



TYPO3 12 | What`s new

Herzlich Willkommen zur Release Party

Über uns

Einzigartige TYPO3 Erweiterungen

Einzigartige Lösungen

35 einzigartige Experten

Stefan Busemann
Founder, CFO

Martin Huber
CTO

Alexander Kellner
Founder, COO

Wissen und Erfahrung

Project Manager, Scrum Master,
Developer, Online Marketing +
SEO Experts, Designer + UX
Professionals, Infrastructure
Architects

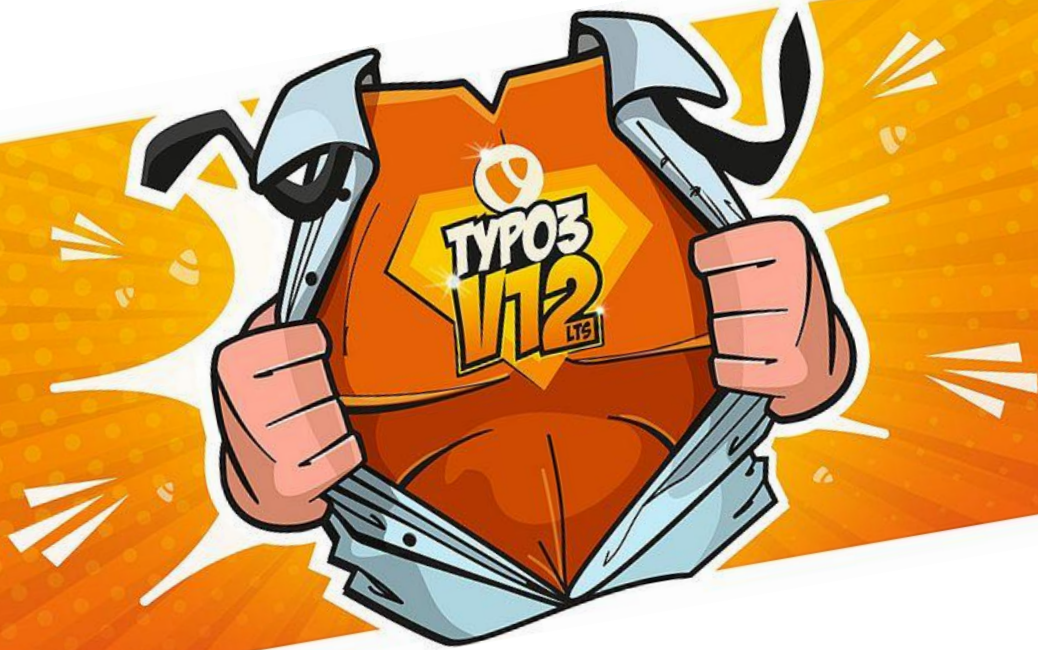
TYPO3 Certified Consultants,
Integrators, Developers und
Editors



in2code und TYPO3

- TYPO3 Platinum Membership
- TYPO3 Association Vorstandschaft
- TYPO3 Usergroup
- Free TYPO3 Extensions
- Sponsor & Organisator
- Open Source Supporter





 TYP03

v12 LTS – Here To Save The Day

TYP03 version 12 LTS is out!

569 Days

141 Contributors

3.256 Commits

18.714 changed Files

— INTEGRATIONS

Incoming Webhooks

Reactions bzw. Incoming
HTTP Webhooks

z.B.: Anbindung
Zahlungsdienstleister für
Shopsystem,
Benutzermanagement, etc...



[+ Create new reaction](#)

Reactions — Manage Incoming HTTP Webhooks


Name

Reaction Type

 Show all

Filter

Reset

<input type="checkbox"/> Name ▲	Reaction Type	URL
<input type="checkbox"/>  Internal Note	Create database record	<pre>https://typo3.screenshots.ddev.site/typo3/reaction/3d507621-c198-4817-a6f8-3b04d1a879a5</pre> <pre>curl -X 'POST' \ 'https://typo3.screenshots.ddev.site/typo3/reaction/3d507621-c198-4817-a6f8-3b04d1a879a5' \ -d '{"my-payload":"my-value","field-b":"my-input"}' \ -H 'accept: application/json' \ -H 'x-api-key: ***your-secret***'</pre>

[Example](#)

- Dashboard
- Web
- Site Management
- File
- Admin Tools
- System
- Access
- Backend Users
- Reactions
- Reports
- Log
- DB Check
- Configuration

Close Save New Delete

Edit System Reactions "Page Note" on root level

General Access

Configuration

General configuration of the reaction.

Reaction Type

Create database record

Name

Meaningful name of the reaction

Page Note

Description

Additional information about the reaction.

Identifier

This is your unique reaction identifier within the TYPO3 URL

50e1a2b2-aef7-4035-b508-e0d2c2137c67

Secret

The secret is required to call the reaction from the outside. The secret can be reset anytime, but will only be visible once (until the record got saved).

.....

Additional configuration

Table

Select one tables to display the corresponding fields.

Internal note

Storage PID

Select the page on which a new record is created on.

Impersonate User

Select the user with the appropriate access rights that is allowed to add a record.

