

# Deploy ASP.NET Application to Azure with SQL Database

This blog guides you how to deploy your ASP.NET/MVC application to Microsoft Azure Cloud Server with Azure SQL database, and how to connect Azure DB server from local machine.

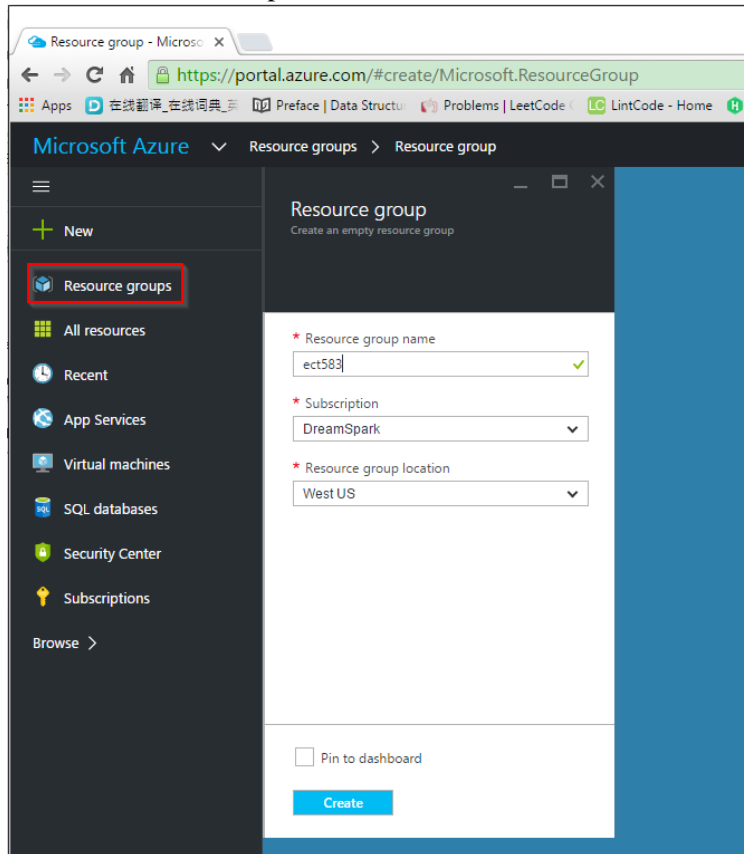
- 1) Create Web App in Azure.
- 2) Create SQL Database and DB Server in Azure.
- 3) Connect Azure DB from Local Machine.
- 4) Set DB Connection String of Azure Web App.
- 5) Deploy Local Application to Azure.

## 1. Create Web App in Azure

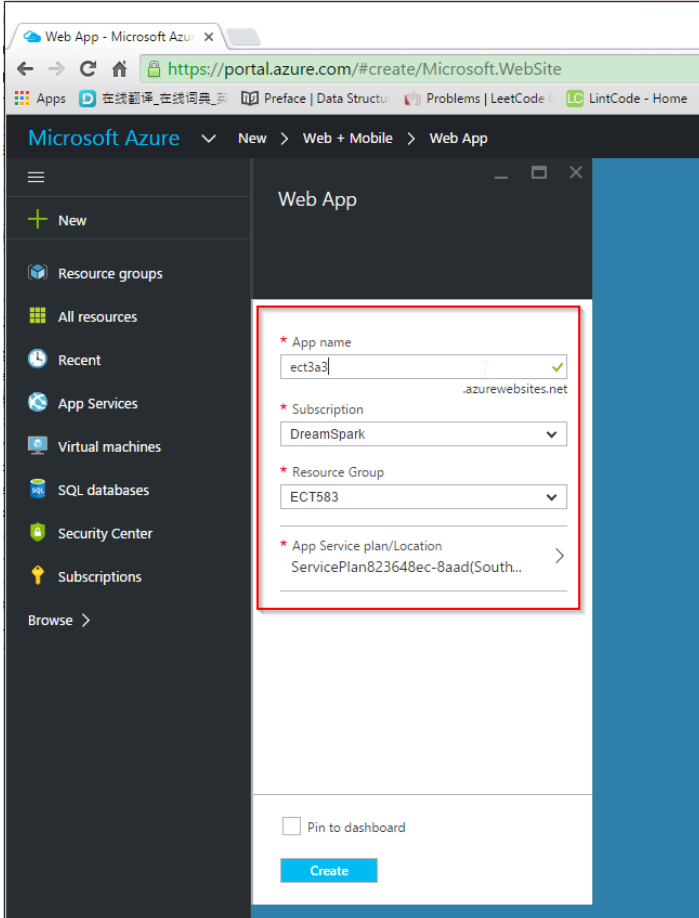
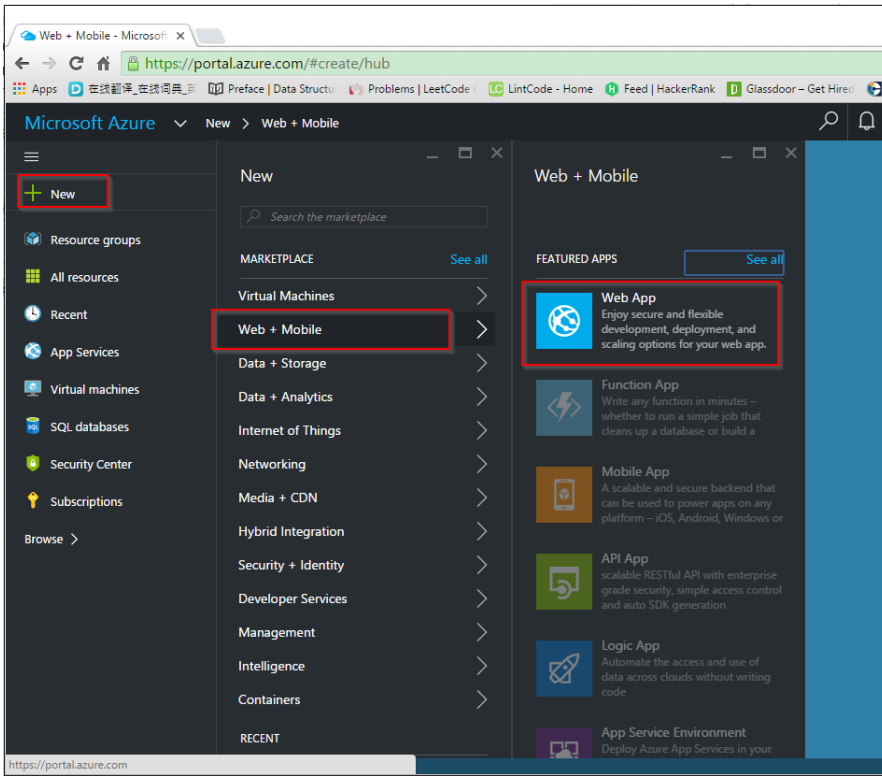
### 1.1 Login Azure Portal

