☆ Sta	rred by	y 5	users
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(dhoss@chromium.org Last visit 17 days ago

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Verified (Closed)

Internals>Plugins>PDF>Accessibility

Oct 5, 2022

Linux

Bug-Security

Status:

Owner:

CC:

Components:

Modified:

Backlog-Rank:

Editors:

EstimatedDays:

NextAction:

OS:

Pri:

Type:

Hotlist-Merge-Review reward-5000 Arch-x86_64 Security_Severity-High allpublic

reward-inprocess

Via-Wizard-Security

CVE_description-submitted

Target-97

external_security_report

M-96

FoundIn-96

Security_Impact-Extended merge-merged-4692

merge-merged-97

Release-0-M97

CVE-2022-0105

Team-Accessibility

Issue 1274376: uaf in chrome_pdf::PdfViewPluginBase::LoadAccessibility

Reported by emily...@gmail.com on Sun, Nov 28, 2021, 12:32 PM EST



UserAgent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/95.0.4638.69 Safari/537.36

Steps to reproduce the problem:

Ubunt 20.04

Chrome version

Version Chromium 98.0.4710.4 (Developer Build) (64-bit) with asan build

Chromium 98.0.4733.0 (Developer Build) (64-bit) gs://chromium-browser-asan/linux-release/asan-linux-release-945734.zip

- 1 ./chrome -force-renderer-accessibility --user-data-dir=/tmp/xx http://localhost:8000/crash.html
- 2 The print dialog box and the "pop-up-blocked" prompt box will pop up.
- 3.Click "alwayse allow pop--up" and then click refresh again.

The repro is not very stable in the local test, and it can be reproduced about once every 10 times.

During the test, there will be many CHECK crashes of the browser process, and just restart the browser again.

What is the expected behavior?

```
What went wrong?
```

==1==ERROR: AddressSanitizer: heap-use-after-free on address 0x61a00000a898 at pc 0x560c9a3525d1 bp 0x7fff894f91b0 sp 0x7fff894f91a8

READ of size 8 at 0x61a00000a898 thread T0 (chrome)

#0 0x560c9a3525d0 in chrome_pdf::PdfViewPluginBase::LoadAccessibility()

./../../buildtools/third party/libc++/trunk/include/ memory/unique ptr.h:284

#1 0x560c9a3525d0 in LoadAccessibility ./../../pdf/pdf_view_plugin_base.cc:1635

#2 0x560c9a3525d0 in ?? ??:0

#3 0x560c9a3564a2 in chrome_pdf::PdfViewPluginBase::DocumentLoadComplete()

./../pdf/pdf view plugin base.cc:436

#4 0x560c9a3564a2 in ?? ??:0

#5 0x560c9a370fe2 in chrome_pdf::PDFiumEngine::FinishLoadingDocument(int) ./../../pdf/pdfium/pdfium_engine.cc:898 #6 0x560c9a370fe2 in ?? ??:0

#7 0x560c9a397b7d in chrome pdf::PDFiumEngine::ContinueLoadingDocument(std:: 1::basic string<char,

std::__1::char_traits<char>, std::__1::allocator<char> > const&) ./../../pdf/pdfium/pdfium_engine.cc:2795

#8 0x560c9a397b7d in ?? ??:0

#9 0x560c9a375ca1 in chrome_pdf::PDFiumEngine::LoadDocument() ./.././pdf/pdfium/pdfium_engine.cc:2718

#10 0x560c9a375ca1 in ?? ??:0

#11 0x560c9a33ff51 in chrome pdf::DocumentLoaderImpl::DidRead(int) document loader impl.cc:?

#12 0x560c9a33ff51 in ?? ??:0

#13 0x560c9a340d75 in base::internal::Invoker<base::internal::BindState<void (chrome_pdf::DocumentLoaderImpl::*)(int),

base::WeakPtr<chrome_pdf::DocumentLoaderImpl> >, void (int)>::RunOnce(base::internal::BindStateBase*, int)

./../../base/bind internal.h:533

#14 0x560c9a340d75 in MakeItSo<void (chrome_pdf::DocumentLoaderImpl::*)(int),

base::WeakPtr<chrome pdf::DocumentLoaderImpl>, int> ./../.base/bind internal.h:728

#15 0x560c9a340d75 in RunImpl<void (chrome pdf::DocumentLoaderImpl::*)(int),

std:: 1::tuple<base::WeakPtr<chrome pdf::DocumentLoaderImpl> >, 0UL> ./../.base/bind internal.h:781

