/Wiki/Developer%20Quick%20Start%20IIS%20SetUp.aspx>
2. Open Control Panel
   1. Click Programs
   2. Click Programs and Features
   3. Click Turn Windows features on or off (left sidebar)
   4. A window with Windows Features will open
      1. Expand the Internet Information Services row.
      2. Expand the Web Management Tools row.
         1. Check IIS Management Console
      3. Expand the World Wide Web Services row.
      4. Expand the Application Development Features row.
         1. Check .NET Extensibility 3.5
         2. Check .NET Extensibility 4.7
         3. Check ASP.NET 3.5
         4. Check ASP.NET 4.7
         5. Check ISAPI Extensions
         6. Check ISAPI Filters
      5. Expand Common HTTP Features
         1. Check Default Document
         2. Check Directory Browsing
         3. Check HTTP Errors
         4. Check Static Content
      6. Expand Health and Diagnostics
         1. Check HTTP Logging
      7. Expand Performance Features
         1. Check Static Content Compression
      8. Expand Security
         1. Check Basic Authentication
         2. Check Request Filtering
         3. Check Windows Authentication
   5. Click OK and wait for the changes to take effect.
3. Use the Windows key to open a search and type “IIS Manager”
   1. Right-click on Internet Information Services (IIS) Manager and Run as Administrator
      1. Yes
   2. In the left sidebar navigate to
      1. <MachineName> > Application Pools
      2. In the main pane right-click DefaultAppPool and select Advanced Settings
         1. Set Enable 32-Bit Applications to False
         2. In the Advanced Settings menu scroll down to Process Model > Identity
            1. Change Lan\\_SFSR2.Web.DEV to Lan\\_SFSR2.Web.SYST by clicking on the ellipsis (…)

Click Set…

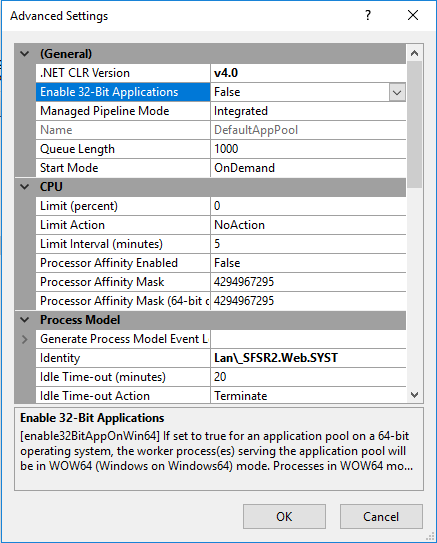
User name: Lan\\_SFSR2.Web.SYST

Password: N18J08j8D404uVs1

OK

OK

OK



* + 1. Select your top-level server from the left sidebar
       1. In the main pane choose Feature Delegation
       2. Authentication – Anonymous must be set to Read/Write
       3. Authentication – Windows must be set to Read/Write
  1. With the DefaultAppPool highlighted click on Start (right sidebar)
  2. Close IIS Manager

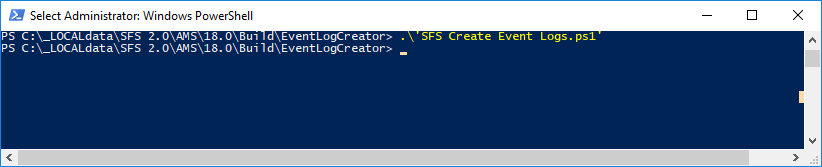
# Deploying the Database

## Setup SQL Server Session State

1. Backup instructions can be found here:
   1. <https://cloud.eae.alberta.ca/sites/sfs/Wiki/Setup%20SQL%20Server%20Session%20State.aspx>
2. Use the Windows Key to open a search for “Developer Command Prompt for Visual Studio”
   1. Run as Administrator
      1. Yes
   2. Paste the following command in and hit enter:
      1. Cd C:\Program Files (x86)\Microsoft Visual Studio 14.0
      2. aspnet\_regsql -S localhost\DEV13 -E -ssadd -sstype p
3. Open Microsoft SQL Server Management Studio
   1. Object Explorer > Databases > ASPState should exist
   2. Right-click ASPState and click Properties
      1. Verify that your GOA account is listed as the Owner