<https://portal.azure.com/>

### 1.2 Create Resource Group

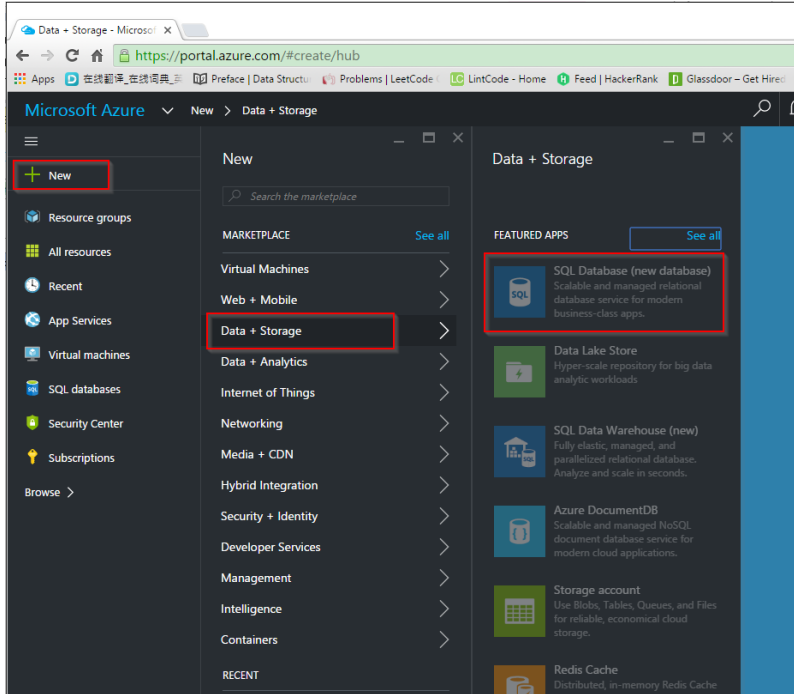


### 1.3 Create new Web APP

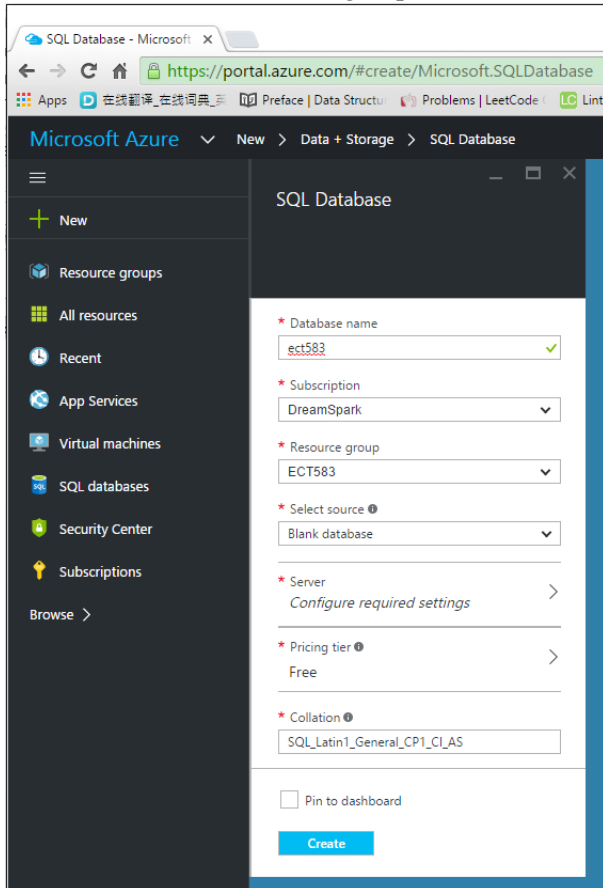


## 2. Create SQL Database in Azure

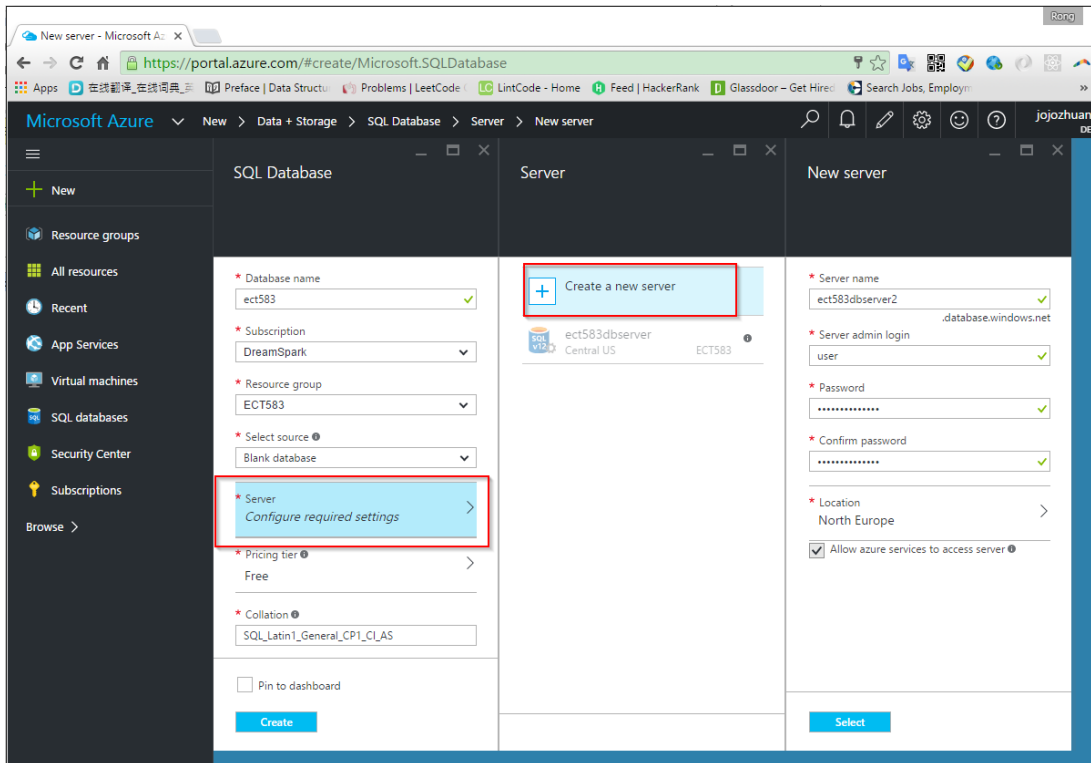
### 2.1 New->Data+Storage->SQL Database(new database)