#46 0vE6000024047E in DunOnco / / /bood/bind internal b.7E0

```
#To UX50UC9a34Ud75 In KunOnce ./../../pase/bind Internal.n:/5U
  #17 0x560c9a340d75 in ?? ??:0
  #18 0x560c9a3e74a5 in chrome pdf::URLLoaderWrapperImpl::DidRead(base::OnceCallback<void (int)>, int)
./../base/callback.h:142
  #19 0x560c9a3e74a5 in DidRead ./../../pdf/url loader wrapper impl.cc:248
  #20 0x560c9a3e74a5 in ?? ??:0
  #21 0x560c9a3f07e6 in base::internal::Invoker<base::internal::BindState<void (chrome pdf::URLLoaderWrapperImpl::*)
(base::OnceCallback<void (int)>, int), base::WeakPtr<chrome pdf::URLLoaderWrapperImpl>, base::OnceCallback<void
(int)>>, void (int)>::RunOnce(base::internal::BindStateBase*, int)./../base/bind_internal.h:533
  #22 0x560c9a3f07e6 in MakeltSo<void (chrome pdf::URLLoaderWrapperImpl::*)(base::OnceCallback<void (int)>, int),
base::WeakPtr<chrome pdf::URLLoaderWrapperImpl>, base::OnceCallback<void (int)>, int> ./../../base/bind internal.h:728
  #23 0x560c9a3f07e6 in RunImpl<void (chrome pdf::URLLoaderWrapperImpl::*)(base::OnceCallback<void (int)>, int),
std:: 1::tuple<base::WeakPtr<chrome pdf::URLLoaderWrapperImpl>, base::OnceCallback<void (int)> >, 0UL, 1UL>
./../../base/bind internal.h:781
  #24 0x560c9a3f07e6 in RunOnce ./../../base/bind internal.h:750
  #25 0x560c9a3f07e6 in ?? ??:0
  #26 0x560c9a3fb494 in chrome pdf::BlinkUrlLoader::RunReadCallback() ./../../base/callback.h:142
  #27 0x560c9a3fb494 in RunReadCallback ./../../pdf/ppapi migration/url loader.cc:318
  #28 0x560c9a3fb494 in ?? ??:0
  #29 0x560c9a3fae8b in chrome pdf::BlinkUrlLoader::ReadResponseBody(base::span<char, 18446744073709551615ul>,
base::OnceCallback<void (int)>) ./../../pdf/ppapi migration/url loader.cc:179
  #30 0x560c9a3fae8b in ?? ??:0
  #31 0x560c9a3e7130 in chrome pdf::URLLoaderWrapperImpl::ReadResponseBodyImpl(base::OnceCallback<void (int)>)
./../pdf/url loader wrapper impl.cc:176
  #32 0x560c9a3e7130 in ?? ??:0
  #33 0x560c9a3f0aaa in base::internal::Invoker<base::internal::BindState<void (chrome pdf::URLLoaderWrapperImpl::*)
(base::OnceCallback<void (int)>), base::internal::UnretainedWrapper<chrome pdf::URLLoaderWrapperImpl>,
base::OnceCallback<void (int)>>, void ()>::RunOnce(base::internal::BindStateBase*) ./../../base/bind internal.h:533
  #34 0x560c9a3f0aaa in MakeltSo<void (chrome pdf::URLLoaderWrapperImpl::*)(base::OnceCallback<void (int)>),
chrome pdf::URLLoaderWrapperImpl *, base::OnceCallback<void (int)> > ./../..base/bind internal.h:708
  #35 0x560c9a3f0aaa in RunImpl<void (chrome_pdf::URLLoaderWrapperImpl::*)(base::OnceCallback<void (int)>),
std:: 1::tuple<base::internal::UnretainedWrapper<chrome pdf::URLLoaderWrapperImpl>, base::OnceCallback<void (int)>
>, 0UL, 1UL> ./../base/bind internal.h:781
  #36 0x560c9a3f0aaa in RunOnce ./../../base/bind internal.h:750
  #37 0x560c9a3f0aaa in ?? ??:0
  #38 0x560c9c6239b0 in base::OneShotTimer::RunUserTask() ./.././base/callback.h:142
  #39 0x560c9c6239b0 in RunUserTask ./../../base/timer/timer.cc:290
  #40 0x560c9c6239b0 in ?? ??:0
  #41 0x560c9c5c9132 in base::DefaultDelayedTaskHandleDelegate::RunTask(base::OnceCallback<void ()>)
  #42 0x560c9c5c9132 in RunTask ./../../base/task/default_delayed_task_handle_delegate.cc:36
  #43 0x560c9c5c9132 in ?? ??:0
  #44 0x560c9c5c942f in base::internal::Invoker<base::internal::BindState<void
(base::DefaultDelayedTaskHandleDelegate::*)(base::OnceCallback<void ()>),
base::WeakPtr<base::DefaultDelayedTaskHandleDelegate>, base::OnceCallback<void ()>>, void
()>::RunOnce(base::internal::BindStateBase*) ./../../base/bind internal.h:533
  #45 0x560c9c5c942f in MakeItSo<void (base::DefaultDelayedTaskHandleDelegate::*)(base::OnceCallback<void ()>),
base::WeakPtr<base::DefaultDelayedTaskHandleDelegate>, base::OnceCallback<void ()> > ./.././base/bind_internal.h:728
  #46 0x560c9c5c942f in RunImpl<void (base::DefaultDelayedTaskHandleDelegate::*)(base::OnceCallback<void ()>),
std::__1::tuple<base::WeakPtr<base::DefaultDelayedTaskHandleDelegate>, base::OnceCallback<void ()> >, 0UL, 1UL>
./../../base/bind internal.h:781
  #47 0x560c9c5c942f in RunOnce ./../../base/bind internal.h:750
  #48 0x560c9c5c942f in ?? ??:0
```

```
#49 UX56UC9C562/e3 In pase:: IaskAnnotator:::kun IaskImpi(pase:::Pending Iask&) ./.././pase/caliback.n:142
  #50 0x560c9c5827e3 in RunTaskImpl ./../../base/task/common/task annotator.cc:135
  #51 0x560c9c5827e3 in ?? ??:0
  #52 0x560c9c5bcf23 in
base::sequence manager::internal::ThreadControllerWithMessagePumpImpI::DoWorkImpI(base::sequence manager::Lazy
Now*) ./../../base/task/common/task annotator.h:73
  #53 0x560c9c5bcf23 in DoWorkImpl
./../.base/task/sequence manager/thread controller with message pump impl.cc:356
  #54 0x560c9c5bcf23 in ?? ??:0
