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## TP-LINK Cloud Cameras NCXXX SetEncryptKey Command Injection

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TP-LINK Cloud Cameras including products NC260 and NC450 suffer from a command injection vulnerability. The  $issue\ is\ located\ in\ the\ httpSetEncryptKeyRpm\ method\ (handler\ for\ /setEncryptKey.fcgi)\ of\ the\ ipcamera\ binary,\ where$ the user-controlled EncryptKey parameter is used directly as part of a command line to be executed as root without any input sanitization.

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Change Mirror Download Vulnerability title: TP-LINK Cloud Cameras NCXXX SetEncryptKey Command Injection Author: Pietro Oliva Author: Pretro Oliva CVB: CVB-200-1211 Vendor: TP-LINX Product: NC260, NC450 Affected version: NC260 <- 1.5.2 build 200304, NC450 <- 1.5.3 build 200304 Pixed version: NC260 <- 1.5.3 build 200401, NC450 <- 1.5.4 build 200401 Description:
The issue is located in the httpSetEncryptKeyRpm method (handler for /setEncryptKeyf.cgi) of the ipcamera binary, where the user-controlled EncryptKey parameter is used directly as part of a command line to be executed as root without any input sanitization. Impact: Attackers could exploit this vulnerability to remotely execute commands as root on affected devices. Exploitation:
An attacker would first need to authenticate to the web interface and make a POST request to /setEncryptKey.fcgi. Commands to be executed with root privileges can be injected in the EncryptKey parameter. Evidence: The disassembly of affected code from an NC450 camera is shown below: httpSetEncryptKeyRpm: 0x00491728 lw a0, -0x7fd4(gp) 0x00491728 lw a0, -0xffd4(gp)
0x00491726 ncp
0x00491730 addiu a0, a0, 0x3344 ; "echo %s > %s/808X"
0x00491734 lw a1, (EncryptRey param) ; Attacker controlled string
0x00491738 lw a2, -0xffd4(gp)
0x00491740 addiu a2, a2, 0x33330 ; 0x583330 ; "/tmp/.encryptke
0x00491741 lw a3, -0x7fe8(gp)
0x00491748 ncp
0x00491748 lw a2, a2, 0x1610
0x00491749 lw a3, a3, -0xf10
0x00491754 lw t9, -sym.cmCcmmand(gp)
0x00491756 jglr t9 ; 0x583330 ; "/tmp/.encryptkey/" Remediation: Install firmware updates provided by the vendor to fix the vulnerability. The latest updates can be found at the following URLs: https://www.tp-link.com/en/support/download/nc20/ffirmware https://www.tp-link.com/en/support/download/nc20/ffirmware https://www.tp-link.com/en/support/download/nc20/ffirmware https://www.tp-link.com/en/support/download/nc20/ffirmware https://www.tp-link.com/en/support/download/nc20/ffirmware https://www.tp-link.com/en/support/download/nc20/ffirmware https://www.tp-link.com/en/support/download/nc20/ffirmware https://www.tp-link.com/en/support/download/nc20/ffirmware Disclosure timeline:
29th March 2020 - Vulnerability reported to vendor.
27th April 2020 - Patched firmware provided by vendor for verification.
27th April 2020 - Confirmed the vulnerability was fixed.
27th April 2020 - Firmware updates released to the public.
29th April 2020 - Vulnerability details are made public.

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