### 2.2 Provide DB Name, resource group, ... to create a new SQL DB.

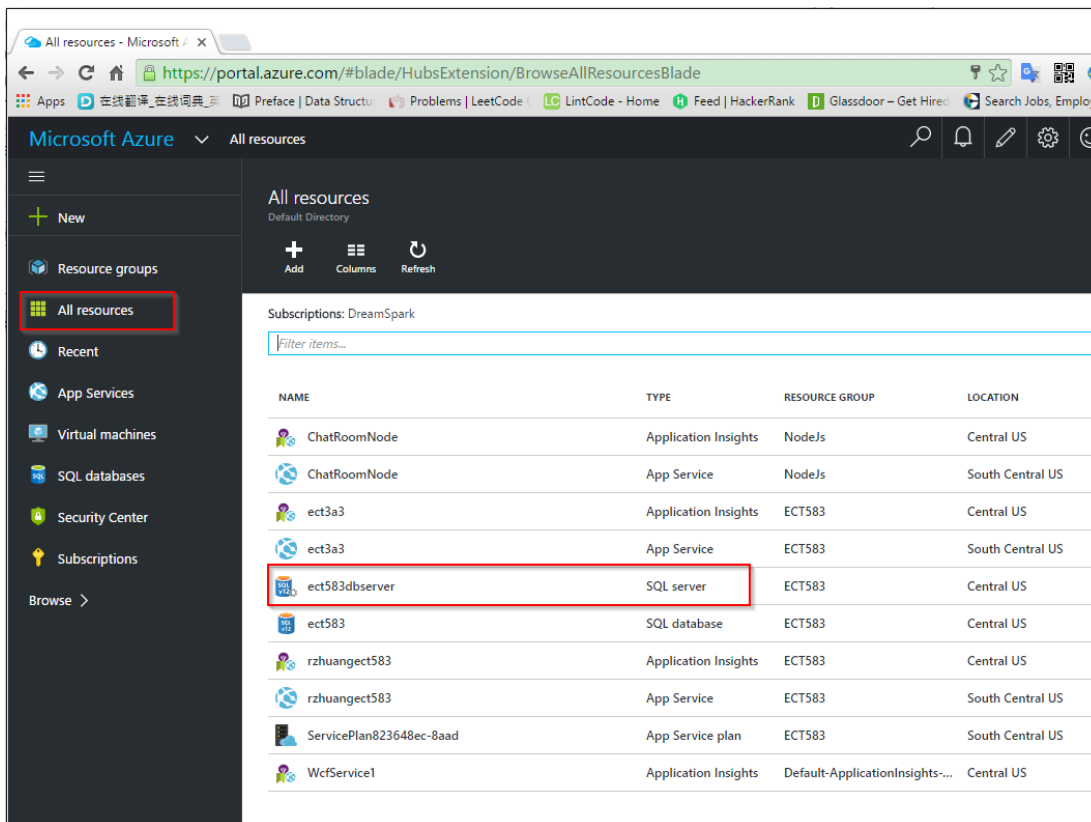


## 2.3 Create a new Server

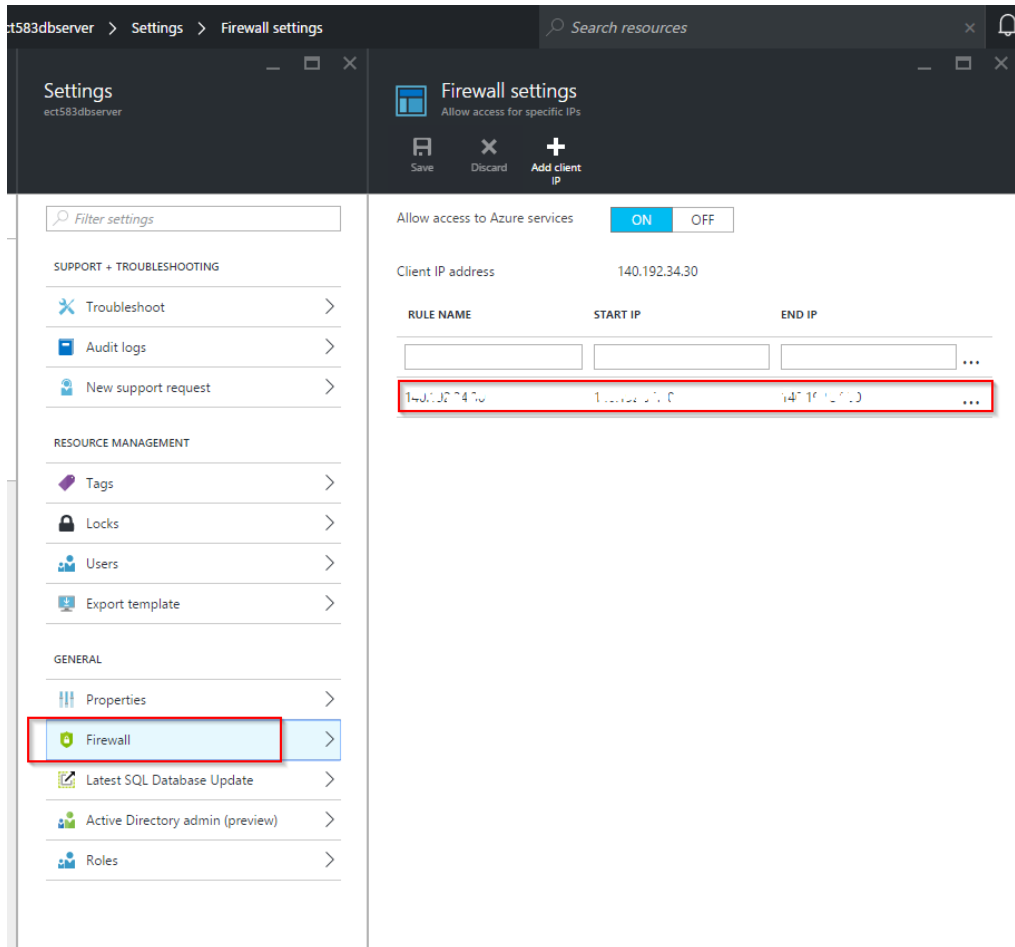