  #55 0x560c9c5bc737 in base::sequence manager::internal::ThreadControllerWithMessagePumpImpl::DoWork()
./../.base/task/sequence manager/thread controller with message pump impl.cc:261
  #56 0x560c9c5bc737 in ?? ??:0
  #57 0x560c9c5bdaf1 in non-virtual thunk to
base::sequence manager::internal::ThreadControllerWithMessagePumpImpl::DoWork()
./../base/task/sequence manager/thread controller with message pump impl.cc:?
  #58 0x560c9c5bdaf1 in ?? ??:0
  #59 0x560c9c47782f in base::MessagePumpDefault::Run(base::MessagePump::Delegate*)
./../.base/message loop/message pump default.cc:38
  #60 0x560c9c47782f in ?? ??:0
  #61 0x560c9c5be1bb in base::sequence_manager::internal::ThreadControllerWithMessagePumpImpl::Run(bool,
base::TimeDelta) ./.././base/task/sequence manager/thread controller with message pump impl.cc:468
  #62 0x560c9c5be1bb in ?? ??:0
  #63 0x560c9c4fabc9 in base::RunLoop::Run(base::Location const&) ./../.base/run loop.cc:140
  #64 0x560c9c4fabc9 in ?? ??:0
  #65 0x560cb080e11d in content::RendererMain(content::MainFunctionParams)
./../../content/renderer/renderer main.cc:267
  #66 0x560cb080e11d in ?? ??:0
  #67 0x560c9b34f110 in content::RunZygote(content::ContentMainDelegate*)
./../.content/app/content main runner impl.cc:615
  #68 0x560c9b34f110 in ?? ??:0
  #69 0x560c9b351c6e in content::RunOtherNamedProcessTypeMain(std::__1::basic_string<char,
std:: 1::char traits<char>, std:: 1::allocator<char> > const&, content::MainFunctionParams,
content::ContentMainDelegate*) ./../.content/app/content main runner impl.cc:687
  #70 0x560c9b351c6e in ?? ??:0
  #71 0x560c9b353af7 in content::ContentMainRunnerImpl::Run() ./../.content/app/content main runner impl.cc:1028
  #72 0x560c9b353af7 in ?? ??:0
  #73 0x560c9b34c63c in content::RunContentProcess(content::ContentMainParams, content::ContentMainRunner*)
./../content/app/content main.cc:398
  #74 0x560c9b34c63c in ?? ??:0
  #75 0x560c9b34e264 in content::ContentMain(content::ContentMainParams) ./../.content/app/content main.cc:426
  #76 0x560c9b34e264 in ?? ??:0
  #77 0x560c8e35c9de in ChromeMain ./../../chrome/app/chrome_main.cc:172
  #78 0x560c8e35c9de in ?? ??:0
  #79 0x7fc1c0f210b2 in __libc_start_main ??:?
  #80 0x7fc1c0f210b2 in ?? ??:0
0x61a00000a898 is located 24 bytes inside of 1272-byte region [0x61a00000a880,0x61a00000ad78)
freed by thread T0 (chrome) here:
  #0 0x560c8e35a99d in operator delete(void*) /b/s/w/ir/cache/builder/src/third party/llvm/compiler-
rt/lib/asan/asan new delete.cpp:152
  #1 0x560c8e35a99d in ?? ??:0
  #2 0x560caccd4009 in blink::WebPluginContainerImpl::Dispose()
./../third party/blink/renderer/core/exported/web plugin container impl.cc:796
  40 0vE60-----44000 in 00 00.0
```

```
#3 UX5bUCaccq4UU9 In <! !!U
  #4 0x560ca9c4afc6 in blink::HTMLFrameOwnerElement::PluginDisposeSuspendScope::PerformDeferredPluginDispose()
./../../third party/blink/renderer/core/html/html frame owner element.cc:265
  #5 0x560ca9c4afc6 in ?? ??:0
  #6 0x560ca9c9dd8e in blink::HTMLPlugInElement::AttachLayoutTree(blink::Node::AttachContext&)
./../.third party/blink/renderer/core/html/html frame owner element.h:88
  #7 0x560ca9c9dd8e in AttachLayoutTree ./../../third party/blink/renderer/core/html/html plugin element.cc:208
  #8 0x560ca9c9dd8e in ?? ??:0
  #9 0x560ca8a6fa46 in blink::ContainerNode::AttachLayoutTree(blink::Node::AttachContext&)
./../.third party/blink/renderer/core/dom/container node.cc:1054
  #10 0x560ca8a6fa46 in ?? ??:0
  #11 0x560ca8a04bdd in blink::Element::AttachLayoutTree(blink::Node::AttachContext&)
./../.hird party/blink/renderer/core/dom/element.cc:2761
  #12 0x560ca8a04bdd in ?? ??:0
  #13 0x560ca8a6fa46 in blink::ContainerNode::AttachLayoutTree(blink::Node::AttachContext&)
./../.third party/blink/renderer/core/dom/container node.cc:1054
  #14 0x560ca8a6fa46 in ?? ??:0
  #15 0x560ca8a04bdd in blink::Element::AttachLayoutTree(blink::Node::AttachContext&)
./../.hird party/blink/renderer/core/dom/element.cc:2761
  #16 0x560ca8a04bdd in ?? ??:0
  #17 0x560ca89a95da in blink::Node::ReattachLayoutTree(blink::Node::AttachContext&)
./../third party/blink/renderer/core/dom/node.cc:1546
  #18 0x560ca89a95da in ?? ??:0
  #19 0x560ca8a13e59 in blink::Element::RebuildLayoutTree(blink::WhitespaceAttacher&)
./../third party/blink/renderer/core/dom/element.cc:3393
  #20 0x560ca8a13e59 in ?? ??:0
  #21 0x560ca8ac120f in blink::StyleEngine::RebuildLayoutTree()
./.././third party/blink/renderer/core/css/style engine.cc:2360
  #22 0x560ca8ac120f in ?? ??:0
  #23 0x560ca8ac2a9f in blink::StyleEngine::UpdateStyleAndLayoutTree()
./../.hird_party/blink/renderer/core/css/style_engine.cc:2406
  #24 0x560ca8ac2a9f in ?? ??:0
