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OTTAWA

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Entreprise 7pro.ca Inc
JOSEPH OLSTAD





GDPR Compliance in Drupal

HELLO!

I am François Lemieux

Senior software developer.

Find me at:

<https://www.drupal.org/u/classiccut>

*I am not a lawyer!

None of the information presented herein
should be taken as legal advice

1.

Presentation scope



FROM BROAD TO NARROW

- ▶ What is GDPR
- ▶ How does GDPR impact your Drupal site
- ▶ Available Drupal resources
- ▶ Consent Management & Cookies

2.

What is GDPR



E.U. PRIVACY REGULATIONS

User rights

Definitions on what is “user data”, and the types of controls users can have on this data.

Consent

Users must know what data is being collected, and have control over the use of this data.

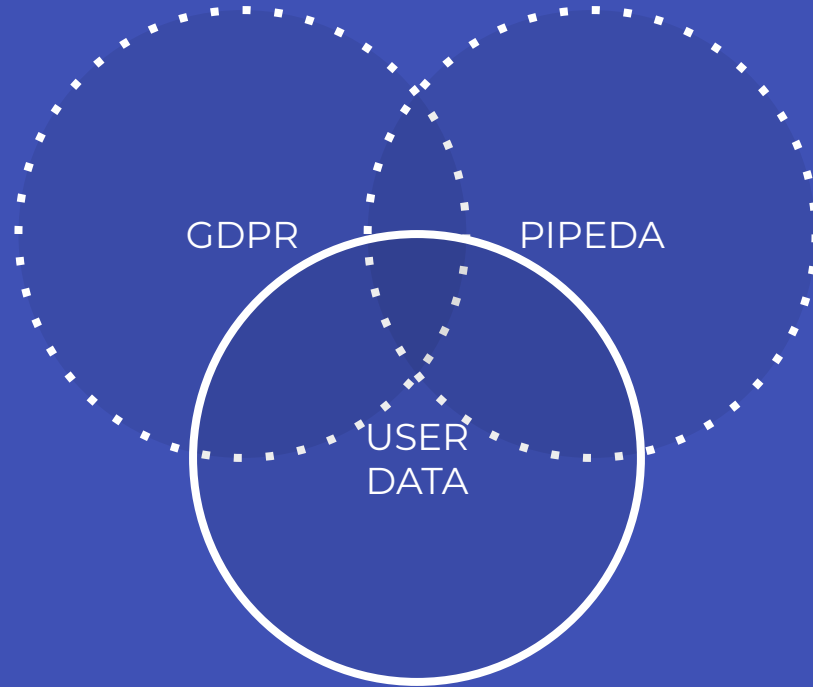
Obligations and penalties

Non-compliance comes with costs. Record keeping to demonstrate compliance.

“

But... I'm in **Canada!** Why do I
need to worry about E.U.
regulations?

*see https://www.dataguidance.com/sites/default/files/gdpr_v_pipeda.pdf



**THERE ARE SOME
SIMILARITIES
AND SOME
DIFFERENCES**

3.

**How does GDPR
impact your
Drupal site**



HOW **LARGE** IS YOUR ORGANIZATION

More restrictions and obligations are placed on larger organizations (>250 employees), such as establishing a data protection officer role, and specifics related to large-scale user data processing.





UNDERSTANDING USER DATA

Accounts

User data stored for user accounts can impact GDPR compliance.

Analytics & social media

Are you tracking analytics? Is any user-centric data included? Any integration with social media platforms?

Consent

Do users of your site (logged-in or not!) know what data might be collected and how it's used?
Do they consent?



BUSINESS IMPACTS

Legal

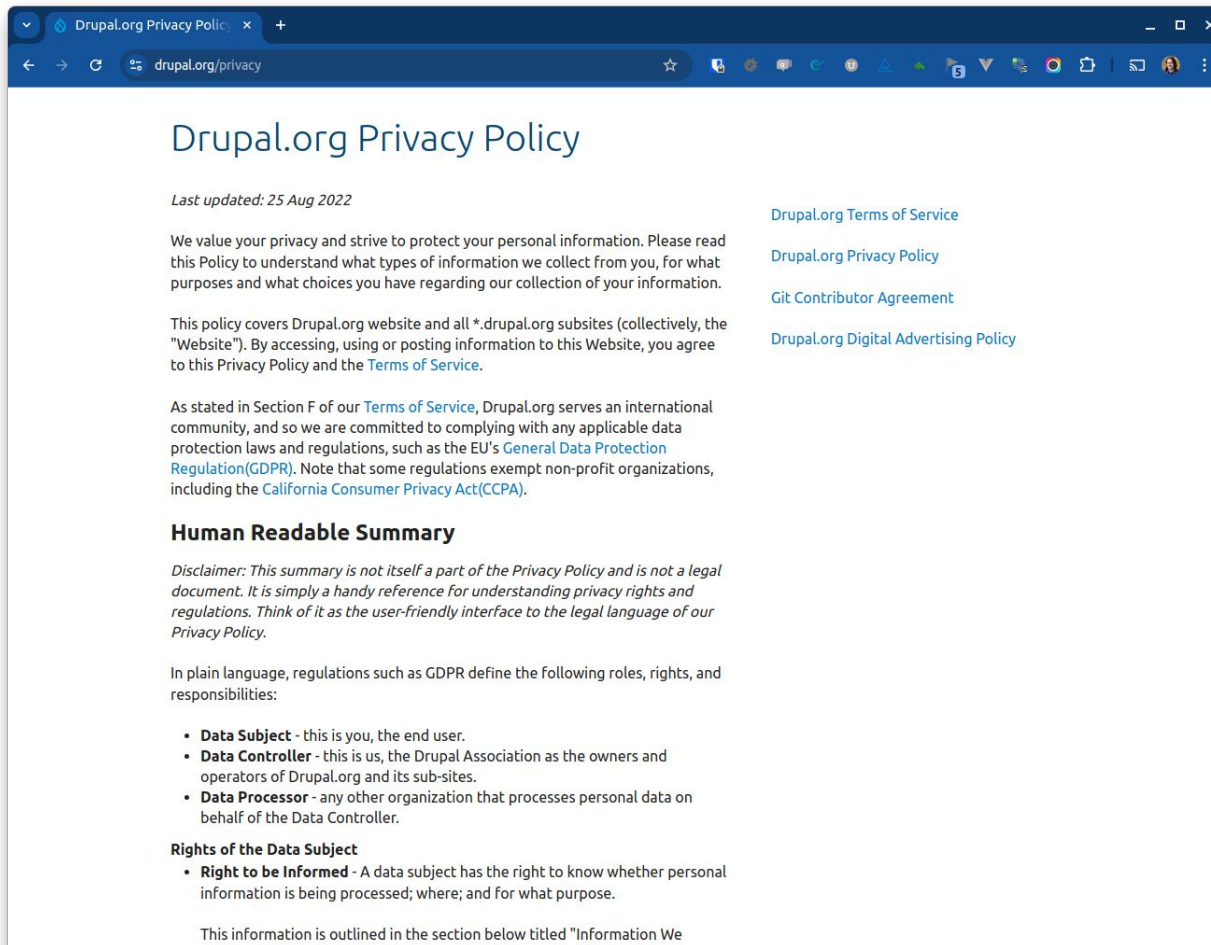
Privacy policy and disclaimers are required (including cookie policies).

Record keeping

Requirements vary based on the size of your organization.

Data security

Data breaches must be handled in specific ways.



