

RoyalTS SSH Tunnel Authentication Bypass

Authored by Michele Toccagni

Posted Jun 9, 2020

RoyalTS SSH Tunnel versions prior to 5 for Windows suffer from an authentication bypass vulnerability.

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RoyalTS SSH Tunnel - Authentication Bypass

Identifiers

* CVE-2020-13872

CVSSv3 score

8.8 - [AV:A/AC:L/PR:N/UI:N/S:C/C:H/I:L/A:L] (https://nvd.nist.gov/vuln-metrics/cvss/v3-calculator?vector=AV:A/AC:L/PR:N/UI:N/S:C/C:H/I:L/A:L&version=3.1)

Vendor

RoyalApps - https://www.royalapps.com/

Product

Royal TS provides powerful, easy and secure access to your remote systems. It's the perfect tool for server admins, system engineers, developers and IT focused information workers who constantly need to access remote systems with different protocols (like RDP, VNC, SSH, HTTP/S, and many more.).

Affected versions

* All versions prior to RoyalTS v5 for Windows.

Credit

Michele Toccagni - toccagni.info

Vulnerability summary

This vulnerability allows a remote attackers to bypass the authentication of the tunnel and gain access to an internal network. The problem is that, once a SSH tunnel is created on the bridge host with a Secure Gateway, this tunnel will listen on the address 0.0.0.0 on the port opened ad hoc by RoyalTS (higher than 50000), leaving the possibility for anyone to exploit the tunnel without having to authenticate to it. The attacker could easily bruteforce the ssh/rdp login in the internal network, or, even worse, if the hosts aren't patched, could use some known exploits and perform lateral movements. The vulnerability is fixed in the current major release (Royal TS V5).

Proof of concept

I wrote a detailed blog post to explain the bug: https://hacktips.it/royalts-ssh-tunnel-authentication-bypass/

Solution

Upgrade to RoyalTS V5 for Windows

Timeline

Date	Status
04-JUN-2020	Reported to vendor
04-JUN-2020	Vendor replied that it's a known bug and it's fixed on the last major version
06-JUN-2020	CVE assigned
08-JUN-2020	Public disclosure

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Older

Systems

AIX (426)

Apple (1,926)

BSD (370)

CentOS (55)

Cisco (1,917)

Debian (6,634)

Fedora (1,690)

FreeBSD (1,242)

Gentoo (4,272)

HPUX (878)

iOS (330)

iPhone (108)

IRIX (220)

Juniper (67)

Linux (44,315)

Mac OS X (684)

Mandriva (3,105)

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Other



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