

Create integration tests if you need to access data from the Kentico database when writing [automated tests](#). Note that integration tests are significantly slower than [unit tests with faked data](#).

All test classes with integration tests must inherit from the **IntegrationTests** base class (provided by the *CMS.Tests* library). The base class ensures application initialization using a specific database connection string for each test.

## Creating integration tests

1. Open your Kentico solution in Visual Studio.
2. Create an **app.config** file in your [test project](#) (choose the *Application Configuration File* template in the Add New Item dialog box).
3. Specify your testing database by adding the **CMSTestConnectionString** connection string to the *app.config* file.

```
<connectionStrings>
  <clear/>
  <add name="CMSTestConnectionString" connectionString="Persist Security
Info=False;database=..." />
</connectionStrings>
```

4. Make the test class inherit from the **IntegrationTests** base class.

```
using CMS.Tests;
using NUnit.Framework;

[TestFixture]
public class MyIntegrationTests : IntegrationTests
{
    ...
}
```

5. Write the required integration test methods.
6. (Optional) Add a method to the test class that cleans up all objects created or updated during the execution of tests.

```
[TearDown]
public void MyIntegrationTestsCleanUp()
{
    // Delete objects created during test execution
    ...

    // Return objects modified by tests to their previous state
    ...
}
```



**Note:** Each test class can have only one method marked with the **TearDown** attribute.

All tests in a test class inheriting from **IntegrationTests** use the database specified by the **CMSTestConnectionString** connection string. Changes made during tests that you do not clean up in the tear down method remain in the database after the test runs finish.

**Important:** Use [isolated integration](#) tests if you cannot reset data modified during test execution back to its previous state (to avoid affecting other tests).