

Team Foundation Server
on **Azure IaaS**
Supplement Guide
for
Exposing Data Tier

Visual Studio ALM Rangers

TFS on Azure IaaS Supplement – Expose the data tier (SQL Server Analysis Services)

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Expose the data tier (SQL Server Analysis Services)

Introduction

This addendum is a supplement for the main TFS on Azure IaaS guide, which delivers practical and scenario based guidance for the implementation of Team Foundation Server (TFS) on Azure IaaS.

In this supplement, we expose the data tier, as implemented in the Windows Azure proof of concept instance introduced in the main guide, allowing authorized users to create custom reports.

NOTE

Use this supplement in conjunction with its companion guides “TFS Planning Guide” and TFS on Azure IaaS”.

What you'll need

- Windows Azure proof of concept instance as introduced in the main guide

Visual Studio ALM Rangers


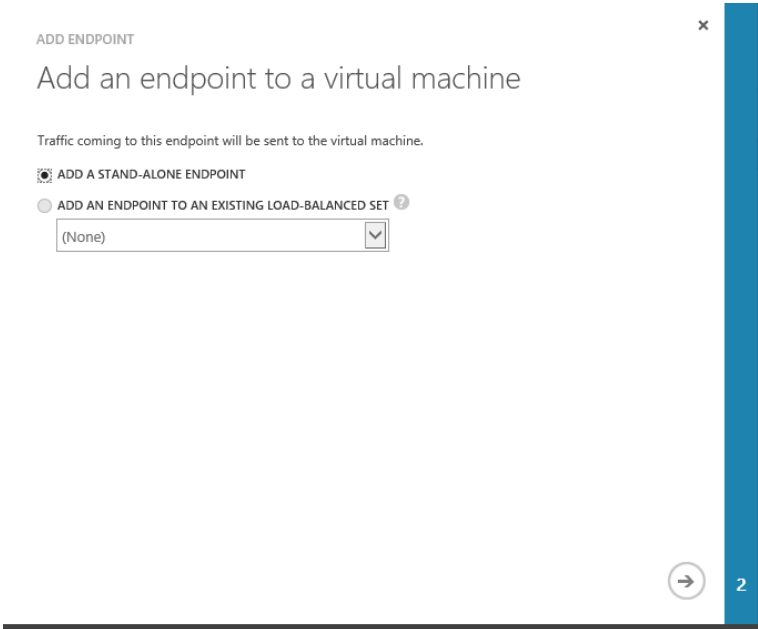
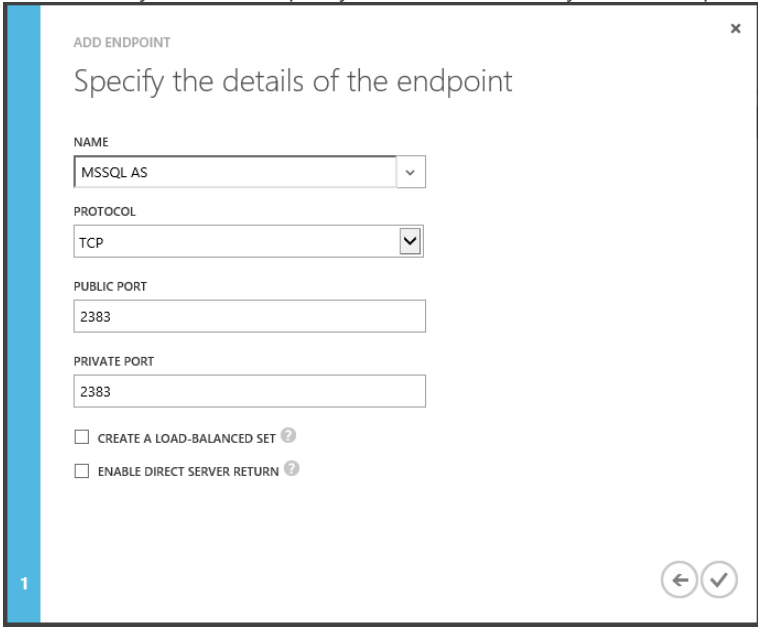
The Visual Studio ALM Rangers provide professional guidance, practical experience, and gap-filling solutions to the ALM community. They are a special group with members from the Visual Studio Product group, Microsoft Services, Microsoft Most Valuable Professionals (MVP), and Visual Studio Community Leads. Membership information is available [online](#)¹.

