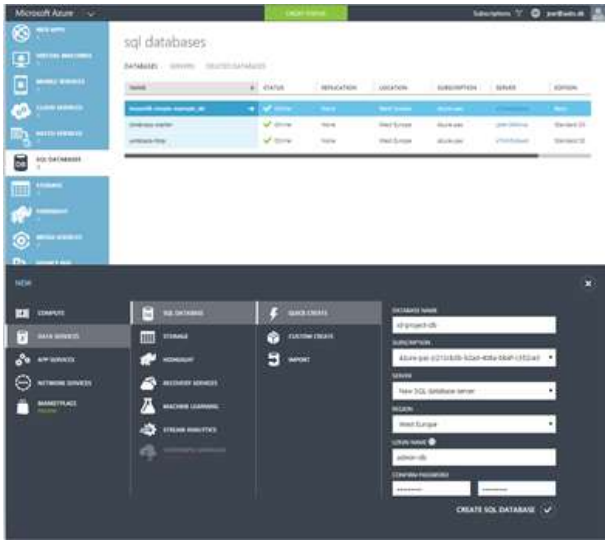
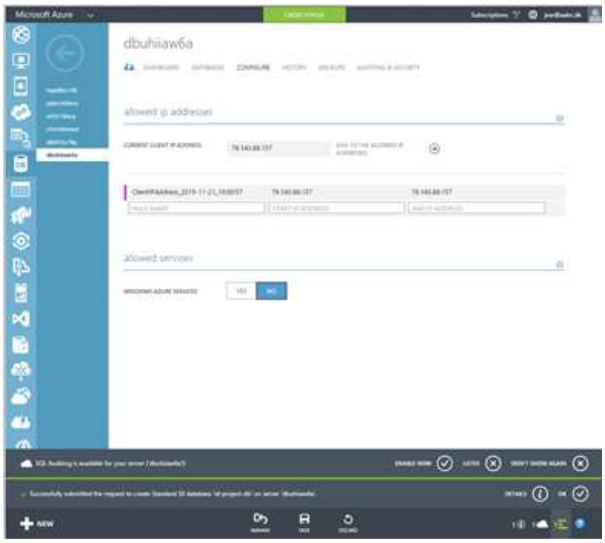
Deploy to Microsoft Azure

Create a SQL Database Server and SQL Database on Azure

In order to deploy, we need to migrate our database to Azure. Open the online Azure management portal and select the `SQL Databases` menu item. Choose the `Servers` menu tab, click `New` at the bottom left, and complete the prompts to create your server.



With the server created, navigate to the server's dashboard and click the `Configure` menu tab. You will see your IP address and you need to click the button to add it to the allowed IP addresses.

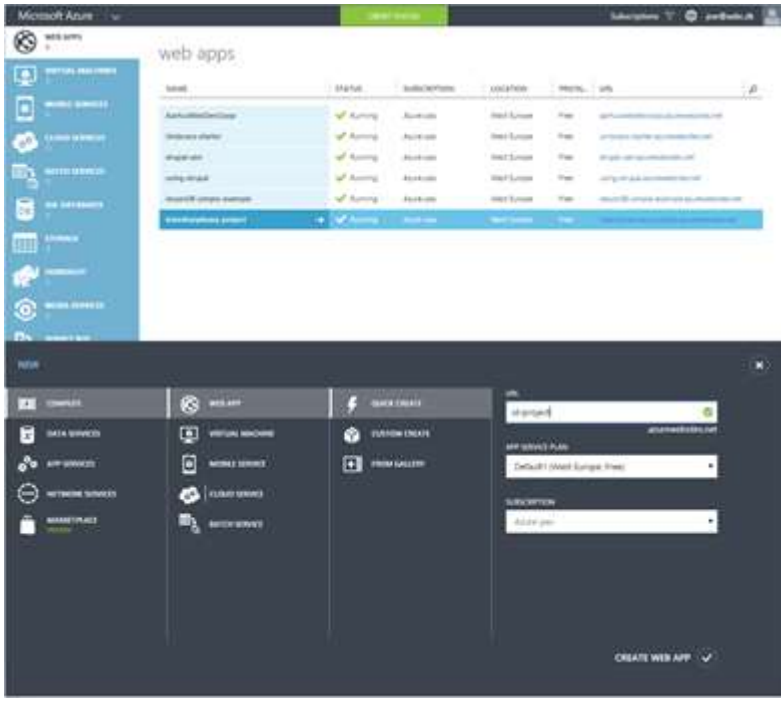


If you want you database to be public accessible you can give IP range of 0.0.0.0 to 255.255.255.255

Click the `Save` button. This will allow us to connect to the server through SSMS without the firewall blocking the connection.

Create a new website on Azure

Next, click the `Websites` section of the management portal main menu in the portal and select `New` > `Quick Create` and complete the form to create a website:



Export the local SQL Server database to Azure

Now, open SQL Server Management Studio (SSMS) and, in the server name field, enter`your_database_sever_name.database.windows.net.` (You need to replace the first subdomain to match your server in Azure. You'll find the name of you database server on Azure if you go to the `Database` > `Dashboard` > `Show connection strings`). In the authentication section, enter the credentials you established when creating the server in the Azure management portal. Click connect. You should see your server appear in the object explorer pane.