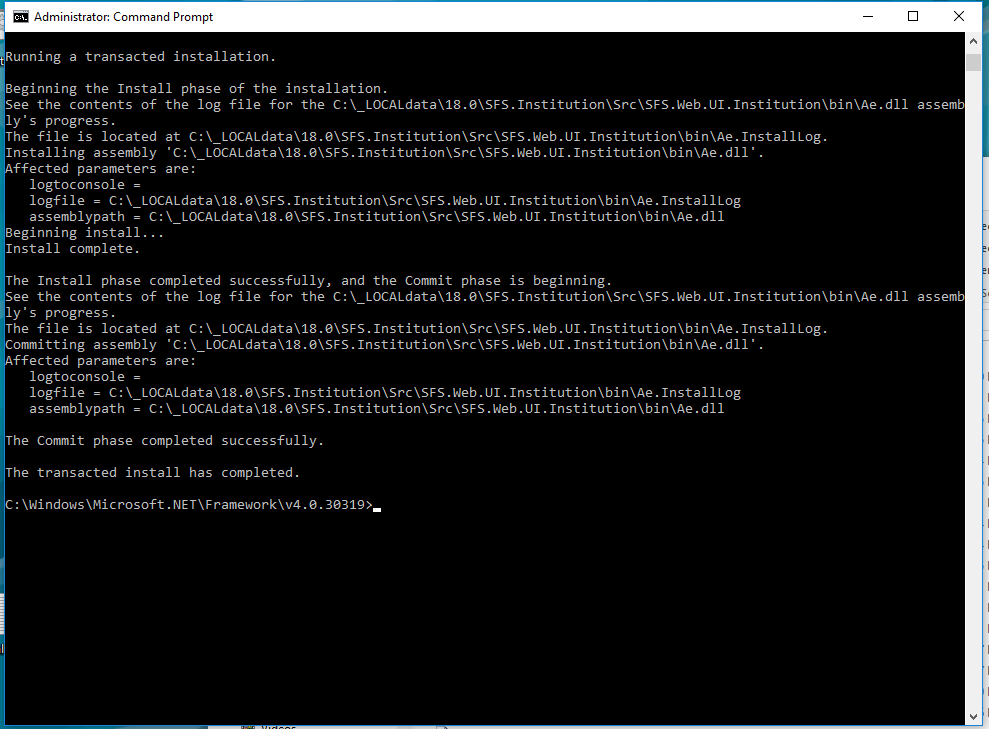
## Setup SFS Event Logs

1. Open PowerShell as Administrator
2. Navigate to C:\\_LOCALdata\SFS 2.0\AMS\18.X\Build\EventLogCreator
   1. Use cd .\<foldername>
3. Once you are in this root level execute the following command
   1. .\’SFS Create Event Logs.ps1’



## Register Ae.dll

1. Open Visual Studio and build the Full Solution if you have not yet already built a solution
   1. Open the Full Solution
   2. Build Full Solution
      1. You may need to Clean and then Build
      2. Take a moment to enjoy the *blazing* speed of your new machine
2. Open Command Prompt as Administrator and navigate to:
   1. C:\Windows\Microsoft.NET\Framework\v4.0.30319
   2. Enter the following command:
      1. InstallUtil.exe “C:\\_LOCALdata\18.X\SFS.Institution\Src\SFS.Web.UI.Institution\bin\Ae.dll”

