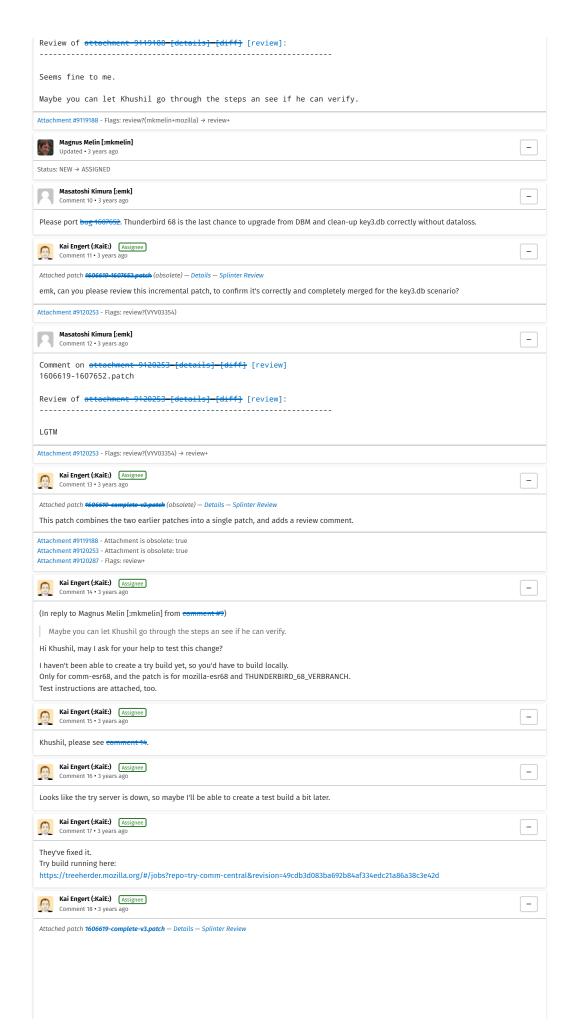
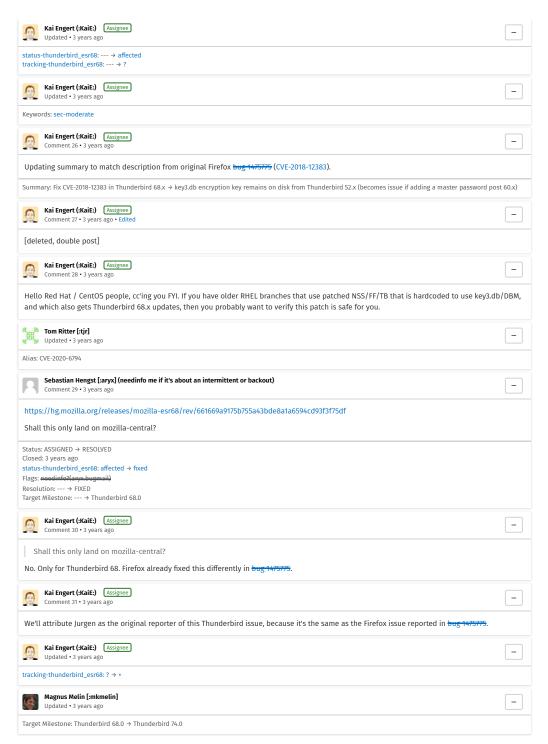
	Copy Summary ▼ View ▼
Closed Bug 1606619 (CVE-2020-6794) Opened 3 years ago Closed 3 years ago	
key3.db encryption key remains on disk from Thunderbird 52 post 60.x)	.x (becomes issue if adding a master password
▼ Categories	
Product: Thunderbird ▼ Component: Security ▼ Version: 60	Type: Optionity: Not set Severity: normal
v Tracking	
Status: RESOLVED FIXED Track Milestone: Thunderbird 74.0	ng Flags: Tracking Status thunderbird_esr68 + fixed
▶ People (Reporter: KaiE, Assigned: KaiE)	
► References	
➤ Details (Keywords: sec-moderate)	
Attachments testing-bug-1606619.txt 3 years ago Kai Engert (skait:) 2.51 KB, text/plain	Details
1606619-complete-v3.patch 3 years ago Kai Engert (:KaiE:) 5.54 KB, patch	Details Diff Splinter Review
Show Obsolete	
	Bottom ↓ Tags ▼ Timeline ▼
Kai Engert (:KaiE:) (Assignee) Description - 3 years ago	-
We haven't yet fixed bug 1475775 in Thunderbird.	