Beispiel Request

Beispiel Request an TYPO3 mit Payload und Antwort

The screenshot displays the Insomnia REST client interface. The top menu bar includes 'Application', 'Edit', 'View', 'Window', 'Tools', and 'Help'. The main window title is 'Insomnia / TYPO3'. The interface is divided into several sections:

- Environment:** 'No Environment' and 'Cookies'.
- Request:** A POST request to 'https://typo3.screenshots.ddev.site/typo3/reaction/3d507621-c198-4817-a6f8-3b04d1a879a5'. The 'Send' button is highlighted.
- Response:** A green status bar indicates '201 Created' with a response time of '1.49 s' and a size of '16 B'. The response is shown in the 'JSON' tab, which is expanded to show the following payload:

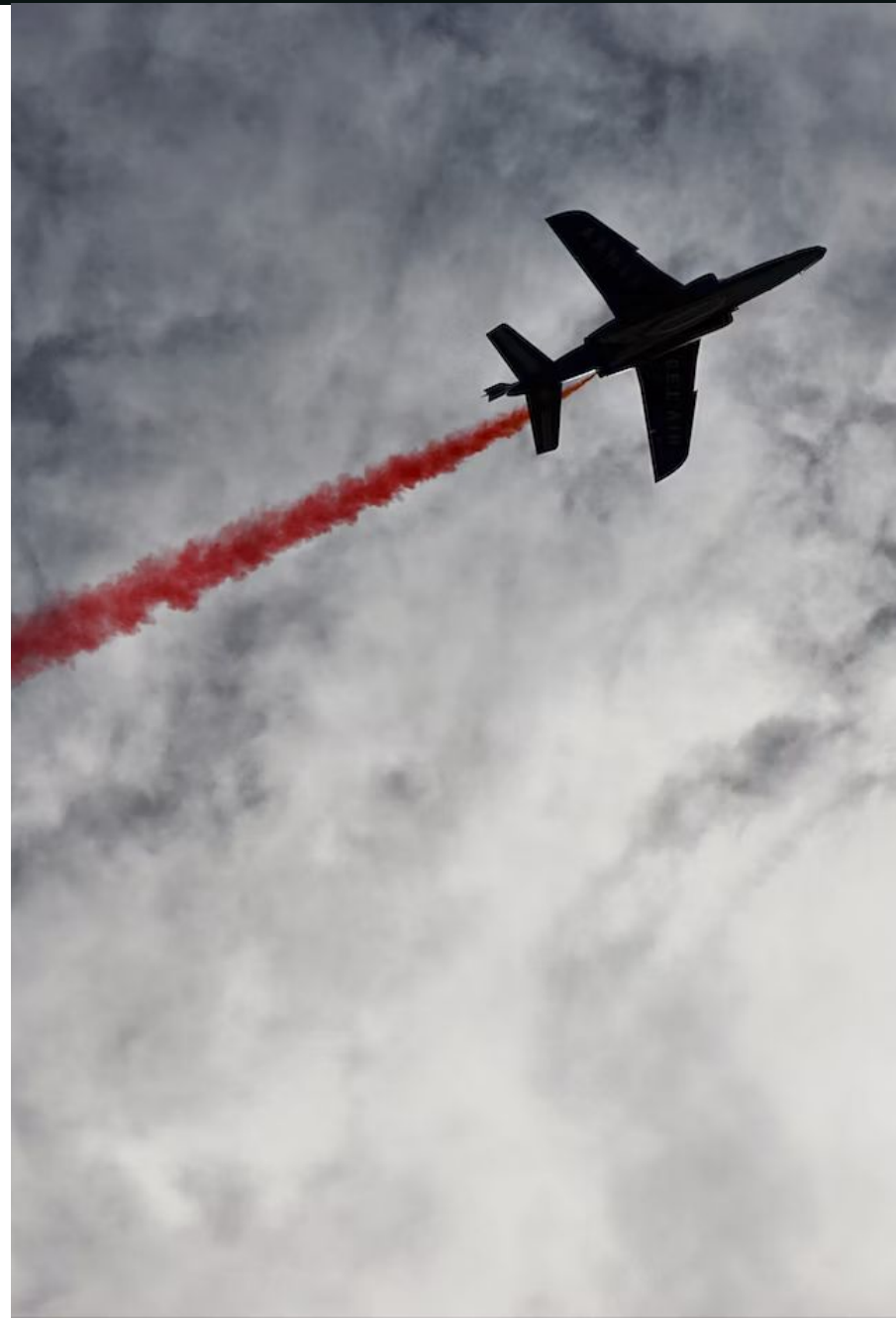
```
1 {
2   "subject": "TYPO3 v12 LTS is here",
3   "message": "Finally! TYPO3 v12 has reached Long-Time Support status. Version 12.4 is a massive feature upgrade from the previous LTS version and, once again, raises the standard for CMS systems considerably. Learn more: https://typo3.org/article/typo3-v12-lts-here-to-save-the-day"
4 }
```
- Preview:** The 'Preview' tab is active, showing the rendered HTML of the response:
















```
1 {
2   "success": true
3 }
```

Outgoing Webhooks

Automation Hub with
Trigger and Actions

z.B.: E-Mail Nachricht bei
fehlgeschlagenen
Backend-Login, Teams
Nachricht wenn sich
bestimmte Frontend
Benutzer einloggen, etc...