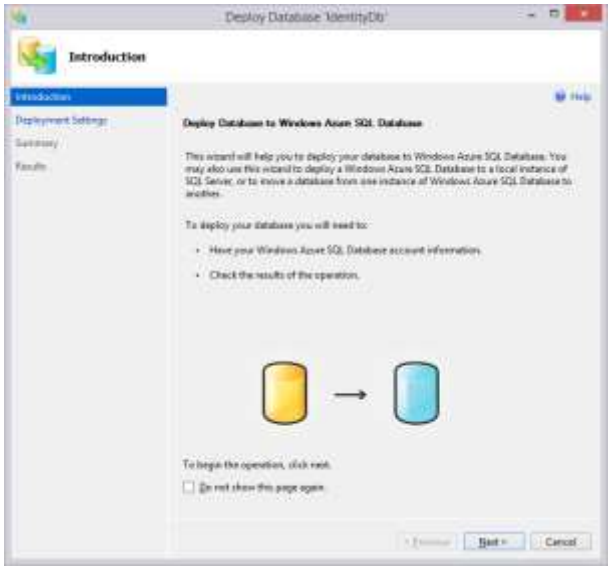
In the object explorer pane of SSMS, click the connect dropdown and select database engine. In the `Server name` field, enter `(LocalDB)\MSSQLLocalDB` and choose `Windows Authentication` in the authentication dropdown.

Expand the LocalDB connection in the object explorer, followed by the databases folder.

Right-click on the project database. Select `Tasks` > `Deploy Database to Window Azure Database`.

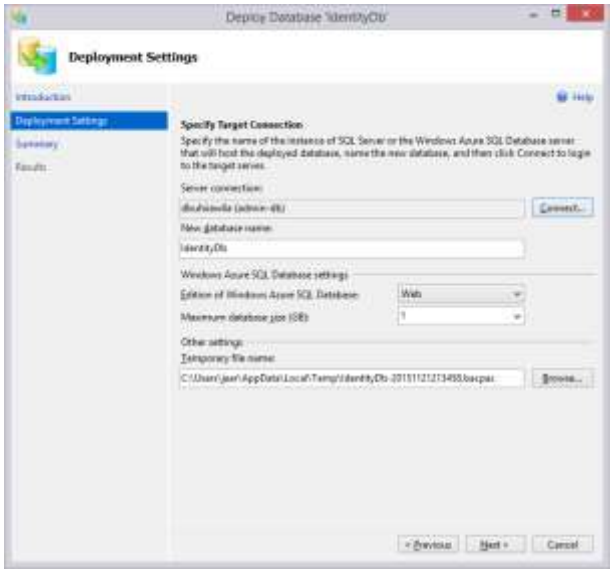
Notice

If you run into problems here because SSMS will not open the LocalDB database file, you must go into Visual Studio and export scripts from each table. Open the Server Explorer. Right click each table and choose Open `Table Definition`. Start a text editor. Open a new text file and copy the SQL for each table into that file. Right click the same tables once more and choose `Show table data`. Right click somewhere inside the table grid and choose `Script`. Copy the INSERT statements into the text file. When you've done that for all tables, you're ready to go back to SSMS and open the Azure database server node (`your_database_sever_name.database.windows.net`). Open the `Databases` node, right click the table name, open a `New Query` Window and from there, you can execute the SQL from the text file. Be aware that you must generate SQL for tables with no foreign key before you it for the foreign key tables. Execute the SQL one table at the time to make sure that the tables are created and data inserted as expected. When you done, you can jump to the next section: **Deploy the website to Azure**.



In the deployment settings panel, click connect and select your Azure server from the server name dropdown.

The Deploy Database to Windows Azure SQL Database will not export into an existing database, and therefore you must delete the database on Azure before you click `Next`.



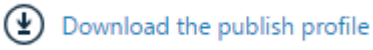
Enter your credentials and click connect. You can leave the default values and click next. Click `Next` > `Close` to migrate your database to Azure.

Deploy the website to Azure

Now it's time to return to Visual Studio and deploy our site. To publish your project, right-click on the project name in Visual Studio and select `Publish`. Click `Microsoft Azure Websites` as your publish target. Note that you may have to sign in at this point.

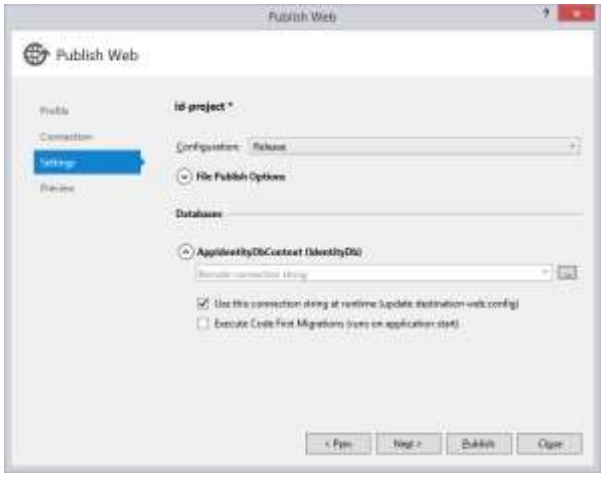
In the existing websites dropdown, select the website we created earlier in the Azure management portal.

The credentials are normally read from Azure, but if that isn't so, you can find your credentials if you go to the Azure Website `Dashboard` and click at `Download the publish profile`:



Open the fine in a text editor. In the first `publishProfile` node you'll find information about `userName` and `userPWD`.

Click `Publish` when you're done:



Setting up the connection string

Go to Azure, select the website and click at the `configure` tab. Scroll down to `connection strings`. You can use the input fields to insert the `name` and the `value` of the connection string:

NB: You'll find information about the connection string under `Database` > `Dashboard` > `Show connection strings`.

Click `save` when you're done.

That's it! You can now run and test the website at Azure ☺

/jear, 22/11 2015