  #25 0x560ca884c877 in blink::Document::UpdateStyle() ./.././third_party/blink/renderer/core/dom/document.cc:2185
  #26 0x560ca884c877 in ?? ??:0
  #27 0x560ca884b04f in blink::Document::UpdateStyleAndLayoutTreeForThisDocument()
./../.hird party/blink/renderer/core/dom/document.cc:2134
  #28 0x560ca884b04f in ?? ??:0
  #29 0x560ca909cac8 in blink::LocalFrameView::UpdateStyleAndLayoutInternal()
./../.third party/blink/renderer/core/frame/local frame view.cc:3376
  #30 0x560ca909cac8 in ?? ??:0
  #31 0x560ca9082a65 in blink::LocalFrameView::UpdateStyleAndLayout()
./../.third_party/blink/renderer/core/frame/local_frame_view.cc:3330
  #32 0x560ca9082a65 in ?? ??:0
  #33 0x560ca9091868 in blink::LocalFrameView::UpdateStyleAndLayoutIfNeededRecursive()
./../.third party/blink/renderer/core/frame/local frame view.cc:3250
  #34 0x560ca9091868 in ?? ??:0
  #35 0x560ca908dc3c in
blink::LocalFrameView::RunStyleAndLayoutLifecyclePhases(blink::DocumentLifecycle::LifecycleState)
./../.third party/blink/renderer/core/frame/local frame view.cc:2604
  #36 0x560ca908dc3c in ?? ??:0
  #37 0x560ca908c99b in blink::LocalFrameView::UpdateLifecyclePhasesInternal(blink::DocumentLifecycle::LifecycleState)
./../.third party/blink/renderer/core/frame/local frame view.cc:2425
  #38 0x560ca908c99b in ?? ??:0
```

```
#39 UX50UC39U63 ITC IN DIINK::LocalFrameView::UpdateLitecyclePnases(DIINK::DocumentLitecycle::Litecycle5tate,
blink::DocumentUpdateReason) ./../.third party/blink/renderer/core/frame/local frame view.cc:2366
  #40 0x560ca908a1fc in ?? ??:0
  #41 0x560cacd5e343 in blink::WebAXObject::MaybeUpdateLayoutAndCheckValidity(blink::WebDocument const&)
./../third party/blink/renderer/modules/exported/web ax object.cc:1398
  #42 0x560cacd5e343 in ?? ??:0
  #43 0x560cacd68df7 in blink::WebAXObject::FromWebDocument(blink::WebDocument const&)
./../.third party/blink/renderer/modules/exported/web ax object.cc:1344
  #44 0x560cacd68df7 in ?? ??:0
  #45 0x560cad31bc28 in content::BlinkAXTreeSource::ComputeRoot() const
./../.content/renderer/accessibility/blink ax tree source.cc:614
  #46 0x560cad31bc28 in ?? ??:0
  #47 0x560cad31fa15 in content::BlinkAXTreeSource::GetRoot() const
./../../content/renderer/accessibility/blink ax tree source.cc:383
  #48 0x560cad31fa15 in ?? ??:0
  #49 0x560cad305340 in content::RenderAccessibilityImpl::GenerateAXID()
./../.content/renderer/accessibility/render accessibility impl.cc:728
  #50 0x560cad305340 in ?? ??:0
  #51 0x560cb0aebec7 in pdf::PdfAccessibilityTree::GetRenderAccessibilityIfEnabled()
./../../components/pdf/renderer/pdf accessibility tree.cc:1515
  #52 0x560cb0aebec7 in ?? ??:0
  #53 0x560cb0aec30d in pdf::PdfAccessibilityTree::SetAccessibilityDocInfo(chrome pdf::AccessibilityDocInfo const&)
./../../components/pdf/renderer/pdf accessibility tree.cc:1323
  #54 0x560cb0aec30d in ?? ??:0
  #55 0x560c9a351f85 in chrome pdf::PdfViewPluginBase::LoadAccessibility() ./.././pdf/pdf view plugin base.cc:1632
  #56 0x560c9a351f85 in ?? ??:0
  #57 0x560c9a3564a2 in chrome_pdf::PdfViewPluginBase::DocumentLoadComplete()
./../pdf/pdf view plugin base.cc:436
  #58 0x560c9a3564a2 in ?? ??:0
  #59 0x560c9a370fe2 in chrome pdf::PDFiumEngine::FinishLoadingDocument(int) ./../.pdf/pdfium/pdfium engine.cc:898
  #60 0x560c9a370fe2 in ?? ??:0
previously allocated by thread T0 (chrome) here:
  #0 0x560c8e35a13d in operator new(unsigned long) /b/s/w/ir/cache/builder/src/third party/llvm/compiler-
rt/lib/asan/asan new delete.cpp:95
  #1 0x560c8e35a13d in ?? ??:0
  #2 0x560cb0ad41bd in pdf::CreateInternalPlugin(content::WebPluginInfo const&, blink::WebPluginParams,
content::RenderFrame*, std:: 1::unique ptr<pdf::PdfInternalPluginDelegate,
std:: 1::default delete<pdf::PdfInternalPluginDelegate> >)
./../../components/pdf/renderer/internal plugin renderer helpers.cc:70
  #3 0x560cb0ad41bd in ?? ??:0
  #4 0x560cad0d96b2 in ChromeContentRendererClient::CreatePlugin(content::RenderFrame*, blink::WebPluginParams
const&, chrome::mojom::PluginInfo const&) ./.././chrome/renderer/chrome content renderer client.cc:1084
  #5 0x560cad0d96b2 in ?? ??:0
  #6 0x560cad0d62f7 in ChromeContentRendererClient::OverrideCreatePlugin(content::RenderFrame*,
blink::WebPluginParams const&, blink::WebPlugin**) ./../chrome/renderer/chrome_content_renderer_client.cc:837
  #7 0x560cad0d62f7 in ?? ??:0
  #8 0x560cad29a1e2 in content::RenderFrameImpl::CreatePlugin(blink::WebPluginParams const&)
./../content/renderer/render_frame_impl.cc:3335
  #9 0x560cad29a1e2 in ?? ??:0
  #10 0x560ca99682b9 in blink::LocalFrameClientImpl::CreatePlugin(blink::HTMLPlugInElement&, blink::KURL const&,
WTF::Vector<WTF::String, 0u, WTF::PartitionAllocator> const&, WTF::Vector<WTF::String, 0u, WTF::PartitionAllocator>
```

