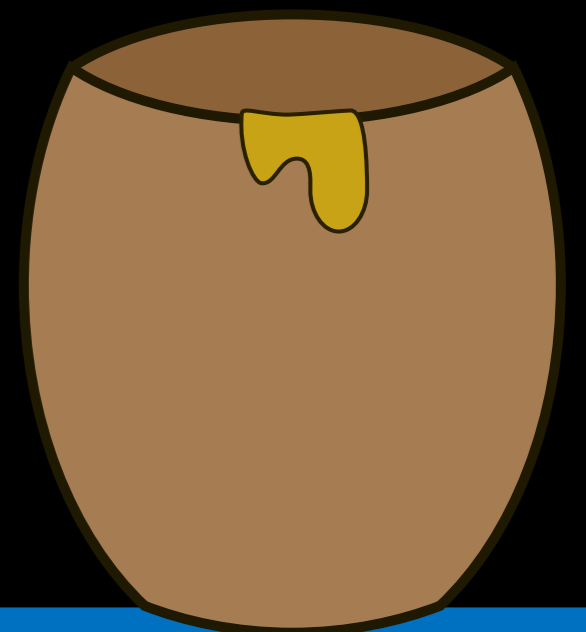
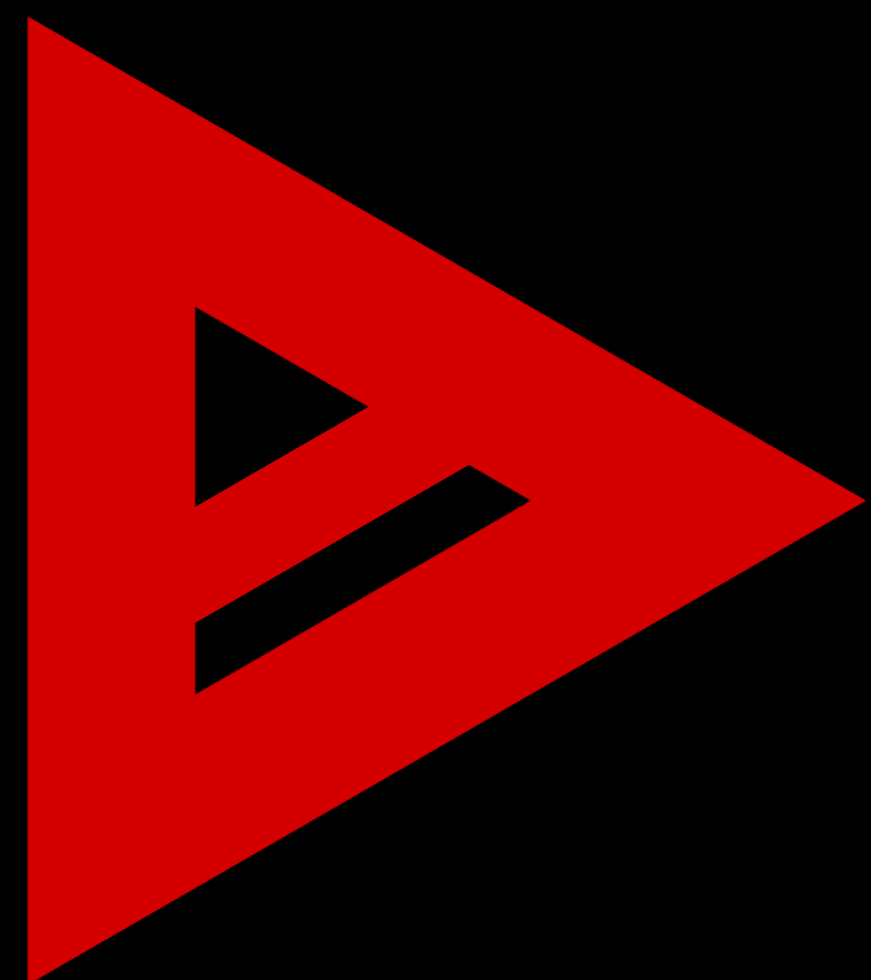
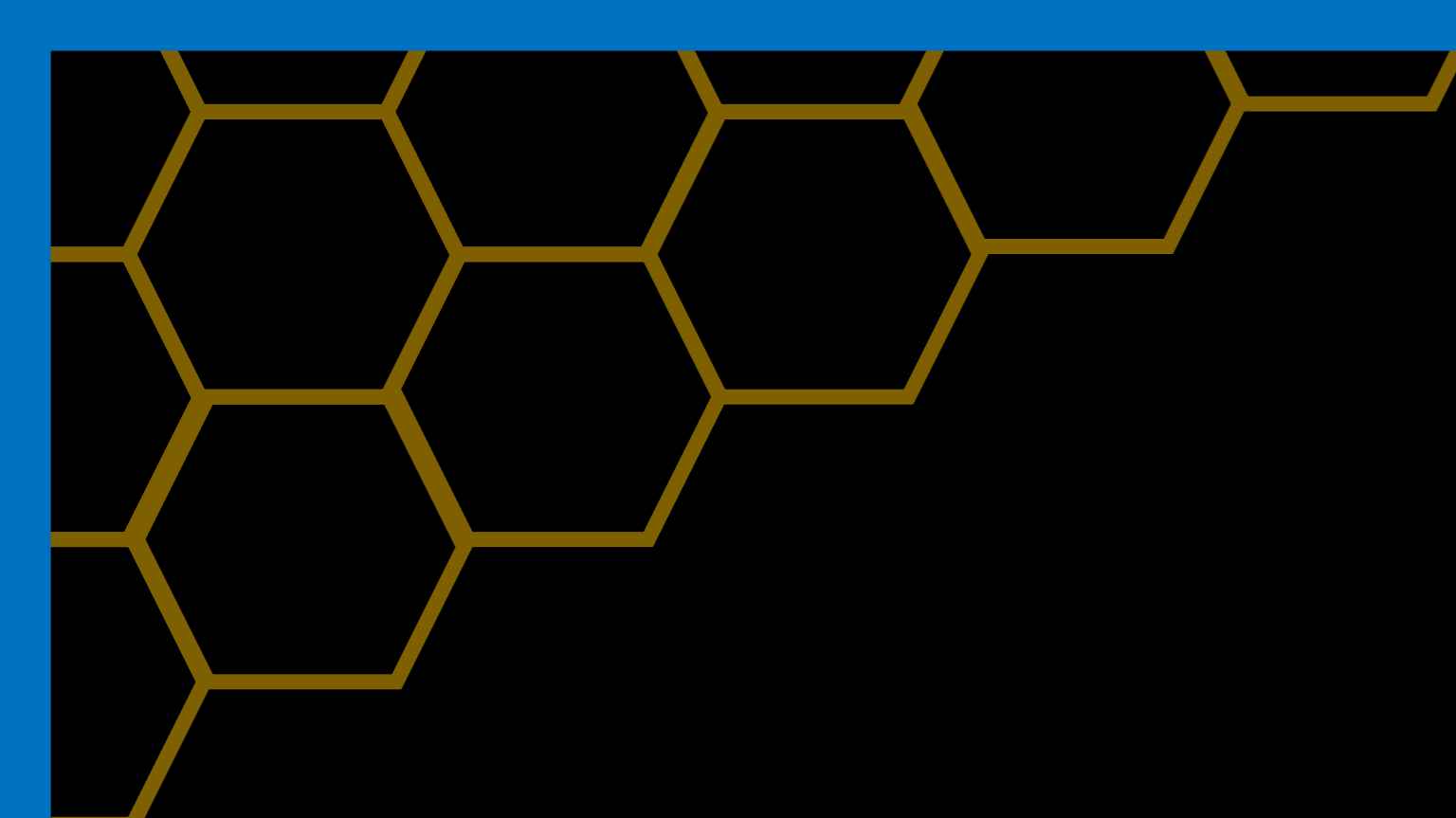


