Kentico supports Windows integrated authentication. This means that when a user signs in to a Windows domain, Kentico automatically recognizes their identity without requiring a user name and password.



#### **Prerequisite**

For Windows authentication to work, the application must be able to access the following attributes of user objects in Active Directory (i.e. the attributes cannot be protected or confidential):

- memberof
- userAccountControl

When an authenticated user comes to a site configured for Windows authentication, the system automatically creates a matching user account in the Kentico database.

Additionally, the system imports the user's domain groups as roles. If an existing user is added to new groups in Active Directory, Kentico imports new roles (the update occurs upon reauthentication, i.e. after the user's session expires). However, existing roles are not removed from users in Kentico when the matching users in Active Directory are removed from groups.

The imported roles do **not** authorize the users to perform any actions in Kentico by default. You need to configure <u>permissions</u> and <u>UI personalization</u> settings for the imported roles manually if you wish to use them.



#### Disabling the automatic role import

If you wish to disable the automatic import of user domain groups as roles in Kentico, add the following key to the /confi guration/appSettings section of your project's web.config file:

```
<add key="CMSImportWindowsRoles" value="false" />
```

# **Configuring Windows authentication**

Follow the steps below to switch the application to Windows authentication mode:

- 1. Edit the web.config file of the web project.
- 2. Set the **mode** attribute of the **<authentication>** element in the *<system.web>* section to **Windows**:

```
<authentication mode="Windows">
```

3. (Optional) You can also make Windows authentication required for access to the live site. To achieve this result, uncomment the following **<location>** element in your web.config:



If you want to require Windows authentication for only a part of the live website, see <u>Securing a website section</u> <u>using Windows authentication</u>.

4. Save the modified web.config file.

- 5. Close all browsers with Kentico, open the website in a new browser and try to access the administration interface (<site domain>/admin).
  - If you encounter a 401 error, continue to the Enabling Windows authentication in IIS section below.

With this configuration, the system automatically authenticates users from Windows Active Directory and imports them to the Kentico database.

You need to manually set up administrator access for your new AD user account.



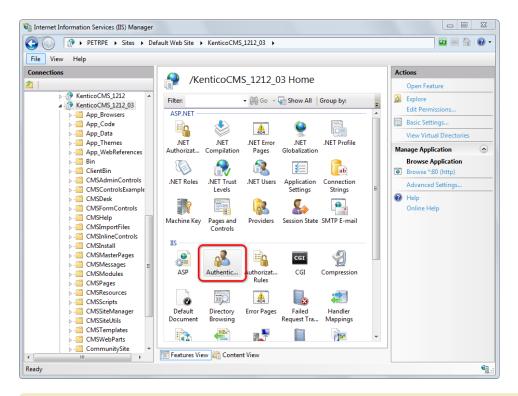
#### Sign out button missing with Windows authentication

When Windows authentication is enabled, the **Sign out** button in user menu in the top right corner of the administration interface is not displayed. The same applies to the live site, where the sign out link is not displayed in all web parts that can be used to sign out.

### **Enabling Windows authentication in IIS**

If you are experiencing the 401 error with Windows authentication, you need to enable Windows authentication in your IIS:

- 1. Start the Internet Information Services (IIS) Manager.
- 2. Locate and select your site in the IIS tree.
- 3. Double-click the **Authentication** icon.





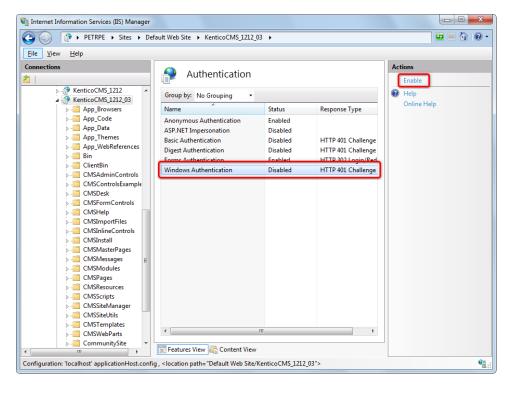
### Windows Authentication missing in the list

 $If your \ IIS \ installation \ does \ not \ contain \ Windows \ Authentication \ by \ default, you \ need \ to \ install \ it:$ 

- a. Go to Control Panel -> Programs and Features -> Turn windows features on or off.
- b. Expand Internet Information Services -> World Wide Web Services.
- c. Under **Security**, select the **Windows Authentication** check box.
- d. Click  $\mathbf{OK}$  to finish the configuration.

Windows Authentication appears as an option in IIS website authentication settings.

- 4. Select Windows Authentication.
- 5. Click Enable in the Actions menu.



IIS now allows Windows authentication on your site.

## Setting up administrator access after enabling Windows authentication

When you access the Kentico administration interface (<site domain>/admin) for the first time after configuring Windows authentication, you will encounter an Access denied message. Windows authentication logs you in under a new user account that the system automatically created based on your Active Directory user name, but the account does not have any permissions.

To allow access to all features as an administrator under Windows authentication, you need to manually grant administrator permissions to your new user account:

- 1. Access the Kentico administration interface at least once under Windows authentication (to ensure that the system imports your AD user).
- 2. Edit the project's *web.config* file and switch back to **Forms** authentication (set the **mode** attribute of the **<authenticatio n>** element in the *<system.web>* section back to **Forms**).
- ${\bf 3. \ Log \ back \ in \ to \ the \ Kentico \ administration \ using \ forms \ authentication \ (under \ your \ original \ administrator \ account).}$
- 4. Open the **Users** application.
- 5. Edit the new user that matches your domain user name (the format is domain-username, for example office-johns).
- 6. On the **General** tab, set the **Privilege level** to *Global administrator*.
- 7. Click Save and log out.
- 8. Edit your web.config file and switch to **Windows** authentication again.

Close all browsers with Kentico, open the website in a new browser and access the administration interface. Make sure the system recognizes you as a global administrator without the need to manually log in.

### Forbidden character replacement during Active Directory import

When importing users and roles, forbidden characters in the names are replaced by the character defined in **Settings -> URLs** and **SEO -> Forbidden characters replacement**.

The default value is a dash "-" (domain-username instead of domain\username). If you are using a different character, please change the entered user name accordingly.

You can override this setting by adding the following keys to the *AppSettings* section of your *web.config* file. In both cases, the value must be exactly one character:

```
<add key="CMSForbiddenUserNameCharactersReplacement" value="-" />
<add key="CMSForbiddenRoleNameCharactersReplacement" value="-" />
```

If you want to achieve the same functionality as in **older versions** of Kentico (**office\username**), forbidden characters replacement can be turned off completely using the following two keys. This may cause problems when using wildcard URLs with user names in the wildcard part and is therefore not recommended.

```
<add key="CMSEnsureSafeUserNames" value="false" />
<add key="CMSEnsureSafeRoleNames" value="false" />
```