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 IOS SHELLCODE: ALL-
 IN-ONE Subsystems def
 create_subsystems(nam
 e='subsystem_'): for
 seg in
 get_data_segment():
 for ea in
 search(start=seg.start
 EA, end=seg.endEA,
 paern ='C1 5C 05 15
 C1 5C 05 15'): # it
 uses FindBinary
 p_name, p_func,
 sysclass = Dword(ea +
 0x14), Dword(ea +
 0x24), Dword(ea +
 0x28) CISCO IOS
 SHELLCODE: ALL-IN-
 ONE - ZeroNightsWhy
 Investigate IOS • Very
 little is known about
 the tools/techniques
 used by Lynn to create
 IOS based shell codes •
 IOS security is often
 overlooked in favor of

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by John K. Ousterhout, Berkeley, 1980s
<http://www.tcl.tk> • Interpreted Language, runtime available for many platforms (socket, files, regexp, list, etc.) • Tcl has been included in Cisco IOS as a generic scripting language since 2003 (Release 12.3(2)T) • In IOS, Tcl is extended by special commands: `exec` - executes an IOS shell command `ios_config` - changes configuration type `ahead` - emulates a user input etc. • Tcl ...Cisco IOS shellcode: All-in-one - SlideShare themselves. Instead he made a point about cisco IOS, namely: 1. You get one Cisco BGP internet router, it has a route to all other routers and therefore a path to the entire network, not one system (OK, you knew

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CISCO IOS SHELLCODE:

ALL-IN-ONE

Subsystems def

create_subsystems(name='subsystem_'): for seg in

get_data_segment():

for ea in

search(start=seg.start

EA, end=seg.endEA,

paern='C1 5C 05 15

C1 5C 05 15'): # it

uses FindBinary

p_name, p_func,

sysclass = Dword(ea +

0x14), Dword(ea +

0x24), Dword(ea +

0x28)

GitHub -

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All In One

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CISCO IOS SHELLCODE:

ALL-IN-ONE Tool

Command Language •

Invented by John K.

Ousterhout, Berkeley,

1980s <http://www.tcl.tk>

• Interpreted

Language, runtime

available for many

platforms (socket, files,

regex, list, etc.) • Tcl

has been included in

Cisco IOS as a generic

scripting language

since 2003 (Release

12.3(2)T) • In IOS, Tcl

is extended by special

commands: exec -

executes an IOS shell

command ios_config -

changes configuration

typeahead - emulates

a user input etc. • Tcl

...

Cisco IOS - Remote

Code Execution -

Hardware remote

Exploit

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flaw researcher - CNET

Notes on the vulnerability and the talk, "The Holy Grail: Cisco IOS Shellcode and Remote Execution," were removed from the conference proceedings, leaving a gap in the thick book. *Cisco IOS Shellcodes - Black Hat*
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 IOS Basics Monolithic No loadable modules (yet) All addresses are static All addresses are different per build Real

Time OS If you are running you own the CPU (mostly) We have to exit or yield properly or we will crash Once our code is running we have won any race Stability IOS tends to favor rebooting over correcting errors *Cisco IOS Scripting with TCL Configuration Guide, Cisco ...* as this one. Merely said, the cisco ios shellcode all in one zeronights 2017 is universally compatible later than any devices to read. Books Pics is a cool site that allows you to download fresh books and magazines for free. Even though it has a premium version for faster and unlimited download speeds, the free version does pretty well too.

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Announcement

Regarding Non-Cisco Product Security Alerts

> "Cisco Internetwork Operating System (IOS) Software is vulnerable to a > Denial of Service (DoS) and potentially an arbitrary code execution > attack from a specifically crafted IPv6 packet." being that we'll all be retired and all this equipment replaced by the time IPv6 becomes standard the threat is not as great then as it was first

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Why Investigate IOS • Very little is known about the tools/techniques used by Lynn to create IOS based shell codes • IOS security is often overlooked in favor of OS/Host based security • To demonstrate and reiterate that Cisco shell codes are possible and not difficult to write • To identify mitigating factors for any issues or loop holes

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