-  Dashboard
-  Web
-  File
-  Site Management
-  Admin Tools
-  System
-  Access
-  Backend Users
-  Reactions
-  Webhooks
-  Scheduler
-  Reports
-  Log
-  DB Check
-  Configuration

[+ Create new webhook](#)

Webhooks — Manage Outgoing HTTP Webhooks

Name Webhook Type

<input type="checkbox"/>	Name ▲	Webhook Type	URL
<input type="checkbox"/>	 Failed Logins	Event is fired if something went wrong while trying to log in a user (frontend)	<code>https://example.com/api/v1/fail</code>

✕ Close 💾 Save + New 🗑️ Delete📄 🔗

Edit System webhooks "Failed Logins" on root level

General HTTP Settings Access

Configuration

General configuration of the webhook.

Webhook Type [webhook_type]

Select the webhook type to be configured.

Event is fired if something went wrong while trying to log in a user (frontend) [TY ▼]

Name [name]

Meaningful name of the webhook

Failed Logins ✕

URL [url]

Target URL that should be called.

<https://example.com/api/v1/failed-login> 🔗 🔗

Identifier [identifier]

This is your unique webhook identifier.

04b99195-0a2f-4126-a183-051e413f47f6 📄

Description [description]

Additional information about the webhook.

Secret [secret]

The secret is mandatory to create a hash that is send with the request. The secret can be used to verify the payload is not modified, see the documentation for more details.

..... 🔁

✕ Close

💾 Save

+ New

🗑️ Delete



Edit System webhooks "Failed Logins" on root level

General

HTTP Settings

Access

HTTP Settings

Advanced HTTP request settings.

HTTP Method [\[method\]](#)

POST [POST] ▾

Additional Payload [\[additional_payload\]](#)

Additional data that should be added to the payload. Data must be provided as valid JSON string.

```
1 {  
2   "instance": "typo3v12-example-site",  
3   "notifications": true  
4 }
```

sys_webhook > additional_payload

Verify SSL [\[verify_ssl\]](#)

Verify that the connection is secure and valid, this setting should only be disabled in case a verification is not possible.

 [1]

Additional Headers [\[additional_headers\]](#)

Additional headers that should be added to the HTTP request. Data must be provided as valid JSON string.

```
1
```

