

Kentico allows you to restrict access to certain content based on the current user. This approach uses [Page-level permissions](#) (ACLs). These restrictions apply on pages in the **Pages** application, pages listed by web parts, and various dialogs where the content tree is displayed.



Content personalization in Kentico EMS

This approach checks the current user's permissions for the page that is being displayed. If you want to personalize your site to achieve more advanced scenarios according to completely custom conditions, use [Content personalization](#).



Content restrictions summary

1. Configure **Check page permissions** in **Settings -> Security & Membership**. This makes sure the system performs security checks on the desired section of the content. See [Settings - Security & Membership](#).
2. Enable **Check page permissions** in **Settings -> Content -> Content management**, if you want the check to be performed on pages in the content tree of the **Pages** application as well.
3. To modify access to pages, go to a page's **Properties -> Security** tab and assign permissions.
4. For listings, grant or deny the Read permission to users and turn on the **Check permissions** attribute in the appropriate web parts.

When the user is not authenticated, the system uses a special user **Public anonymous User (public)**.

You can also configure web parts to consider these permissions and list pages based on these permissions.

If a user has the **Read** permission for a child page but not for its parent, the child page is not displayed either. In case that a user doesn't have the **Read** permissions for any page at all, a message is displayed in the place of the content tree, informing the user about insufficient permissions to see the root page.

Example: Restricting the Products menu

In this example, you will learn how to display the **Products** section only to members of the **Customers** and **Partners** roles. They, you will see how to display the **Smartphones** category only to members of the **Partners** role.

Note that this example uses the sample *Corporate site* for illustration.

Creating sample objects

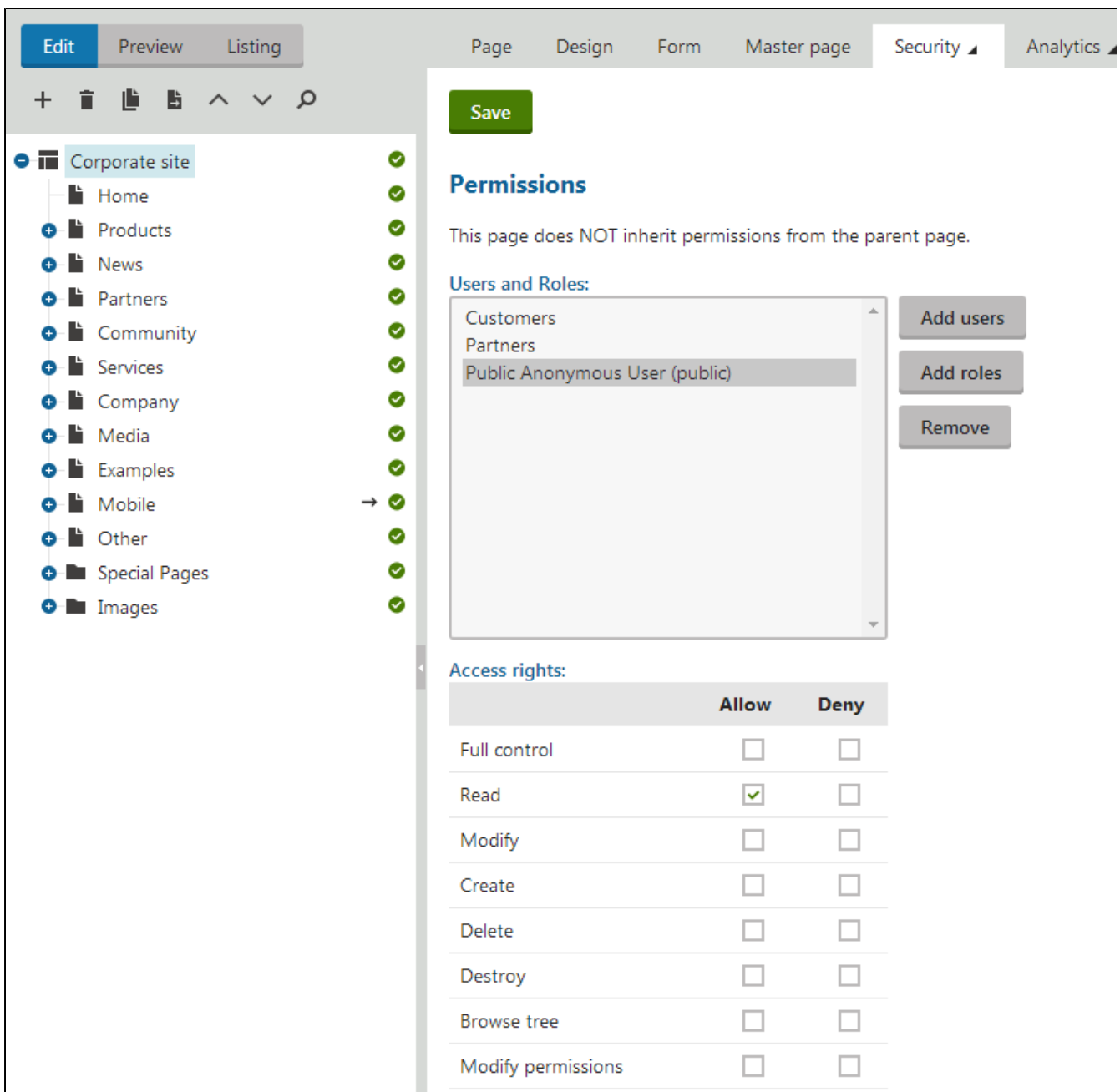
First, create the objects you will work with in this example:

1. Open the **Roles** application.
2. Select the *Corporate Site* from the **Sites** dropdown list and create new roles **Customers** and **Partners**.
3. Open the **Users** application and create a new user **Customer1** with the following values:
 - **User name:** Customer1
 - **Full name:** Testing Customer
 - **Enabled:** yes (checked)
 - **Privilege level:** None
4. Assign the user to the *Corporate Site* and to the **Customers** role.
5. Create another user **Partner1** with the following values:
 - **User name:** Partner1
 - **Full name:** Testing Partner
 - **Enabled:** yes (checked)
 - **Privilege level:** None
6. Assign the user to the *Corporate Site* and to the **Partners** role.

Assigning page-level permissions

Assign page-level permissions to the created roles:

1. Navigate to **Settings -> Security & Membership** and set **Check page permissions** to *All pages*.
 - This ensures that the security settings assigned in the following steps will be checked for all pages on the website.
2. Open the **Pages** application and select the root of the content tree.
3. Switch to the **Properties -> Security** tab.
4. Add the **Public anonymous user (public)** user and **Customers** and **Partners** roles to the list.
5. Grant the **Read** permissions to the user and roles.
 - Please note that you must click **Save** after assigning permissions to each user or role.



Permissions

This page does NOT inherit permissions from the parent page.

Users and Roles:

- Customers
- Partners
- Public Anonymous User (public)

Access rights:

	Allow	Deny
Full control	<input type="checkbox"/>	<input type="checkbox"/>
Read	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Modify	<input type="checkbox"/>	<input type="checkbox"/>
Create	<input type="checkbox"/>	<input type="checkbox"/>
Delete	<input type="checkbox"/>	<input type="checkbox"/>
Destroy	<input type="checkbox"/>	<input type="checkbox"/>
Browse tree	<input type="checkbox"/>	<input type="checkbox"/>
Modify permissions	<input type="checkbox"/>	<input type="checkbox"/>

Hiding selected child pages

Now hide the product categories from public users:

1. In the content tree, navigate to **/Products/Smartphones** and switch to the **Properties -> Security** tab.
 - The permissions that you configured for the root of the content tree are inherited by this page.
2. Click the **Change permission inheritance** link to break the inheritance.
3. In the following dialog, choose **Break inheritance and copy parent permissions**.
4. Select the **Public Anonymous User (public)** and deny the **Read** permission.
5. Repeat the previous steps for the **Laptops and Tablets** page.
6. Also deny the **Smartphones** page for the **Customers** role.

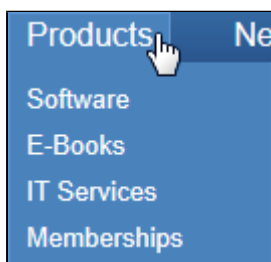
Configuring web parts to check permissions

The permissions are not checked by web parts by default, so we need to configure the web parts so that they check the **Read** permission of the current user.