The image shows a browser window displaying the Drupal.org Privacy Policy page. The browser's address bar shows the URL 'drupal.org/privacy'. The page title is 'Drupal.org Privacy Policy'. The content includes a 'Last updated' date of 25 Aug 2022, a brief introduction to the policy, a list of related links (Terms of Service, Privacy Policy, Contributor Agreement, Digital Advertising Policy), a 'Human Readable Summary' section with a disclaimer, and a list of roles and responsibilities defined by regulations like GDPR.

Drupal.org Privacy Policy

Last updated: 25 Aug 2022

We value your privacy and strive to protect your personal information. Please read this Policy to understand what types of information we collect from you, for what purposes and what choices you have regarding our collection of your information.

This policy covers Drupal.org website and all *.drupal.org subsites (collectively, the "Website"). By accessing, using or posting information to this Website, you agree to this Privacy Policy and the [Terms of Service](#).

As stated in Section F of our [Terms of Service](#), Drupal.org serves an international community, and so we are committed to complying with any applicable data protection laws and regulations, such as the EU's [General Data Protection Regulation\(GDPR\)](#). Note that some regulations exempt non-profit organizations, including the [California Consumer Privacy Act\(CCPA\)](#).

Human Readable Summary

Disclaimer: This summary is not itself a part of the Privacy Policy and is not a legal document. It is simply a handy reference for understanding privacy rights and regulations. Think of it as the user-friendly interface to the legal language of our Privacy Policy.

In plain language, regulations such as GDPR define the following roles, rights, and responsibilities:

- **Data Subject** - this is you, the end user.
- **Data Controller** - this is us, the Drupal Association as the owners and operators of Drupal.org and its sub-sites.
- **Data Processor** - any other organization that processes personal data on behalf of the Data Controller.

Rights of the Data Subject

- **Right to be Informed** - A data subject has the right to know whether personal information is being processed; where; and for what purpose.

This information is outlined in the section below titled "Information We

[Drupal.org Terms of Service](#)
[Drupal.org Privacy Policy](#)
[Git Contributor Agreement](#)
[Drupal.org Digital Advertising Policy](#)

4.

Available Resources



GDPR MODULE

- ▶ Contrib module/project
- ▶ Provides resources for compliance
- ▶ *Does not ensure compliance on its own!

Good starting point to understand and implement compliance, but not a complete solution

<https://drupal.org/project/gdpr>



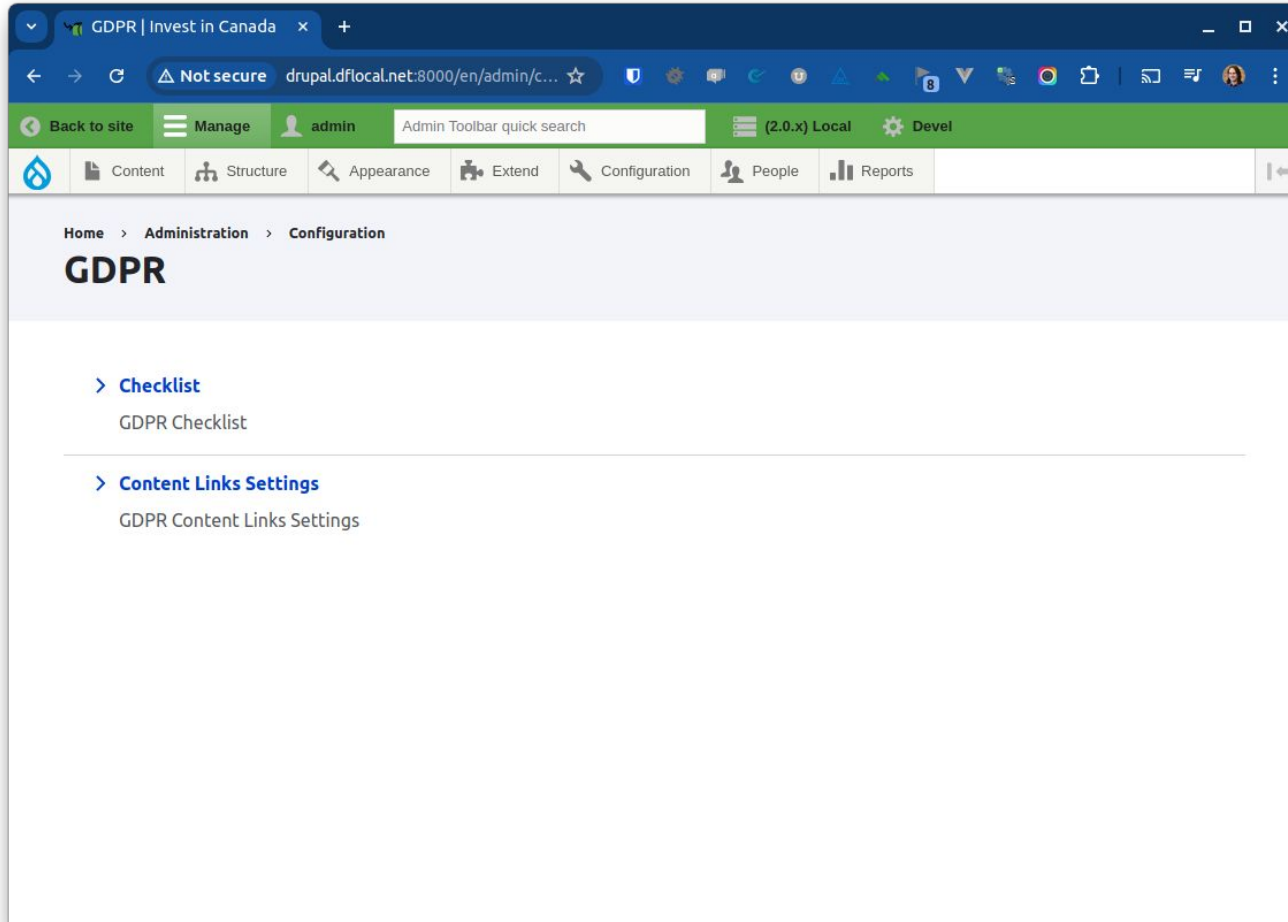
RESOURCES FOR **GDPR** READINESS

Checklist

Walkthrough of considerations, tasks (business and/or dev.), site features, and configuration.

Supporting modules

Provide specific resources for setting-up user agreements, tasks (data update/removal), data sanitization.



The screenshot shows a web browser window with the address bar displaying "drupal.dffocal.net:8000/en/admin/c...". The page title is "GDPR | Invest in Canada". The browser's address bar shows "Not secure" and the URL "drupal.dffocal.net:8000/en/admin/c...". The page features a green navigation bar with "Back to site", "Manage", and "admin" (with a search bar). Below this is a toolbar with icons for Content, Structure, Appearance, Extend, Configuration, People, and Reports. The main content area has a breadcrumb trail: "Home > Administration > Configuration". The heading "GDPR" is prominently displayed. Below the heading, there are two expandable sections: "Checklist" (with a sub-link "GDPR Checklist") and "Content Links Settings" (with a sub-link "GDPR Content Links Settings").

GDPR | Invest in Canada

Not secure drupal.dffocal.net:8000/en/admin/c...

Back to site Manage admin Admin Toolbar quick search (2.0.x) Local Devel

Content Structure Appearance Extend Configuration People Reports

Home > Administration > Configuration

GDPR

- > **Checklist**
GDPR Checklist
- > **Content Links Settings**
GDPR Content Links Settings

GDPR Checklist | Invest | x +

Not secure drupal.dlocal.net:8000/en/admin/c... ☆

Back to site Manage admin Admin Toolbar quick search (2.0.x) Local Devel

Content Structure Appearance Extend Configuration People Reports

Home > Administration > Configuration > GDPR

GDPR Checklist

0 of 16 (0%)

[Hide item descriptions](#)

Getting Started

0 of 2 (0%)

Policies and other measures
0 of 1 (0%)

Content related suggestions
0 of 3 (0%)

Site feature related suggestions
0 of 4 (0%)

Configuration
0 of 2 (0%)

Beyond website management
0 of 4 (0%)

To begin your self-assessment process, it's highly recommended to take the following steps:

- Yes, I agree that by using the *GDPR* module, I'm still accountable for personal data handling performed on the site.