## 3. Connect Azure DB Server from Local Machine

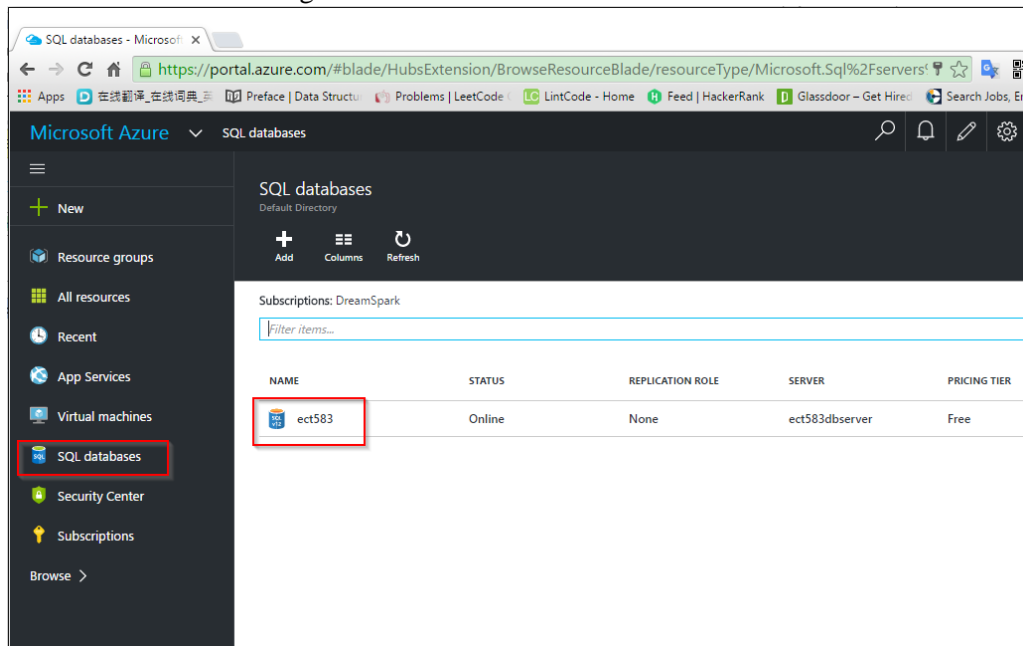
### 3.1 Find the new created SQL server(not SQL database)