const&, WTF::String const&, bool) ./../.third party/blink/renderer/core/frame/local frame client impl.cc:891

#44 0vEc0--00c00h0 in 00 00.0

```
#11 UX56UC39968ZB9 IN !!!!U
  #12 0x560ca9ca3ed8 in blink::HTMLPlugInElement::LoadPlugin(blink::KURL const&, WTF::String const&,
blink::PluginParameters const&, bool) ./../.third party/blink/renderer/core/html/html plugin element.cc:678
  #13 0x560ca9ca3ed8 in ?? ??:0
  #14 0x560ca9ca2514 in blink::HTMLPlugInElement::RequestObject(blink::PluginParameters const&)
./../third party/blink/renderer/core/html/html plugin element.cc:648
  #15 0x560ca9ca2514 in ?? ??:0
  #16 0x560ca9c442ad in blink::HTMLEmbedElement::UpdatePluginInternal()
./../.third party/blink/renderer/core/html/html embed element.cc:178
  #17 0x560ca9c442ad in ?? ??:0
  #18 0x560ca9c9efdd in blink::HTMLPlugInElement::UpdatePlugin()
./../.third party/blink/renderer/core/html/html plugin element.cc:262
  #19 0x560ca9c9efdd in ?? ??:0
  #20 0x560ca9087283 in blink::LocalFrameView::UpdatePlugins()
./../.third party/blink/renderer/core/frame/local frame view.cc:1866
  #21 0x560ca9087283 in ?? ??:0
  #22 0x560ca908759c in blink::LocalFrameView::FlushAnyPendingPostLayoutTasks()
./../.third party/blink/renderer/core/frame/local frame view.cc:1881
  #23 0x560ca908759c in FlushAnyPendingPostLayoutTasks
./../.third party/blink/renderer/core/frame/local frame view.cc:1890
  #24 0x560ca908759c in ?? ??:0
  #25 0x560ca9ca1141 in blink::HTMLPlugInElement::LayoutEmbeddedContentForJSBindings() const
./../.third party/blink/renderer/core/html/html plugin element.cc:488
  #26 0x560ca9ca1141 in ?? ??:0
  #27 0x560ca9ca05c3 in blink::HTMLPlugInElement::PluginWrapper()
./../.third party/blink/renderer/core/html/html plugin element.cc:412
  #28 0x560ca9ca05c3 in PluginWrapper ./../.third party/blink/renderer/core/html/html plugin element.cc:390
  #29 0x560ca9ca05c3 in ?? ??:0
  #30 0x560cac58017b in blink::V8HTMLEmbedElement::NamedPropertyGetterCustom(WTF::AtomicString const&,
v8::PropertyCallbackInfo<v8::Value> const&)
./../.hthird_party/blink/renderer/bindings/core/v8/custom/v8_html_plugin_element_custom.cc:67
  #31 0x560cac58017b in NamedPropertyGetterCustom
./../.third_party/blink/renderer/bindings/core/v8/custom/v8_html_plugin_element_custom.cc:138
  #32 0x560cac58017b in ?? ??:0
  #33 0x560cac57a134 in blink::V8HTMLEmbedElement::NamedPropertyGetterCallback(v8::Local<v8::Name>,
v8::PropertyCallbackInfo<v8::Value> const&)
./gen/third party/blink/renderer/bindings/core/v8/v8 html embed element.cc:85
  #34 0x560cac57a134 in ?? ??:0
  #35 0x560c9727c27e in
v8::internal::PropertyCallbackArguments::CallNamedGetter(v8::internal::Handle<v8::internal::InterceptorInfo>,
v8::internal::Handle<v8::internal::Name>) ./../v8/src/api/api-arguments-inl.h:204
  #36 0x560c9727c27e in CallNamedGetter ./../../v8/src/api/api-arguments-inl.h:181
  #37 0x560c9727c27e in ?? ??:0
  #38 0x560c97738c81 in v8::internal::(anonymous
namespace)::GetPropertyWithInterceptorInternal(v8::internal::LookupIterator*,
v8::internal::Handle<v8::internal::InterceptorInfo>, bool*) ./../.v8/src/objects/js-objects.cc:1140
  #39 0x560c97738c81 in ?? ??:0
  #40 0x560c97825a91 in v8::internal::Object::GetProperty(v8::internal::LookupIterator*, bool)
./../v8/src/objects/objects.cc:1159
  #41 0x560c97825a91 in ?? ??:0
  #42 0x560c97231f21 in v8::internal::Load(V8::internal::Handle<v8::internal::Object>,
v8::internal::Handle<v8::internal::Name>, bool, v8::internal::Handle<v8::internal::Object>) ./.././v8/src/ic/ic.cc:498
  #43 0x560c97231f21 in ?? ??:0
```

```
#44 UX56UC9/253C66 IN V6::Internal::Runtime_LoadinoFeedbackiC_IVIISS(Int, unsigned long", v6::Internal::Isolate")
./../v8/src/ic/ic.cc:2596
 #45 0x560c97253c68 in Runtime LoadNoFeedbackIC Miss ./../.v8/src/ic/ic.cc:2581
 #46 0x560c97253c68 in ?? ??:0
 #47 0x560c98f877b7 in Builtins CEntry Return1 DontSaveFPRegs ArgyOnStack NoBuiltinExit setup-isolate-
deserialize.cc:?
 #48 0x560c98f877b7 in ?? ??:0
 #49 0x560c9901d444 in Builtins LdaNamedPropertyHandler setup-isolate-deserialize.cc:?
 #50 0x560c9901d444 in ?? ??:0
 #51 0x560c98f0b061 in Builtins InterpreterEntryTrampoline setup-isolate-deserialize.cc:?
 #52 0x560c98f0b061 in ?? ??:0
 #53 0x560c98f44291 in Builtins GeneratorPrototypeNext setup-isolate-deserialize.cc:?
 #54 0x560c98f44291 in ?? ??:0
 #55 0x560c98f0905b in Builtins JSEntryTrampoline setup-isolate-deserialize.cc:?
 #56 0x560c98f0905b in ?? ??:0
 #57 0x560c98f08d86 in Builtins JSEntry setup-isolate-deserialize.cc:?
 #58 0x560c98f08d86 in ?? ??:0
 #59 0x560c96e94dc6 in v8::internal::(anonymous namespace)::Invoke(v8::internal::Isolate*, v8::internal::(anonymous
namespace)::InvokeParams const&) ./../../v8/src/execution/simulator.h:152
 #60 0x560c96e94dc6 in Invoke ./../../v8/src/execution/execution.cc:419
 #61 0x560c96e94dc6 in ?? ??:0
 #62 0x560c96e9907a in v8::internal::(anonymous namespace)::InvokeWithTryCatch(v8::internal::Isolate*, v8::internal::
(anonymous namespace)::InvokeParams const&) ./.././v8/src/execution/execution.cc:480
 #63 0x560c96e9907a in ?? ??:0
 #64 0x560c96e99648 in v8::internal::Execution::TryCall(v8::internal::Isolate*, v8::internal::Handle<v8::internal::Object>,
v8::internal::Handle<v8::internal::Object>*,
v8::internal::Execution::MessageHandling, v8::internal::MaybeHandle<v8::internal::Object>*, bool)
./../v8/src/execution/execution.cc:580
 #65 0x560c96e99648 in ?? ??:0
SUMMARY: AddressSanitizer: heap-use-after-free (/home/exp11/asan-linux-release/chrome+0x169145d0)
Shadow bytes around the buggy address:
0x0c347fff94f0: 00 00 00 fa fa
=>0x0c347fff9510: fd fd fd[fd]fd fd fd
Shadow byte legend (one shadow byte represents 8 application bytes):
Addressable:
                00
Partially addressable: 01 02 03 04 05 06 07
Heap left redzone:
Freed heap region:
                   fd
Stack left redzone:
                  f1
Stack mid redzone:
                   f2
Stack right redzone:
Stack after return:
                 f5
Stack use after scope: f8
```

