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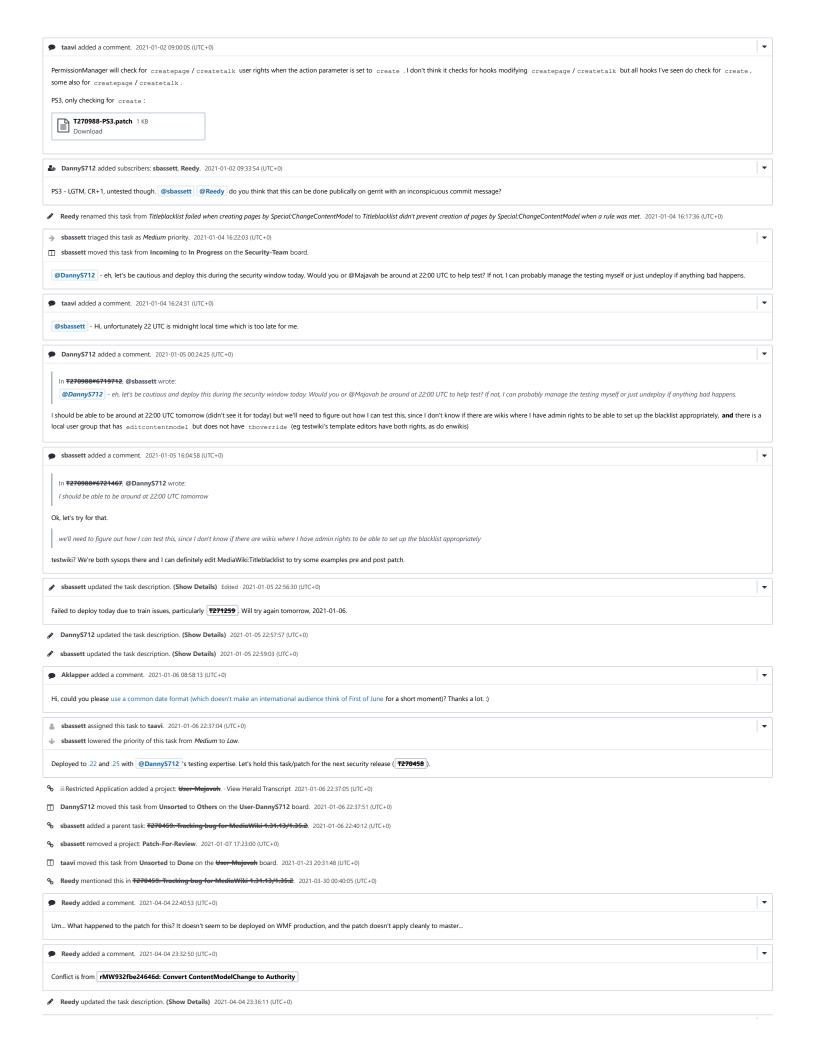


## Description If a page does not exist, and someone just created it by [[Special:ChangeContentModel]], even if it matched [[MediaWiki:Titleblacklist]], it will still be created. Eg. Add a line .\* in [[MediaWiki:Titleblacklist]], then let other user (who is not a sysop) open [[Special:ChangeContentModel]], input any title, then change the model to whatever you like, then the page is created. Steps to test: (all on testwik) 1. Revoke tboverride from template editors (https://gerit.wikimedia.org/r/654449/) 2. Add User:DannyS712/Bug.\* to title blacklist 3. Grant template editor rights to an alternate test account 4. Switch to using that alternate test account 5. Try to create User:DannyS712/Bug 1 manually, to confirm its properly blacklisted 6. Try to create it via SpecialChangeContentModel, to confirm the bug exists 7. <a href="https://cententmodelcontentModelconte

Details		
	Project	Subject
þ	mediawiki/core	SECURITY: ContentModelChange: Check that user can create pages
Customize query in gerrit		