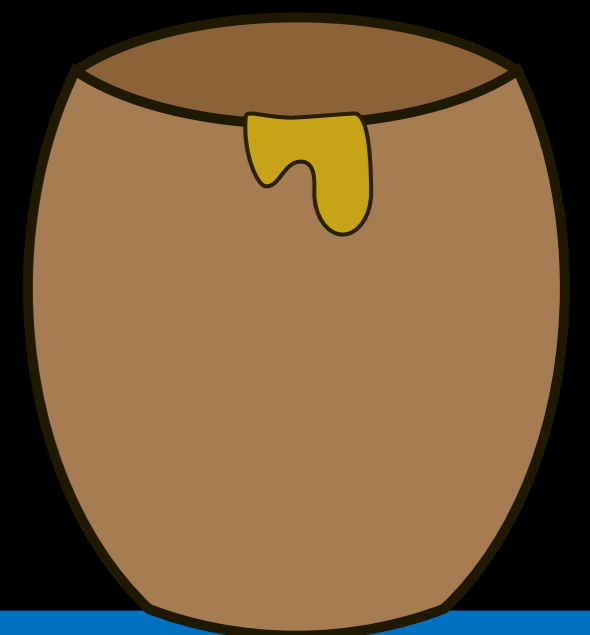


Watch the
Asciinema Replay
of Your
Home-Made Honeyypot





asciinema





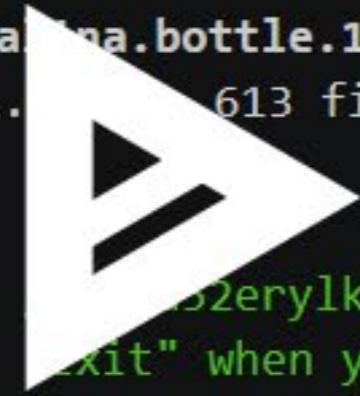
Record and share your terminal sessions, the right way.

Forget screen recording apps and blurry video. Enjoy a lightweight, purely text-based approach to terminal recording.

Start Recording

Supports Linux, macOS and *BSD

```
> brew install asciinema
==> Downloading https://homebrew.bintray.com/bottles/asciinema-2.0.2_2.catalina.bottle.1.tar.gz
==> Downloading from https://akamai.bintray.com/4a/4ac59de631594cea60621b45d85214e39a90a0ba8ddf4eeec5cba34bd6145711
##### 100.0%
==> Pouring asciinema-2.0.2_2.catalina.bottle.1.tar.gz
🍺 /usr/local/Cellar/asciinema/2.0.2: 613 files, 6.4MB
> # Now start recording
> asciinema rec
asciinema: recording asciicast to /Users/rylke/.asciinema/asciinema-52erylk-ascii.cast
asciinema: press <ctrl-d> or type "exit" when you're done
bash-3.2$ # I am in a new shell instance which is being recorded now
bash-3.2$ sha1sum /etc/f* | tail -n 10 | lolcat -F 0.3
da39a3ee5e6b4b0d3255bfe95601890afd80709 /etc/find.codes
88dd3ea7ffcbb910fbd1d921811817d935310b34 /etc/fstab.hd
442a5bc4174a8f4d6ef8d5ae5da9251ebb6ab455 /etc/ftpd.conf
442a5bc4174a8f4d6ef8d5ae5da9251ebb6ab455 /etc/ftpd.conf.default
d3e5fb0c582645e60f8a13802be0c909a3f9e4d7 /etc/ftusers
```



asciinema [[as-kee-nuh-muh](#)] is a free and open source solution for recording terminal sessions and sharing them on the web. Read about [how it works](#).

