## Talos Vulnerability Report

TALOS-2020-1195

## Webkit ImageDecoderGStreamer use-after-free vulnerability

NOVEMBER 30, 2020

CVE NUMBER

CVE-2020-13584

Summary

An exploitable use-after-free vulnerability exists in WebKitGTK browser version 2.30.1 x64. A specially crafted HTML web page can cause a use-after-free condition, resulting in a remote code execution. The victim needs to visit a malicious web site to trigger this vulnerability.

Tested Versions

Webkit WebKitGTK 2.30.1

Product URLs

https://webkit.org/

CVSSv3 Score

8.8 - CVSS:3.0/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H

CWE

CWE-416 - Use After Free

Details

WebKit is an open-source web content engine for browsers and other applications.

The vulnerability is related with the ImageDecoderGStreamer interface, being more precise, the way its handled during <image> tag initialization. A malicious web page can trigger a use-after-free vulnerability which could result in remote code execution.

Triggering the vulnerability is relativly simple. An attacker just needs to create a malicious page where the image tag is set to one of the following: - the mimetype of data URL is set to one of mimetypes supported by GStreamer decoder - the url points to a resource with a content type supported by GStreamer decoder

First we see an allocation of  ${\tt ImageDecoderGStreamer}$ :

```
previously allocated by thread T0 here:
    #0 0x494bdd in malloc (/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/libexec/webkit2gtk-
 4.0/WebKitWebProcess+0x494bdd)
#1 0x7f8ba5ic3cfb in bmalloc::DebugHeap::malloc(unsigned long, bmalloc::FailureAction)
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/bmalloc/bmalloc/DebugHeap.cpp:98:20
 #2 0x7f8ba51c0195 in bmalloc::Cache::allocateSlowCaseNullCache(bmalloc::HeapKind, unsigned long)
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/bmalloc/Cache.cpp:64:27
#3 0x7f8ba4fa0dee in bmalloc::Cache::allocate(bmalloc::HeapKind, unsigned long) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/build/DerivedSources/ForwardingHeaders/bmalloc/Cache.h:81:16

#4 0x7f8ba4fa0baa in bmalloc::api::malloc(unsigned long, bmalloc::HeapKind) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/bmalloc/bmalloc.h:49:12
 #5 0x7f8ba4f9fcca in WTF::fastMalloc(unsigned long) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WTF/wtf/FastMalloc.cpp:477:20
#6 0x7f8bb5d03e84 in WebCore::ImageDecoderGStreamer::operator new(unsigned long) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/platform/graphics/gstreamer/ImageDecoderGStreamer.h:39:5
#7 0x7f8bb5cfa39c in WebCore::ImageDecoderGStreamer::create(WebCore::SharedBuffer&, WTF::String const&, WebCore::AlphaOption, WebCore::GammaAndColorProfileOption) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/platform/graphics/gstreamer/ImageDecoderGStreamer.cpp:85:22

#8 0x7f8bb3acfc38 in WebCore::ImageDecoder::create(WebCore::SharedBuffer6, WTF::String const6, WebCore::AlphaOption, WebCore::GammaAndColorProfileOption) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/platform/graphics/ImageDecoder.cpp:58:16
#9 0x7f8bb3ad2386 in WebCore::ImageSource::ensureDecoderAvailable(WebCore::SharedBuffer*)
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/platform/graphics/ImageSource.cpp:78:17
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/platform/graphics/ImageSource.cpp:78:17

#10 0x7f8bb3ad2d05 in WebCore::ImageSource::setData(WebCore::SharedBuffer*, bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/platform/graphics/ImageSource.cpp:99:19

#11 0x7f8bb3ad2f32 in WebCore::ImageSource::dataChanged(WebCore::SharedBuffer*, bool)
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/platform/graphics/ImageSource.cpp:113:5

#12 0x7f8bb3ab6766 in WebCore::SitmapImage::dataChanged(bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/platform/graphics/ImageSource.cpp:117:22

#13 0x7f8bb3ac335d in WebCore::Image::setData(WTF::RefPtr:WebCore::SharedBuffer, WTF::DumbPtrTraits<WebCore::SharedBuffer> >66,
bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/platform/graphics/Image.cpp:111:12

#14 0x7f8bb2f6b2f2 in WebCore::CachedImage::updateImageData(bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/Datform/graphics/Image.cpp:119:12

#15 0x7f8bb2f6b2f2 in WebCore::CachedImage::updateImageData(bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/Datform/graphics/Image.cpp:149:41

#15 0x7f8bb2f6b2f2 in WebCore::CachedImage::updateImageData(bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/Datform/graphics/Image.cpp:1549:41

#15 0x7f8bb2f6b2f2 in WebCore::CachedImage::updateBufferInternal(WebCore::SharedBuffer6)
test/code/Source/WebCore/loader/cache/CachedImage.cpp:557:5
#17 0x7f8bb2eab594 in WebCore::SubresourceLoader::didReceiveDataOrBuffer(char const*, int, WTF::RefPtr<WebCore::SharedBuffer, WTF::DumbPtrTraits<WebCore::SharedBuffer> >86, long long, WebCore::DataPayloadType) /home/icewall/tools/fuzzing/browsers/webkitgtk-
WIF::DumbPtTPTaits
WIF::DumbPtTPTaits
WebCore/loader/SubresourceLoader.cp::S37:25
#18 0x7f8bb2eab8e in WebCore::SubresourceLoader::didReceiveBuffer(WTF::Ref<WebCore::SharedBuffer,
WTF::DumbPtTTraits</pre>
WebCore::DataPayloadType
// home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/loader/SubresourceLoader.cp::517:5
#19 0x7f8bb2e84bf9 in auto WebCore::ResourceLoader::loadDataURL()::$_2::operator()
WTF::Optional
WebCore::DataURLDecoder::Result>>
(WTF::Optional
WebCore::DataURLDecoder::Result>>
***Comparison of the Comparison of the Co
test/code/Source/WebCore/Loader/ResourceLoader.cpp:284:23
#20 0x7f8bb2e8495d in WTF::Detail::CallableWrapper<auto WebCore::ResourceLoader::loadDataURL()::$_2::operator()
<WTF::Optional<WebCore::DataURLDecoder::Result> >(WTF::Optional<WebCore::DataURLDecoder::Result>)::'lambda'(), void>::call()
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtt/Function.h:52:39
#21 0x7f8baade665e in WTF::Function<a href="mailto:woid">wTF::Function</a> (>)::operator()() const /home/icewall/tools/fuzzing/browsers/webkitgtk
test/code/build/DerivedSources/ForwardingHeaders/wtf/Function.h:83:35
 #22 0x7f8baaed5306 in WTF::CompletionHandlervoid ()>::operator()() /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/CompletionHandler.h:62:16
#23 0x7f8babdb5c91 in WTF::CompletionHandlerCallingScope::~CompletionHandlerCallingScope()
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/CompletionHandler.h:145:13
#24 0x7f8bb2eaaa05 in WebCore::SubresourceLoader::didReceiveResponse(WebCore::ResourceResponse const6, WTF::CompletionHandler<void
()>86)::$_7::-$_7() /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/SubresourceLoader.cpp:451:50
()>boy::s_::-$_-(() /nome/icewalt/tools/fuzzing/browsers/webKirgtk-test/code/Source/webLore/loader/subresourceLoader.cpp:491:99
#25 0x7f8bb2ed731d in WTF::Detail::CallableWrapper(webCore::SubresourceLoader::didReceiveResponse(WebCore::ResourceResponse const6, WTF::CompletionHandler</ri>
WTF::CompletionHandler
webCode/build/DerivedSources/ForwardingHeaders/wtf/Function.h:46:7
#26 0x7f8bb2ed734b in WTF::Detail::CallableWrapper
wTF::CompletionHandler
wTF::CompletionHandler
wTF::CompletionHandler
wTF::CompletionHandler
wTF::CompletionHandler
wTF::CompletionHandler
wTF::CompletionHandler
wTF::CompletionHandler
test/code/build/DerivedSources/ForwardingHeaders/wtf/Function.h:46:7

#27 0x7f8baadecfcf in std::default_delete<WTF::Detail::CallableWrapperBase<void>>::operator()

(WTF::Detail::CallableWrapperBase<void>+) const /usr/bin/../lib/gcc/x86_64-linux-
gnu/7.5.0/../../include/c++/7.5.0/bits/unique_ptr.h:78:2

#28 0x7f8baadeced4 in std::unique_ptr.WTF::Detail::CallableWrapperBase<void>,

std::default_delete<WTF::Detail::CallableWrapperBase<void>> >::-unique_ptr() /usr/bin/../lib/gcc/x86_64-linux-
gnu/7.5.0/../../../../sounicude/c++/7.5.0/bits/unique_ptr.h:263:4

#29 0x7f8baade5234 in WTF::Function</br>
#29 0x7f8baade5234 in WTF::Function</br>
#29 0x7f8baade5234 in WTF::Function</br>
```

