RSAConference2019
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HACKING EXPOSED: LIVE
Bypassing ”NextGen”

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Agenda

- Back to the Future hacks
- New ones: Playing in memory and in plain sight
- The BIG BANG in 5 seconds or less…
- What can I do???

Where do these come from?

- Real-world customers who hired Cylance Professional Services
- Discovered “in-the-wild” attacks that bypassed Next Gen
  - Reverse engineered how those attacks bypassed
- Tracking on researchers dedicated to bypasses
  - Developed tools and techniques using available tech
- No product naming and shaming … just education

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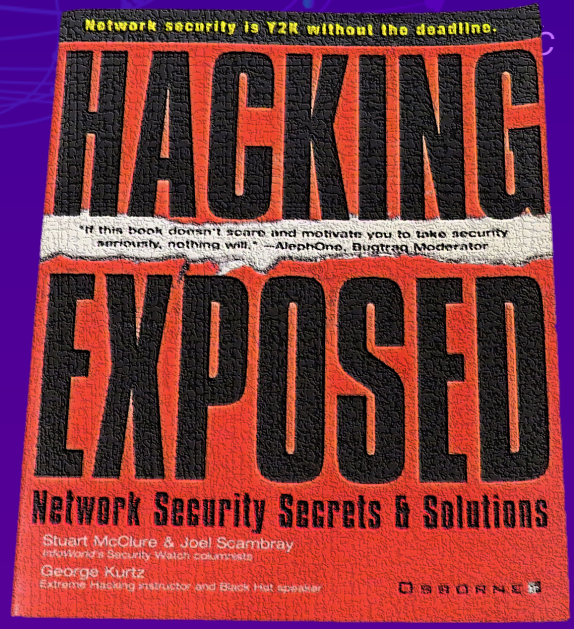
The “Simple” Methods

“Back to the Basics”



Flashback: Hacking Exposed - 1st Edition

1. File Pumping and Binary Padding
   - Performance or cloud upload not available
2. DLL Hijacking/Side Loading
   - Trusted execution – replace legitimate DLL with malicious code
   - Direct execution – RunDLL32
3. Command obfuscation or simply copying/renaming PowerShell
4. Unhooking
5. No “cloud” == BYPASS!

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THE NEW “FUN” METHODS

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FUN WITH MEMORY

DEMO TIME!

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HIDING IN PLAIN SIGHT

DEMO TIME!

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MORE FUN IN MEMORY

DEMO TIME!

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THE ”BIG BANG” IN LESS THAN 5 SECONDS

DEMO TIME!

What can we do???

- Least privileged access to very powerful tools
- Continued education around dangers of attachments
- Do not rely on “white-listing”
- Use GPOs to enforce policies around DDE and Macros
- Signing approved internal scripts
- Do not rely on the “cloud”

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THANK YOU!