Simple recording

Copy & paste

Embedding

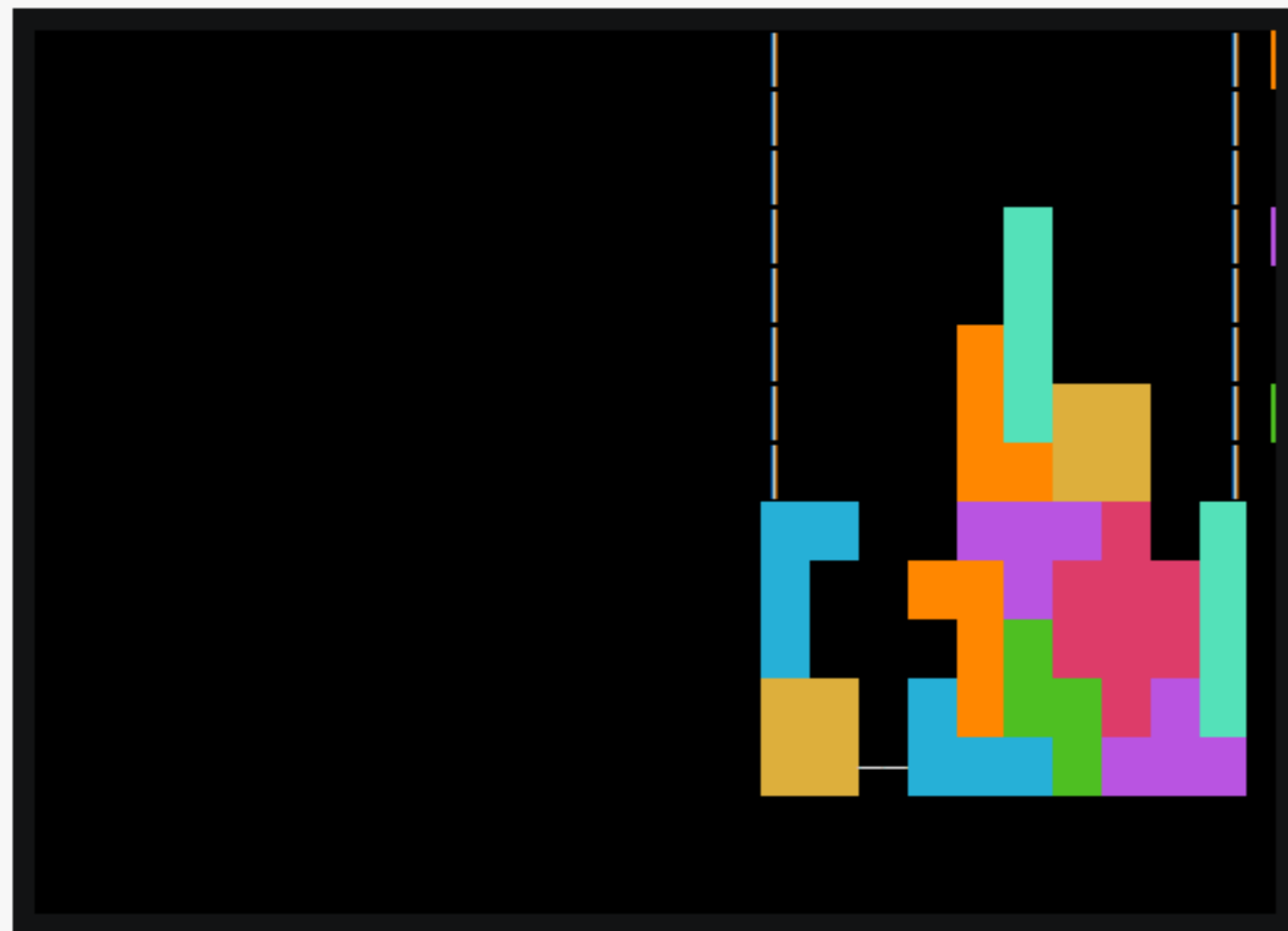
```
$ asciinema rec
asciinema: recording asciicast to /tmp/tmp2haimar6-ascii.cast
asciinema: press <ctrl-d> or type "exit" when you're done
$ echo -e "Hello FOSDEM\e[35m'21\e[0!"
Hello FOSDEM'21
$ exit
asciinema: recording finished
asciinema: press <enter> to upload to asciinema.org, <ctrl-c> to save locally
```

View the recording at:

<https://asciinema.org/a/XSypCU7I\SWGF\VyMPP90CoSE>

<https://asciinema.org/a/386266>


Example sessions recorded with asciinema

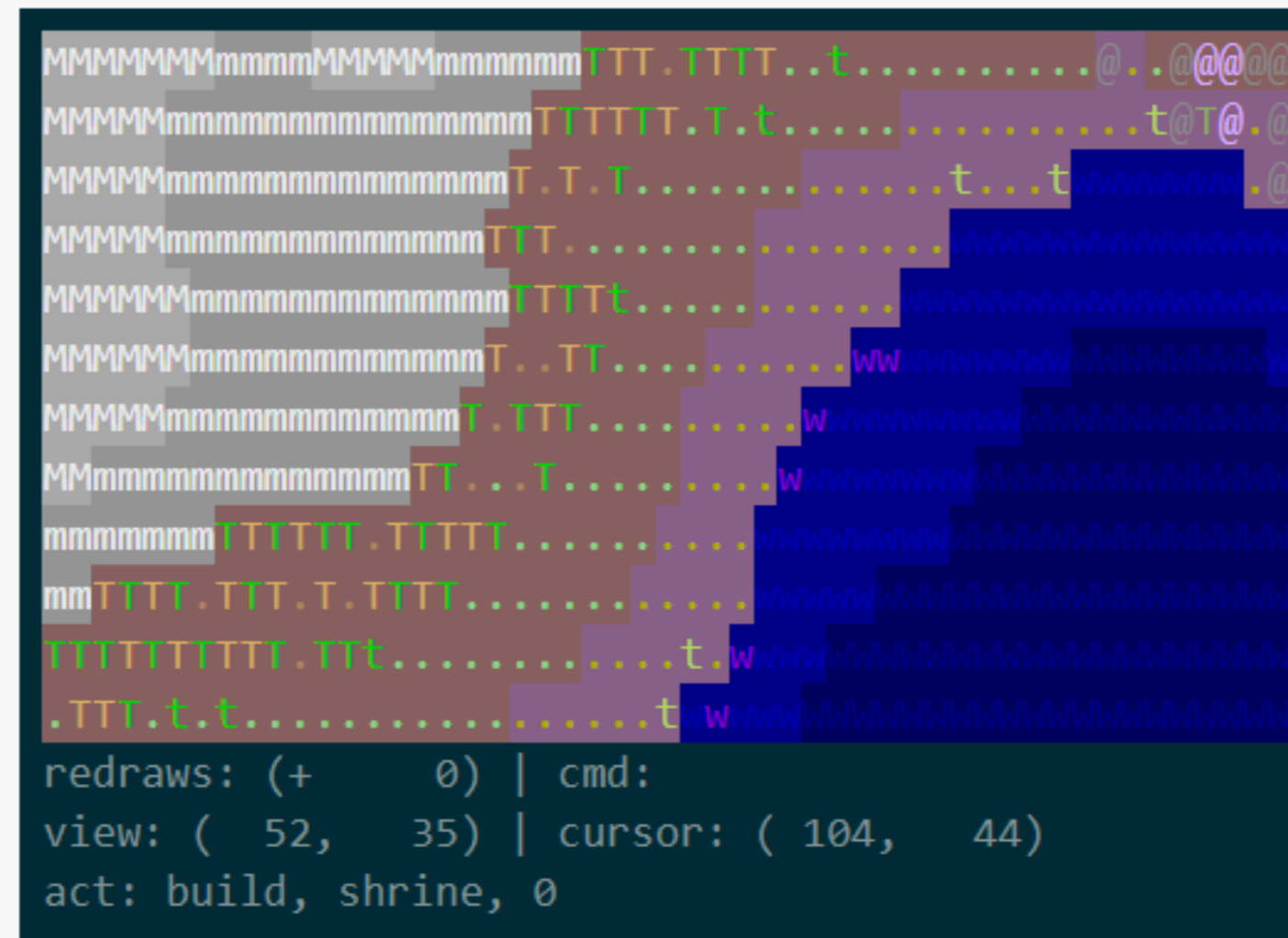


term-tris dt cannon

featured

01:04


 by mat44

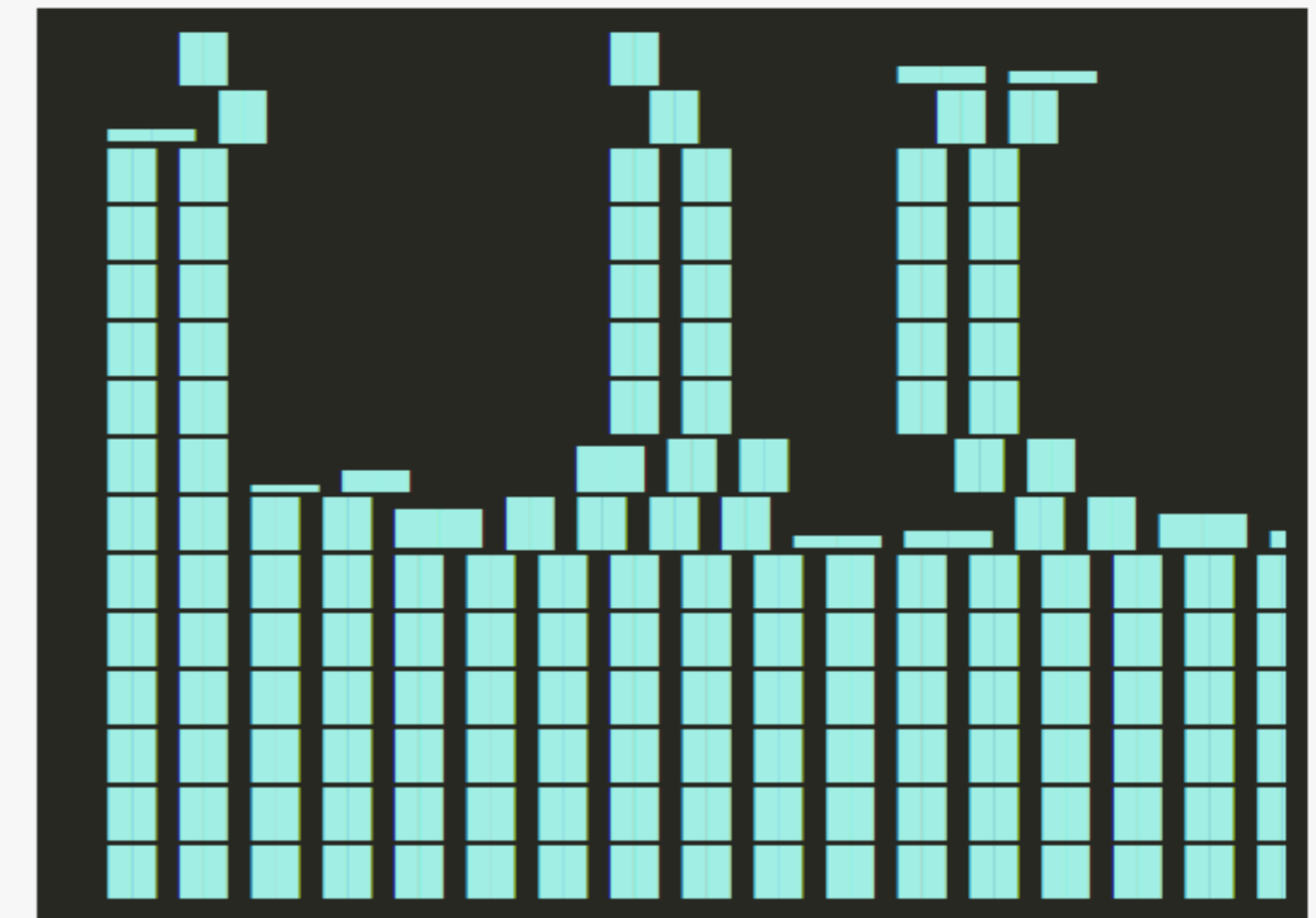


asciicast:326923

featured