Additional ALM Rangers Resources

Understanding the ALM Rangers – <http://aka.ms/vsarunderstand>

Visual Studio ALM Ranger Solutions – <http://aka.ms/vsarsolutions>

Walkthrough


Step	Instructions
1 Add Endpoints for SQL Server ☐ - Done	<ul style="list-style-type: none"> On your Azure portal, select the data tier virtual machine. Select ENDPOINTS and click  Select ADD A STANDALONE ENDPOINT  <ul style="list-style-type: none"> Add a friendly NAME and specify the SQL Server Analysis Services port.  <ul style="list-style-type: none"> The default port is 2382 or 2383, which varies depending on the version of SQL Server you installed and the type of instance. Use SQL Server Configuration Manager to determine the ports which your deployment uses. Port 80 is needed for Reporting Services, giving us the following set of endpoints


TFS on Azure IaaS Supplement – Walkthrough


Step


Instructions

- Confirm the endpoint appears under ENDPOINTS.
az-ue-dt-01

 DASHBOARD

 MONITOR


 ENDPOINTS

 CONFIGURE

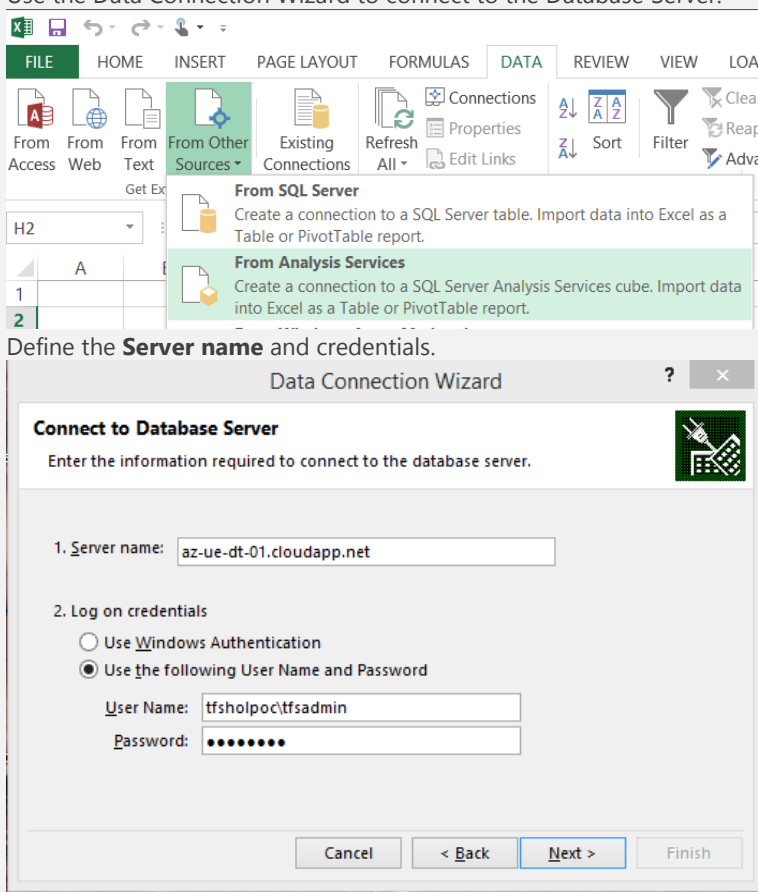
NAME	PROTOCOL	PUBLIC PORT	PRIVATE PORT
HTTP	TCP	80	80
MSSQL AS	TCP	2383	2383
PowerShell	TCP	5986	5986
Remote Desktop	TCP	63150	3389