Because of the risk of key dataloss (e.g. bug 1510212), we're waiting for a solution	that is more reliable than what Firefox had used as a fix.
Let's use this new bug to track fixing the issue in Thunderbird.	
In separate NSS bug 1561360 we're working out an appropriate solution, potential	y at the NSS code level.
Kai Engert (:KaiE:)	-
See Also: → 1561366	
Kai Engert (:KaiE:) Updated • 3 years ago	-
See Also: → 1510212	
Kai Engert (:KaiE:) Assignee Comment 1 - 3 years ago	-
Attached file testing-bug-1606619.txt — Details	
Assignee: nobody → kaie	
Kai Engert (:KaiE:) Assignee Updated • 3 years ago	_
Summary: Fix CVE-2018-12383 in Thunderbird → Fix CVE-2018-12383 in Thunderbird 68.x	
Kai Engert (:KaiE:) Assignee Comment 2 · 3 years ago	-
Attached patch 1606619-v1.patch (intended for the forh of the Mozilla repository used by Thursd	orbird 68.x) (obsolete) — Details — Splinter Review
Kai Engert (:KaiE:) Assignee Comment 3 · 3 years ago	-
The attached patch applies to TB 68.x, only.	
The patch doesn't make sense for any later Thunderbird versions, because:	
 we didn't take bug 4561366 for comm-central, which means, thunderbird vers mozilla branch 73+ has disabled support for key3.db (dbm file format) completo perform a migration from key3.db to key4.db 	
If my patch is wrong, it will cause dataloss for those users who will upgrade from	thunderbird 52.x to a thunderbird 68.x having this fix.

However, with the testing steps listed in the attached text file, which I have executed locally, I try to show that the patch will delete key3.db only after the migration was successful. Kai Engert (:KaiE:) Assignee -Attachment #9119188 - Attachment description: 1606619-v1.patch → 1606619-v1.patch (intended for the fork of the Mozilla repository used by Thunderbird 68.x) Masatoshi Kimura [:emk] Comment on attachment 9119188-[details]-[diff] [review] 1606619-v1.patch (intended for the fork of the Mozilla repository used by Thunderbird 68.x) -[details]-[diff] [review]: ::: security/manager/ssl/SecretDecoderRing.cpp @@ +200,5 @@ > + nsCOMPtr<nsIFile> file = do_CreateInstance("@mozilla.org/file/local;1"); > + if (!file) { > + return NS_ERROR_FAILURE; > + nsresult rv = file->InitWithNativePath(path); See bug 1607652. Kai Engert (:KaiE:) Assignee Kai Engert (:KaiE:)
Updated • 3 years ago _ See Also: → 1607652 Kai Engert (:KaiE:) Assignee _ Comment 5 • 3 years a Bob, thanks again for your very helpful comments in bug 1561368. Bob, can I assume, if we aren't merging, slot = PK11 GetInternalKeySlot() bool done = !PK11_IsReadOnly(slot) && PK11_IsLoggedIn(slot, NULL); and done is true, that the migration from key3.db to key4.db has already completed? FYI, the attached patch implements the following strategy: · don't remove key3.db by default (as Firefox does it) • wait until we've successfully decrypted a string stored in the secret decoder. If that works, either no master password is configured, or the master password was correctly provided by the user. · at this time, do a once-per-application-session check for the potential cleanup • double-check that our internal token is really logged in (we assume this means the data was migrated), and that we aren't in read-only mode (this ensures that a migration to kev4.db was allowed to be written to disk) confirm that key4.db exists on disk. If it doesn't exist, stop. · check whether key3.db exists on disk. If it exists, delete it. Flags: needinfo?(rrelyea) Robert Relyea