04:01


 by lattis

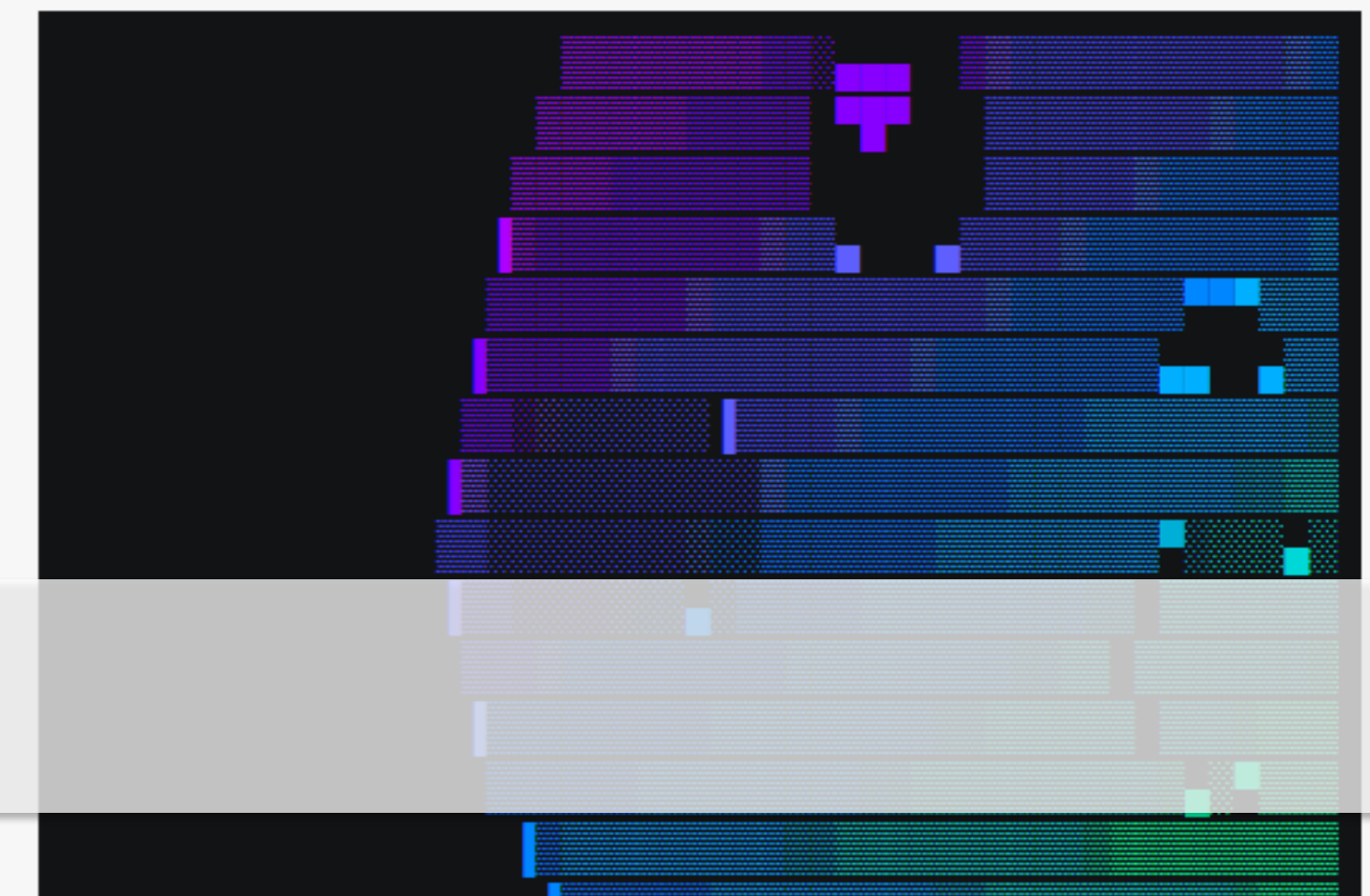
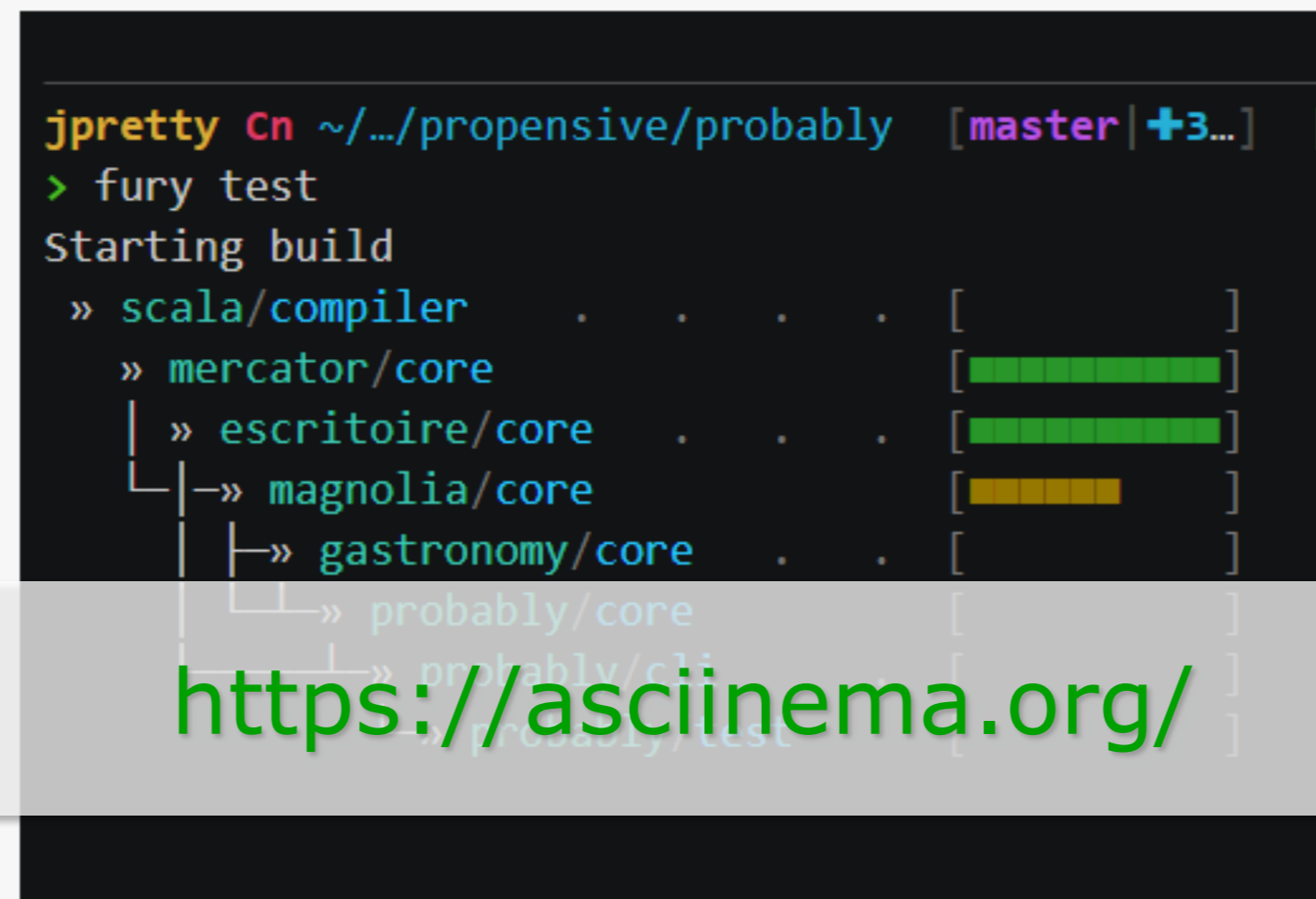
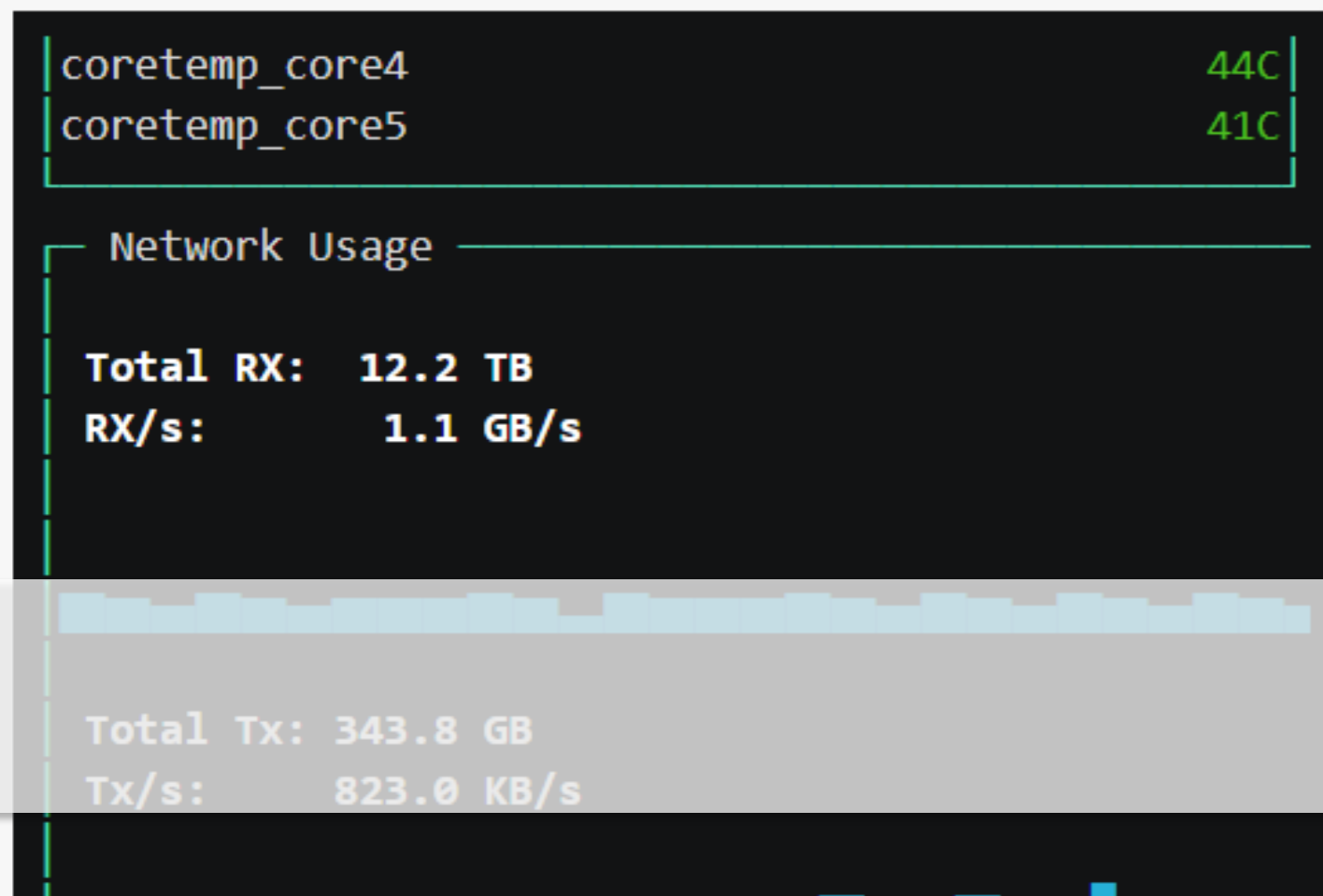


