

"Never Steg a Sleeping Moose"

20 teams this year!

As of Noon

Team FDG

Three Blind Mice

uhthatone

hammer brothers

Dark Arts of Data Concealment

flippers.jpg

Stage Prizes:

1: Hammer Brothers

2: Three Blind Mice

3:

4: uhthatone

5:

Actively played

> Thanks for registering!



Hit It And Quidditch

Definitely Not Two
Raccoons In A
Trenchcoat

Babint_is_best

Slyther-out

PS1 Hagrid

Psyberducks

Grace & Alan

That Guy D4ve

SecSeaMussels

YourMomsAHorcrux

NoodleBowl

scriptohio

ThiefD_{*}ZN

Casual Puzzle Solvers

Stage 1: STONE Layered QR Codes, with GeolP foo

- Each contest poster has a different
 QR code, <u>overtly</u> pointing to a
 dynamic URL to a LufCo site
- By changing light gray to black and dark gray to white, covert QR and URL are uncovered
- When attempted from a US IP, points to LufCo's website; use a VPN outside the US points to the next contest page





Stage 2: WAND Container is your wand, but hosts an STL

- Website points to DockerHub-hosted "wand" container, with script on the GitHub site to use it
- Wand shell script activates functions in the container, though the container has the payload needed for this stage
- Shmoo.stl, found after some directory crawling, has embedded "sun dial" stating TXT 83 32 61 92 63

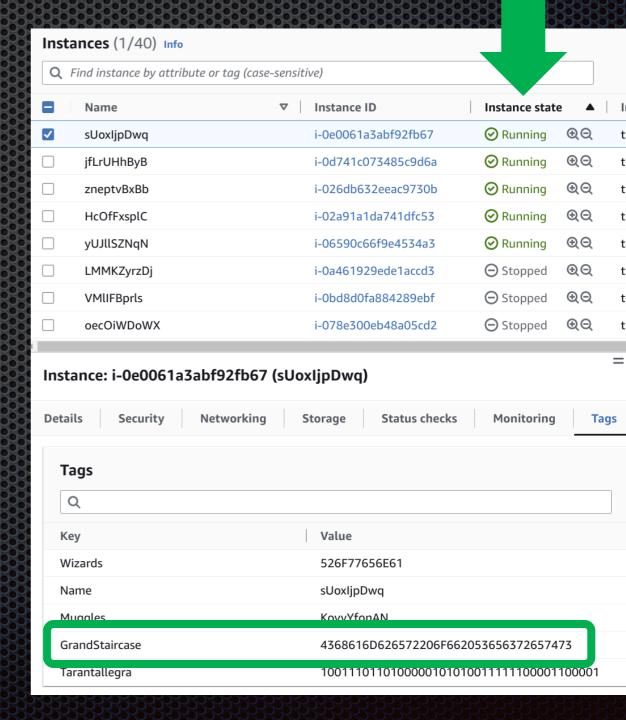
Also, "WAND" on a dial pad...

Real sundial project that we pilfered: https://www.thingiverse.com/thing:1068443

Stage 3: CLOAK Most unreliable AWS stack

ASCII characters emerge from each (ordered) state – on or off

- 8 AWS instances carefully starting and stopping over the course of 15 minutes
- Instances are managed by Lambdas, executed by CloudWatch every minute
 - 1 "all-on" state
 - 8 "ASCII" states: spelling WANDSOul
 - 1 "all-off" state
- GrandStaircase tag is used to order the instances, keyed by the book/movie names

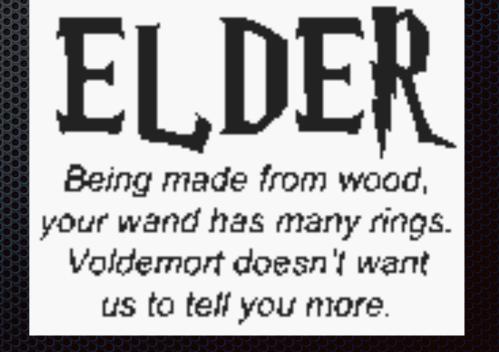


Stage 4: ELDER RTP stream of Hedwig's Theme, with magical option data

No.	Time	Source	Destination	Protocol	Length	Info
← 2	0.011998	172.20.10.3	224.2.127.254	SAP/SDP	296	Announcement (v1)
3 (0.011998	127.0.0.1	127.0.0.1	RTCP	88	Sender Report Source description
4	0.012998	127.0.0.1	127.0.0.1	MPEG TS	1364	PT=MPEG-II transport streams, SSRC=0xEA8028
5 (0.014997	127.0.0.1	127.0.0.1	MPEG TS	1364	Audio Layer 3, 160 kb/s, 44.1 kHz [MP2T fra

- Music is streamed, but not hiding any information (this year)
- Inspecting the often-overlooked Overflow field in the IP header reveals a GIF, one nibble at a time

0011 = Overflow: 3



Stage 5: RESURRECTION Docker layering

Take container received in Stage 2, unpacking it to reveal internal layers

```
docker pull ${IMAGE}:${PHASE12TAG}

mkdir validate
docker save -o validate/phase12-4A4B.mod.tar ${IMAGE}:${PHASE12TAG}
tar -xvf phase12-4A4B.mod.tar
```

/opt/dev/workspaces/github/hckeyguy33/shmooganography/2023/docker/shmooganography2023/validate\$ docker save -o test.tar hckeyguy33 hy2023:wand

/opt/dev/workspaces/github/hckeyguy33/shmooganography/2023/docker/shmooganography2023/validate\$ tar -xvf test.tar | grep 538.json 9fdd6c648b3ded296325ae7f6a83534b84afe0b4f57d56f<mark>538.json</mark>

Space after comma is 1, no space is 0.

ead5a1990f9bf86eadafcb463920", "sha256:6c72ac497917fc261b4cd9b1f7ec9003405fbc70e5f3bf33ac", "sha256:17ef16853906cb7943eedb67d753ab6c7492769b9706117885", "sha256:712a7a8763188b5bfb68e2db29978b4220bcc19bf60b3a59df", "sha256:ad65b013ecba06a381d0dd300e54eef22179495af6c40677e6c", "sha2564d4d3b62c882944c06290fe5fc67388cf9960dede89d60711a9a", "

Code words are The Deathly Hallows!

STONE WAND CLOAK RESURRECTION

Very Special Thanks



for their generous sponsorship, covering our expenses, materials, shirts, and prize!

Special Thanks

- Warner Brothers overlords, for not suing us (yet)
- No Starch Press, for donating ebook gift certificates
- Not Just Signs, for super last-minute sign-printing
- Rob, for swooping in to bring fresh steg ideas for 2023
- Linkly, ClickSend, AWS, and ScaPy tools & services
- Our Wives & Bosses, for permitting our annual hiatus
- Heidi & Bruce, for tolerating our endless shenanigans
 - And all of the Shmoo staff who play and help us
- You, for playing and providing feedback for 16 years!

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Presentation will be available on the contest website soon.

T-Shirts *may* available for sale, so email us if interested!