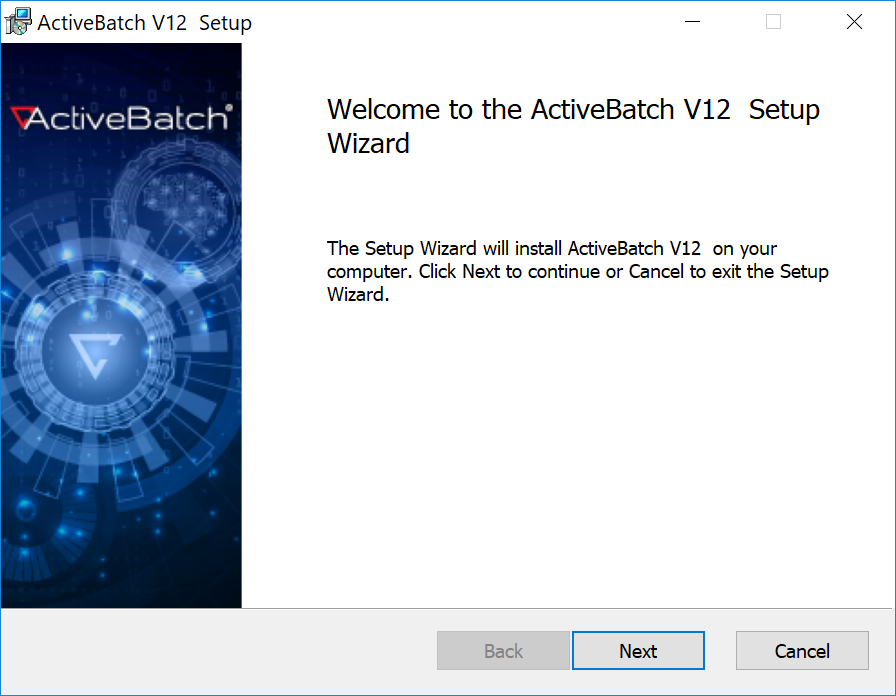


## Deploy SFS Database

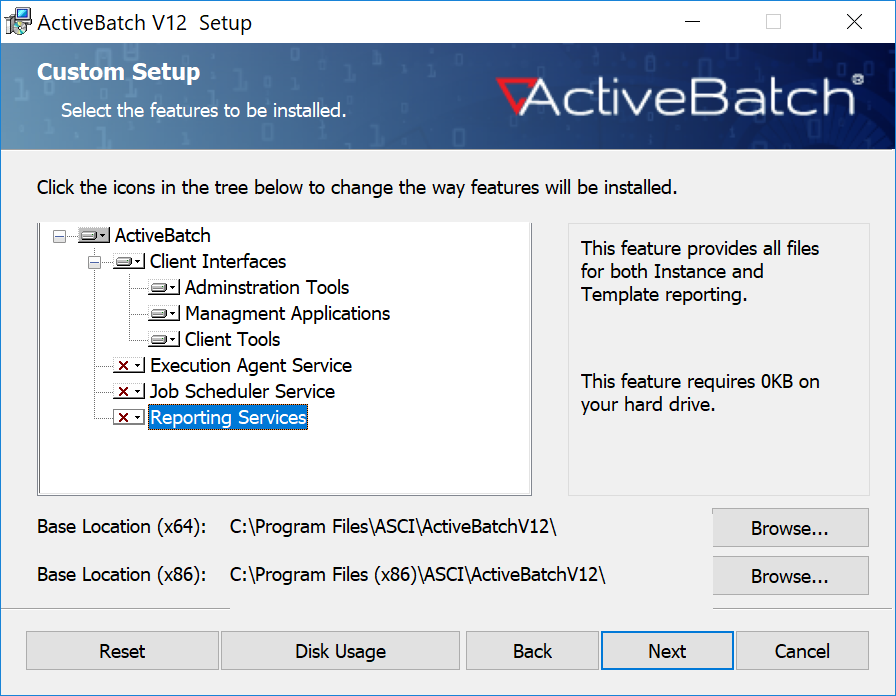
1. Open Microsoft SQL Server Management Studio, Run as Administrator
   1. Yes
2. Connect to <yourMachineName>\DEV
3. In Object Explorer verify that no SFS databases are present
4. Open Windows Explorer and navigate to:
   1. C:\\_LOCALdata\18.X\SFS.Database\Deploy\DeployScript\DeployByRestore
5. Double-click RestoreGOADevDatabase.bat

# Installing Active Batch

1. In File Explorer navigate to:
   1. S:\AE\SA\Systems\Software\ActiveBatch\ActiveBatch.12\
2. Copy ActiveBatch.msi to your E:
3. Double-click ActiveBatch.msi to open the Active Batch InstallShield Wizard

