
SEED SECURITY LABS

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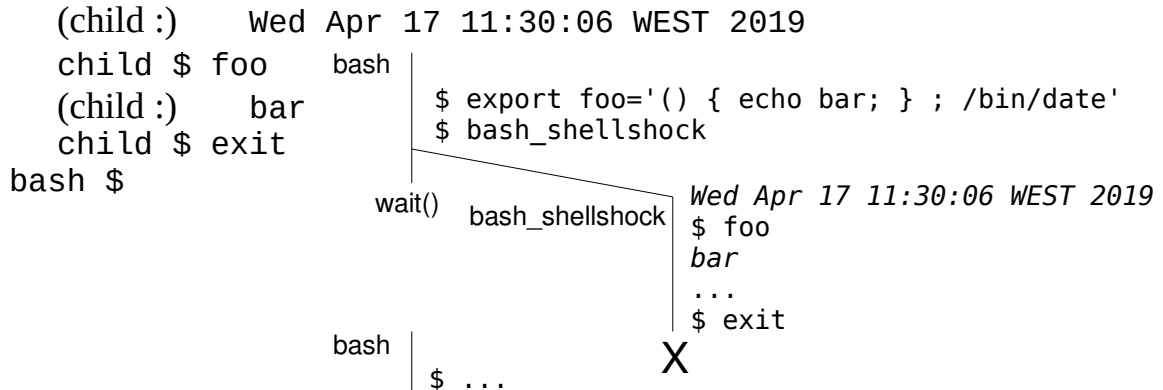
Experimenting with Web Server ([6](#))

Shellshock Attack Lab

Vulnerability

- Classic Bash allowed the "conversion" of environment vars (of potential functions) to functions when a new shell was born! But, did it incorrectly! E.g.:

- bash \$ export foo='() { echo bar; } ; /bin/date'
- bash \$ classic_bash



...Vulnerability (cont.)

- Current Bash terminated that type of "creation" of functions. E.g.:

- bash \$ export foo2='() { echo bar2; } ; /bin/date'

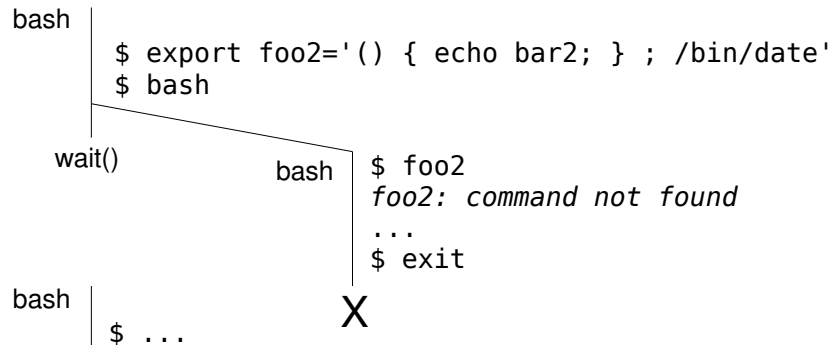
- bash \$ current_bash

 - child \$ foo2

 - (child:) foo2: command not found

 - child \$ exit

- bash \$



...Vulnerability (cont.)

- Current Bash, now, only deals with "normal" function definition. E.g.:

- `bash $ foo3 () { echo bar3; } ; export -f foo3`

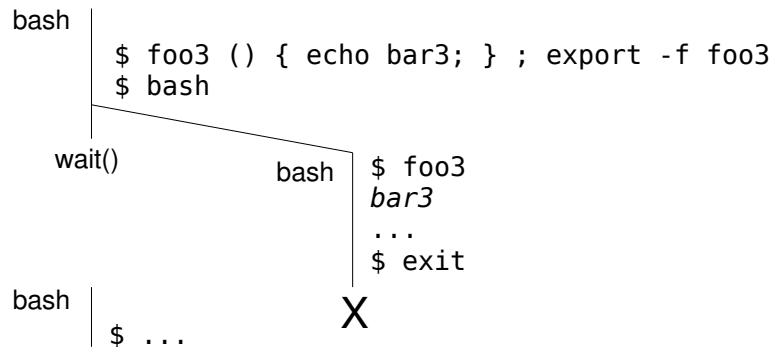
- `bash $ current_bash`

- `child $ foo3`

- `(child:) bar3`

- `child $ exit`

- `bash $`

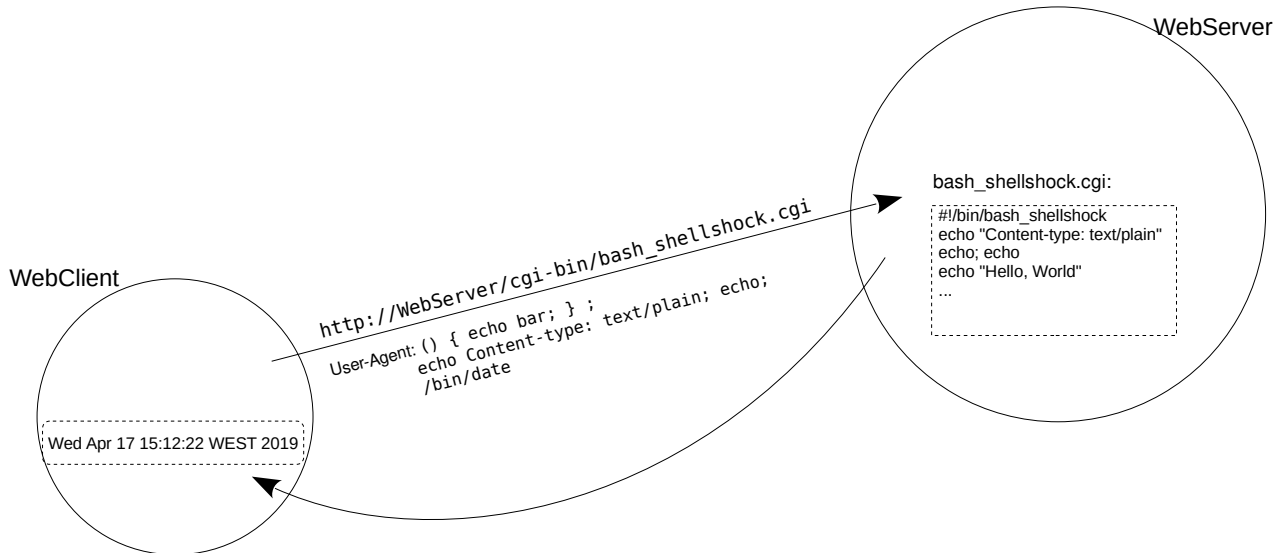


Software bug

- [CVE-2014-6271 Detail](#)
 - the initial report
 - many followed, as patch was not correct and related bugs were found
 - [CVE-2014-7169 Detail](#)
- [Wikipedia: Shellshock \(software bug\)](#)
 - the general view
- [StackExchange: Where is Bash Shellshock vulnerability in source code?](#)
 - a reasonable pointer to bug spot in source code

Experimenting with Web Server

- With CGI enabled on web server



...Experimenting with Web Server (cont.)

- With CGI and reverse shell (netcat)