Global reazone: 19
Global init order: f6
Poisoned by user: f7
Container overflow: fc
Array cookie: ac
Intra object redzone: bb
ASan internal: fe
Left alloca redzone: ca
Right alloca redzone: cb

Did this work before? N/A

==1==ABORTING

Chrome version: 98.0.4710.4 Channel: dev

OS Version: 20.04

crash.html

2.2 KB View Download

Comment 1 by sheriffbot on Sun, Nov 28, 2021, 12:42 PM EST Project Member

Labels: external_security_report

Comment 2 by rsesek@chromium.org on Mon, Nov 29, 2021, 5:10 PM EST Project Member

Status: Assigned (was: Unconfirmed)

Owner: dhoss@chromium.org
Cc: thestig@chromium.org

Labels: Security_Severity-High FoundIn-96 Pri-1 **Components:** Internals>Plugins>PDF>Accessibility

I can't reproduce this, but the reporter does note that this is not totally reliable.

Comment 3 by thestig@chromium.org on Mon, Nov 29, 2021, 5:18 PM EST Project Member

From a previous bug from the same bug reporter, I had to adjust the code to reproduce the issue more reliably. https://bugs.chromium.org/p/chromium/issues/detail?id=1255332#c6

Comment 4 by sheriffbot on Mon, Nov 29, 2021, 5:18 PM EST Project Member

Labels: Security_Impact-Extended

Comment 5 by thestig@chromium.org on Mon, Nov 29, 2021, 6:48 PM EST Project Member

Cc: rsesek@chromium.org

rsesek@: Did you mean to set FoundIn-98 instead?

Comment 6 by rsesek@chromium.org on Mon, Nov 29, 2021, 6:51 PM EST Project Member

The relevant code appears the same between M96 and M98:

https://source.chromium.org/chromium/chromium/src/+/refs/tags/96.0.4664.55:pdf/pdf_view_plugin_base.cc;drc=5b3bfa29 4c4d7b314a075ab7f8b53c7ede141fc2

But if this only happens on M98 then feel free to adjust the lables.