3

Connect to SQL Server from outside Azure

 - Done

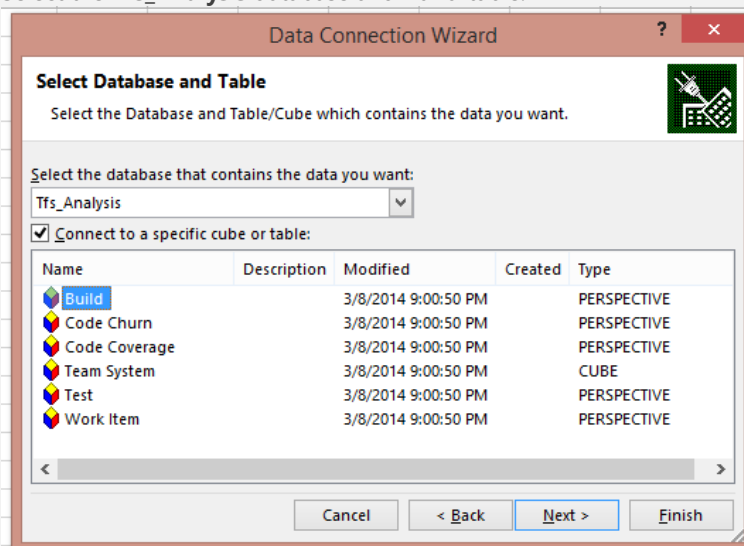
- Start Microsoft Excel.
- Use the Data Connection Wizard to connect to the Database Server.



The screenshot shows the Microsoft Excel interface with the 'DATA' tab selected. The 'From Other Sources' dropdown is open, showing options for 'From SQL Server' and 'From Analysis Services'. Below this, the 'Data Connection Wizard' is displayed, titled 'Connect to Database Server'. The wizard prompts the user to enter information required to connect to the database server. It shows the server name as 'az-ue-dt-01.cloudapp.net' and the login method as 'Use the following User Name and Password'. The user name is 'tfsholpoc\tfsadmin' and the password is masked with dots. The wizard has buttons for 'Cancel', '< Back', 'Next >', and 'Finish'.

- Define the **Server name** and credentials.

- Select the **Tfs_Analysis** database and **Build** table.

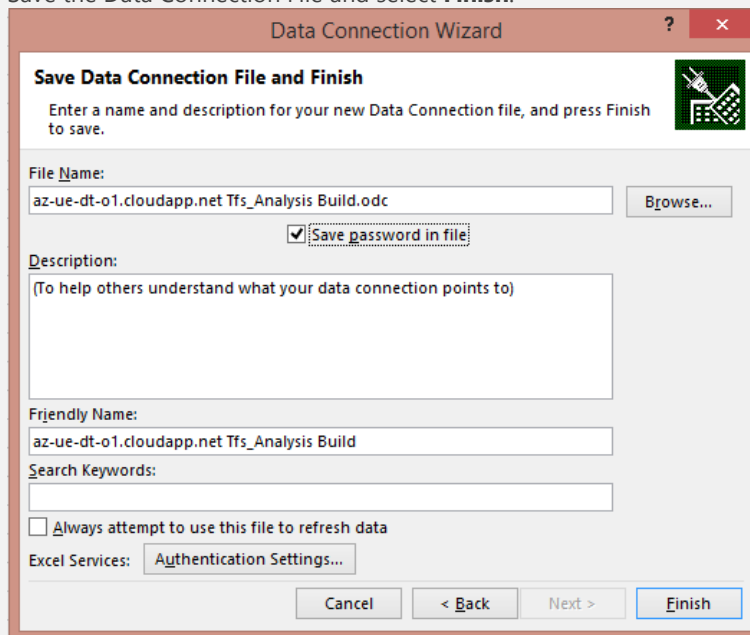


The screenshot shows the 'Data Connection Wizard' window, specifically the 'Select Database and Table' step. The title bar says 'Data Connection Wizard'. The main heading is 'Select Database and Table'. Below it, a subtitle says 'Select the Database and Table/Cube which contains the data you want.' There is a dropdown menu for 'Select the database that contains the data you want:' with 'Tfs_Analysis' selected. Below that, a checkbox labeled 'Connect to a specific cube or table:' is checked. A table lists available cubes and tables:

Name	Description	Modified	Created	Type
Build		3/8/2014 9:00:50 PM		PERSPECTIVE
Code Churn		3/8/2014 9:00:50 PM		PERSPECTIVE
Code Coverage		3/8/2014 9:00:50 PM		PERSPECTIVE
Team System		3/8/2014 9:00:50 PM		CUBE
Test		3/8/2014 9:00:50 PM		PERSPECTIVE
Work Item		3/8/2014 9:00:50 PM		PERSPECTIVE

At the bottom, there are buttons: 'Cancel', '< Back', 'Next >', and 'Finish'.