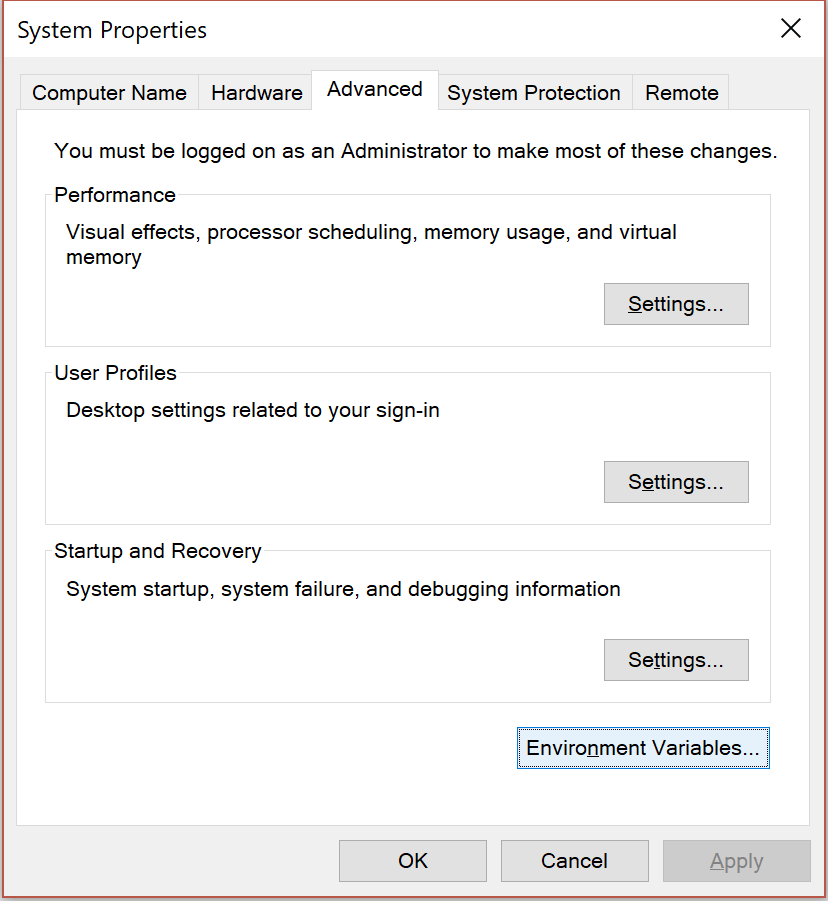


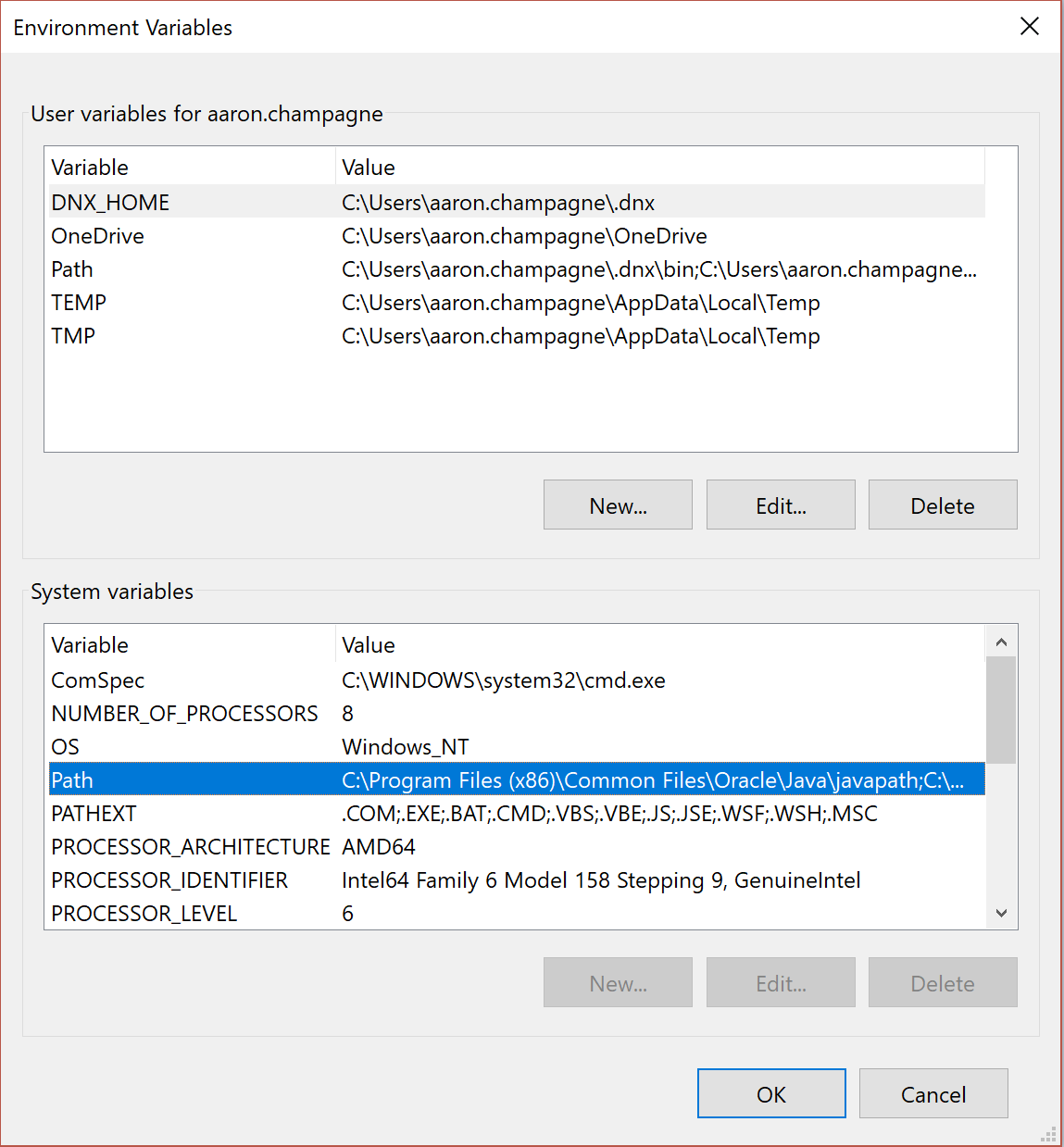
1. Click Next, then accept the Terms and Conditions, then click Next again
2. On the Customer Information page accept the defaults by clicking Next
   1. User Name: GoAdmin
   2. Organization GoA
3. On the ActiveBatch Feature Setup page we are **ONLY** installing the following 3 features:
   1. Adminstration Tools
   2. Management Applications
   3. Client Tools



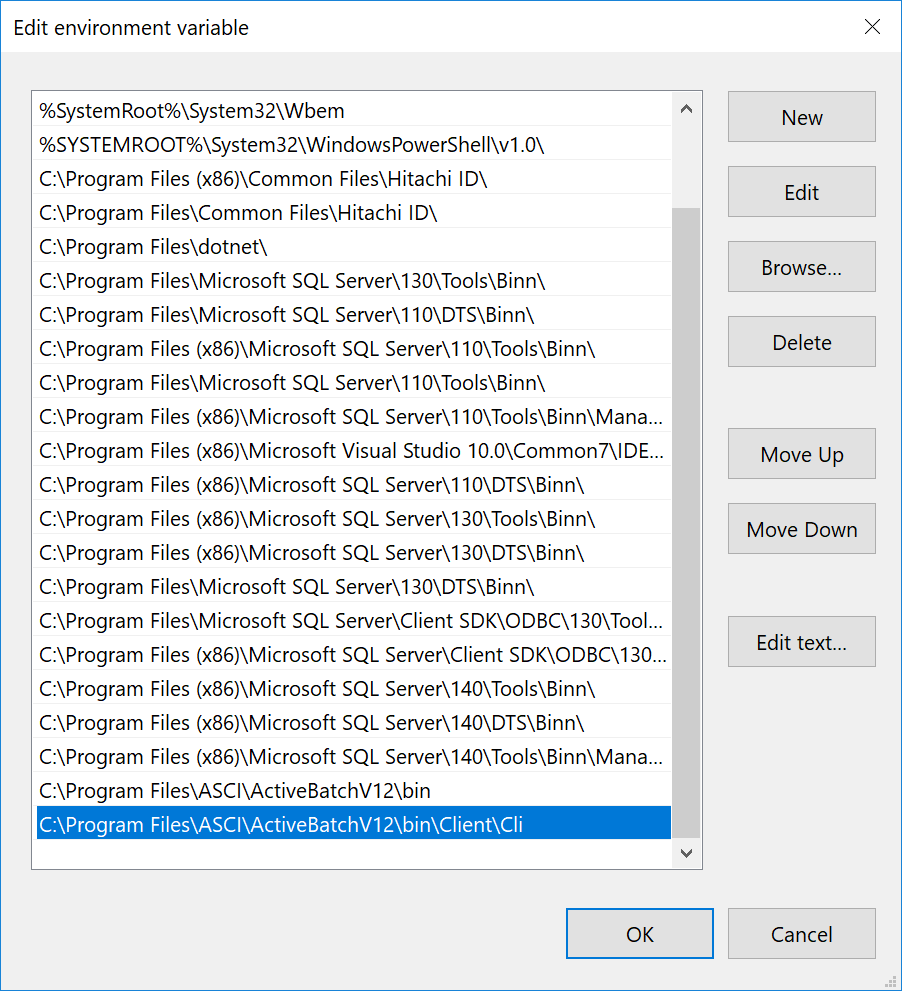
* 1. Click on all other features until they all have red x’s, then click Next