 $Later \ on, when \ Cache Image \ component \ detects \ an \ invalid \ image \ format \ Image Decoder GStreamer \ is \ de-allocated$ 

```
0x610000028450 is located 16 bytes inside of 192-byte region [0x610000028440,0x610000028500)
                         #0 0x49495d in free (/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/libexec/webkit2gtk-
4.0/WebKitWebProcess+0x49495d)
#1 0x7f8ba51c3f98 in bmalloc::DebugHeap::free(void*) /home/icewall/tools/fuzzing/browsers/webkitgtk
test/code/Source/bmalloc/DebugHeap.cpp:120:5
#2 0x7f8ba51c0603 in bmalloc::Cache::deallocateSlowCaseNullCache(bmalloc::HeapKind, void*)
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/bmalloc/bmalloc/Cache.cpp:85:20
#3 0x7f8ba4fa16ee in bmalloc::cachec::deallocacte(bmalloc::HeapKind, void*) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/bmalloc/Cache.h:105:16

#4 0x7f8ba4fa0c0a in bmalloc::api::free(void*, bmalloc::HeapKind) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/bmalloc/bmalloc.h:86:5

#5 0x7f8ba4fa0306 in WTF::fastFree(void*) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WTF/wtf/FastMalloc.cpp:509:5
#6 0x7f8bb5d08a14 in WebCore::ImageDecoderGStreamer::operator delete(void*) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/platform/graphics/gstreamer/ImageDecoderGStreamer.h:39:5
#7 0x7f8bb5d052c7 in WebCore::ImageDecoderGStreamer::~ImageDecoderGStreamer() /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/platform/graphics/gstreamer/ImageDecoderGStreamer.h:44:46
#8 0x7f8bb3afb59a in WTF::ThreadSafeRefCounted<a href="https://www.webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/webcore/
test/code/build/DerivedSources/ForwardingHeaders/wtf/ThreadSafeRefCounted.h:117:13
#9 0x7f8bb3afb493 in WTF::ThreadSafeRefCounted<WebCore::ImageDecoder, (WTF::DestructionThread)0>::deref() const
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/ThreadSafeRefCounted.h:135:9
#10 0X7f8bb3afd686 in void WTF::derefIfNotNull<WebCore::ImageDecoder>(WebCore::ImageDecoder*)
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/RefPtr.h:44:14
#11 0x7f8bb3ae92f9 in Wfr:RefPtrwWebCore::ImageBecoder, Wfr:NembPtrTraitswWebCore::ImageBecoder >:coperator=(std::nullptr_t)
//home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/RefPtr.h:156:5
#12 0x7f8bb3ad2df0 in WebCore::ImageSource::resetData(WebCore::SharedBuffer*) //home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/platform/graphics/ImageSource::ps:tData(WebCore::SharedBuffer*) //home/icewall/tools/fuzzing/browsers/webkitgtk-
#13 0x7f8bb3ab6d53 in WebCore::BitmapImage::destroyDecodedData(bool) //home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/platform/graphics/BitmapImage.cpp:30:19
#14 0x7f8bb2f688a3 in WebCore::CachedImage::destroyDecodedData() /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/cache/CachedImage.cpp:622:18
#15 0X7f8bb2f6866b in WebCore::CachedImage::clear() /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/loader/cache/CachedImage.cpp:365:5
#16 0X7f8bb2f6b3a8 in WebCore::CachedImage::error(WebCore::CachedResource::Status) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/loader/cache/CachedImage.cpp:603:5
#17 0x7f8bb2f6adbf in WebCore::CachedImage::updateBufferInternal(WebCore::SharedBuffer6)
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/cache/CachedImage.cpp:503:9
 #18 0x7f8bb2f6b768 in WebCore::CachedImage::updateBuffer(WebCore::SharedBuffer&) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/cache/CachedImage.cpp:557:5 #19 0x7f8bb2eab594 in WebCore::SubresourceLoader::didReceiveDataOrBuffer(char const*, int, WTF::RefPtr<WebCore::SharedBuffer,
WTF::DumbPtrTraits:WebCore::SharedBuffer> >56, long long, WebCore::DataPayloadType) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/SubresourceLoader.cpp:537:25 #20 0x7f8bb2eab88e in WebCore::SubresourceLoader::didReceiveBuffer(WTF::Ref<WebCore::SharedBuffer,
WTF::DumDPtrTraits:WebCore::SharedBuffer> >66, long long, WebCore::DataPayloadType) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/loader/SubresourceLoader.cpp:517:5
    #21 0x7f8bb2e84bf9 in auto WebCore::ResourceLoader::loadDataURL()::$_2::operator()<WTF::Optional<WebCore::DataURLDecoder::Resoult> >
 (WTF::Optional<WebCore::DataURLDecoder::Result>)::'lambda'()::operator()() /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/ResourceLoader.cpp:284:23 #22 0x7f8bb2e8495d in WTF::Detail::CallableWrapper<auto WebCore::ResourceLoader::loadDataURL()::$_2::operator()
test/code/build/DerivedSources/ForwardingHeaders/wtf/Function.h:83:35
#24 0x7f8baaed5306 in WTF::CompletionHandlervoid ()::operator()() /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/CompletionHandler.h:62:16
#25 0x7f8babdb5c91 in WTF::CompletionHandlerCallingScope::~CompletionHandlerCallingScope()
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/CompletionHandler.h:145:13
                         #26 0x7f8bb2eaaa05 in WebCore::SubresourceLoader::didReceiveResponse(WebCore::ResourceResponse const8, WTF::CompletionHandler<void
#26 0x7f8bb2eaaa05 in WebCore::SubresourceLoader::didReceiveResponse(WebCore::ResourceResponse const6, WTF::CompletionHandler<void ()>66)::$_7:-$_7() /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore:/Bobcore/loader/SubresourceLoader.cpp:451:50 #27 0x7f8bb2ed731d in WTF::Detail::CallableWrapper(webCore::SubresourceLoader::didReceiveResponse(WebCore::ResourceResponse const6, WTF::CompletionHandler<void ()>66)::$_7, void>::-CallableWrapper() /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/Function.h:46:7 #28 0x7f8bb2ed734b in WTF::Detail::CallableWrapper(webCore::SubresourceLoader::didReceiveResponse(WebCore::ResourceResponse const6, WTF::CompletionHandler<void ()>66)::$_7, void>::-CallableWrapper() /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/Function.h:46:7 #29 0x7f8bpadersfcf in std::default_delstewTF::Detail::CallableWrapperRese
#29 0x7f8baadecfcf in std::default_deletecWTF::Detail::CallableWrapperBase<void>>::operator()
(WTF::Detail::CallableWrapperBase<void>+) const /usr/bin/../lib/gcc/x86_64-linux-
gnu/7.5.0/../../include/c++/7.5.0/bits/unique_ptr.h:78:2
```

```
==#6947=ERROR: AddresSanitizer: hap-use-after-free on address &scie000028450 at pc 0x7f8bb5d09926 by 0x7ffc3e7343c0 sp 0x7ffc3e734c0 sp 0x7ffc3
```