cava - alacritty

featured

00:37

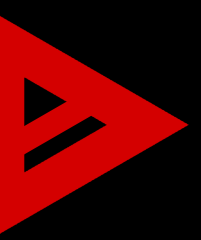
 by fparrav





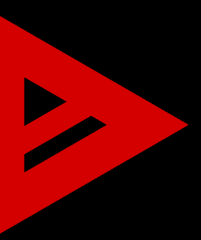
asciicast v2 format

```
{  
  "version": 2,  
  "width": 80,  
  "height": 25,  
  "timestamp": 1504467315,  
  "title": "Demo",  
  "env": {  
    "TERM": "xterm-256color",  
    "SHELL": "/bin/zsh"  
  }  
}
```



asciicast v2 format

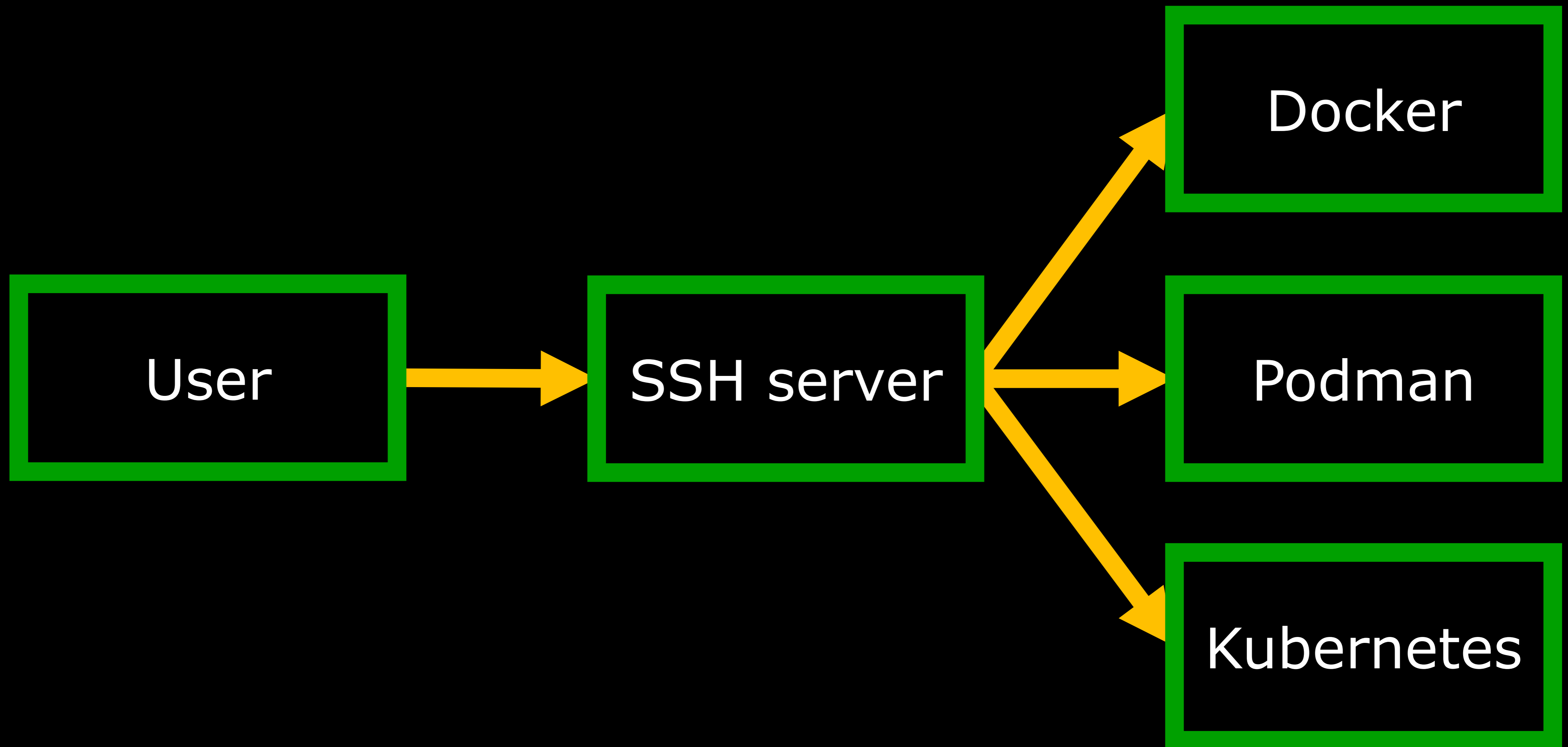
```
[  
  0.248848,  
  "o",  
  "\u001b[1;31mHello \u001b[32mWorld!\u001b[0m\n"  
]
```



[https://github.com/ContainerSSH/auditlog/
blob/main/codecs/asciinema/format.go](https://github.com/ContainerSSH/auditlog/blob/main/codecs/asciinema/format.go)

```
# docker run -ti ubuntu
```

```
root@be6b26af45f1:/# echo "Hello world!"
```

