Summary

There is a credential hard-coding vulnerability in the TB-LINK WR450D_28AE5_D-Open(V1.01)_TFTP device. An attacker can obtain the password by combining the md5 hash stored in the etc/passwd file in the firmware with hashcat brute force.

Manufacturer's official website: https://www.lb-link.com/

Firmware download address: https://www.lb-link.com/Upgrade-Software-dc212882.html

Details

Download the firmware, unzip the ulmage with binwalk -Me, and view the etc/shadow file:

```
iot@iot-virtual-machine:~/Desktop/IoT/_uImage.extracted/squashfs-root$ cat
etc/shadow root:$1$$J5L$TDn$xtmlqmpxDeKFfyugLM6.E.:18380:0:99999:7:::
CMCCAdmin:$1$$J5L$TDn$xtmlqmpxDeKFfyugLM6.E.:18380:0:99999:7:::
user:$1$$J5L$TDn$xtmlqmpxDeKFfyugLM6.E.:18380:0: 99999:7:::
daemon:*:0:0:99999:7:::
ftp:*:0:0:99999:7:::
network:*:0:0:999999:7:::
nobody:*:0:0:999999:7:::
```

Use hashcat to blast \$1\$sJ5LSTDn\$xtmlqmpxDeKFfyugLM6.E.:

```
hashcat -m 500 -a 0 hash.txt ~/Desktop/rockyou.txt
```

The password is: admin

Discoverer

https://github.com/N0zoM1z0/