Proper heap grooming can give an attacker full control of this use-after-free vulnerability and as a result could allow it to be turned into arbitrary code execution.

```
icewall@ubuntu:~/tools/fuzzing/browsers/webkitgtk-test/code/build/bin$ ./MiniBrowser http://localhost/webaudio_fuzzer/3.html WARNING: ASAN interferes with JSC signal handlers; useWebAssemblyFastMemory will be disabled. WARNING: ASAN interferes with JSC signal handlers; useWebAssemblyFastMemory will be disabled. WARNING: ASAN interferes with JSC signal handlers; useWebAssemblyFastMemory will be disabled.
  ** (WebKitWebProcess:46942): WARNING **: 08:34:26.224: Error: 4, Could not determine type of stream.. Debug output: gsttypefindelement.c(1168): gst_type_find_element_loop (): /GstPipeline:image-decoder-0/GstDecodeBin:decodebin0/GstTypeFindElement:typefind
  ** (WebKitWebProcess:46942): WARNING **: 08:34:26.225: Error: 1, Internal data stream error. Debug output: gsttypefindelement.c(1236): gst_type_find_element_loop (): /GstPipeline:image-decoder-0/GstDecodeBin:decodebin0/GstTypeFindElement:typefind: streaming stopped, reason error (-5)
  ** (WebKitWebProcess:46942): WARNING **: 08:34:26.228: Error: 4, Could not determine type of stream.. Debug output: gsttypefindelement.c(1168): gst_type_find_element_loop (): /GstPipeline:image-decoder-1/GstDecodeBin:decodebin1/GstTypeFindElement:typefind
  ** (WebKitWebProcess:46942): WARNING **: 08:34:26.228: Error: 1, Internal data stream error. Debug output: gsttypefindelement.c(1236): gst_type_find_element_loop (): /GstPipeline:image-decoder-1/GstDecodeBin:decodebin1/GstTypeFindElement:typefind: streaming stopped, reason error (-5)
    ** (WebKitWebProcess: 46942): WARNING **: 08:34:26.231: Error: 4. Could not determine type of stream.. Debug output:
   gsttypefindelement.c(1168): gst_type_find_element_loop (): /GstPipeline:image-decoder-2/GstDecodeBin:decodebin2/GstTypeFindElement:typefind
  ** (WebKitWebProcess:46942): WARNING **: 08:34:26.231: Error: 1, Internal data stream error. Debug output: gsttypefindelement.c(1236): gst_type_find_element_loop (): /GstPipeline:image-decoder-2/GstDecodeBin:decodebin2/GstTypeFindElement:typefind: streaming stopped, reason error (-5)
  ** (WebKitWebProcess:46942): WARNING **: 08:34:26.234: Error: 4, Could not determine type of stream.. Debug output: gsttypefindelement.c(1168): gst_type_find_element_loop (): /GstPipeline:image-decoder-3/GstDecodeBin:decodebin3/GstTypeFindElement:typefind
  ** (WebKitWebProcess:46942): WARNING **: 08:34:26.234: Error: 1, Internal data stream error.. Debug output: gsttypefindelement.c(1236): gst_type_find_element_loop (): /GstPipeline:image-decoder-3/GstDecodeBin:decodebin3/GstTypeFindElement:typefind: streaming stopped, reason error (-5)
  ** (WebKitWebProcess:46942): WARNING **: 08:34:26.237: Error: 4, Could not determine type of stream.. Debug output: gsttypefindelement.c(1168): gst_type_find_element_loop (): /GstPipeline:image-decoder-4/GstDecodeBin:decodebin4/GstTypeFindElement:typefind
  ** (WebKitWebProcess:46942): WARNING **: 08:34:26.238: Error: 1, Internal data stream error. Debug output: gsttypefindelement.c(1236): gst_type_find_element_loop (): /GstPipeline:image-decoder-4/GstDecodeBin:decodebin4/GstTypeFindElement:typefind: streaming stopped, reason error (-5)
  ** (WebKitWebProcess:46942): WARNING **: 08:34:26.240: Error: 4, Could not determine type of stream.. Debug output: gsttypefindelement.c(1168): gst_type_find_element_loop (): /GstPipeline:image-decoder-5/GstDecodeBin:decodebin5/GstTypeFindElement:typefind
  ** (WebKitWebProcess:46942): WARNING **: 08:34:26.240: Error: 1, Internal data stream error.. Debug output: gsttypefindelement.c(1236): gst_type_find_element_loop (): /GstPipeline:image-decoder-5/GstDecodeBin:decodebin5/GstTypeFindElement:typefind:
   streaming stopped, reason error (-5)
===46942==ERROR: AddressSanitizer: heap-use-after-free on address 0x610000028450 at pc 0x7f8bb5d09026 bp 0x7ffc3e7343c0 sp 0x7ffc3e7343b8
  READ of size 8 at 0x610000028450 thread TO
#0 0x7f8bb5d09025 in std::_uniq_ptr_impl<WTF::Detail::CallableWrapperBase<void, WebCore::EncodedDataStatus>,
std::default_delete<WTF::Detail::CallableWrapperBase<void, WebCore::EncodedDataStatus> > >::_M_ptr() const /usr/bin/../lib/gcc/x86_64-linux-