1. Ready to Install Program screen
   1. Click Install
2. InstallShield Wizard Completed
   1. Click Finish
3. **If you have never installed Active Batch 9 then you do not need to complete the following steps.**
4. Open the Start Search and type “env” and open “Edit the system environment variables”
   1. It will prompt you for credentials
5. In System Properties > Advanced tab, click Environment Variables





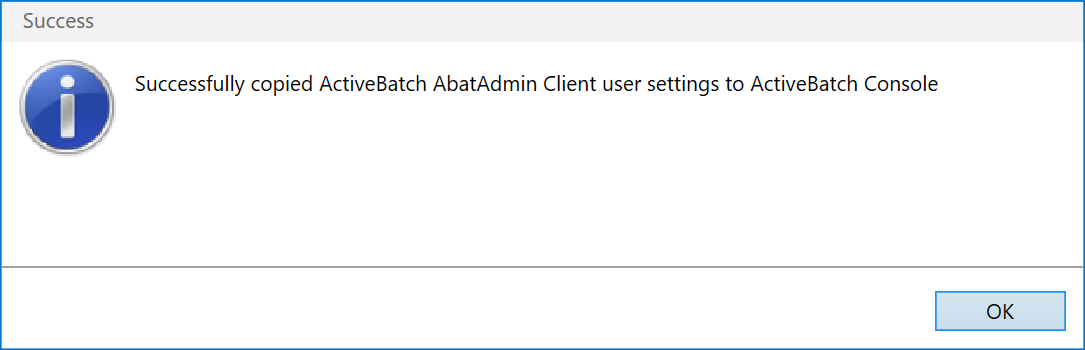
1. Under System variables select “Path” and click Edit…
2. Delete C:\Program Files\ASCI\ActiveBatchV9\



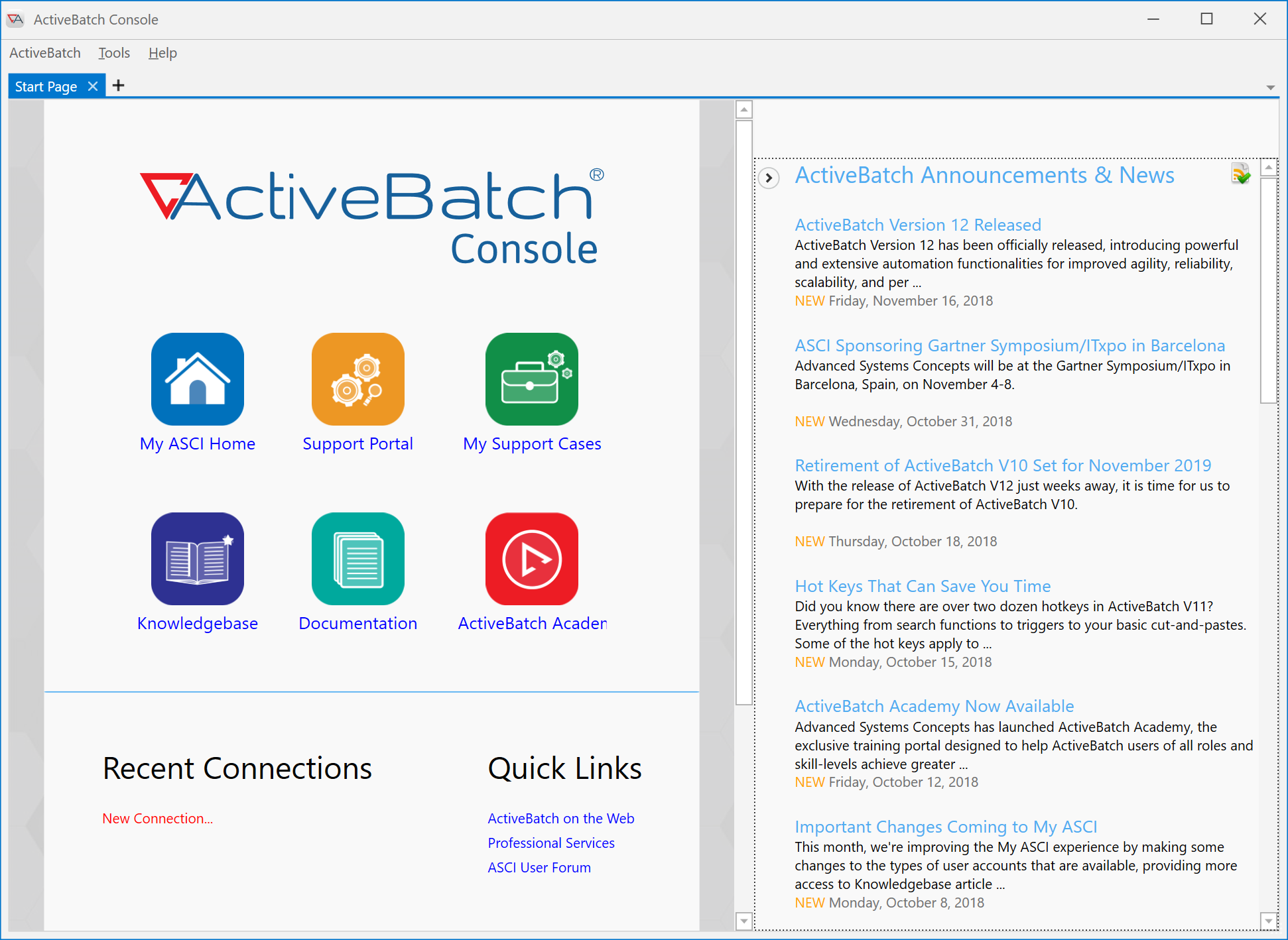
1. C:\Program Files\ASCI\ActiveBatchV12\bin\Client\Cli and C:\Program Files\ASCI\ActiveBatchV12\bin should stay in the list (see the bottom two entries pictured above).