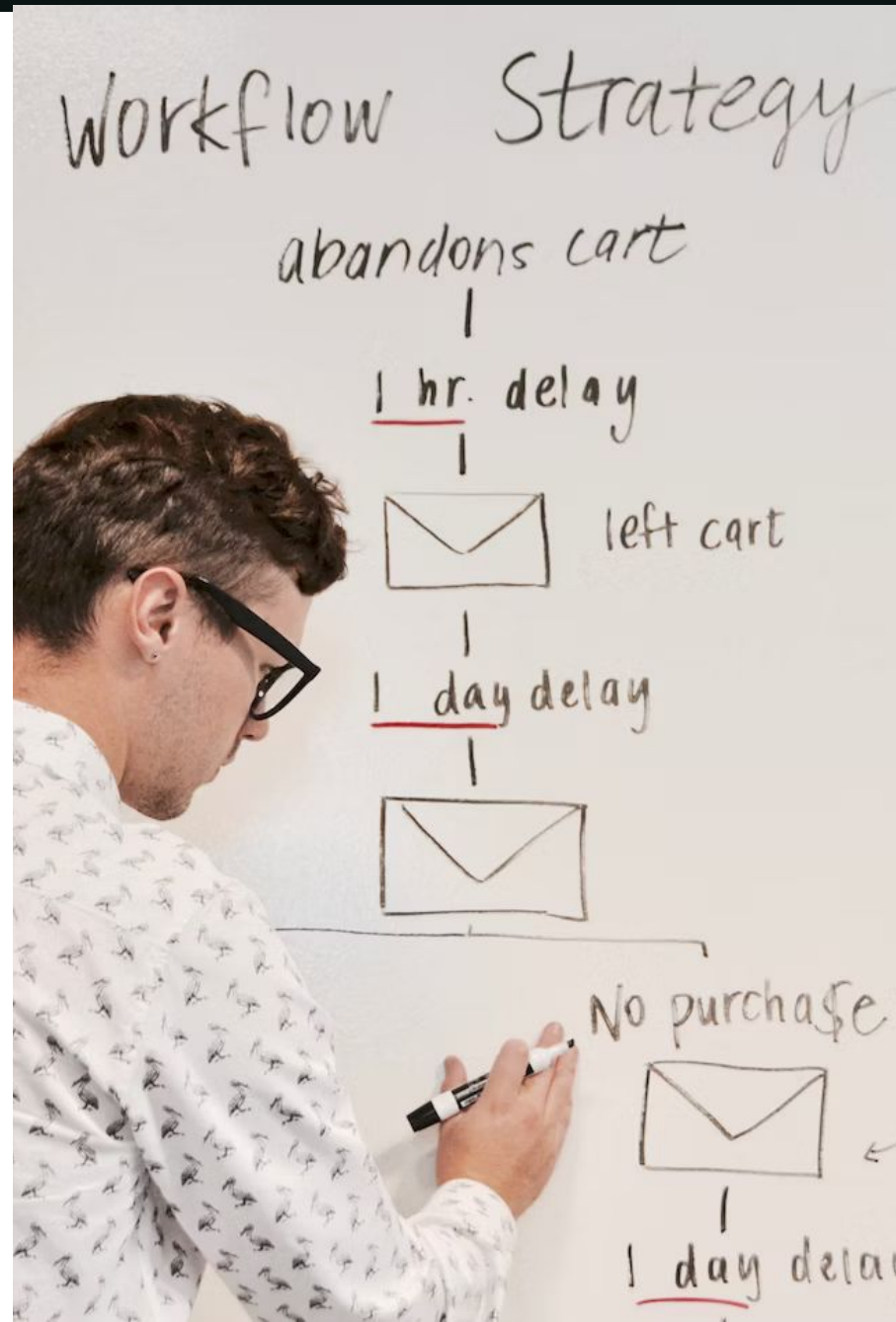
sys_webhook > additional_headers

Message Bus

Asynchrone Nachrichten
zum richtigen Zeitpunkt
versenden über eine Queue

Workflow Integration

Verbindung für externe
Workflow Tools (Zapier,
IFTTT, Make.com)



UX BACKEND

Seitenmodul

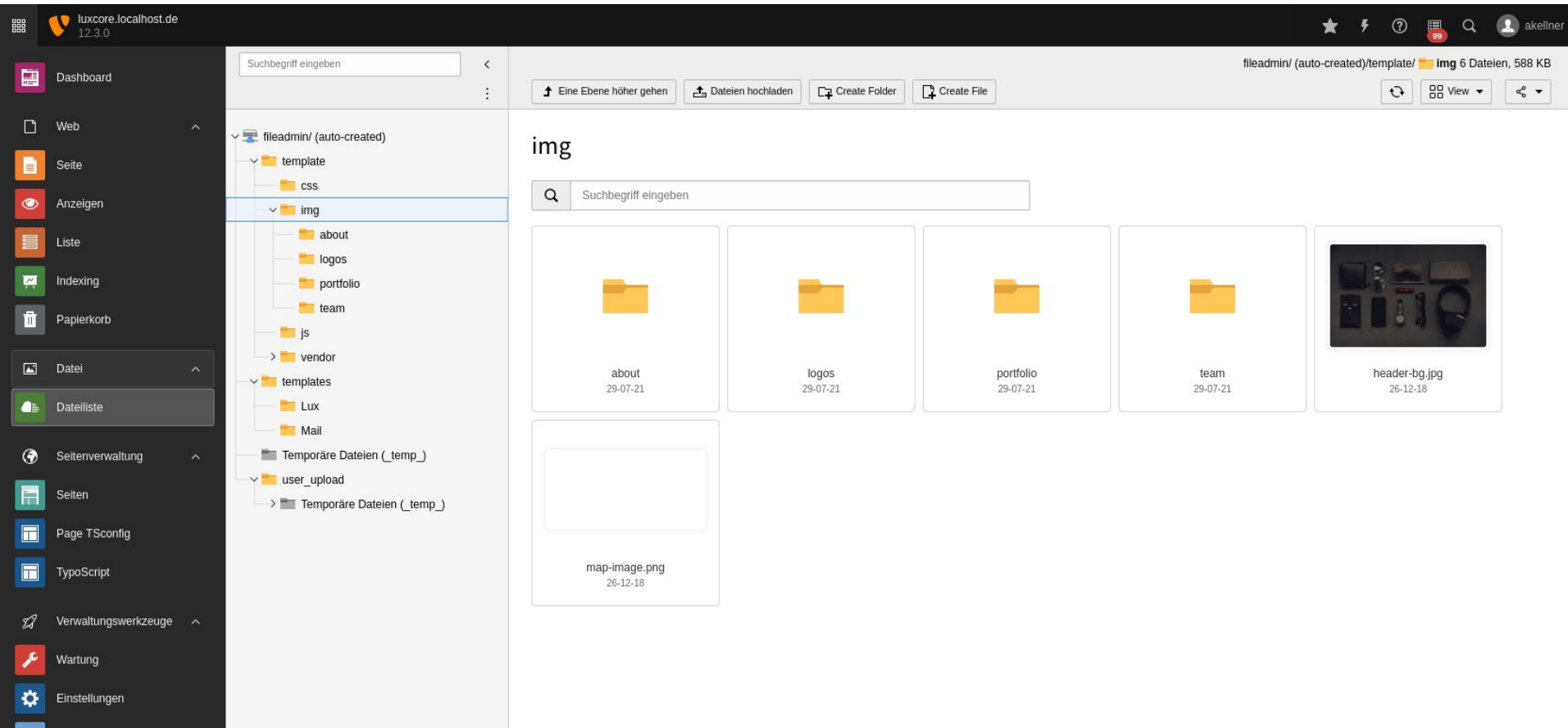
Große Flächen,
Vereinfachung Drag and Drop

The screenshot displays the in2code CMS interface for editing a page titled 'Products'. The interface is divided into several main sections:

- Left Sidebar:** A navigation menu with icons and labels for various system functions: Dashboard, Web, Seite (selected), Anzeigen, Liste, Indexing, Papierkorb, Datei, Dateiliste, Seitenverwaltung, Seiten, Page TSconfig, TypoScript, Verwaltungswerkzeuge, and Wartung. At the bottom, there is an 'Einstellungen' (Settings) icon.
- Page Tree:** A hierarchical view of the site structure. The path is: luxcore.localhost.de > Start > Products. Under 'Products', there are sub-items: Lux, Content Publisher, CERMAT, Powermail, Suche, News, Records, Workflow TP (with sub-items: Popup (every visit), Popup (2. visit only), Email (every visit), Redirect to in2code.de, Send to interface, Double Opt In, Unterseite, Blacklist me), Identification TP (with sub-items: Email4Link, SingleFieldIdentification, Kontakt, Registrierung, Login).
- Page Editor:** The main workspace for editing the page content. It features a top toolbar with a search bar, a layout selector, and buttons for language (German), showing the web page, and editing page properties. The page title 'Products' is displayed at the top. The content area is organized into sections:
 - Header:** Contains a '+ Inhalt' button and a 'Text' block with the heading 'Marketing-Automation'. The text describes marketing automation as a software-supported method for automating marketing processes.
 - Content:** Contains a '+ Inhalt' button and a 'Text' block with the heading 'Linklistener'. The text states: 'Ohne Linklistener Mit Linklistener 1 und title-Attribute Mit Linklistener 2'.
 - Right:** Contains a '+ Inhalt' button and a 'Text' block with the heading 'Unterseiten'. The text contains a link to 'Products [2]'.
- Right Sidebar:** A user profile section for 'akellner' with a star icon, a lightning bolt icon, a question mark icon, a notification icon with '99', a search icon, and a user icon.

Filemodul

Liste oder Thumbnails,
 Drag and Drop in Baum, verbesserte Suchfunktion



Suchfunktion

Lightbox, asynchrone Suchfunktion,
Schnelleinstieg und Bearbeitung, Erweiterbarkeit

The screenshot shows the in2code CMS interface with a search lightbox open. The lightbox is titled "Suchen" and contains the following elements:

- Search Input:** A search bar containing the term "lux".
- Search Hint:** A message stating: "#content:Professional will search for all content elements containing the term 'Professional'".
- Results Summary:**
 - Seite (15):** A list of 15 pages, with the first result being "Lux" under the path "/Start/Products/".
 - Kategorie (4):** A list of 4 categories: "Luxletter Category", "LUX Workflow Categories", "Lux", and "Marketing Automation Categories (Lux)".
 - TypoScript Datensatz (1):** A list of 1 TypoScript dataset: "+ Email4Link mit Newsletteranmeldung" under the path "/Start/Workflow TP/Double Opt In/".
- Navigation:** A pagination bar at the bottom of the lightbox showing page 1 of 2.
- Actions:** A button labeled "+ Inhalt" and a trash icon are visible at the bottom right of the lightbox.

The background interface shows a sidebar with navigation options like "Dashboard", "Web", "Seite", "Anzeigen", "Liste", "Indexing", "Papierkorb", "Datei", "Dateiliste", "Seitenverwaltung", "Seiten", "Page TScnfig", "TypoScript", "Verwaltungswerkzeuge", "Wartung", and "Einstellungen". The main content area shows a tree view of the site structure under "luxcore.localhost.de".

TypoScript Modul

Umbenennung,
UX Verbesserung

The screenshot displays the TYPO3 v12 LTS TypoScript editor interface. The top navigation bar includes the TYPO3 logo, version information (v12 LTS 12.4.0), and user information (TY POWER). The left sidebar contains a menu with options like Dashboard, Web, File, Site Management, Sites, Redirects, Page TSconfig, TypoScript (highlighted), Admin Tools, and System. The main content area shows a search for 'bootstrap' with filters for 'Active TypoScript' and 'View webpage'. The search results are categorized into 'Constants' and 'Setup'. Under 'Constants', the 'Configuration' section shows 24 search matches. Under 'Setup', the 'Configuration' section shows 94 search matches. The 'Setup' section displays a list of configuration constants with their values and usage examples, such as 'absRefPrefix = auto' and 'adminPanel = 1'.

TSConfig Modul

Eigenes Modul,
Suchfunktion, klappbar

The screenshot displays the in2code CMS interface. On the left is a dark sidebar with navigation icons for Dashboard, Web, Seite, Anzeigen, Liste, Indexing, Papierkorb, Datei, Dateiliste, Seitenverwaltung, Seiten, Page TSConfig (highlighted), TypoScript, Verwaltungswerkzeuge, and Wartung. The main content area is titled 'Active page TSConfig of page "Start"'. It includes a search bar with the text 'Suchbegriff eingeben', a dropdown menu for 'Active page TSConfig', and a 'Pfad: / Start [1]' indicator. Below the title is an overview text: 'Overview of the current page TSConfig of the system. A targeted search for values and names is possible. The list of results can also be filtered according to conditions.' This is followed by another search bar and two toggle switches for 'Display comments' and 'Sort keys alphabetically'. The 'Page TSConfig' section shows a tree view under 'Configuration' with the following structure:

```

    Configuration
    ├── RTE
    ├── TCEFORM
    ├── TCEMAIN
    ├── mod
    └── tx_news
        └── module
            └── filters
                ├── archived = 1
                ├── categories = 1
                ├── categoryConjunction = 1
                ├── hidden = 1
                ├── includeSubCategories = 1
                ├── number = 1
                ├── searchWord = 1
                ├── sortingField = 1
                ├── timeRestriction = 1
                └── topNewsRestriction = 1
    
```