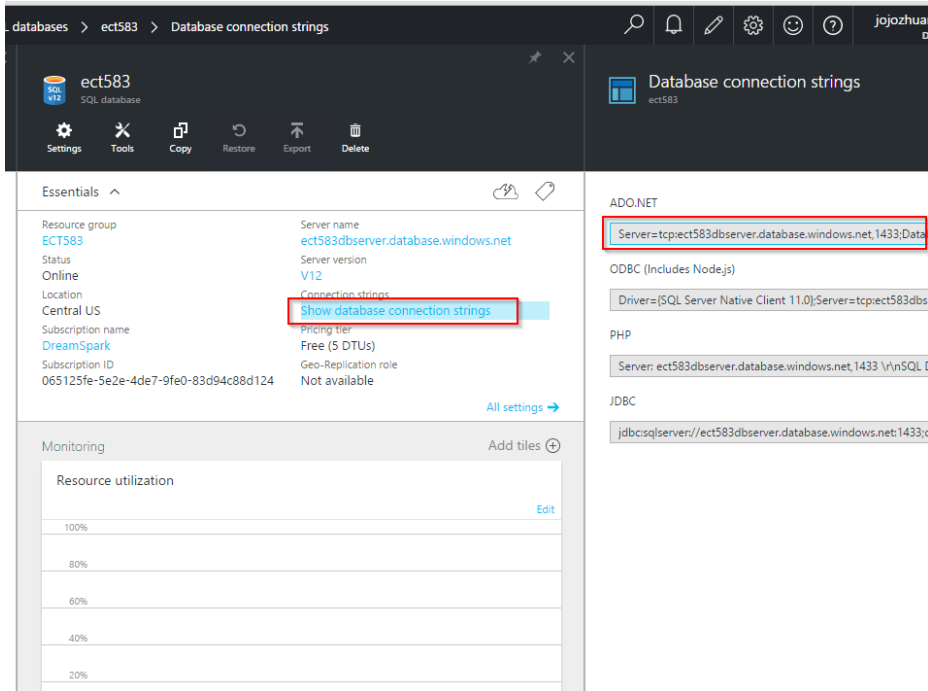


### 3.2 Add client IP address(your local machine) to firewall list of Azure SQL server.



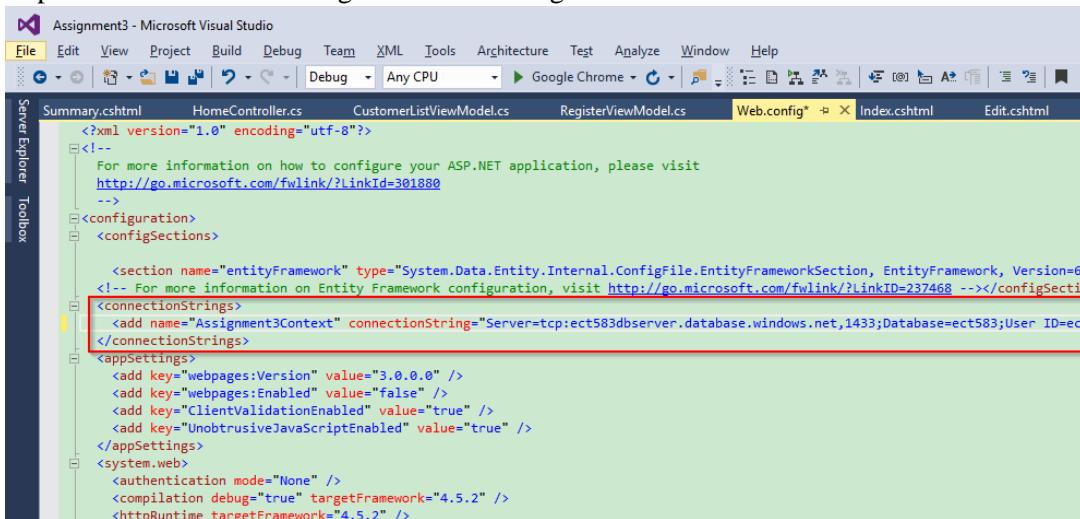
### 3.3 Find the connection string of the created database





Note: The password is not provided in the connection string, you need to replace with your real password.

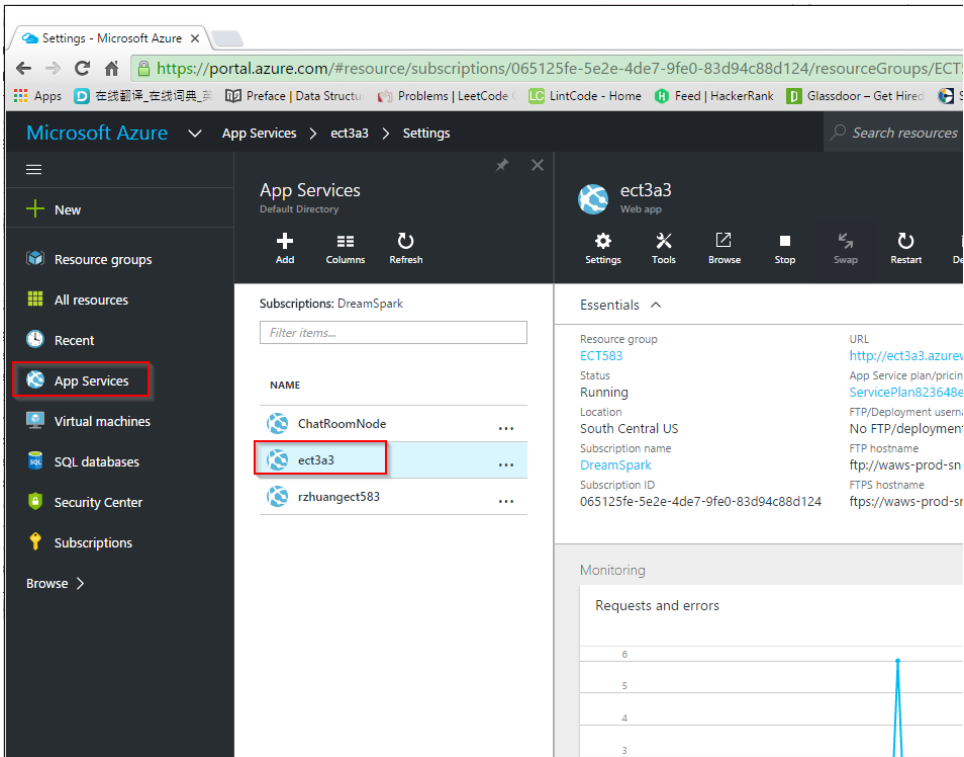
### 3.4 Replace the connection string in the web.config.