Responsibility Agreement: before the site owner starts the checklist process, they should acknowledge that installing and using this module pack does not mean sharing responsibility. Neither the Drupal Community nor module maintainers can guarantee full compliance with the GDPR regulations in case of a potential control.

- Yes, I have read at least one of the following recommended resources from the list below
[GDPR Wikipedia page](#) | [Summary of the GDPR regulation](#) | [The GDPR legislation](#)

Save

GDPR Checklist | Invest x General Data Protectio x Regulation (EU) 2016/679 x Regulation - 2016/679 x +

Not secure drupal.dlocal.net:8000/en/admin/c...

Back to site Manage admin Admin Toolbar quick search (2.0.x) Local Devel

Content Structure Appearance Extend Configuration People Reports

✓ **Status message**
GDPR Checklist progress has been saved. 2 items changed.

Last updated Tue, 07/16/2024 - 09:55 by admin 2 of 16 (13%)

[Hide item descriptions](#)

Getting Started 2 of 2 (100%)	To begin your self-assessment process, it's highly recommended to take the following steps:
Policies and other measures 0 of 1 (0%)	<input checked="" type="checkbox"/> Yes, I agree that by using the <i>GDPR</i> module, I'm still accountable for personal data handling performed on the site. - <i>Completed 07/16/2024 - 09:55 by admin</i> Responsibility Agreement: before the site owner starts the checklist process, they should acknowledge that installing and using this module pack does not mean sharing responsibility. Neither the Drupal Community nor module maintainers can guarantee full compliance with the GDPR regulations in case of a potential control.
Content related suggestions 0 of 3 (0%)	
Site feature related suggestions 0 of 4 (0%)	<input checked="" type="checkbox"/> Yes, I have read at least one of the following recommended resources from the list below - <i>Completed 07/16/2024 - 09:55 by admin</i> GDPR Wikipedia page Summary of the GDPR regulation The GDPR legislation
Configuration 0 of 2 (0%)	
Beyond website management 0 of 4 (0%)	

Save **Clear saved progress**

GDPR Checklist | Invest x General Data Protectio x Regulation (EU) 2016/679 x Regulation - 2016/679 x +

Not secure drupal.dlocal.net:8000/en/admin/c...

Back to site Manage admin Admin Toolbar quick search (2.0.x) Local Devel

Content Structure Appearance Extend Configuration People Reports

✓ **Status message**
GDPR Checklist progress has been saved. 1 item changed.

Last updated Tue, 07/16/2024 - 09:56 by admin 3 of 16 (19%)

[Hide item descriptions](#)

Getting Started
2 of 2 (100%)

Policies and other measures
1 of 1 (100%)

Content related suggestions
0 of 3 (0%)

Site feature related suggestions
0 of 4 (0%)

Configuration
0 of 2 (0%)

Beyond website management
0 of 4 (0%)

Modules or libraries that already implement some of the needed features.

Cookie policy - Completed 07/16/2024 - 09:56 by admin
User needs to be informed when your site uses cookies to collect data.
[EU Cookie Compliance-module](#)

Save **Clear saved progress**

GDPR Checklist | Invest x General Data Protectio x Regulation (EU) 2016/679 x Regulation - 2016/679 x +

Not secure drupal.dlocal.net:8000/en/admin/c... ☆

Back to site Manage admin Admin Toolbar quick search (2.0.x) Local Devel

Content Structure Appearance Extend Configuration People Reports

GDPR Checklist progress has been saved. 3 items changed.

6 of 16 (38%)

Last updated Tue, 07/16/2024 - 09:57 by admin

[Hide item descriptions](#)

- Getting Started**
2 of 2 (100%)
- Policies and other measures**
1 of 1 (100%)
- Content related suggestions**
3 of 3 (100%)
- Site feature related suggestions**
0 of 4 (0%)
- Configuration**
0 of 2 (0%)
- Beyond website management**
0 of 4 (0%)

Automated search performed on content of site.

No nodes with the following terms have been found: "Privacy Policy", "Terms of Use", "About us" or "Impressum". Configure them here: [Content link configuration](#)

- I have checked through the site's content and verified that a page containing *Privacy Policy* exists and has been published to this site. - Completed 07/16/2024 - 09:57 by admin
Please verify manually that such content of similar titles exists and has been published.
- I confirm the existing "Privacy Policy" or similar page has been published. - Completed 07/16/2024 - 09:57 by admin
This *GDPR* module does not automatically affect publishing status of site content. Therefore, even if such information has been uploaded (regarding the previous point), then you must make sure that this content is available to visitors.
- I confirm the published "Privacy Policy" or similar page is included in at least one menu of the site. - Completed 07/16/2024 - 09:57 by admin
To ensure best practice, it's strongly recommended to divulge personal data handling guidelines on the site by including a link to the guidelines page in a generally displayed menu in clear view on the site layout.

Save Clear saved progress

GDPR Checklist | Invest x General Data Protectio x Regulation (EU) 2016/679 x Regulation - 2016/679 x +

Not secure drupal.dlocal.net:8000/en/admin/c... ☆

Back to site Manage admin Admin Toolbar quick search (2.0.x) Local Devel

Content Structure Appearance Extend Configuration People Reports

Last updated Tue, 07/16/2024 - 09:58 by admin 10 of 16 (63%)

[Hide item descriptions](#)

- Getting Started**
2 of 2 (100%)
- Policies and other measures**
1 of 1 (100%)
- Content related suggestions**
3 of 3 (100%)
- Site feature related suggestions**
4 of 4 (100%)
- Configuration**
0 of 2 (0%)
- Beyond website management**
0 of 4 (0%)

This group of checkpoints addresses various actions to be taken regarding site features.

- Yes, I'm aware there are external traffic measurement and user tracking services integrated on this site - Completed 07/16/2024 - 09:58 by admin**
As the owner and/or maintainer of the site I have, to the best of my knowledge, taken the necessary measures to set up these 3rd-party data collecting tools to ensure maximum compliance with GDPR regulations.
 - Google Tag (enabled)
 - reCAPTCHA (enabled)
- Yes, I'm aware there are connections established between this site and some social media platforms - Completed 07/16/2024 - 09:58 by admin**
As many social media platforms collect identifiable personal data, I acknowledge that the owner of this site is responsible for setting up these connections to ensure maximum compliance with GDPR regulations.
- I confirm that all Drupal core, community, and custom modules have been revised as to not gather any unnecessary personal data of site visitors - Completed 07/16/2024 - 09:58 by admin**
Owner and/or maintainer of the site has to ensure that the modules listed below have been revised as to gather only necessary (i.e. not needed for provision of service) personal data of site visitors.
 - Contact (disabled)
 - Webform (enabled)
- I have examined all aspects of displayed personal data, associated with this site, to ensure that all users can access only permitted types of information according to their role - Completed 07/16/2024 - 09:58 by admin**
Consider every use case in which Drupal fetches information from its database and exposes it to external parties. Bear in mind all possible scenarios extending beyond webpages, eg. RSS feeds, metadata and outgoing e-mail templates sent by the site.

Save Clear saved progress

GDPR Checklist | Invest x General Data Protectio x Regulation (EU) 2016/679 x Regulation - 2016/679 x +

Not secure drupal.dlocal.net:8000/en/admin/c...