Symfony Expression

Aufführung in Configuration Module

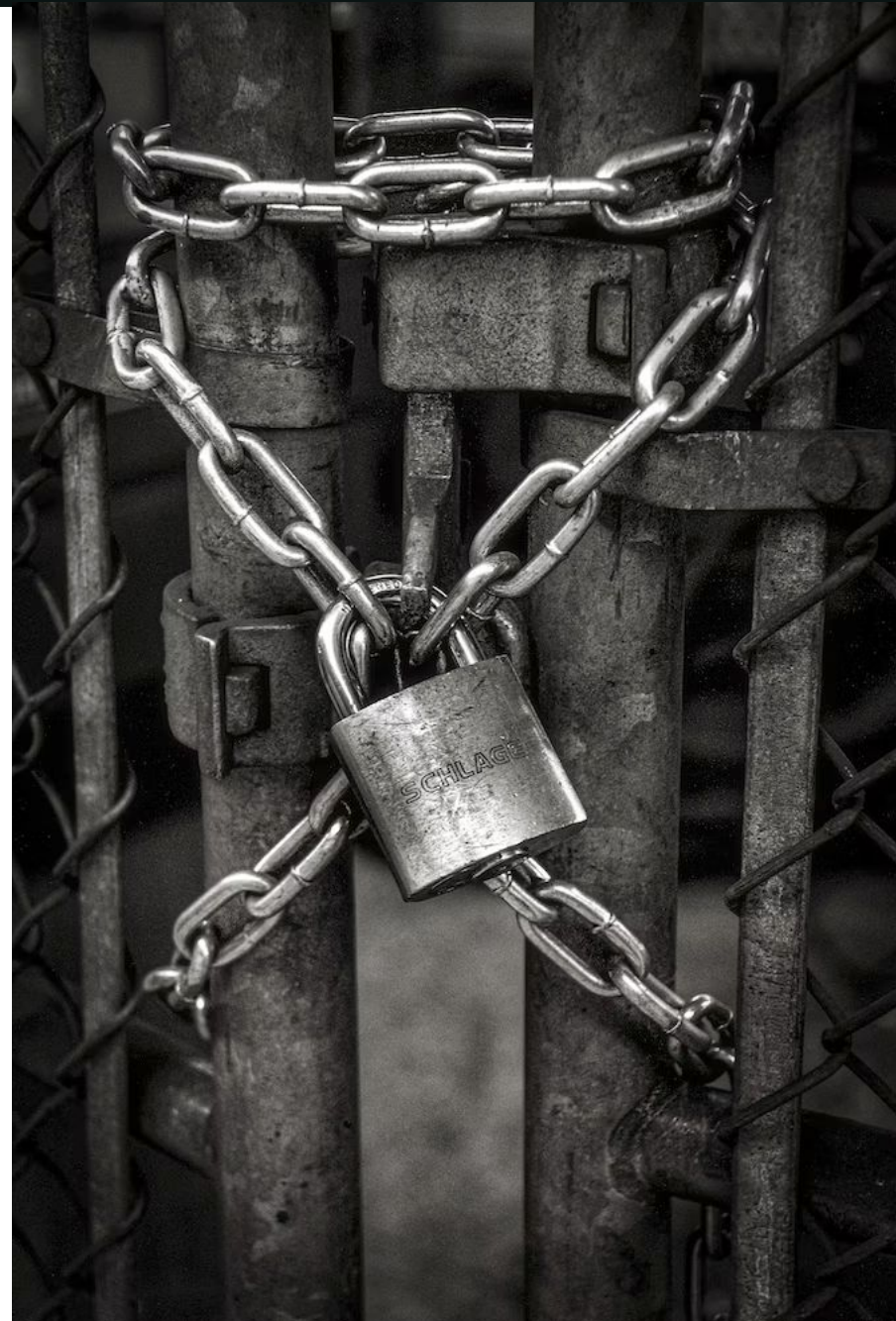
The screenshot shows the in2code IDE interface. The top bar displays the URL 'luxcore.localhost.de 12.4.0' and the user 'akellner'. The left sidebar contains a navigation menu with icons for 'Seite', 'Anzeigen', 'Liste', 'Indexing', 'Papierkorb', 'Datei', 'Dateiliste', 'Seitenverwaltung', 'Seiten', 'Page TScnfig', 'TypoScript', 'Verwaltungswerkzeuge', 'Wartung', 'Einstellungen', and 'Aktualisierung'. The main workspace shows the configuration for 'Symfony Expression Language Providers'. A search bar contains the text 'Suchbegriff eingeben'. The configuration tree is expanded to show the following structure:

- typoscript
 - TYPO3\CMS\Core\ExpressionLanguage\TypoScriptConditionProvider
 - functions
 - 0 = loginUser
 - 1 = getTSFE
 - 2 = usergroup
 - 3 = session
 - 4 = site
 - 5 = siteLanguage
 - default
 - TYPO3\CMS\Core\ExpressionLanguage\DefaultProvider
 - variables
 - 0 = applicationContext
 - 1 = typo3
 - 2 = date
 - 3 = features
 - functions