  #1 0x7f8bb5d08fe4 in std::unique_ptr:WTF::Detail::CallableWrapperBase<void, WebCore::EncodedDataStatus>, std::default_delete<WTF::Detail::CallableWrapperBase<void, WebCore::EncodedDataStatus>,
  std::derault_celete<whir::uetalt::caltableWrapperBase<void, webCore::encodedDataStatUs>>>::get() const /usr/Din/../l
mu/7.5.9/../../../include/c++/7.5.9/bits/unique_ptr.h:332:21

#2 0x7f8bb5d0a9d4 in std::unique_ptr<WTF::Detail::CallableWrapperBase<void, WebCore::EncodedDataStatus>,
std::default_delete<WTF::Detail::CallableWrapperBase<void, WebCore::EncodedDataStatus>>>:coperator bool() const
//usr/bin/../lib/gcc/x86_64-linux-gnu/7.5.0/../../../include/c++/7.5.0/bits/unique_ptr.h:346:16

#3 0x7f8bb5d0a704 in WTF::Function
// webCore::EncodedDataStatus>>:coperator bool() const
//home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/Function.h:86:47
#3 0x7f8bb508a704 in WTF::Function<a>id</a> (webCore::EncodedDataStatus)::operator bool() const</a>
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/Function.h:86:47

#4 0x7f8bb500364d in WebCore::ImageDecoderGStreamer::pushEncodedData(WebCore::SharedBuffer const6)::$_6::operator()() const
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/platform/graphics/gstreamer/ImageDecoderGStreamer.cpp:398:13

#5 0x7f8bb50d356d in WTF::Detail::CallableWarapercWebCore::ImageDecoderGStreamer::pushEncodedData(WebCore::SharedBuffer
const6)::$_6, void>::call() /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/build/DerivedSources/ForwardingHeaders/wtf/Function.h:85:39

#6 0x7f8bba22def1e in WTF::Function</a>
#6 0x7f8bba22def1e in WTF::Runcion</a>:void /b::operator()() const /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/build/DerivedSources/ForwardingHeaders/wtf/Function.h:83:35

#7 0x7f8bb518604f7e097 in WTF::Runloop::performWork() /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WTF/wtf/glib/RunloopGib.cpp:80:42

#8 0x7f8bb318f0bb in WTF::Runloop::Runloop()::$_1::_invoke(void*) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WTF/wtf/glib/RunloopGib.cpp:80::operator()(_GSource*, int (*)(void*), void*) const
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WTF/wtf/glib/RunloopGib.cpp:30::operator()(_GSource*, int (*)(void*), void*) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WTF/wtf/glib/RunloopGib.cpp:30::operator()(_GSource*, int (*)(void*), void*) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WTF/wtf/glib/RunloopGib.cpp:30::operator()(_GSource*, int (*)(void*), void*) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WTF/wtf/glib/RunloopGib.cpp:30::operator()(_GSource*, int (*)(void*), void*) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WTF/wtf/glib/RunloopGib.cpp:30::operator()/GSource/WTF/wtf/glib/RunloopGib.cp
  #16 0x7f8bad9bde8c in int WebKit::AuxiliaryProcessMainWebKit::WebProcess, WebKit::WebProcessMainGtk>(int, char**)
//home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebKit/Shared/AuxiliaryProcessMain.h:68:5
  #17 0x7f8bad9bb0da in WebKit::WebProcessMain(int, char**) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebKit/WebProcess/gtk/WebProcessMainGtk.cpp:66:12
#18 0x4c6c45 in main /home/icewall/tools/fuzzing/browsers/webkitgtk-
  test/code/Source/WebKit/WebProcess/EntryPoint/unix/WebProcessMain.cpp:45:12
#19 0x7f8b921b1b96 in __libc_start_main /build/glibc-2CRdQG/glibc-2.27/csu/../csu/libc-start.c:310
#20 0x41ccd9 in _start (/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/libexec/webkit2gtk-4.0/WebKitWebProcess+0x41ccd9)
    0x610000028450 is located 16 bytes inside of 192-byte region [0x610000028440,0x610000028500)
   freed by thread T0 here:
                              {\tt \#0~0x49495d~in~free~(/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/build/libexec/webkit2gtk-test/code/bui
   4.0/WebKitWebProcess+0x49495d)
                             #1 0x7f8ba51c3f98 in bmalloc::DebugHeap::free(void*) /home/icewall/tools/fuzzing/browsers/webkitgtk-
 #1 0x7f8ba5ic3f98 in bmalloc::DebugHeap::free(void*) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/bmalloc/DebugHeap.cpp:120:5

#2 0x7f8ba5ic0603 in bmalloc::Cache::deallocateSlowCaseNullCache(bmalloc::HeapKind, void*)
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/bmalloc/bmalloc/Cache.cpp:85:20

#3 0x7f8ba4fa16ee in bmalloc::Gache::deallocate(bmalloc::HeapKind, void*) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/bmalloc/Cache.h:105:16