Back to site Manage admin Admin Toolbar quick search (2.0.x) Local Devel

Content Structure Appearance Extend Configuration People Reports

✓ **Status message**
GDPR Checklist progress has been saved. 2 items changed.

Last updated Tue, 07/16/2024 - 09:58 by admin 12 of 16 (75%)

[Hide item descriptions](#)

Getting Started 2 of 2 (100%)	Things you can do by just making changes in your site configuration
Policies and other measures 1 of 1 (100%)	<input checked="" type="checkbox"/> Allow users to cancel their own user account - Completed 07/16/2024 - 09:58 by admin Permissions for "Cancel own user account"
Content related suggestions 3 of 3 (100%)	<input checked="" type="checkbox"/> Users need to be able to request for removal of all their personal data. - Completed 07/16/2024 - 09:58 by admin Account configuration for "Delete the account and make its content belong to the Anonymous user"
Site feature related suggestions 4 of 4 (100%)	
Configuration 2 of 2 (100%)	
Beyond website management 0 of 4 (0%)	

[Save](#) [Clear saved progress](#)

GDPR Checklist | Invest x General Data Protectio x Regulation (EU) 2016/679 x Regulation - 2016/679 x +

Not secure drupal.dffocal.net:8000/en/admin/c...

Back to site Manage admin Admin Toolbar quick search (2.0.x) Local Devel

Content Structure Appearance Extend Configuration People Reports

Getting Started

2 of 2 (100%)

Policies and other measures

1 of 1 (100%)

Content related suggestions

3 of 3 (100%)

Site feature related suggestions

4 of 4 (100%)

Configuration

2 of 2 (100%)

Beyond website management

1 of 4 (25%)

The scope of GDPR is not clearly defined, stretching far beyond IT and legal aspects.

I have found and consulted with a legal adviser

It is strongly suggested to have a complete overview of the internal data handling workflows within the organisation represented by the website. An experienced legal adviser can guide your organisation through this transformation process.

I have enabled all features of the GDPR module

In order to have a complete overview of the site functionalities, it's recommended to enable the following features as well:

- Anonymizer (disabled)
- General Data Protection Regulation (GDPR) - Consent Tracking (disabled)
- General Data Protection Regulation (GDPR) - Obfuscated SQL Dump (disabled)
- General Data Protection Regulation (GDPR) - Fields (disabled)
- General Data Protection Regulation (GDPR) - Tasks (disabled)

[Enable them on Extend admin page](#)

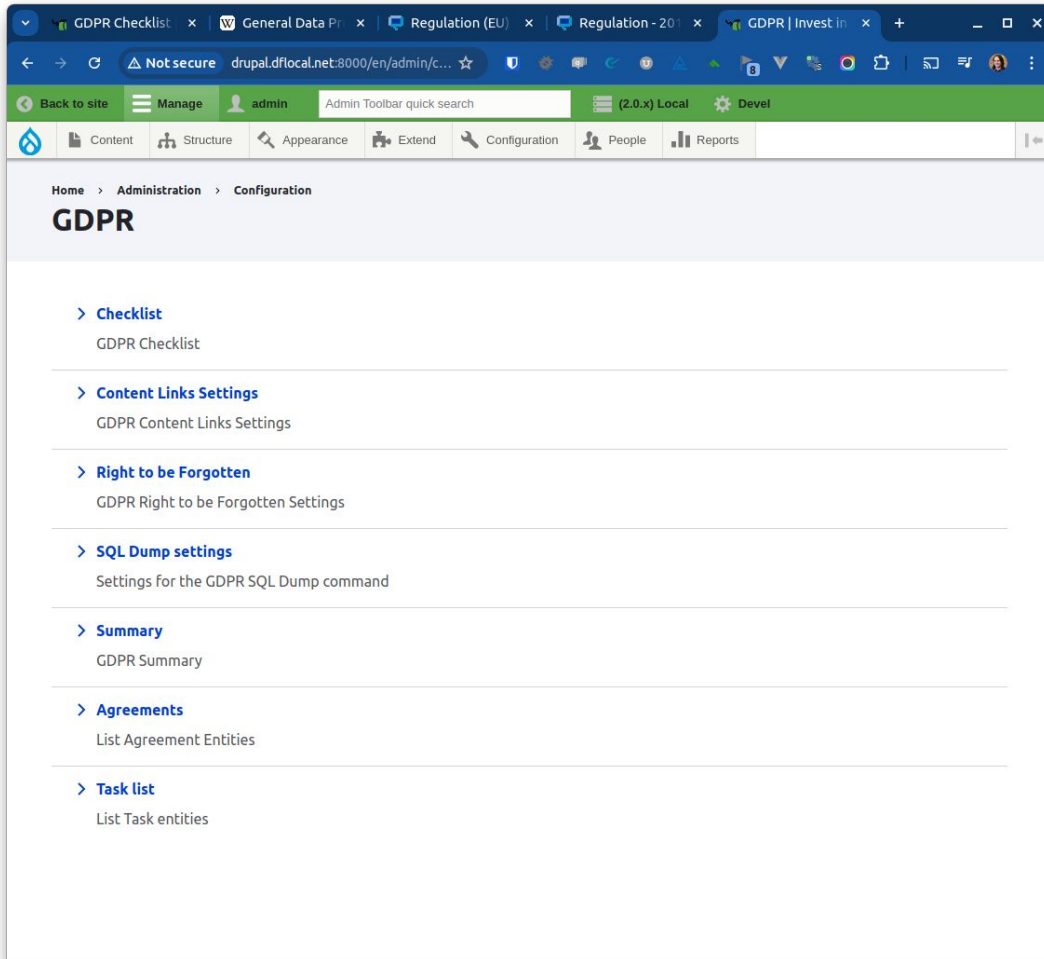
I declare that I am able to notify the supervisory authority within 72 hours in the case of a personal data breach

Referring to Article 33 of the regulation, site owner/maintainer as a data controller must have a contingency plan in place in the event of any personal data breach incident.

I confirm that I have understood that the responsibility of personal data logging is dependent on the size of my organisation as described below:

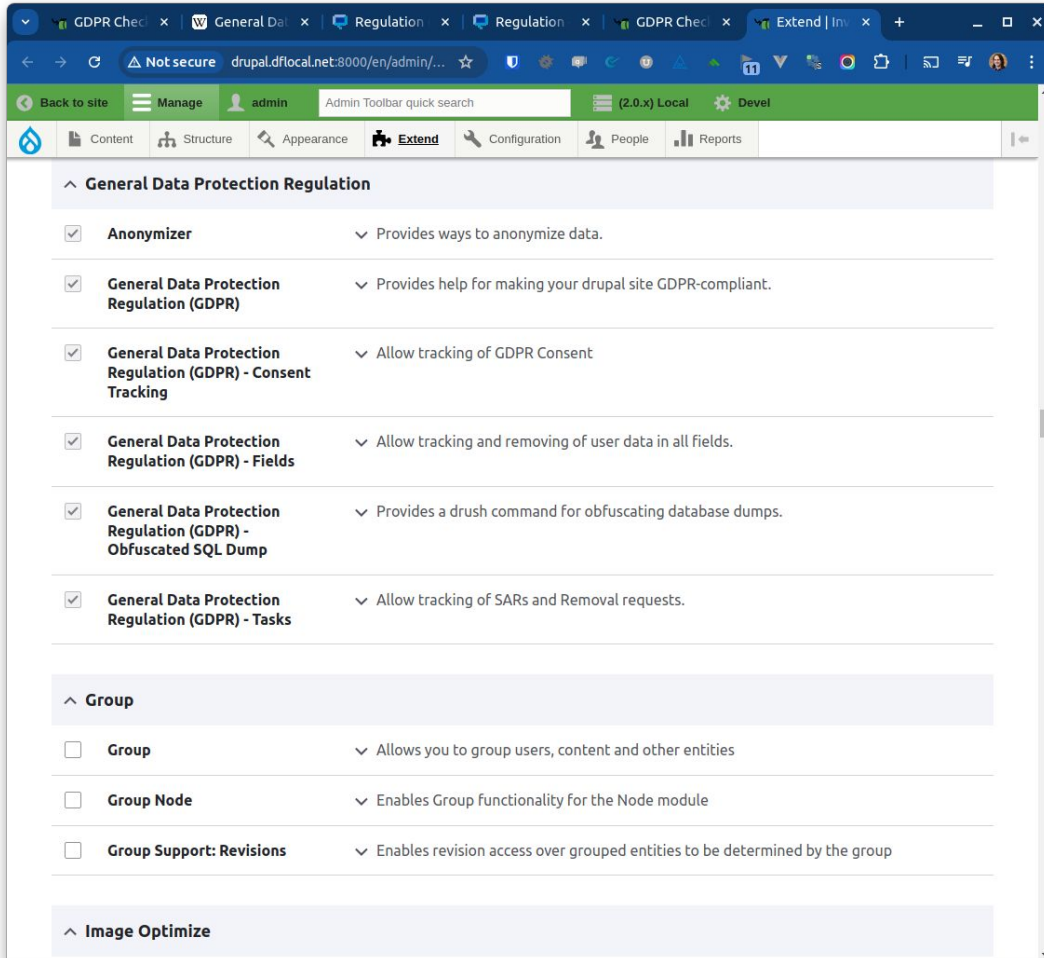
- Has fewer than 250 employees the processing it carries out is likely no result in a risk to the rights and freedoms of data subjects, the processing is only occasional and the processing does not includes special categories of data (Article 30/5) and as such my organisation is not required to create records of processing activities
- My organisation has 250 or more employees and records of processing activities have been prepared according to Article 30 of the regulation

Save Clear saved progress



The screenshot shows a web browser window with several tabs open, including "GDPR Checklist", "General Data Pr...", "Regulation (EU)", "Regulation - 20...", and "GDPR | Invest in...". The address bar shows "Not secure drupal.dffocal.net:8000/en/admin/c...". The browser's admin toolbar includes "Back to site", "Manage", "admin", and "Admin Toolbar quick search". Below the toolbar, there are navigation tabs for "Content", "Structure", "Appearance", "Extend", "Configuration", "People", and "Reports". The main content area displays the breadcrumb "Home > Administration > Configuration" and the heading "GDPR". A list of configuration options is shown, each with a right-pointing chevron icon:

- [Checklist](#)
GDPR Checklist
- [Content Links Settings](#)
GDPR Content Links Settings
- [Right to be Forgotten](#)
GDPR Right to be Forgotten Settings
- [SQL Dump settings](#)
Settings for the GDPR SQL Dump command
- [Summary](#)
GDPR Summary
- [Agreements](#)
List Agreement Entities
- [Task list](#)
List Task entities



The screenshot shows a web browser window displaying the Drupal administration interface. The browser's address bar shows the URL `drupal.dlocal.net:8000/en/admin/...`. The page title is "Extend | In...". The navigation menu includes "Content", "Structure", "Appearance", "Extend", "Configuration", "People", and "Reports". The "Extend" tab is active, showing a list of modules under the "General Data Protection Regulation" group. The modules listed are:

- Anonymizer** - Provides ways to anonymize data.
- General Data Protection Regulation (GDPR)** - Provides help for making your drupal site GDPR-compliant.
- General Data Protection Regulation (GDPR) - Consent Tracking** - Allow tracking of GDPR Consent
- General Data Protection Regulation (GDPR) - Fields** - Allow tracking and removing of user data in all fields.
- General Data Protection Regulation (GDPR) - Obfuscated SQL Dump** - Provides a drush command for obfuscating database dumps.
- General Data Protection Regulation (GDPR) - Tasks** - Allow tracking of SARs and Removal requests.

Below this group, there is a section for "Group" with the following modules:

- Group** - Allows you to group users, content and other entities
- Group Node** - Enables Group functionality for the Node module
- Group Support: Revisions** - Enables revision access over grouped entities to be determined by the group

At the bottom, there is a section for "Image Optimize".

GDPR Check x General Dal x Regulation x Regulation x SQL Dump x Extend | Inv x +

Not secure drupal.dlocal.net:8000/en/admin/c...

Back to site Manage admin Admin Toolbar quick search (2.0.x) Local Devel

Content Structure Appearance Extend Configuration People Reports

Home > Administration > Configuration > GDPR

SQL Dump settings

Apply anonymization for each table columns containing sensitive data!

Table: [user__field_last_name](#)

Data storage for user field field_last_name.

Field	Type	Description	Apply anonymization
bundle	varchar	The field instance bundle to which this row belongs, used when deleting a field instance	- No -
deleted	tinyint	A boolean indicating whether this data item has been deleted	- No -
entity_id	int	The entity id this data is attached to	- No -
revision_id	int	The entity revision id this data is attached to, which for an unversioned entity type is the same as the entity id	- No -
langcode	varchar	The language code for this data item.	- No -
delta	int	The sequence number for this data item, used for multi-value fields	- No -

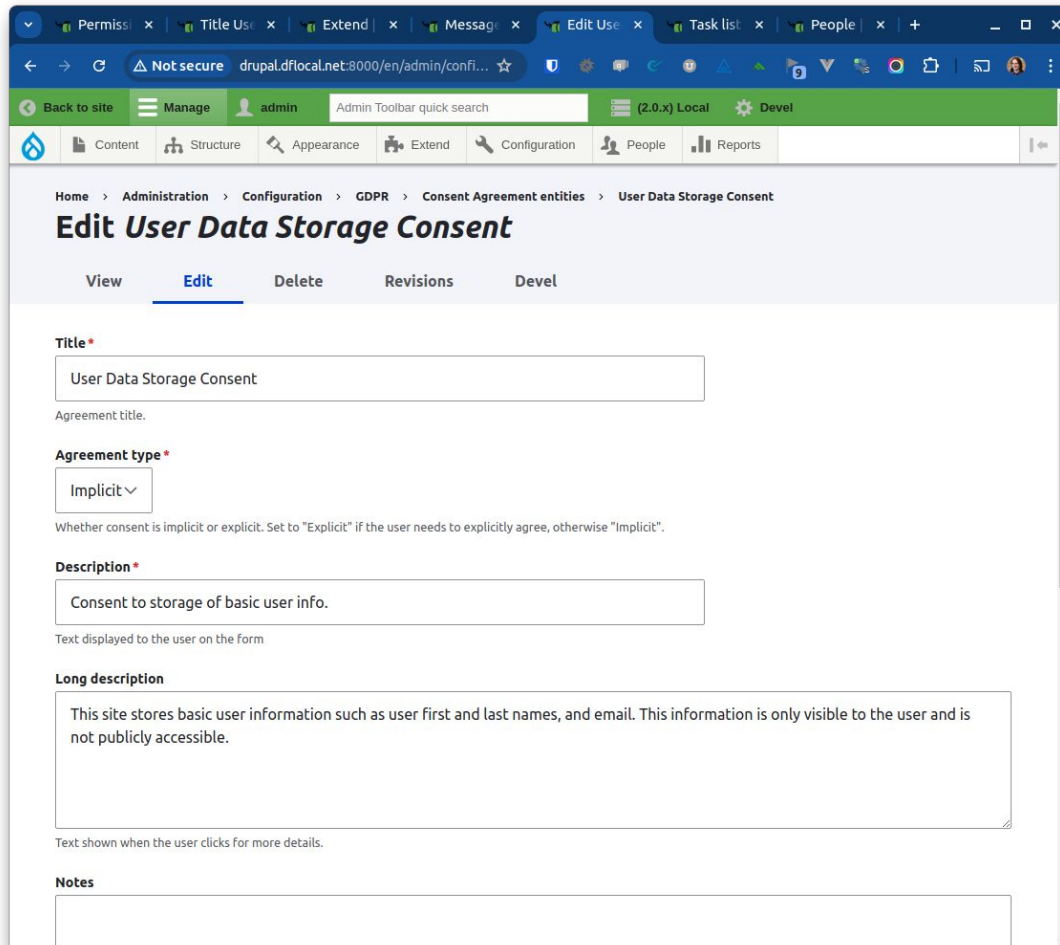
GDPR Check x General Dal x Regulation x Regulation x SQL Dump x Extend | Inv x +

Not secure drupal.dffocal.net:8000/en/admin/c...