Comment 6 • 3 years ago -That should work. The only possible issue is if the update failed after the login in a way that it will try to update again. I don't see a good way of detecting this case. Flags: needinfo?(rrelvea) Kai Engert (:KaiE:) Assignee
Comment 7 • 3 years ago _ ils]=[diff] [review] 1606619-v1.patch (intended for the fork of the Mozilla repository used by Thunderbird 68.x) Magnus, given Bob approved the strategy, are you OK to take this fix for stable Thunderbird 68.x (only)? Any suggestion who might want to double-check my fix, by potentially playing with the separate test instructions I've attached? Attachment #9119188 - Flags: review?(mkmelin+mozilla) Kai Engert (:KaiE:) Assignee
Comment 8 • 3 years ago _ nt 4, I'd merge that fix into this patch once that one is reviewed Magnus Melin [:mkmelin] -Comment 9 • 3 years ago Comment on attachment 9119188-[details]-[diff] [review] 1606619 - v1.patch (intended for the fork of the Mozilla repository used by Thunderbird 68.x)



(In reply to Kai Engert (:KaiE:) from comment #17)	
Try build running here: https://treeherder.mozilla.org/#/jobs?repo=try-comm-central&revision=49cdb3d083ba692b84af334edc21a86a38c3e42d	
The above has builds for Linux and Mac.	
Windows build had failed because of a missing include. This updated patch fixes it. Successful try build for Windows is here: https://treeherder.mozilla.org/#/jobs?repo=try-comm-central&revision=0264197e4bd32135e3eb454df21e70ccbe39a01d	
Attachment #9120287 - Attachment is obsolete: true	
Kai Engert (:KaiE:) Comment 19 • 3 years ago	_
Comment on attachment 9120340 [details] [diff] [review] 1606619-complete-v3.patch	
ESR Uplift Approval Request	
• If this is not a sec:{high,crit} bug, please state case for ESR consideration: ESR 68.x is the last chance to fix this CVE for Thundon	erbird. We'll be
unable to cleanup key3.db in TB 78, because TB 78 will no longer be able to perform a data migration. • User impact if declined: Users having upgraded from TB 52.x will still be exposed to the security issue, because unprotected k	ey3.db will remai
on disk.	
 Fix Landed on Version: n/a Risk to taking this patch: Medium 	
• Why is the change risky/not risky? (and alternatives if risky): There's a small potential risk for dataloss (of saved passwords a for people who'll upgrade directly from TB 52.x to TB 68.x with this fix. Bob Relyea stated that in theory, the logic we use to co "migration to key4.db has completed" might produce a false positive in an edge case scenario, but he isn't aware of a way to t	nclude that
case.	
Not at risk are people who have already used TB 60.x or previous TB 68.x for a while, and have already entered their master p. times. Those should certainly have been migrated successfully already.	assword several
String or UUID changes made by this patch: none	
Attachment #9120340 - Flags: approval-mozilla-esr68?	
Jorg K (CEST = GMT+2) Gomment 20 - 3 years ago	-
Umm, is this a request for mozilla-esr68 trunk or THUNDERBIRD_68_VERBRANCH? For the latter, we don't ask for approval, we just	land it there ;-)
Kai Engert (:KaiE:) Comment 21 • 3 years ago	_
Comment on attachment 9120340 [details] [diff] [review]	
1606619-complete-v3.patch	
Jörg, those comments were intended for you, to clarify and document the risks.	
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You need to log in before you can comment on or make changes to this bug.