Comment 7 by dhoss@chromium.org on Mon, Nov 29, 2021, 6:56 PM EST Project Member

From the call-stack, it appears that this UaF is occurring on the Unseasoned PDF viewer (with chrome://flags/#pdf-unseasoned enabled).

I'll try to verify, but if it's only occurring on the Unseasoned viewer, it shouldn't be affecting any stable users.

Comment 8 by thestig@chromium.org on Mon, Nov 29, 2021, 7:00 PM EST Project Member

Cc: kmoon@chromium.org a...@microsoft.com

+kmoon@ and ankk@ FYI. This may be specific to the PPAPI-free PDF Viewer. I think SetAccessibilityDocInfo() is synchronous there, whereas in the PPAPI version, SetAccessibilityDocInfo() is asynchronous.

Yes, the code has been around since M96. Though it is controlled by a field trial and shouldn't be generally available to users on Stable Channel.

Comment 9 by sheriffbot on Tue, Nov 30, 2021, 12:46 PM EST

Project Member

Labels: Target-96 M-96

Setting milestone and target because of high severity.

For more details visit https://www.chromium.org/issue-tracking/autotriage - Your friendly Sheriffbot

Comment 10 by kmoon@chromium.org on Wed, Dec 1, 2021, 11:20 AM EST Project Member

We're not planning to go to Stable on M96. We are planning to go to Stable on M97, so we should backport a fix to M97 at least.

Comment 11 by thestig@chromium.org on Wed, Dec 1, 2021, 1:19 PM EST Project Member

Labels: -M-96 -Target-96 Target-97

We probably just need to add another WeakPtr to watch for self-deletion. If we are going to backport to M97, let's get this in before the M97 Stable cut.

Comment 12 by dhoss@chromium.org on Wed, Dec 1, 2021, 1:28 PM EST Project Member

Yup. Just to give an update, I've moved this up my personal priority queue.

Comment 13 by sheriffbot on Thu, Dec 2, 2021, 12:47 PM EST

Project Member

Labels: -Target-97 Target-96 M-96

Setting milestone and target because of high severity.

For more details visit https://www.chromium.org/issue-tracking/autotriage - Your friendly Sheriffbot

Comment 14 by Git Watcher on Fri, Dec 3, 2021, 2:39 PM EST Project Member

The following revision refers to this bug:

https://chromium.googlesource.com/chromium/src/+/6d9638366ae0f60f8d2db41857fcbc738c2514d4

commit 6d9638366ae0f60f8d2db41857fcbc738c2514d4 Author: Daniel Hosseinian <dhoss@chromium.org>

Date: Fri Dec 03 19:38:47 2021

Tunasasanad adf. Call Ddf. figur/Mah Dlugin addy mathada agunali

junseasoned-patj Call PatviewvvepPlugin a Try methods asynciy

Calling a11y methods asyncly protects against the self-deletions they may cause. The a11y methods call content::RenderAccessibility::GenerateAXID() underneath, which may cause a relayout which causes the PdfViewWebPlugin to be deleted.

Isolating the calls in posted tasks is a clean way to protect against continuing control flow in the object after it is deleted.

Bug: 1274376

Change-Id: Iffd610a95199826fea56d7f23cb8e344657631d3

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/3313692

Reviewed-by: Lei Zhang <thestig@chromium.org>

Commit-Queue: Daniel Hosseinian dhoss@chromium.org>

Cr-Commit-Position: refs/heads/main@{#948105}

[modify] https://crrev.com/6d9638366ae0f60f8d2db41857fcbc738c2514d4/pdf/pdf_view_web_plugin.h [modify] https://crrev.com/6d9638366ae0f60f8d2db41857fcbc738c2514d4/pdf/pdf_view_web_plugin.cc

Comment 15 by dhoss@chromium.org on Fri, Dec 3, 2021, 2:46 PM EST Project Member

Labels: -Target-96 Target-97 Merge-Request-97

This feature hasn't been released to stable on M96, nor do we plan to. Per #c10, we'd like to merge to M97.

Comment 16 by dhoss@chromium.org on Fri, Dec 3, 2021, 2:46 PM EST Project Member

Status: Fixed (was: Assigned)

Comment 17 by sheriffbot on Sat, Dec 4, 2021, 12:41 PM EST Project Member

Labels: reward-topanel

Comment 18 by sheriffbot on Sat, Dec 4, 2021, 1:40 PM EST Project Member

Labels: -Restrict-View-SecurityTeam Restrict-View-SecurityNotify

Comment 19 by sheriffbot on Sat, Dec 4, 2021, 2:41 PM EST Project Member

Labels: -Merge-Request-97 Hotlist-Merge-Review Merge-Review-97

Merge review required: M97 is already shipping to beta.

Please answer the following questions so that we can safely process your merge request:

- 1. Why does your merge fit within the merge criteria for these milestones?
- Chrome Browser: https://chromiumdash.appspot.com/branches
- Chrome OS: https://goto.google.com/cros-release-branch-merge-guidelines
- 2. What changes specifically would you like to merge? Please link to Gerrit.
- 3. Have the changes been released and tested on canary?
- 4. Is this a new feature? If yes, is it behind a Finch flag and are experiments active in any release channels?
- 5. [Chrome OS only]: Was the change reviewed and approved by the Eng Prod Representative? https://goto.google.com/cros-engprodcomponents
- 6. If this merge addresses a major issue in the stable channel, does it require manual verification by the test team? If so, please describe required testing.

Diseas contest the milestone summer if you have supertions

Please contact the milestone owner if you have questions.