Back to site Manage admin Admin Toolbar quick search (2.0.x) Local Devel

Content Structure Appearance Extend Configuration People Reports

uid	int	-	Number anonymizer
langcode	varchar	-	- No -
preferred_langcode	varchar	-	Random Text anonymizer
preferred_admin_langcode	varchar	-	- No -
name	varchar	-	Username anonymizer
pass	varchar	-	Password anonymizer
mail	varchar	-	Email anonymizer
timezone	varchar	-	- No -
status	tinyint	-	- No -
created	int	-	Date anonymizer



The screenshot shows a web browser window with multiple tabs. The active tab is 'Edit Use...'. The address bar shows 'Not secure drupal.dffocal.net:8000/en/admin/confi...'. The browser's navigation bar includes 'Back to site', 'Manage', 'admin', and 'Admin Toolbar quick search'. Below the navigation bar is a menu with icons for Content, Structure, Appearance, Extend, Configuration, People, and Reports. The main content area has a breadcrumb trail: 'Home > Administration > Configuration > GDPR > Consent Agreement entities > User Data Storage Consent'. The page title is 'Edit User Data Storage Consent'. Below the title are tabs for 'View', 'Edit', 'Delete', 'Revisions', and 'Devel'. The 'Edit' tab is selected. The form contains the following fields:

- Title***: A text input field containing 'User Data Storage Consent'. Below it is the label 'Agreement title.'
- Agreement type***: A dropdown menu with 'Implicit' selected. Below it is the label 'Whether consent is implicit or explicit. Set to "Explicit" if the user needs to explicitly agree, otherwise "Implicit".'
- Description***: A text input field containing 'Consent to storage of basic user info.'. Below it is the label 'Text displayed to the user on the form'.
- Long description**: A text area containing 'This site stores basic user information such as user first and last names, and email. This information is only visible to the user and is not publicly accessible.'. Below it is the label 'Text shown when the user clicks for more details.'
- Notes**: An empty text area.



OTHER CONTRIB MODULES

- ▶ EU Cookie Compliance
 - ▷ https://www.drupal.org/project/eu_cookie_compliance
- ▶ Cookiebot
 - ▷ <https://www.drupal.org/project/cookiebot>
- ▶ General Data Protection Regulation Compliance
 - ▷ https://www.drupal.org/project/gdpr_compliance
- ▶ CookiePro (and CookiePro Plus)
 - ▷ <https://www.drupal.org/project/cookiepro>
 - ▷ https://www.drupal.org/project/cookiepro_plus

5.

Consent management & Cookies



CONSENT MANAGEMENT PLATFORMS

- ▶ Third-party organizations
- ▶ Provide cookie consent, management, banner, auto-blocking
- ▶ Paid & free solutions available



STEPS FOR INTEGRATING CONSENT MANAGEMENT

Scan



Categorize



Deploy

Website Details

Completed

PUBLISH

PUBLISH TEST

...



Scan Results

Branding

Login Settings

Activity

Show 07/23/2024 01:56 PM

Scan Now

Export

Overview

Services

Cookies

Forms

Pages

Storage

Initiators

Vendor Services



Total 9

Targeting Cookies	3
Functional Cookies	4
Performance Cookies	2

New Cookies



Total 48

Unknown	3
Functional Cookies	10
Targeting Cookies	23
Performance Cookies	12

Forms



No Items to Display

Tags



Total 40

Fetch	2
Script	18
XHR	4
Image	8
Font	5
Stylesheet	3



COOKIE CATEGORIES

*see <https://gdpr.eu/cookies/>

Performance

(Analytics)

Collect information about how users are interacting with the site. Usually aggregated/anonymized, used for evaluating site performance

Functional (Preference)

Not vital for a site to run, but are used to add additional functionality. Also used to track user site preference.

E.g. using user location to enhance certain parts of the site.



COOKIE CATEGORIES

*see <https://gdpr.eu/cookies/>

Marketing /advertising /targeting

Allow advertisers to track and model user data & behaviour for purposes of marketing and targeted advertising campaigns.

Strictly Necessary

Cookies that are necessary to provide the service, application, and other essential functionality of the site.

Categorizations

[Cookies](#)
[Services](#)
[Tags](#)
[SDKs](#)
[Hosts](#)
[Categories](#)

Language
[Manage Languages](#)
[Add Cookie](#)
[Manage Not Found Cookies](#)
⋮

All Domains ▶

🔍
📄
⌵

<input type="checkbox"/>	Cookie Name	Source	Lifespan	Hostname ↑	Default Category	Default Description	Domain
<input type="checkbox"/>	MUID	Scan	PERSISTENT	.bing.com	Targeting Cookies	This cookie is widely used my Microsoft as a ...	
<input type="checkbox"/>	MR	Scan	PERSISTENT	.c.bing.com	Targeting Cookies	This is a Microsoft MSN 1st party cookie whic...	
<input type="checkbox"/>	SRM_B	Scan	PERSISTENT	.c.bing.com	Targeting Cookies	This is a Microsoft MSN 1st party cookie that ...	
<input type="checkbox"/>	SM	Scan	PERSISTENT	.c.clarity.ms	Functional Cookies	This is a Microsoft MSN 1st party cookie whic...	
<input type="checkbox"/>	MR	Scan	PERSISTENT	.c.clarity.ms	Functional Cookies	This is a Microsoft MSN 1st party cookie whic...	
<input type="checkbox"/>	ANONCHK	Scan	PERSISTENT	.c.clarity.ms	Functional Cookies	This cookie carries out information about ho...	
<input type="checkbox"/>	MUID	Scan	PERSISTENT	.clarity.ms	Performance Cookies	This cookie is widely used my Microsoft as a ...	
<input type="checkbox"/>	NID	Scan	PERSISTENT	.google.com	Targeting Cookies	This domain is owned by Google Inc. Althoug...	
<input type="checkbox"/>	APISID	Scan	PERSISTENT	.google.com	Targeting Cookies	This DoubleClick cookie is generally set throu...	
<input type="checkbox"/>	HSID	Scan	PERSISTENT	.google.com	Targeting Cookies	This cookie is set by DoubleClick (which is ow...	
<input type="checkbox"/>	__Secure-1PAPISID	Scan	PERSISTENT	.google.com	Targeting Cookies		
<input type="checkbox"/>	__Secure-1PSID	Scan	PERSISTENT	.google.com	Targeting Cookies		



FIRST-PARTY **VS** THIRD-PARTY COOKIES

First-party

Cookies that originate from the site itself. Only available for requests to the site domain.

Third-party

Originate from another (non-site) domain, available to any other site that includes cookies from that third-party domain.