#4 0x7f8ba4fa260a in bmalloc::api::free(void*) bmalloc::HeapKind) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/bmalloc/bmalloc.h:86:5

#5 0x7f8ba4fa30a in WTF::fastFree(void*) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WTF/wtf/FastMalloc.cpp:509:5

#5 0x7f8bb4fa30a in WTF::fastFree(void*) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WTF/wtf/FastMalloc.cpp:509:5

#6 0x7f8bb5d08a14 in WebCore::ImageDecoderGStreamer::operator delete(void*) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/Datform/graphics/gstreamer/ImaceDecoderGStreamer.h:39:5
  #6 087760b308341 in WebCore:ImageDecoderGStreamer:Indexeror Getete(voll*) / Home/Icewalt/toots/ruz2Ing/browsers/webkitgtk-
test/code/Source/WebCore/platform/graphics/gstreamer/ImageDecoderGStreamer.h:39:5
#7 087f8bb5d052c7 in WebCore:ImageDecoderGStreamer:.~ImageDecoderGStreamer() / home/icewalt/toots/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/platform/graphics/gstreamer/ImageDecoderGStreamer.h:446
#8 087f8bb3afb59a in WTF::ThreadSafeRefCounted<WebCore::ImageDecoder, (WTF::DestructionThread)0>::deref()
const::'lambda'()::operator()() const /home/icewalt/tools/fuzzing/browsers/webkitgtk-
test/code/build/DerivedSources/ForwardingHeaders/wtf/ThreadSafeRefCounted.h:117:13
```

```
#9 0x7f8bb3afb493 in WTF::ThreadSafeRefCounted<WebCore::ImageDecoder, (WTF::DestructionThread)0>::deref() const
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/ThreadSafeRefCounted.h:135:9
#10 0x7f8bb3afd686 in void WTF::derefIfNotNull<WebCore::ImageDecoder>(WebCore::ImageDecoder*)
 /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/RefPtr.h:44:14
#11 0x7f8bb3ae92f9 in WTF::RefPtr<WebCore::ImageDecoder, WTF::DumbPtrTraits<WebCore::ImageDecoder> >::operator=(std::nullptr_t)
  /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/RefPtr.h:156:5 #12 0x7f8bb3ad2df0 in WebCore::ImageSource::resetData(WebCore::SharedBuffer*) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/platform/graphics/ImageSource.cpp:107:15
  #13 0x7f8bb38b6453 in WebCore::BitmapImage::destroyDecodedData(bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/platform/graphics/BitmapImage.cpp:93:19
#14 0x7f8bb2f688a3 in WebCore::CachedImage::destroyDecodedData() /home/icewall/tools/fuzzing/browsers/webkitgtk-
 test/code/Source/WebCore/loader/cache/CachedImage.cpp:622:18
#15 0x7f8bb2f6866b in WebCore::CachedImage::clear() /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/cache/CachedImage.cpp:365:5
  #16 0x7f8bb2f6b3a8 in WebCore::CachedImage::error(WebCore::CachedResource::Status) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/cache/CachedImage.cpp:603:5 #17 0x7f8bb2f6adbf in WebCore::CachedImage::updateBufferInternal(WebCore::SharedBuffer&)
 /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/cache/CachedImage.cpp:583:9
#18 0x7f8bb2f6b768 in WebCore::CachedImage::updateBuffer(WebCore::SharedBuffer6) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/cache/CachedImage.cpp:557:5
  #19 0x7f8bb2eab594 in WebCore::SubresourceLoader::didReceiveDataOrBuffer(char const*, int, WTF::RefPtr<WebCore::SharedBuffer, WTF::DumbPtrTraits<WebCore::SharedBuffer> >6%, long long, WebCore::DataPayloadType) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/SubresourceLoader.cpp:537:25
  #20 0x7f8bb2eab88e in WebCore::SubresourceLoader::didReceiveBuffer(WTF::Ref<WebCore::SharedBuffer, WTF::DumbPtrTraits<br/>WFF::DumbPtrTraits<br/>WebCore::SharedBuffer> >86, long long, WebCore::DataPayloadType) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/SubresourceLoader.cpp:517:5
  #21 0x7f8bb2e84bf9 in auto WebCore::ResourceLoader::loadDataURL()::$_2::operator()<WTF::Optional<WebCore::DataURLDecoder::Resoult>> (WTF::Optional<WebCore::DataURLDecoder::Resoult>)::'lambda'()::operator()() /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/loader/ResourceLoader.cpp:284:23

#22 0x7f8bb2e8495d in WTF::Detail::CallableWrapper<auto WebCore::ResourceLoader::loadDataURL()::$_2::operator()

<WTF::Optional<auto WebCore::DataURLDecoder::Result>>(WTF::Optional<auto WebCore::DataURLDecoder::Result>)::'lambda'(), void>::call()

/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/Function.h:52:39

#23 0x7f8baade665e in WTF::Inuction</br>
#24 0x7f8baade659e in WTF::Inuction</br>