# Running Active Batch

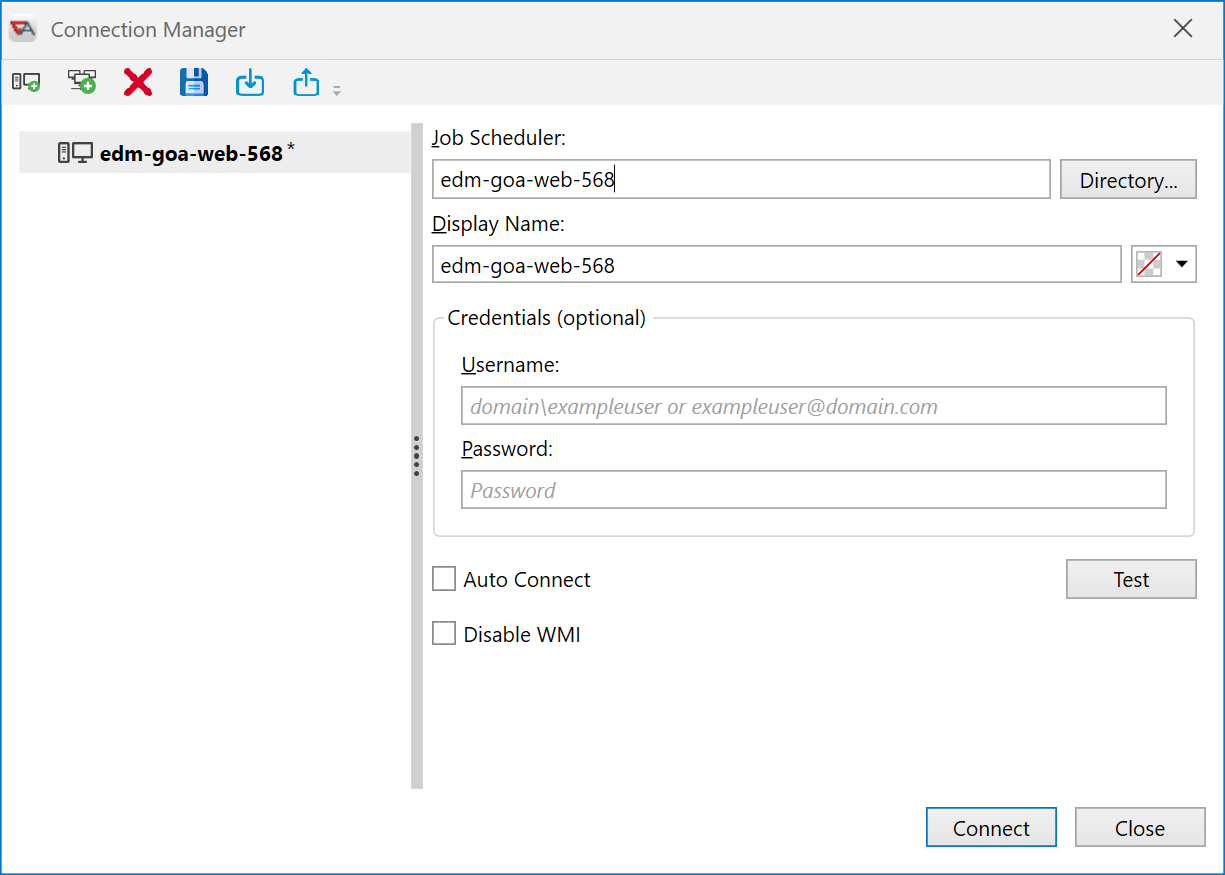
1. Use Windows Search to open ActiveBatch V12 Console
2. You should get a popup that indicates the following:



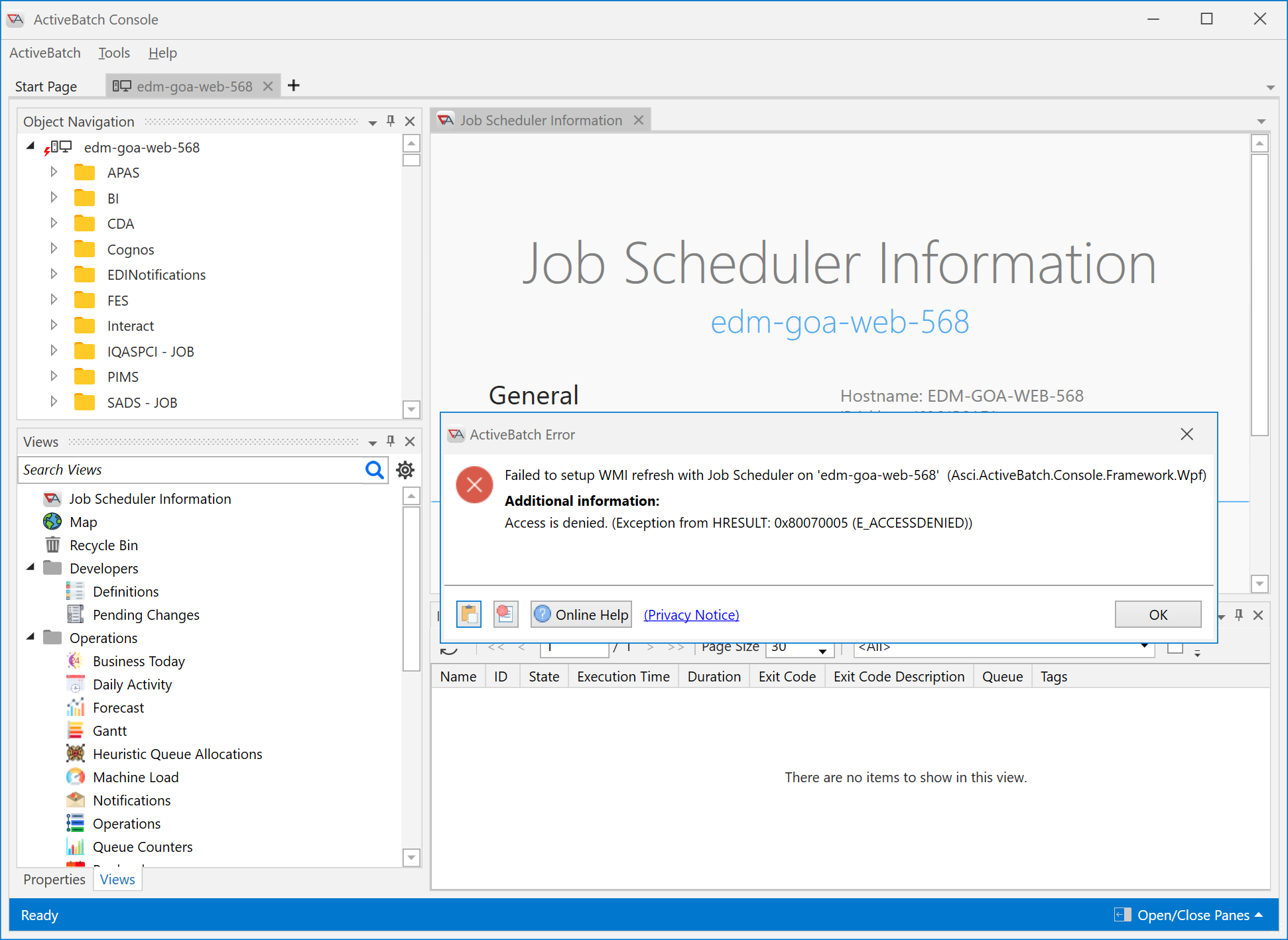
1. Select New Connection…



1. Enter and Connect to edm-goa-web-568

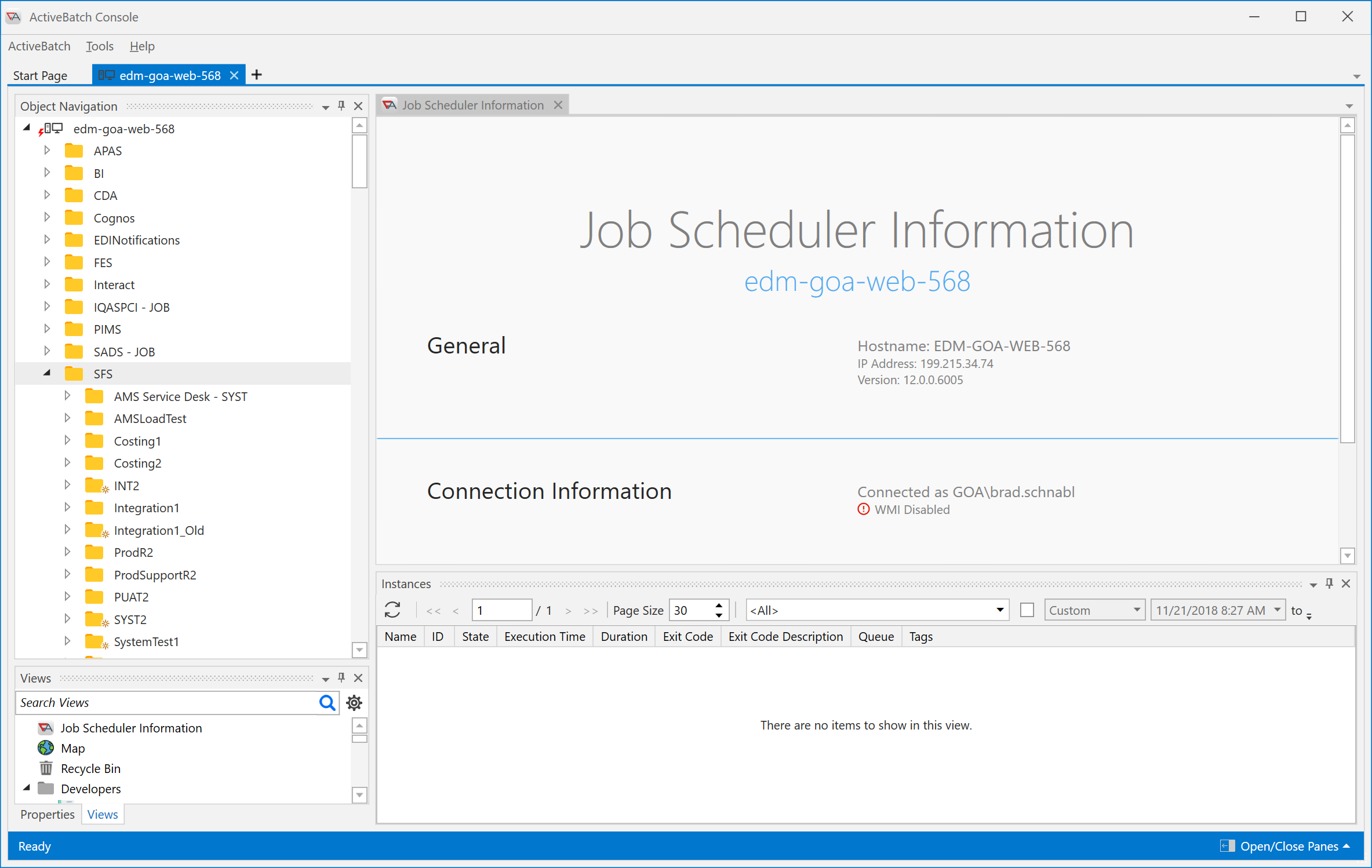


1. You may get an error stating:



* 1. Click OK

1. You are now connected to ActiveBatch 12. The interface is very different than V9.



1. For more information on how to use Active Batch V12 Console refer to the vendor instruction manuals S:\AE\SA\Systems\Software\ActiveBatch\ActiveBatch.12\Manual.

# Installing Miscellaneous Software

## Install Balsamiq

1. Double-click on Balsamiq\_Mockups\_3.5.15 and Balsamiq will install
2. A brief installation wizard will appear. Just click on Finish. It is up to you if you would like to run Balsamiq after installation.
3. Do not delete Balsamiq\_Mockups\_3.5.15

## Install Fiddler

1. Double-click on FiddlerSetup
2. You may be prompted with a blue screen stating "SmartScreen can't be reached right now"
   1. Click Run
3. User Account Control will prompt to ask if you want to allow FiddlerSetup to make changes.
   1. Click Yes
4. Agree to the License Agreement
   1. WARNING: C:\Program Files\Fiddler must be set as the Destination Folder
5. Click Next, then Finish
6. Do not delete FiddlerSetup

## Install Notepad++

1. double-click on npp.7.5.6.Installer.x64
2. You may be prompted with a blue screen stating "SmartScreen can't be reached right now"
3. Click Run
4. User Account Control will appear to ask for admin permission to make changes to the computer.
   1. Click Yes
5. Installer will prompt you to select a language.
   1. Click Next
6. Agree to the license agreement
7. C:\Program Files\Notepad++ will be set as the destination folder
8. Choose Components dialog will appear, accept the defaults