— SECURITY

CSP Backend Module

Content Security Policy (CSP)
als weitere
Sicherheitsebene, um,
bestimmte Arten von
Angriffen zu erkennen und
abzuwehren (z.B.: Cross-Site
Scripting XSS)



Content Security Policy

ALL ▾

Created	Scope	Violation	URI	
2023-04-16T11:30:28+00:00	backend	1 img-src	maps.googleapis.com	fixable
2023-04-16T11:30:28+00:00	backend	5 img-src	maps.googleapis.com	fixable
2023-04-16T11:30:28+00:00	backend	5 img-src	maps.googleapis.com	fixable
2023-04-16T11:30:28+00:00	backend	1 img-src	maps.googleapis.com	fixable
2023-04-16T11:30:28+00:00	backend	1 img-src	maps.googleapis.com	fixable
2023-04-16T11:30:28+00:00	backend	1 img-src	maps.googleapis.com	fixable
2023-04-16T11:30:28+00:00	backend	1 img-src	maps.googleapis.com	fixable
2023-04-16T11:30:28+00:00	backend	1 img-src	maps.googleapis.com	fixable
2023-04-16T11:30:28+00:00	backend	1 img-src	maps.googleapis.com	fixable
2023-04-16T11:30:28+00:00	backend	5 img-src	maps.googleapis.com	fixable
2023-04-16T11:30:28+00:00	backend	5 img-src	maps.gstatic.com	fixable
2023-04-16T11:30:28+00:00	backend	1 img-src	maps.googleapis.com	fixable
2023-04-16T11:30:28+00:00	backend	2 img-src	maps.googleapis.com	fixable
2023-04-16T11:30:28+00:00	backend	1 img-src	maps.googleapis.com	fixable

Details

Directive / Disposition

img-src / enforce

Blocked URI

https://maps.googleapis.com/maps/vt?pb=%211m5%211m4%211i4%212i10%213i9%214i256%212m3%211e0%212sm%213i642381189%212m3%211e2%216m1%213e5%213m17%212sde-DE%213sUS%215e18%2112m4%211e68%212m2%211sset%212sRoadmap%2112m3%211e37%212m1%211ssmartmaps%2112m4%211e26%212m2%211sstyles%212zcC5zOi02MHxwLmw6LTYw%214e0%2123i1379903

Document URI

https://typo3v12.ddev.site:8443/typo3/module/tools/csp/test

UUID

1465cfe5-eb99-485b-be8a-f85cb22757ac

Summary

76dc24fd685dbffe6bc1253ec7873b944aa6a364

Suggestions

Google Maps

```
extend script-src-elem: 'strict-dynamic' https: 'unsafe-eval' blob;
```

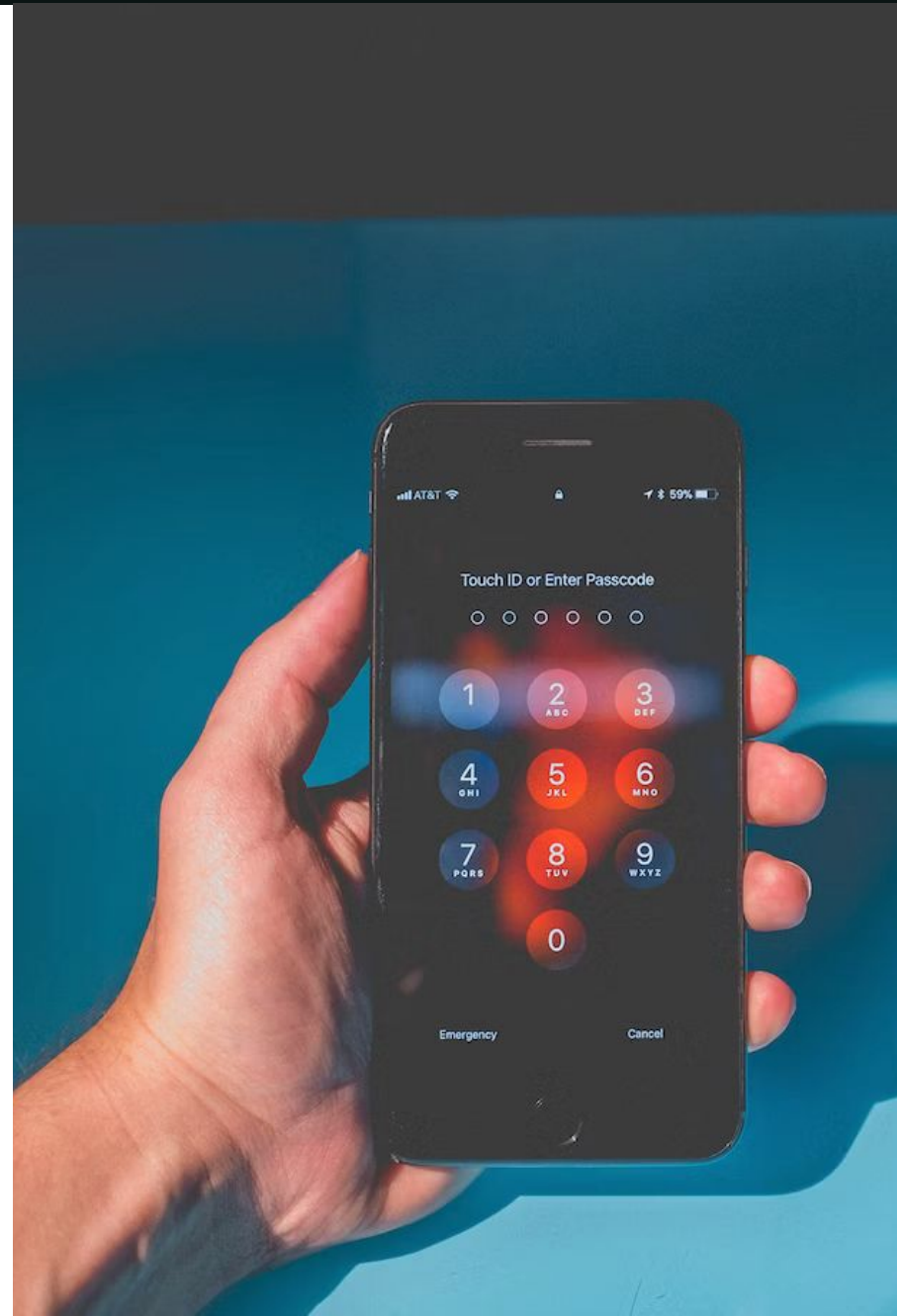
```
extend img-src: https://*.googleapis.com
```

```
https://*.gstatic.com *.google.com
```

```
*.googleusercontent.com
```