TIPS FOR DEVELOPERS

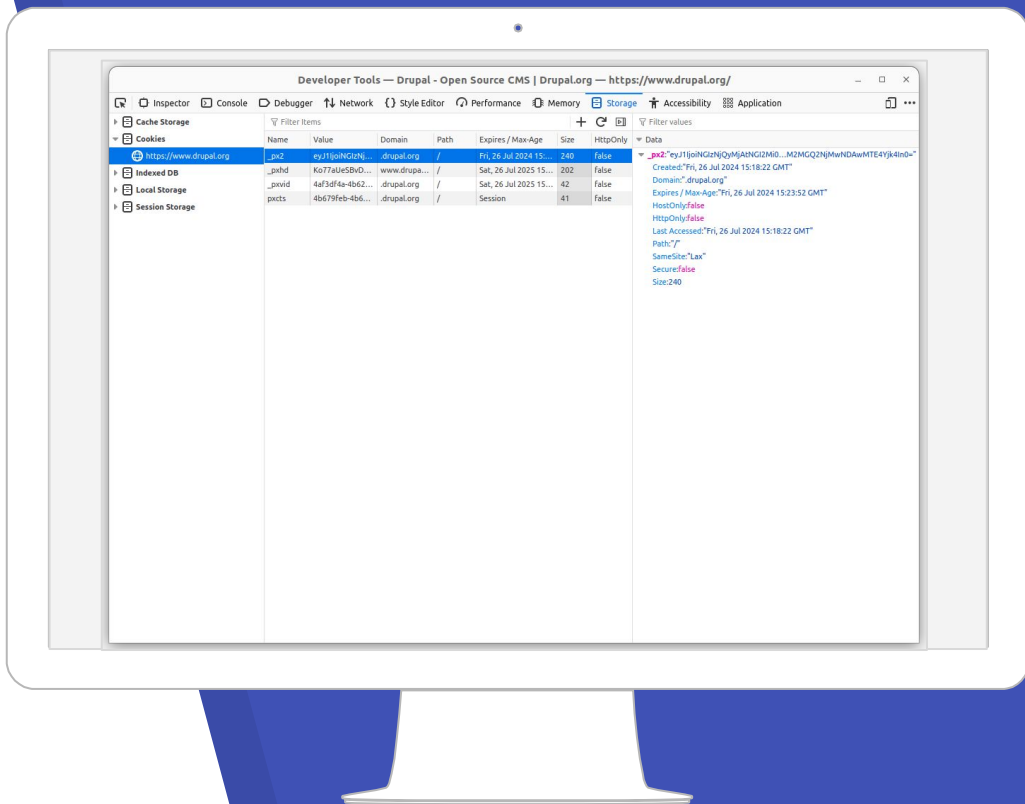
Bring the attention of your audience over a key concept using icons or illustrations



INSPECTING COOKIES

(Firefox)

Developer tools
allow you to
inspect cookies.



Inspector Console Debugger Network Style Editor Performance Memory Storage Accessibility Application

Cache Storage Cookies Indexed DB Local Storage Session Storage

Filter Items

Name	Value	Domain	Path	Expires / Max-Age	Size	HttpOnly
_px2	eyJ1joiNGlzMj...	.drupal.org	/	Fri, 26 Jul 2024 15:...	240	false
_pxhd	Ko77aUe5BvD...	www.drupa...	/	Sat, 26 Jul 2025 15:...	202	false
_pxvid	4af3df4a-4b62...	.drupal.org	/	Sat, 26 Jul 2025 15:...	42	false
pxcts	4b679feb-4b6...	.drupal.org	/	Session	41	false

Filter values

Data

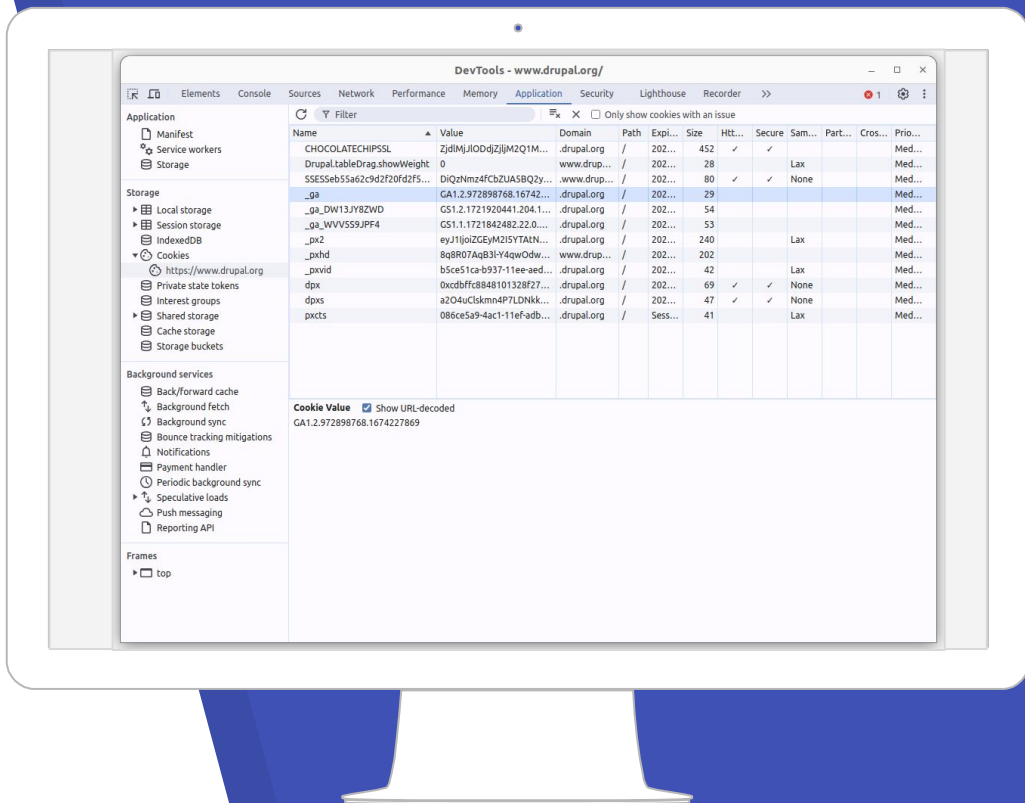
_px2:"eyJ1joiNGlzMjQyMjM0M2M2MQQ2NjMwNDAwMTE4Yjk4In0="

- Created:"Fri, 26 Jul 2024 15:18:22 GMT"
- Domain:".drupal.org"
- Expires / Max-Age:"Fri, 26 Jul 2024 15:23:52 GMT"
- HostOnly:false
- HttpOnly:false
- Last Accessed:"Fri, 26 Jul 2024 15:18:22 GMT"
- Path:"/"
- SameSite:"Lax"
- Secure:false
- Size:240



INSPECTING COOKIES

(Chrome)
Developer tools
allow you to
inspect cookies.



