准备代码

原始代码：<https://github.com/Azure-Samples/dotnetcore-sqldb-tutorial>

fork到自己的库之后，修改Startup.cs文件

Before：

services.AddDbContext<MyDatabaseContext>(options =>

options.UseSqlite("Data Source=localdatabase.db"));

after：

// Use SQL Database if in Azure, otherwise, use SQLite

if(Environment.GetEnvironmentVariable("ASPNETCORE\_ENVIRONMENT") == "Production")

services.AddDbContext<MyDatabaseContext>(options =>

options.UseSqlServer(Configuration.GetConnectionString("MyDbConnection")));

else

services.AddDbContext<MyDatabaseContext>(options =>

options.UseSqlite("Data Source=localdatabase.db"));

// Automatically perform database migration

services.BuildServiceProvider().GetService<MyDatabaseContext>().Database.Migrate();

如果此代码检测到当前正在生产环境中运行（指 Azure 环境），则会使用已配置的连接字符串连接到 SQL 数据库。

在 Azure 中运行时可利用 Database.Migrate() 调用，因为它会根据迁移配置自动创建 .NET Core 应用所需的数据库。

本例中使用已经修改好的代码库：<https://github.com/cloudzun/dotnetcore-sqldb-tutorial>

创建资源组

az group create --name webappwithdb --location southeastasia

创建数据库服务器

az sql server create --name chengzhdbsrv1004 --resource-group webappwithdb --location southeastasia --admin-user chengzh --admin-password 2wsx#EDC

设置数据库服务器防火墙

az sql server firewall-rule create --resource-group webappwithdb --server chengzhdbsrv1004 --name AllowAllIps --start-ip-address 0.0.0.0 --end-ip-address 0.0.0.0

创建core数据库

az sql db create --resource-group webappwithdb --server chengzhdbsrv1004 --name coreDB --service-objective S0

创建服务计划

az appservice plan create --name myAppServicePlan --resource-group webappwithdb --sku FREE

创建webapp

az webapp create --resource-group webappwithdb --plan myAppServicePlan --name chengzhweb1004

使用github部署webapp

az webapp deployment source config --name chengzhweb1004 --resource-group webappwithdb --repo-url <https://github.com/cloudzun/dotnetcore-sqldb-tutorial> --branch master --manual-integration

设置webapp的连接字符串，把前端和后端连起来

az webapp config connection-string set --resource-group webappwithdb --name chengzhweb1004 --settings MyDbConnection="Server=tcp:chengzhdbsrv1004.database.windows.net,1433;Database=coreDB;User ID=chengzh;Password=2wsx#EDC;Encrypt=true;Connection Timeout=30;" --connection-string-type SQLServer

配置环境变量，和代码中的环境变量对应

az webapp config appsettings set --name chengzhweb1004 --resource-group webappwithdb --settings ASPNETCORE\_ENVIRONMENT="Production"

链接字符串实例

Server=tcp:chengzhdbsrv1004.database.windows.net,1433;Database=coreDB;User ID=chengzh;Password=2wsx#EDC;Encrypt=true;Connection Timeout=30;

前端页面地址

<https://chengzhweb1004.azurewebsites.net/>

从前端页面中创建一个待办事项

计算机生成了可选文字:
MyTodoListApp
Index
CreateNew
Description
Home
Pnvacy
ReleasetheHI」aqloudWebsite
CreatedDate
2019一10一10
Edit》Details《Delete

从数据中进行查询确认

计算机生成了可选文字:
coreDB(chengzh)
0
将数据导出为.csv
将数据导出为.xml
>运行0取清查询保存查询
此处显亍受限对象资源管理器。有关
完整功能的广恳，打开SSDT,
#dbo._EFMigrationsHistory
卜门存储过程
1
select*fromdbo．todo
结果消息
月汇酊0些三毖
将数据导出为.json
DESCRIPTION
ReleasetheHuaqloudWebsite
CREATEDDATE
2019一10一10T00℃0℃0℃0000

select \* from dbo.todo

启用流式日志

az webapp log config --name chengzhweb1004 --resource-group webappwithdb --application-logging true --level information

查看流式日志

az webapp log tail --name chengzhweb1004 --resource-group webappwithdb

建议做几次todo事项的增加和查询，从流式日志中查看相关事件

[T0do] AS [t] 
2019-10-03 +øø:øø [Information] microsoft.AspNetCore.Mvc.Interna1.Contr011erActionInvoker: Executed action method (DotNetCore 
q1Db), returned result Microsoft.AspNetCore.Mvc.Vie*esu1t in 1.6675ms. 
2019-10-03 
2019-10-ø3 
2019-10-03 
n 3.6988ms 
2019-10-03 
2019-10-03 
{"level" 
556 +ØØ:ØØ [Information] Microsoft.AspNetCore.Mvc.ViewFeatures.ViewResu1tExecutor: Executing ViewResu1t, running view Index. 
.558 +øø:øø [Information] microsoft.AspNetCore.Mvc.ViewFeatures.Vie•Resu1tExecutor: 
Executed ViewResu1t - view Index executed in 1.73%ms. 
558 +øø:øø [Information] microsoft.AspNetCore.Mvc.Interna1.Contr011erActionInvoker: Executed action 
558 +øø:øø [Information] microsoft.AspNetCore.Routing. Endpointmiddleware: Executed 
endpoint • DotNetCoreSql%. Controllers. Todoscontroller.lndex (DotNetCoreSqm ' 
558 +ØØ:ØØ [Information] Microsoft.AspNetCore.Hosting.Interna1.WebHost: Request finished in 4.234%s2ee 
to contact telemetry service: Error: getaddrinfo EWTFOUND", 

**快速代码，注意使用时修改alias和日期，大概需要五分钟**

az group create --name webappwithdb --location southeastasia

az sql server create --name chengzhdbsrv1004 --resource-group webappwithdb --location southeastasia --admin-user chengzh --admin-password 2wsx#EDC

az sql server firewall-rule create --resource-group webappwithdb --server chengzhdbsrv1004 --name AllowAllIps --start-ip-address 0.0.0.0 --end-ip-address 0.0.0.0

az sql db create --resource-group webappwithdb --server chengzhdbsrv1004 --name coreDB --service-objective S0

az appservice plan create --name myAppServicePlan --resource-group webappwithdb --sku FREE

az webapp create --resource-group webappwithdb --plan myAppServicePlan --name chengzhweb1004

az webapp deployment source config --name chengzhweb1004 --resource-group webappwithdb --repo-url <https://github.com/cloudzun/dotnetcore-sqldb-tutorial> --branch master --manual-integration

az webapp config connection-string set --resource-group webappwithdb --name chengzhweb1004 --settings MyDbConnection="Server=tcp:chengzhdbsrv1004.database.windows.net,1433;Database=coreDB;User ID=chengzh;Password=2wsx#EDC;Encrypt=true;Connection Timeout=30;" --connection-string-type SQLServer

az webapp config appsettings set --name chengzhweb1004 --resource-group webappwithdb --settings ASPNETCORE\_ENVIRONMENT="Production"

az webapp log config --name chengzhweb1004 --resource-group webappwithdb --application-logging true --level information

az webapp log tail --name chengzhweb1004 --resource-group webappwithdb

**清理资源**

az group delete -n webappwithdb --yes

参考链接

<https://docs.microsoft.com/zh-cn/azure/app-service/app-service-web-tutorial-dotnetcore-sqldb>