Password Policies

Mindestanforderung an
Backend und Frontend
Benutzer Passwörter



Configuration example

```
$GLOBALS['TYPO3_CONF_VARS']['SYS']['passwordPolicies'] = [  
    'simple' => [  
        'validators' => [  
            \TYPO3\CMS\Core>PasswordPolicy\Validator\CorePasswordValidator::class => [  
                'options' => [  
                    'minimumLength' => 6,  
                ],  
            ],  
        ],  
    ],  
];
```

```
$GLOBALS['TYPO3_CONF_VARS']['BE']['passwordPolicy'] = 'simple';  
$GLOBALS['TYPO3_CONF_VARS']['FE']['passwordPolicy'] = 'simple';
```

BLACKPAGE | Notfallwebsite

Ein paar Zahlen...

11 Minuten

DDos Attacke

46 Mio

Anfragen pro Sekunde

319 K

pro Tag neue
Schadprogrammvarianten

69 %

Spam als Betrug oder
Erpressung

Tathergang FH Münster 2022

- Mai bis Juli 2022 auffälliges Verhalten
- Nutzerdaten mehrerer Studierender missbraucht
- Zugang zum Intranet
- Serverhopping
- Admin-Zugangsdaten mit Passwort im Klartext gefunden
- Zugriff auf das komplette System möglich

Abschaltung der Systeme

- Incident Response Einheit vom Bundesamts für Sicherheit in der Informationstechnik (BSI) eingeschaltet
- komplette Systeme abgeschaltet
- Analyse der Logfiles und Suche nach Hintertüren
- 2 Wochen komplett offline
- 2 Monate Teilsysteme offline
- Keine Info und Kommunikation an Mitarbeitende oder Öffentlichkeit möglich

— Risikomanagement ist nicht, die Risiken komplett zu vermeiden, sondern Einschätzungen und Entscheidungen zu treffen

Schadensbegrenzung - Kommunikativ

- Bildung von Krisenstäben
- Krisenplan - **wer** kommuniziert **wann was** an **wen** und auf welchem **Weg**
- Potentiell alle Benutzerdaten ge leaked - Neue Zugangsdaten für 18.000 User
- Erst nach kompletten Reset erneute Online-Schaltung der Systeme

Wie konnte das passieren?

- E-Mail Phishing
- E-Mail und Passwort mehrfach verwendet
- gezwungene schnelle Digitalisierung durch Corona

Learnings

- Sichere Zugänge und Multi Faktor
- Netzwerksegmentierung und VPN oder alternativer Zugriffs-Schutz
- Zyklische Sicherheits-Prüfung der eigenen Systeme
- Frühzeitige Kommunikationsstrategie und Kanäle

Notfallwebsite oder sog. Blackpage

- <https://in2code.de/notfallwebsite>
- <https://demo.statusinfo.live>
- extern gehostet bzw. von der eigenen Infrastruktur getrennt
- einfach und schnell am Laufen
- abgesichert und belastbar

— ADDITIONAL

Additional improvements I

- Vernichtung gelöschter Datensätze konfigurierbar
- Sprach-Fallback (Kette) endlich auch für Seiteninhalte
- Neues TypoScript Rendering (Performance)
- Interaction Icons in Listenansicht individuell schaltbar
- Admin Panel Verbesserungen
- CKEditor Version 5 für RTE

Additional improvements II

- Austausch aller SignalSlots mit PSR-14 EventDispatcher
- Filemounts in Backend User Modul sichtbar
- Verbesserte Pagination API
- Extbase Magic Methods Umbau
- Neue ViewHelper + TypoScript Einstellungen



Vielen Dank!