#25 0x7f8baadd530e in WTF::CompletionHandler</br>
#26 0x7f8baadd530e in WTF::CompletionHandler</br>
#27 0x7f8babdb5c91 in WTF::CompletionHandler</br>
#28 0x7f8babdb5c91 in WTF::CompletionHandler</br>
#29 0x7f8bb2daa06530e in WTF::CompletionHandler</br>
#25 0x7f8bb2db5c91 in WTF::CompletionHandler</br>
#26 0x7f8bb2db5c91 in WTF::CompletionHandler</br>
#27 0x7f8bb2db5c91 in WTF::CompletionHandler</br>
#28 0x7f8bb2db5c91 in WTF::CompletionHandler</br>
#29 0x7f8bb2db5c91 in WTF::CompletionHandler</br>
#20 0x7f8bb2db5c91 in WTF::CompletionHandler</br>
#25 0x7f8bb2db5c91 in WTF::CompletionHandler</br>
  test/code/Source/WebCore/loader/ResourceLoader.cpp:284:23
#26 0x7f8bb2eaaa05 in WebCore::SubresourceLoader::didReceiveResponse(WebCore::ResourceResponse constb, WTF::CompletionHandler<void ()>66)::$,7::-$_7(), home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/Loader/SubresourceLoader.cpp;451:50 #27 0x7f8bb2ed731d in WTF::Detail::CallableWrapper<WebCore::SubresourceLoader::didReceiveResponse(WebCore::ResourceResponse constb, WTF::CompletionHandler<void ()>66)::$,7, void>::-CallableWrapper() /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/Function.hi.46:7 #28 0x7f8bb2ed734b in WTF::Detail::CallableWrapper<WebCore::SubresourceLoader::didReceiveResponse(WebCore::ResourceResponse constb, WTF::CompletionHandler<void ()>66)::$,7, void>::-CallableWrapper() /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/Function.hi.46:7 #29 0x7f8baadecfcf in std::default_delete<WTF::Detail::CallableWrapperBase<void>>::operator() (WTF::Detail::CallableWrapperBase<void>>:onst /usr/bin/../lib/gcc/x86_64-linux-gnu/7.5.9(.)../../../include/c*-/7.5.9(bits/unique ptr.hi?8:2)
  gnu/7.5.0/../../include/c++/7.5.0/bits/unique_ptr.h:78:2
  previously allocated by thread TO here:
  #0 0x494bdd in malloc (/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/libexec/webkit2gtk-
4.0/WebKitWebProcess+0x494bdd)
#1 0x7f8ba5lc3cfb in bmalloc::DebugHeap::malloc(unsigned long, bmalloc::FailureAction)
 /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/bmalloc/DebugHeap.cpp:98:20
#2 0x7f8ba51c0195 in bmalloc::Cache::allocateSlowCaseNullCache(bmalloc::HeapKind, unsigned long)
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/bmalloc/Debmalloc/Cache.cpp:64:27
 /nome/icewall/tools/fuzzing/browsers/webkitgtk-test/code/source/pmalloc/chane.cpp:04:2/
#3 0xff8ba4faddee in bmalloc::Cache::allocate(bmalloc::Heapkind, unsigned long) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/build/DerivedSources/ForwardingHeaders/bmalloc/Cache.h:81:16
#4 0xff8ba4fa0baa in bmalloc::api::malloc(unsigned long, bmalloc::HeapKind) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/build/DerivedSources/ForwardingHeaders/bmalloc/bmalloc.h:49:12
#5 0xff8ba4f9fcca in WTF::fastMalloc(unsigned long) /home/icewall/tools/fuzzing/browsers/webkitgtk-
 test/code/Source/WTF/wtf/FastMalloc.cpp:477:20

#6 0x7f8bb5d03a84 in WebCore::ImageDecoderGStreamer::operator new(unsigned long) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/platform/graphics/gstreamer/ImageDecoderGStreamer.h:39:5

#7 0x7f8bb5cfa39c in WebCore::ImageDecoderGStreamer::create(WebCore::SharedBuffer&, WTF::String const&, WebCore::AlphaOption,
 #/ 0X/76DDSC1439 IN WebCore::ImageDecoderOstreamer::create(webCore::ShareBusters, wir::String consts, webCore::Atp
WebCore::GammaAndColorProfileOption) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/platform/graphics/gstreamer/ImageDecoder:Streamer.cpp:85:22
#8 0X/f8bD3adc283 in WebCore::HamgeDecoder::create(WebCore::SharedBuffers, WTF::String consts, WebCore::AlphaOption,
WebCore::GammaAndColorProfileOption) /home/icewall/tools/fuzzing/browsers/webkitgtk-
WebCore::GammaAndColorProfileOption) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/platform/graphics/ImageDecoder.cpp:58:16
#9 0x7f8bb3ad2386 in WebCore::ImageSource::ensureDecoderAvailable(WebCore::SharedBuffer*)
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/platform/graphics/ImageSource.cpp:78:17
#10 0x7f8bb3ad2d35 in WebCore::ImageSource::setData(WebCore::SharedBuffer*, bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/platform/graphics/ImageSource.cpp:99:19
#11 0x7f8bb3ad2f32 in WebCore::ImageSource::dataChanged(WebCore::SharedBuffer*, bool)