Owners: benmason (Android), harrysouders (iOS), ceb (ChromeOS), pbommana (Desktop)

For more details visit https://www.chromium.org/issue-tracking/autotriage - Your friendly Sheriffbot

Comment 20 by dhoss@chromium.org on Mon, Dec 6, 2021, 3:53 PM EST Project Member

- 1. This is a security issue with a feature we hope to launch in M97.
- 2. crrev.com/c/3313692
- 3. Yes
- 4. Yes, and the experiment is active in Beta.
- 5. N/A
- 6. N/A

Comment 21 by amyressler@chromium.org on Mon, Dec 6, 2021, 5:32 PM EST Project Member

Labels: -Merge-Review-97 Merge-Approved-97

merge approved for M97; please merge to branch 4692 ASAP/ NTL 12pm PST tomorrow (Tuesday, 7 DEC) so this fix can be included in tomorrow's beta cut

Comment 22 by pbommana@google.com on Tue, Dec 7, 2021, 12:07 PM EST Project Member

Your change has been approved for M97 branch 4692, please go ahead and merge the CL's to M97 branch manually asap so that they would be part of tomorrows Beta release. thank you

Comment 23 by dhoss@chromium.org on Tue, Dec 7, 2021, 12:25 PM EST Project Member

The merge CL is crrev.com/c/3319376. I've been trying to get it through a flaky mac-rel bot since yesterday. I'll try again now.

Comment 24 by Git Watcher on Tue, Dec 7, 2021, 7:33 PM EST Project Member

Labels: -merge-approved-97 merge-merged-4692 merge-merged-97

The following revision refers to this bug:

https://chromium.googlesource.com/chromium/src/+/7fabaa4d4eea71886dd30962dc96aa0f59bd73e3

commit 7fabaa4d4eea71886dd30962dc96aa0f59bd73e3

Author: Daniel Hosseinian dhoss@chromium.org>

Date: Wed Dec 08 00:32:35 2021

[M97][unseasoned-pdf] Call PdfViewWebPlugin a11y methods asyncly

Calling a11y methods asyncly protects against the self-deletions they

may cause. The a11y methods call

content::RenderAccessibility::GenerateAXID() underneath, which may cause a relayout which causes the PdfViewWebPlugin to be deleted.

Isolating the calls in posted tasks is a clean way to protect against continuing control flow in the object after it is deleted.

(cherry picked from commit 6d9638366ae0f60f8d2db41857fcbc738c2514d4)

Bug: 1274376

Change-Id: Iffd610a95199826fea56d7f23cb8e344657631d3

Reviewed-on: https://cnromium-review.googlesource.com/c/cnromium/src/+/35/13692

Reviewed-by: Lei Zhang <thestig@chromium.org>

Commit-Queue: Daniel Hosseinian dhoss@chromium.org Cr-Original-Commit-Position: refs/heads/main@{#948105}

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/3319376

Auto-Submit: Daniel Hosseinian <dhoss@chromium.org>
Cr-Commit-Position: refs/branch-heads/4692@{#799}

Cr-Branched-From: 038cd96142d384c0d2238973f1cb277725a62eba-refs/heads/main@{#938553}

[modify] https://crrev.com/7fabaa4d4eea71886dd30962dc96aa0f59bd73e3/pdf/pdf_view_web_plugin.h [modify] https://crrev.com/7fabaa4d4eea71886dd30962dc96aa0f59bd73e3/pdf/pdf_view_web_plugin.cc

Comment 25 by amyressler@chromium.org on Tue, Jan 4, 2022, 11:53 AM EST Project Member

Labels: Release-0-M97

Comment 26 by amyressler@google.com on Tue, Jan 4, 2022, 1:34 PM EST Project Member

Labels: CVE-2022-0105 CVE description-missing

Comment 27 by amyressler@google.com on Wed, Jan 5, 2022, 8:02 PM EST Project Member

Labels: -reward-topanel reward-unpaid reward-5000

*** Boilerplate reminders! ***

Please do NOT publicly disclose details until a fix has been released to all our users. Early public disclosure may cancel the provisional reward. Also, please be considerate about disclosure when the bug affects a core library that may be used by other products. Please do NOT share this information with third parties who are not directly involved in fixing the bug. Doing so may cancel the provisional reward. Please be honest if you have already disclosed anything publicly or to third parties. Lastly, we understand that some of you are not interested in money. We offer the option to donate your reward to an eligible charity. If you prefer this option, let us know and we will also match your donation - subject to our discretion. Any rewards that are unclaimed after 12 months will be donated to a charity of our choosing.

Please contact security-vrp@chromium.org with any questions.

Comment 28 by amyressler@chromium.org on Wed, Jan 5, 2022, 8:34 PM EST Project Member

Congratulations, Cassidy Kim! The VRP Panel has decided to award you \$5,000 for this report. Nice work!

Comment 29 by amyressler@google.com on Thu, Jan 6, 2022, 3:50 PM EST Project Member

Labels: -reward-unpaid reward-inprocess

Comment 30 by sheriffbot on Sat, Mar 12, 2022, 1:29 PM EST Project Member

Labels: -Restrict-View-SecurityNotify allpublic

This bug has been closed for more than 14 weeks. Removing security view restrictions.

For more details visit https://www.chromium.org/issue-tracking/autotriage - Your friendly Sheriffbot

Comment 31 by amyressler@chromium.org on Fri, Jul 29, 2022, 5:36 PM EDT Project Member

Labels: -CVE description-missing CVE description-submitted

Comment 32 by hanleyt@google.com on Wed, Oct 5, 2022, 1:56 PM EDT Project Member

Status: Verified (was: Fixed)

Error for uaf in chrome_pdf::PdfViewPluginBase::LoadAccessibility no longer being reported. Issue presumed fixed.

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