   1. Click Next
9. Do not check any of the boxes asking to not use %APPDATA%
   1. Click Next
10. Click Finish
11. Do not delete npp.7.5.6.Installer.x64

# Solution Upgrade Documentation Purposes Only

## Upgrading SFS.Report Solution

1. These steps are listed for documentation purposes only. They are only required to be executed once by one developer and the changes will need to be checked in.
2. Open SFS.Report project. When prompted to upgrade click Yes.
3. Make sure all pending changes to the following SFS.Report solution/project files are included:
   1. SFS.Report.rptproj
   2. SFS.Report.rptproj.bak
   3. SFS.Report.rptproj.rsuser
   4. SFS.Report.rptproj.vspscc
4. Clean solution. Build the SFS.Report solution (Should succeed). Deploy the SFS.Report solution (Should succeed).
5. Check in the changes to the latest AMS branch.
6. Work with the Congiuration Management team and DBA team to ensure the Build/Deployment process works on the build server.

## Upgrading the SFS.Database Solution

1. These steps are listed for documentation purposes only. They are only required to be executed once by one developer and the changes will need to be checked in.
2. Open SFS.Database project.
3. Right click on each SFS.Database Project file and select “Convert to SQL Server Unit Test project…”
4. After the SFS.Database projects have been upgraded you will notice the project files move to an outside folder. Move the project back to the correct folder.
5. Once you have converted all database project files perform a Build and ensure that there are no errors.
6. Work with the Congiuration Management team and DBA team to ensure the Build/Deployment process works on the build server.