- Save the Data Connection File and select **Finish**.



The screenshot shows the 'Data Connection Wizard' window, specifically the 'Save Data Connection File and Finish' step. The title bar says 'Data Connection Wizard'. The main heading is 'Save Data Connection File and Finish'. Below it, a subtitle says 'Enter a name and description for your new Data Connection file, and press Finish to save.' There is a text box for 'File Name:' containing 'az-ue-dt-o1.cloudapp.net Tfs_Analysis Build.odc' and a 'Browse...' button. A checkbox labeled 'Save password in file' is checked. There is a text box for 'Description:' with the placeholder '(To help others understand what your data connection points to)'. There is a text box for 'Friendly Name:' containing 'az-ue-dt-o1.cloudapp.net Tfs_Analysis Build'. There is a text box for 'Search Keywords:'. There is a checkbox labeled 'Always attempt to use this file to refresh data' which is unchecked. There is a text box for 'Excel Services:' containing 'Authentication Settings...'. At the bottom, there are buttons: 'Cancel', '< Back', 'Next >', and 'Finish'.

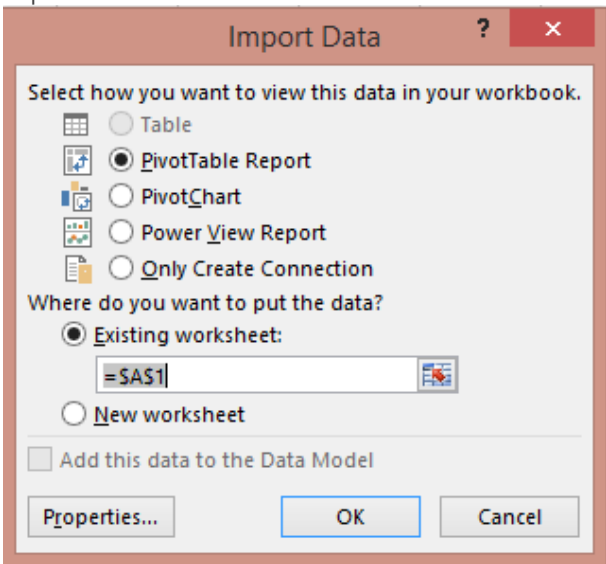
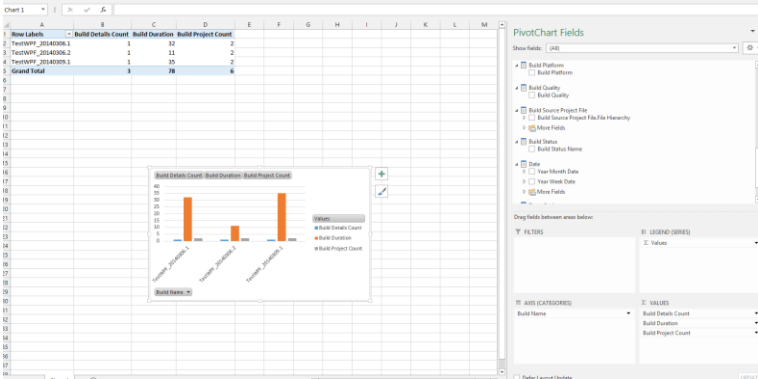
Step	Instructions
4 Create a test report ☐ - Done	<ul style="list-style-type: none"> Import the data.  <ul style="list-style-type: none"> Create a PivotTable Report 

Table 1 – Expose the data tier (SQL Server Analysis Services)