

Connecting to a Database from Code



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Connection Strings



What Is a Connection String?



Text with address and credentials to a database server



Series of keyword-value pairs separated by semicolons



Simply passed to the database server for authentication

Connection String Examples

Standard Security

```
Server=serverName; Database=databaseName; User Id=username; Password=password;
```

Trusted Security

```
Server=serverName; Database=databaseName; Trusted_Connection=true;
```

Named Instance

```
Server=serverName\instanceName; Database=databaseName; Trusted_Connection=true;
```

All Variations

<https://www.connectionstrings.com/sql-server/>



Demo



Connect to a database from:

- Visual Basic .Net
- C#



Protecting Your Credentials



Credentials Security



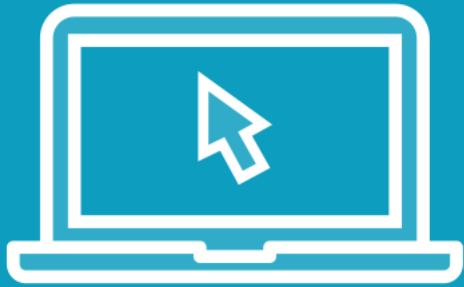
Keep credentials private

Do not check credentials into GitHub

Encrypt credentials in configuration files

Do not put credentials into JavaScript

Demo



Encrypt a connection string



Connecting from Microsoft Office Applications



Demo



Connect to a database from:

- Microsoft Excel
- Microsoft Access



Summary



Connect to a database from code

Keep your credentials private

Keep your credentials secure

Connect from code, Excel, or Access