### 3.5 Launch application from visual studio, it should work.

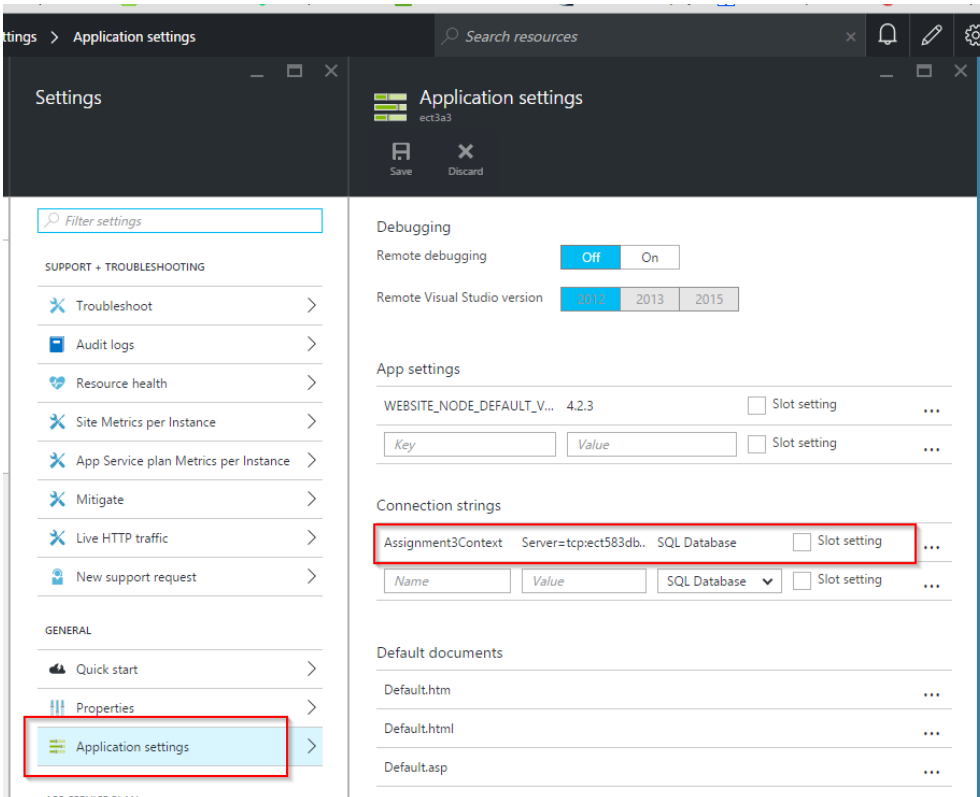
## 4. Set DB Connection String of Azure Web App

