# Redmine - Defect #35226
## Add SameSite=Lax to cookies to fix warnings in web browsers

2021-05-11 10:11 - Go MAEDA

| | | | |
|---|---|---|---|
| **Status:** | Closed | **Start date:** | |
| **Priority:** | Normal | **Due date:** | |
| **Assignee:** | Go MAEDA | **% Done:** | 0% |
| **Category:** | Accounts / authentication | **Estimated time:** | 0.00 hour |
| **Target version:** | 4.1.4 | | |
| **Resolution:** | Fixed | **Affected version:** | |

**Description**

Firefox 88.0.1 shows the following warning in Web Console.

> *Cookie "_redmine_session" will be soon rejected because it has the "SameSite" attribute set to "None" or an invalid value, without the "secure" attribute. To know more about the "SameSite" attribute, read https://developer.mozilla.org/docs/Web/HTTP/Headers/Set-Cookie/SameSite*

According to https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Set-Cookie/SameSite#fixing_common_warnings, we have two options to fix the warning:

1. Add Secure attribute to the cookie
2. Set SameSite attribute to the value other than "None"

However, if you set the Secure attribute, Redmine cannot be used in non-HTTPS environments such as test environments and some on-premise servers. Therefore, I think it is preferable to set the SameSite attribute to something other than "None".

samesite-none-warning.png

### Associated revisions

**Revision 21009 - 2021-05-27 10:31 - Go MAEDA**

Add SameSite=Lax to cookies to fix warnings in web browsers (#35226).

Patch by Go MAEDA.

**Revision 21037 - 2021-06-16 16:15 - Go MAEDA**

Merged r21009 from trunk to 4.2-stable (#35226).

**Revision 21038 - 2021-06-16 16:17 - Go MAEDA**

Merged r21009 from trunk to 4.1-stable (#35226).

### History

**#1 - 2021-05-11 10:35 - Go MAEDA**

The following patch fixes the issue.

The patch must be safe because Redmine's cookie is already treated as SameSite=Lax in Chrome.

Redmine does not explicitly set the SameSite attribute in the Set-Cookie field. So, it is treated as SameSite=Lax in Chrome 80 and later.
https://blog.chromium.org/2020/02/samesite-cookie-changes-in-february.html

```
diff --git a/config/application.rb b/config/application.rb
index dc8d5f89d..fc6e6a33f 100644
--- a/config/application.rb
+++ b/config/application.rb
@@ -79,7 +79,8 @@ module RedmineApp
     config.session_store(
       :cookie_store,
       :key => '_redmine_session',
-      :path => config.relative_url_root || '/'
+      :path => config.relative_url_root || '/',
+      :same_site => :lax
     )

     if File.exists?(File.join(File.dirname(__FILE__), 'additional_environment.rb'))
```

#### #2 - 2021-05-11 11:19 - Liane Hampe

I can confirm that it is working in Firefox 88.0.1 when running Redmine 4.2 in production!

#### #3 - 2021-05-12 04:12 - Go MAEDA

*- Subject changed from Warning about cookies with SameSite=none to Warning due to cookies not having SameSite attribute set*
*- Category set to Accounts / authentication*
*- Target version set to 4.1.4*

Setting the target version to 4.1.4.

#### #4 - 2021-05-13 08:35 - Go MAEDA

*- File 35226-v2.patch added*

Updated the patch. Another two cookies "autologin" and "history_last_tab" also needs to have "SameSite=Lax".

#### #5 - 2021-05-27 10:31 - Go MAEDA

*- Subject changed from Warning due to cookies not having SameSite attribute set to Add SameSite=Lax to cookies to fix warnings in web browsers*
*- Status changed from New to Resolved*
*- Assignee set to Go MAEDA*
*- Resolution set to Fixed*

Committed the patch.

#### #6 - 2021-06-16 16:17 - Go MAEDA

*- Status changed from Resolved to Closed*

**Files**

| | | | |
|---|---|---|---|
| samesite-none-warning.png | 108 KB | 2021-05-11 | Go MAEDA |
| 35226-v2.patch | 1.5 KB | 2021-05-13 | Go MAEDA |