Elements Console Sources Network Performance Memory Application Security Lighthouse Recorder >> 1

Application

- Manifest
- Service workers
- Storage

Storage

- Local storage
- Session storage
- IndexedDB
- Cookies
 - https://www.drupal.org
- Private state tokens
- Interest groups
- Shared storage
- Cache storage
- Storage buckets

Background services

- Back/forward cache
- Background fetch
- Background sync
- Bounce tracking mitigations
- Notifications
- Payment handler
- Periodic background sync
- Speculative loads
- Push messaging
- Reporting API

Frames

- top

Filter Only show cookies with an issue

Name	Value	Domain	Path	Expi...	Size	Htt...	Secure	Sam...	Part...	Cros...	Prio...
CHOCOLATECHIPSSL	ZjdIMjIODdjZijlM2Q1M...	.drupal.org	/	202...	452	✓	✓				Med...
Drupal.tableDrag.showWeight	0	www.drup...	/	202...	28			Lax			Med...
SSE5Seb55a62c9d2f20fd2F5...	DiQzNmz4fCbZUA5BQ2y...	.www.drup...	/	202...	80	✓	✓	None			Med...
_ga	GA1.2.972898768.16742...	.drupal.org	/	202...	29						Med...
_ga_DW13JY8ZWD	GS1.2.1721920441.204.1...	.drupal.org	/	202...	54						Med...
_ga_WVV559JPF4	GS1.1.1721842482.22.0....	.drupal.org	/	202...	53						Med...
_px2	eyJ1joiZGEyM2lSYtATN...	.drupal.org	/	202...	240			Lax			Med...
_pxhd	8q8R07AqB3l-Y4qwOdw...	.www.drup...	/	202...	202						Med...
_pxvid	b5ce51ca-b937-11ee-aed...	.drupal.org	/	202...	42			Lax			Med...
dpx	0xcdbf8848101328f27...	.drupal.org	/	202...	69	✓	✓	None			Med...
dpxs	a2O4uClskmn4P7LDNkk...	.drupal.org	/	202...	47	✓	✓	None			Med...
pxcts	086ce5a9-4ac1-11eF-adb...	.drupal.org	/	Sess...	41			Lax			Med...

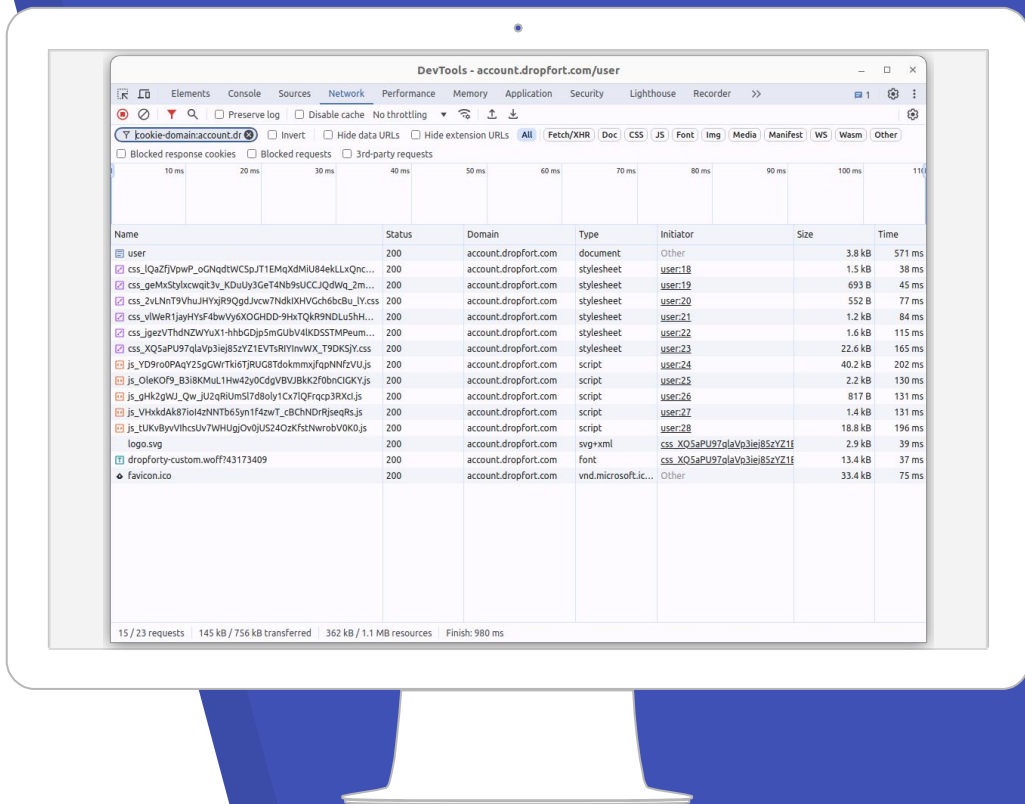
Cookie Value Show URL-decoded

GA1.2.972898768.1674227869



INSPECTING COOKIES (extra)

(Chrome) Select
cookie, right-click
-> Show Requests
With This Cookie



DevTools - account.dropfort.com/user

Elements Console Sources Network Performance Memory Application Security Lighthouse Recorder >>

Preserve log
 Disable cache
 No throttling
 Blocked response cookies
 Blocked requests
 3rd-party requests

Invert
 Hide data URLs
 Hide extension URLs
 All
 Fetch/XHR
 Doc
 CSS
 JS
 Font
 Img
 Media
 Manifest
 WS
 Wasm
 Other

10 ms 20 ms 30 ms 40 ms 50 ms 60 ms 70 ms 80 ms 90 ms 100 ms 110 ms

Name	Status	Domain	Type	Initiator	Size	Time
user	200	account.dropfort.com	document	Other	3.8 kB	571 ms
css_lQaZfVpwp_oGNqdtWCSpJT1EMqXdMiU84ekLLxQnc...	200	account.dropfort.com	stylesheet	user:18	1.5 kB	38 ms
css_geMxStylxcwqit3v_KDUy3GeT4Nb9sUCCJQdWq_2m...	200	account.dropfort.com	stylesheet	user:19	693 B	45 ms
css_2vLNt9VhuJHYxJR9QgdJvcw7NdkIXHVGch6bcBu_Y.css	200	account.dropfort.com	stylesheet	user:20	552 B	77 ms
css_vlWeR1jayHYsF4bwVy6XOGHDD-9HxTQKR9NDLu5hH...	200	account.dropfort.com	stylesheet	user:21	1.2 kB	84 ms
css_jgezVTdNZWYuX1-hhbGDjp5mGUBv4KDSSTMPeum...	200	account.dropfort.com	stylesheet	user:22	1.6 kB	115 ms
css_XQ5aPU97qlaVp3iej85zYZ1EVTsRIYInvWX_T9DKSjY.css	200	account.dropfort.com	stylesheet	user:23	22.6 kB	165 ms
js_YD9ro0PAqY25gGWrTki6TJRUG8TdokmmxfqjNNfzVU.js	200	account.dropfort.com	script	user:24	40.2 kB	202 ms
js_OleKOf9_B3i8KMul1Hw42y0CdgvBVJbK2f0bnCIGKY.js	200	account.dropfort.com	script	user:25	2.2 kB	130 ms
js_gHk2gWJ_Qw_jiU2qRiUmSl7d8oly1Cx7lQFrqcp3RXcl.js	200	account.dropfort.com	script	user:26	817 B	131 ms
js_VHxkdAk87iol4zNNTb65yn1F4zwT_cBChNDRjseqRs.js	200	account.dropfort.com	script	user:27	1.4 kB	131 ms
js_tUKvByvVhcsUv7WHUujOv0jUS24OzKfstNwrobV0K0.js	200	account.dropfort.com	script	user:28	18.8 kB	196 ms
logo.svg	200	account.dropfort.com	svg+xml	css_XQ5aPU97qlaVp3iej85zYZ1E	2.9 kB	39 ms
dropforty-custom.woff?43173409	200	account.dropfort.com	font	css_XQ5aPU97qlaVp3iej85zYZ1E	13.4 kB	37 ms
favicon.ico	200	account.dropfort.com	vnd.microsoft.ic...	Other	33.4 kB	75 ms

15 / 23 requests | 145 kB / 756 kB transferred | 362 kB / 1.1 MB resources | Finish: 980 ms



THANKS!

Any questions?

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