### 4.1 Find the new created web app.

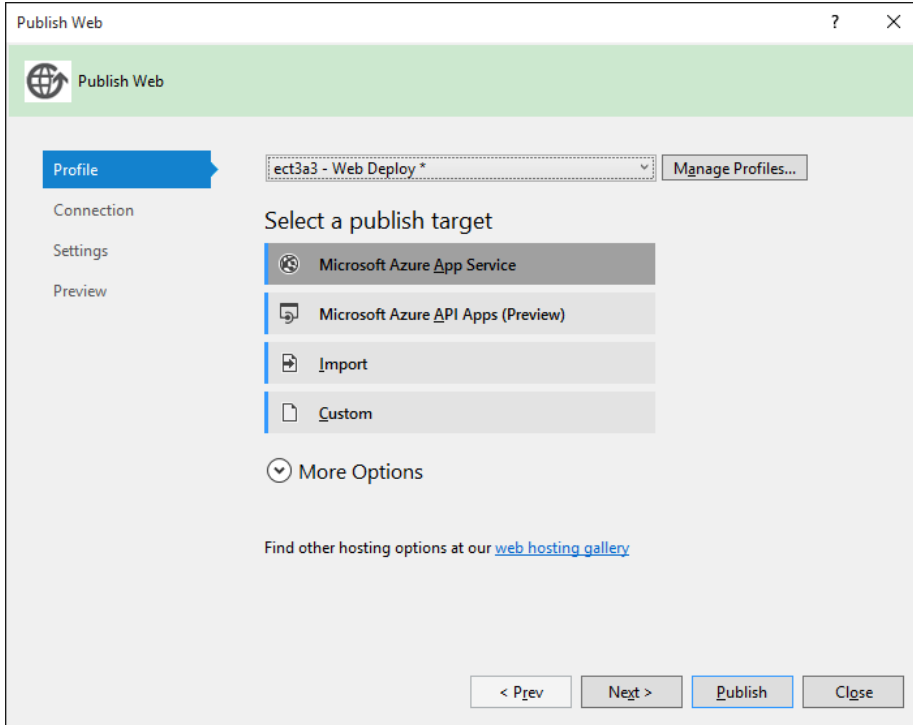


#### 4.2 Application settings-> Connection strings.

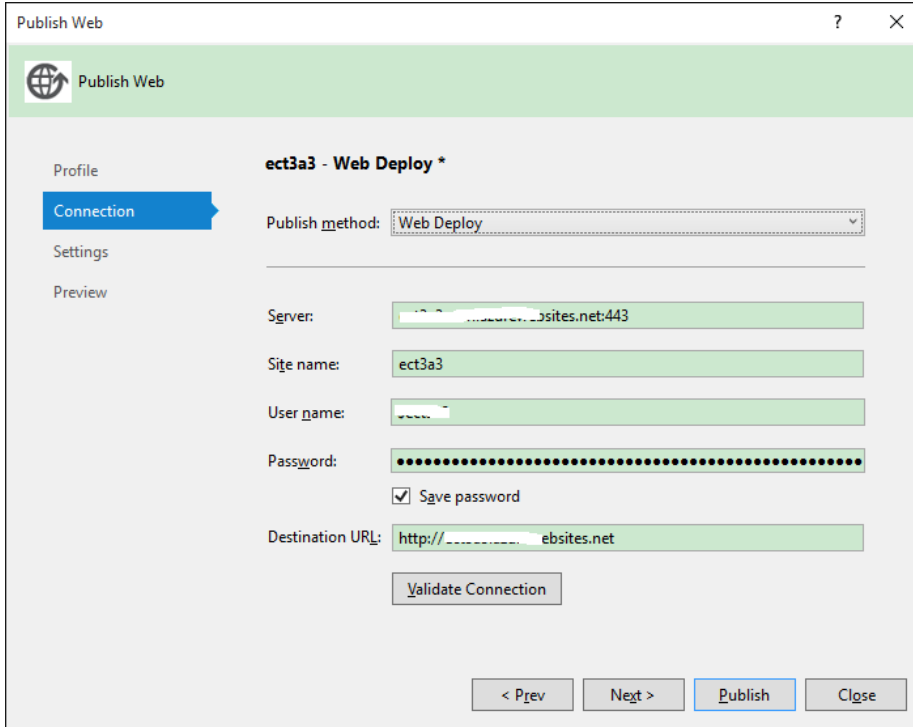
Add new connection string with name and full connection string.



- 5. Deploy Local Application to Azure.