T270459 Tracking bug for MediaWiki 1.31.13/1.35.2 ✓ Resolved taavi #270988 CVE-2021-30155: Titleblacklist didn't prevent creation of pages by Special:ChangeContentModel when a rule was met Xzonn created this task. 2021-01-01 09:37:08 (UTC+0) % taavi added projects: Security, Security-Team. atavi changed the visibility from "Public (No Login Required)" to "Custom Policy". ★ taavi changed the subtype of this task from "Task" to "Security Issue". L taavi added a subscriber: taavi protecting as a security issue just in case **DannyS712** added projects: **MediaWiki-Page-editing**, **User-DannyS712**. Edited · 2021-01-01 09:49:10 (UTC+0) ContentModelChange doesn't go through the normal edit page checks before creating the new revision, but rather uses WikiPage::doEditContent after implementing some checks. Since TitleBlacklistHooks::onUserCan and the subsequent code takes into account the action, and allows for disallowing page creation while allowing page edits, tweaking core's ContentModelChange::checkPermissions to also run checks for the createpage / createtalk action if the page doesn't already exist should allow TitleBlacklist to prevent the edit accordingly Might be okay to post the patch publically on gerrit with an inconspicuous commit message, but something like replacing line 115 of the current code (https://gerrit.wikimedia.org/g/mediawiki/core/+/8ee4aa0df786d1216b02d49c3ae36bc468ef31a2/includes/content/ContentModelChange.php#115) with: \$creationErrors = [];
if ( !\$current->exists() ) { \$creationAction = \$current->isTalkPage() ? 'createtalk' : 'createpage';
\$creationErrors = \$pm->getPermissionErrors( \$creationAction, \$user, \$current ); I was about to log off when I saw this task, and wanted to document ^^^ and will try and see if that actually works to fix the issue soon taavi added a comment. Edited · 2021-01-01 10:15:47 (UTC+0) Danny's patch works for me with TitleBlacklist, I'll add a test for that and attach a patch file here shortly. That's using createpage or createtalk, and MediaWiki-extensions-ArticleCreationWorkflow looks to be using create [0], I'll also test if that is vulnerable.  $[0] \ https://gerrit.wikimedia.org/r/plugins/gitiles/mediawiki/extensions/ArticleCreationWorkflow/+/refs/heads/master/includes/Hooks.php#31 (2013) and the state of the sta$ taavi added a comment. 2021-01-01 10:59:32 (UTC+0) PS1, which is Danny's original fix in T270988#6715865 T270988-PS1.patch 1 KB PS2, including my change to also check for <code>create</code> action which some extensions use: T270988-PS2.patch 1 KB Download I tried to add a test but failed with keeping the patch fairly small, I think that can be added after the fix publicly in Gerrit. % taavi added a project: Patch-For-Review. 2021-01-01 18:31:42 (UTC+0) DannyS712 added a comment. 2021-01-01 23:39:13 (UTC+0) In **T270988#6715890**, @Majavah wrote: PS1, which is Danny's original fix in **T270988#6715865** T270988-PS1.patch 1 KB
Download PS2, including my change to also check for create action which some extensions use: T270988-PS2.patch 1 KB
Download I tried to add a test but failed with keeping the patch fairly small, I think that can be added after the fix publicly in Gerrit. Looking through the various Constraints in EditPage::internalAttemptSave ContentModelChangeConstraint checks if the user has editcontentmodel and can use it on the title with the new content model, as well as if they can edit the page with the new content model.  $\bullet$  CreationPermissionConstraint checks if the user can  ${\tt create}$  the page EditRightConstraint checks if the user can edit the page So I don't think my original fix (or PS2) is ideal. Pretty sure it should only be checking create here, not createpage / createtalk DannyS712 added a comment. 2021-01-02 08:26:07 (UTC+0) See also T271038: Use edit constraints within ContentModelChange