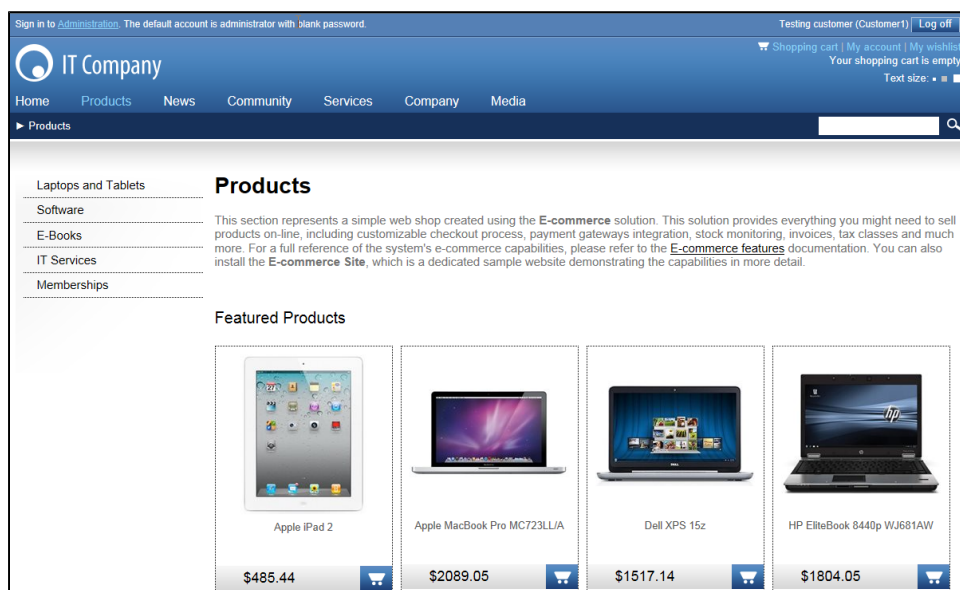
1. Choose the root in the content tree and switch to the **Design** tab.
2. Configure the **Top list menu** (CSS list menu) web part and select its **Check permissions** check-box in the **System settings**. Click **OK**.
3. Repeat the same for the **CSS list menu** and **Featured products** web parts on the **/Products** page.

Verifying the result

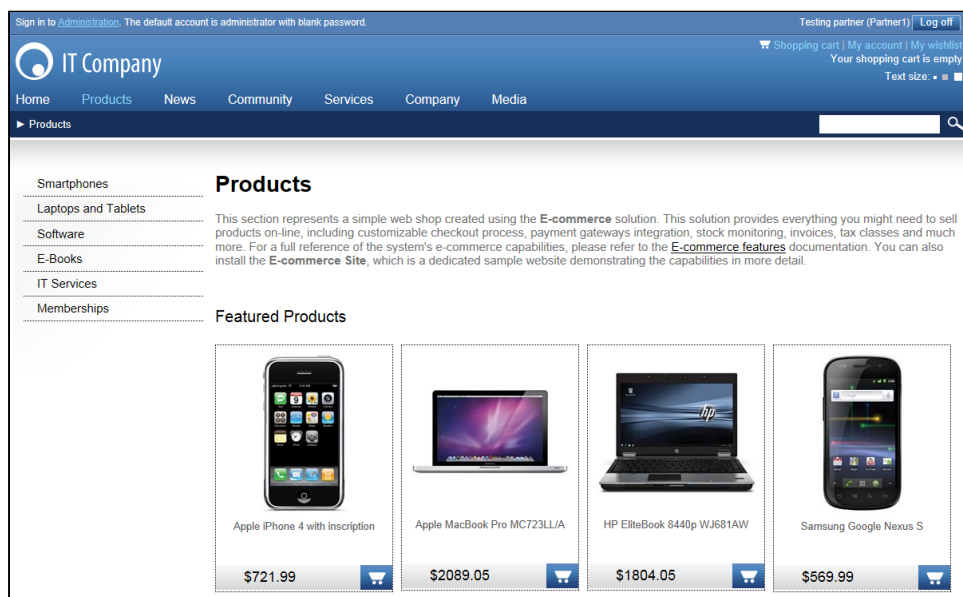
1. Sign out. If you mouse-over the **Products** menu item as a public user, you will see that the sub-categories representing the restricted sections are no longer displayed.



2. Sign in as user **Customer1** (using the miniform at the top right of the page).
3. Navigate to **Products** via the main menu. As you can see, the **Smartphones** section and **Smartphone** products are not displayed to this user.



4. Now sign out and sign in again as user **Partner1**. You will see all categories and products.



You have learned how restrict access to content based on user permissions.