  - 5.1 Visual Studio -> Web Project -> Publish...
  - 5.2 Profile, choose Microsoft Azure App Service

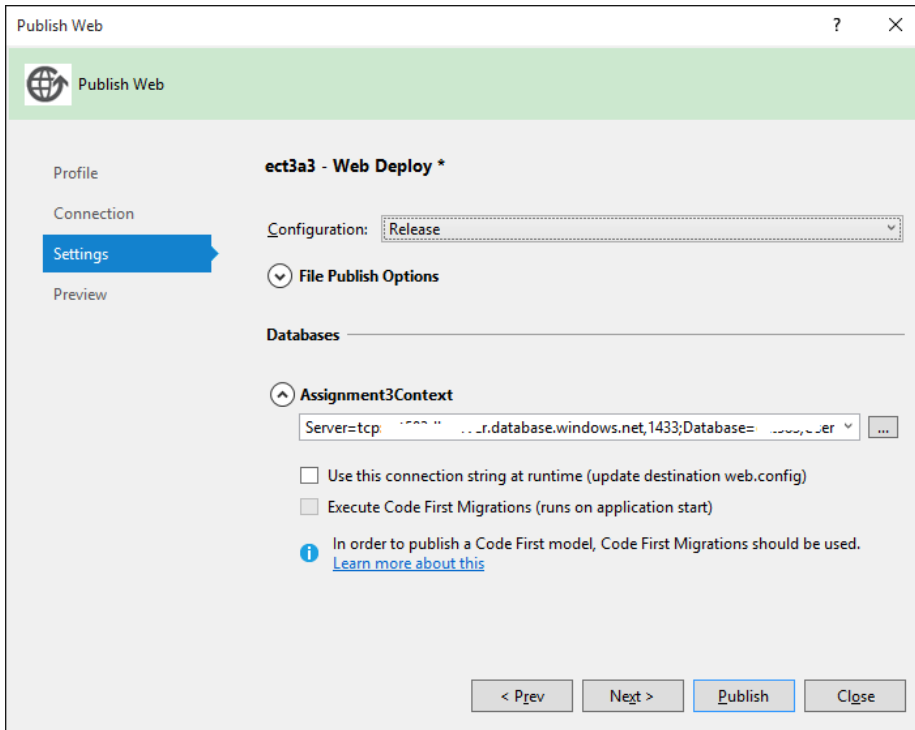


- 5.3 Connection, private the site name.



- 5.4 Settings, provide the connection string of Azure Database.





5.5 After publish, open your Azure website.

