

Microsoft Azure – SQL Server

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Todo sample application

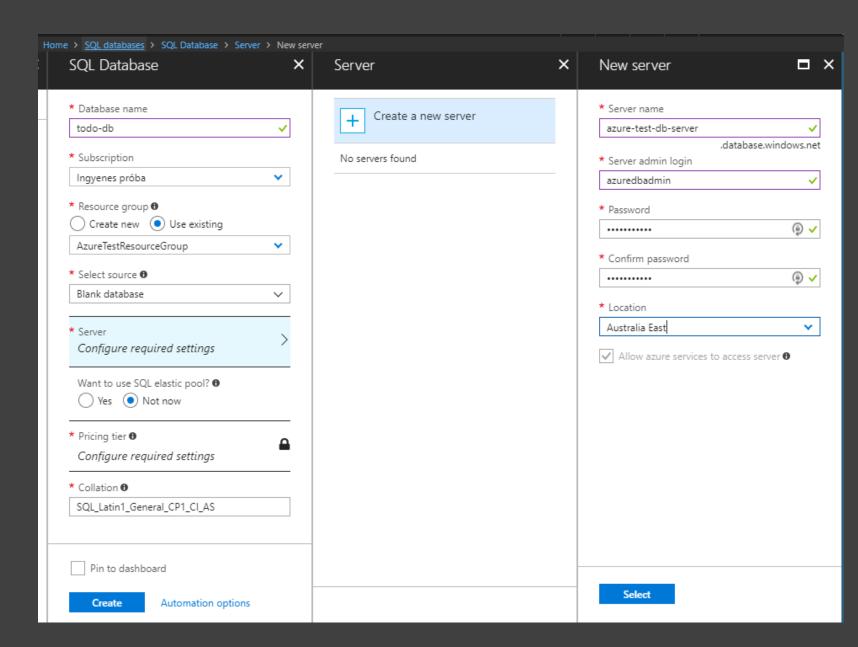
- Basic to-do management application
- ASP.NET Core MVC
- Basic CRUD functionality (Create/Read/Update/Delete)

| Index Create New | | | | | | |
|-----------------------------------|--------------------|--------------|-------------------------|--|--|--|
| Name | Description | Created Date | | | | |
| Todo 1 name | Todo 1 description | 2018-02-17 | Edit Details Delete | | | |
| Todo 2 name | Todo 2 description | 2018-02-22 | Edit Details Delete | | | |
| Todo 3 name | Todo 3 description | 2018-02-26 | Edit Details Delete | | | |
| Todo 4 name | Todo 4 description | 2018-02-21 | Edit Details Delete | | | |
| Todo 5 name | Todo 5 description | 2018-02-24 | Edit Details Delete | | | |
| © 2018 - AzureTodoWebApplication1 | | | | | | |



Set up SQL Server

- SQL databases > Add
 - Create a new server
 - Create a new database
 - Pricing tier: Basic



Resources

| NAME ↑↓ | TYPE ↑↓ | RESOURCE GROUP 1 | LOCATION 1 |
|--------------------------|------------------|------------------------|----------------|
| azure-test-db-server | SQL server | AzureTestResourceGroup | Australia East |
| todo-db | SQL database | AzureTestResourceGroup | Australia East |
| AzureTestServicePlan | App Service plan | AzureTestResourceGroup | West Europe |
| AzureTestWebApplication | App Service | AzureTestResourceGroup | West Europe |
| AzureTodoWebApplication1 | App Service | AzureTestResourceGroup | West Europe |

- Database connection string:
 - Server=tcp:
 server_name
 database.windows.net,1433;Initial Catalog=
 name
 ;Persist Security Info=False;User
 ID=<db_username
 ;Password=<db_password
 ;MultipleActiveResultSets=False;Encry
 pt=True;TrustServerCertificate=False;Connection Timeout=30;



Configure environment variables

App Services > AzureTodoWebApplication > Application settings



Exercise

• If the app is running in Azure use the production SQL Database

```
// Use SQL Database if in Azure, otherwise, use SQLite
if (Environment.GetEnvironmentVariable("ASPNETCORE_ENVIRONMENT") == "Production")
{
    services.AddDbContext<TodoDbContext>(options => options.UseSqlServer(Configuration.GetConnectionString("TodoDbConnection")));
}
else
{
    services.AddDbContext<TodoDbContext>(options => options.UseSqlite("Data Source=MvcTodo.db"));
}
```



SQL databases > todo-db > Query editor