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/platform/graphics/ImageSource.cpp:113:5
#12 0x7f8bb38b6766 in WebCore::BitmapImage::dataChanged(bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/platform/graphics/BitmapImage.cpp:117:22
#13 0x7f8bb3a335d in WebCore::ImageScource:SharedBuffer, WTF::DumbPtrTraits<WebCore::SharedBuffer> >566,
bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/platform/graphics/Image.cpp:111:12
#14 0x7f8bb2f6b2f2 in WebCore::CachedImage::updateImageData(bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/loader/cache/CachedImage::updateImageData(bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/loader/cache/CachedImage::updateImageData(bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/loader/cache/CachedImage::updateImageData(bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/loader/cache/CachedImage::updateImageData(bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-
#14 0X7f8bb2f6b2f2 in WebCore::CachedImage::updateImageData(bool) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Sourre/WebCore/loader/cache/CachedImage::pp:549:41

#15 0X7f8bb2f6ad25 in WebCore::CachedImage::updateBufferInternal(WebCore::SharedBuffer®)
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/cache/CachedImage.cpp:495:29

#16 0X7f8bb2f6b768 in WebCore::LoadedImage::updateBuffer(WebCore::SharedBuffer®) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/loader/cache/CachedImage.cpp:557:5

#17 0X7f8bb2eab594 in WebCore::SubresourceLoader::didReceiveDataOrBuffer(char const*, int, WTF::RefPtr<WebCore::SharedBuffer,
WTF::DumbPtrTraits:WebCore::SharedBuffer> >85, long long, WebCore::DataPayloadType) /home/icewall/tools/fuzzing/browsers/webkitgtk-
test/code/Source/WebCore/loader/SubresourceLoader.cpp:537:25
 #18 0x7f8bb2eab88e in WebCore::SubresourceLoader::didReceiveBuffer(WTF::Ref<WebCore::SharedBuffer, WTF::DumbPtrTraits<WebCore::SharedBuffer> >86, long long, WebCore::DataPayloadType) /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/SubresourceLoader.cpp:517:5
  #19 0x7f8bb2e84bf9 in auto WebCore::ResourceLoader::loadDataURL()::$_2::operator()<WTF::Optional<WebCore::DataURLDecoder::Result>): 'lambda'()::operator()() /home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/Source/WebCore/loader/ResourceLoader.cpp:284:23
 #20 0x7f8bb2e8495d in WTF::Detail::CallableWrapper<auto WebCore::ResourceLoader::loadDataURL()::$_2::operator()
<WTF::Optional<WebCore::DataURLDecoder::Result> >(WTF::Optional<WebCore::DataURLDecoder::Result>)::'lambda'(), void>::call()
/home/icewall/tools/fuzzing/browsers/webkitgtk-test/code/build/DerivedSources/ForwardingHeaders/wtf/Function.h:52:39
#21 0x7f8baade665e in WTF::Function<void ()>::operator()() const /home/icewall/tools/fuzzing/browsers/webkitgtk-
#28 0x7f8baadeced4 in std::unique_ptr<WTF::Detail::CallableWrapperBase<void>, std::default_delete<WTF::Detail::CallableWrapperBase<void> > >::~unique_ptr() /usr/bin/../lib/gcc/x86_64-linux-
```

```
gnu/7.5.0/../../include/c++/7.5.0/bits/unique_ptr.h:263:4
     #29 0x7f8baade5234 in WTF::Function
#29 0x7f8baade5234 in WTF::Function
#20 continued in the struction in the str
SUMMARY: AddressSanitizer: heap-use-after-free /usr/bin/../lib/gcc/x86_64-linux-
Addressable: 00
Partially addressable: 01 02 03 04 05 06 07
Heap left redzone: fa
      Freed heap region:
Stack left redzone:
Stack mid redzone:
                                                                                     fd
f1
                                                                                      f2
      Stack mid redzone:
Stack right redzone:
Stack after return:
Stack use after scope:
                                                                                     f3
f5
f8
      Global redzone:
Global init order:
                                                                                       f6
f7
     fc
                                                                                      ac
                                                                                     ca
cb
cc
==46942==ABORTING
-----
```

## Timeline

2020-11-02 - Vendor Disclosure 2020-11-23 - Vendor released patch 2020-11-30 - Public Release

## CREDIT

Discovered by Marcin 'Icewall' Noga of Cisco Talos.

VULNERABILITY REPORTS PREVIOUS REPORT NEXT REPORT

TALOS-2020-1155 TALOS-2020-1185