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Reedy added a comment. 2021-04-04 23:45:27 (UTC+0)
  Patch as originally posted works fine on REL1_35.
  For REL1 31, just needs moving back to includes/specials/SpecialChangeContentModel.php instead, and updates to use getUserPermissionErrors
    commit 821b2250d57c2834b85ff31aeaa51df4edbf7024 (HEAD -> REL1 31)
   Author: DannyS712 <dannys712.enwiki@gmail.com>
Date: Fri Jan 1 12:40:41 2021 +0200
         SECURITY: ContentModelChange: Check that user can create pages
         Co-authored-by: Taavi Väänänen <hi@tassu.me>
         Change-Id: I2e3b79f36fa7c0a3ec4130de0ae9c68104cb3fdd
    diff --git a/includes/specials/SpecialChangeContentModel.php b/includes/specials/SpecialChangeContentModel.php index 87c899f4e0.8204dde46d 100664
--- a/includes/specials/SpecialChangeContentModel.php
+++ b/includes/specials/SpecialChangeContentModel.php
   @@ -169,8 +169,16 @@ class SpecialChangeContentModel extends FormSpecialPage {
    $titleWithNewContentModel = clone $this->title;
    $titleWithNewContentModel > setContentModel( $data['model'] );
    $user = $this->getUser();
                                                                      extends FormSpecialPage {
                        1
                        // Check permissions and make sure the user has permission to:
$errors = wfMergeErrorArrays(
    // Potentially include creation errors, if applicable
    $creationErrors,
    // edit the contentmodel of the page
    $this->title->getUserPermissionsErrors( 'editcontentmodel', $user ),
                                  // edit the page under the old content model
 Reedy added a comment. 2021-04-04 23:49:49 (UTC+0)
                                                                                                                                                                                                                                                                                   .
  New patch for master
    commit 180e0403774d535133c3b32d51ffa0fb4122df7b (HEAD -> master)
    Author: DannyS712 <dannys712.enwiki@gmail.com>
Date: Fri Jan 1 12:40:41 2021 +0200
         SECURITY: ContentModelChange: Check that user can create pages
         Co-authored-by: Taavi Väänänen <hi@tassu.me>
Change-Id: I2e3b79f36fa7c0a3ec4130de0ae9c68104cb3fdd
    \label{localization} \begin{tabular}{ll} diff --git a/includes/content/ContentModelChange.php b/includes/content/ContentModelChange.php index 16a2ee520a..258bdf4953 100644 \end{tabular}
   $status = PermissionStatus::newEmpty();
                        }
Sauthorizer( 'editcontentmodel', $current, $status );
$authorizer( 'edit', $current, $status );
$authorizer( 'editcontentmodel', $titleWithNewContentModel, $status );
 ■ Reedy added a comment. Edited · 2021-04-04 23:52:20 (UTC+0)
                                                                                                                                                                                                                                                                                   •
  Which just leaves the question as to why it was undeployed from master... I'm quessing it's because of the conflict, maybe... But that really isnt' an acceptable reason.
 Reedy added a comment. 2021-04-05 00:12:43 (UTC+0)
                                                                                                                                                                                                                                                                                   .
   04-T270998-REL1_31.patch 1 KB Download
   04-T270998-master.patch 1 KB Download
   O4-T270998-REL1_35.patch 1 KB Download

    sbassett added a comment. 2021-04-05 20:51:17 (UTC+0)

                                                                                                                                                                                                                                                                                   •
  Re-deployed master patch to wmf.37. Tracking again at T276237.
Reedy renamed this task from Titleblacklist didn't prevent creation of pages by Special:ChangeContentModel when a rule was met to CVE-2021-30155: Titleblacklist didn't prevent creation of pages by Special:ChangeContentModel when a rule was met.
      2021-04-06 19:11:53 (UTC+0)

✓ Reedy closed this task as Resolved. 2021-04-07 03:10:59 (UTC+0)

Reedy added a subscriber: gerritbot. 2021-04-08 19:11:29 (UTC+0)
 gerritbot added a comment. 2021-04-08 19:53:10 (UTC+0)
                                                                                                                                                                                                                                                                                   •
 Change 678040 had a related patch set uploaded (by Reedy; author: DannyS712):
  [mediawiki/core@REL1_35] SECURITY: ContentModelChange: Check that user can create pages
 https://gerrit.wikimedia.org/r/678040
```

9 gerritbot added a project: Patch-For-Review. 2021-04-08 19:53:13 (UTC+0)

Change 678040 merged by jenkins-bot:
[mediawiki/core@REL1\_35] SECURITY: ContentModelChange: Check that user can create pages
https://gerrit.wikimedia.org/r/678040

Reedy changed the visibility from "Custom Policy" to "Public (No Login Required)". 2021-04-08 21:07:48 (UTC+0)

Xzonn added a comment. 2021-04-13 03:25:38 (UTC+0)

There is something wrong in the patch for 1.31. Scurrent is not defined in line 174, it should be \$this->title. And getUserPermissionErrors should be getUserPermissionsErrors in line 175.

Change 678686 had a related patch set uploaded (by Reedy; author: Reedy):
[mediawiki/core@REL1\_31] Bug: T270988
https://gerrit.wikimedia.org/r/678686

- **% ReleaseTaggerBot** added a project: **MW-1.31 release notes**. 2021-04-13 05:00:27 (UTC+0)
- sbassett moved this task from In Progress to Our Part Is Done on the Security-Team board. 2021-04-13 14:46:49 (UTC+0)
- % sbassett removed a project: Patch-For-Review.
- % sbassett added a project: Vuln-Misconfiguration.