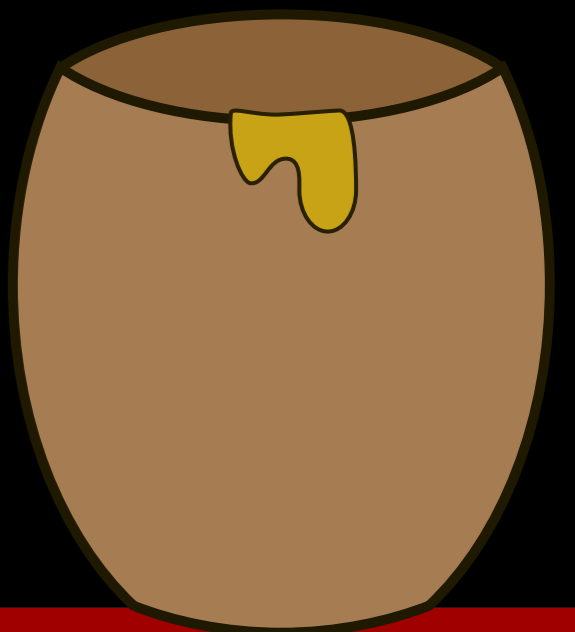




DON'T

*** TRY THIS ***

AT HOME

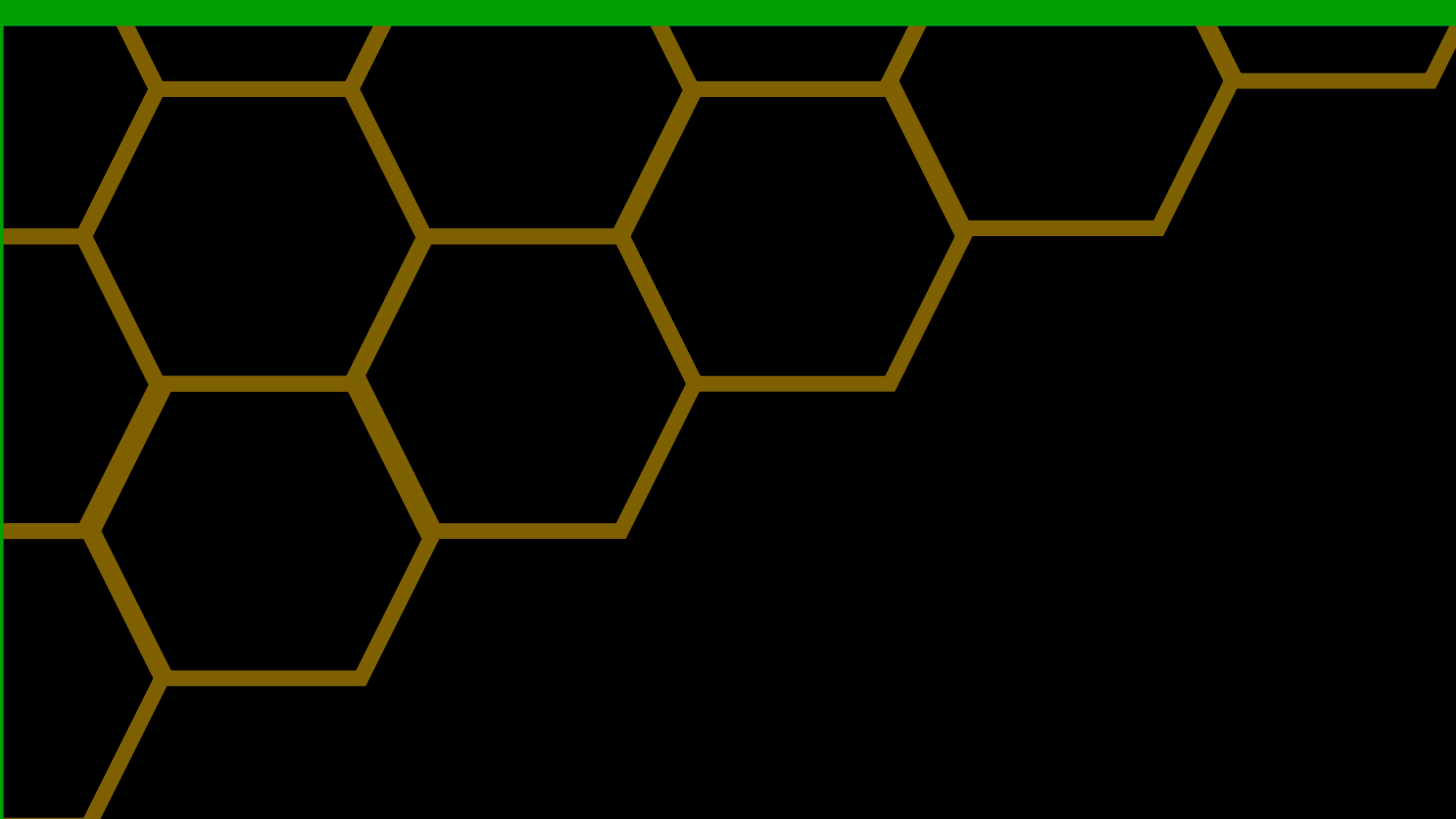


/etc/ssh/sshd_config:

ForceCommand /usr/bin/docker run -ti ubuntu

/etc/ssh/sshd_config:

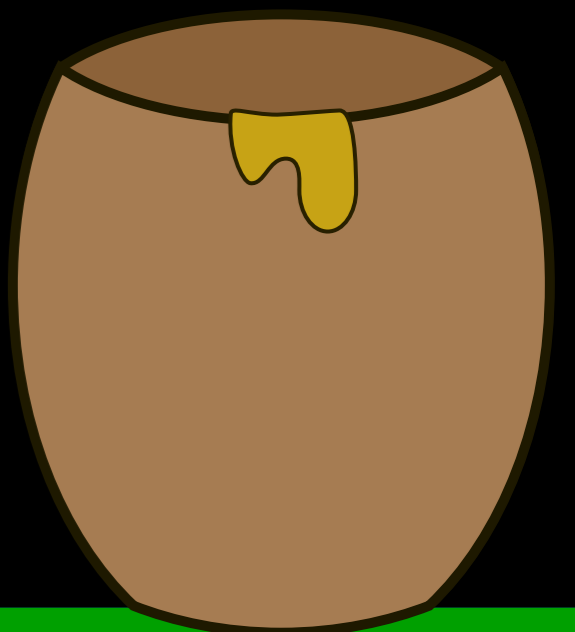
```
ForceCommand /usr/bin/asciinema rec /tmp/ssh.cast -c  
"/usr/bin/docker run -ti ubuntu"
```

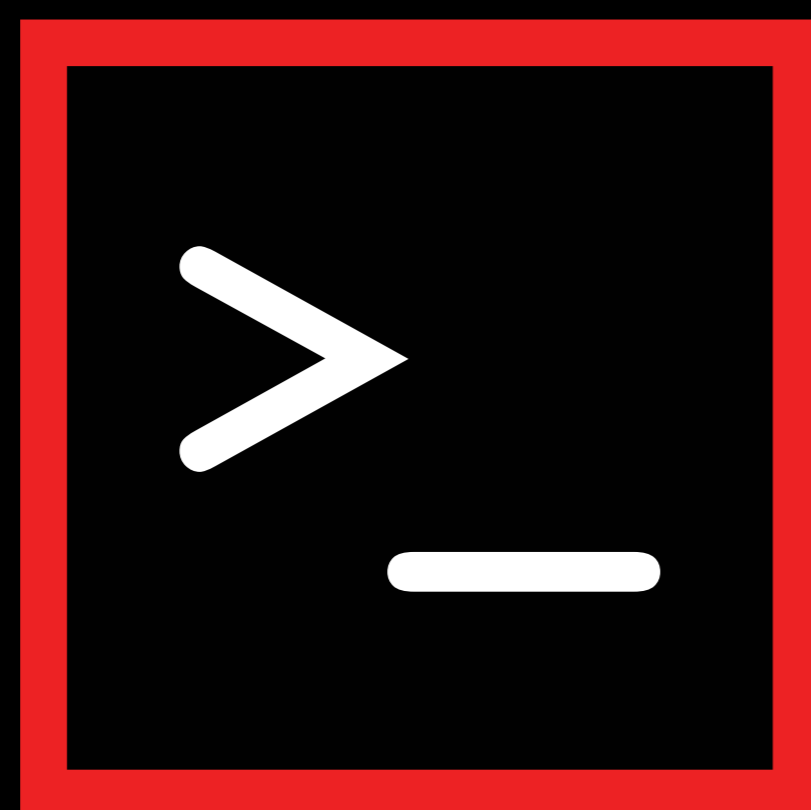


DO

*** TRY THIS ***

AT HOME

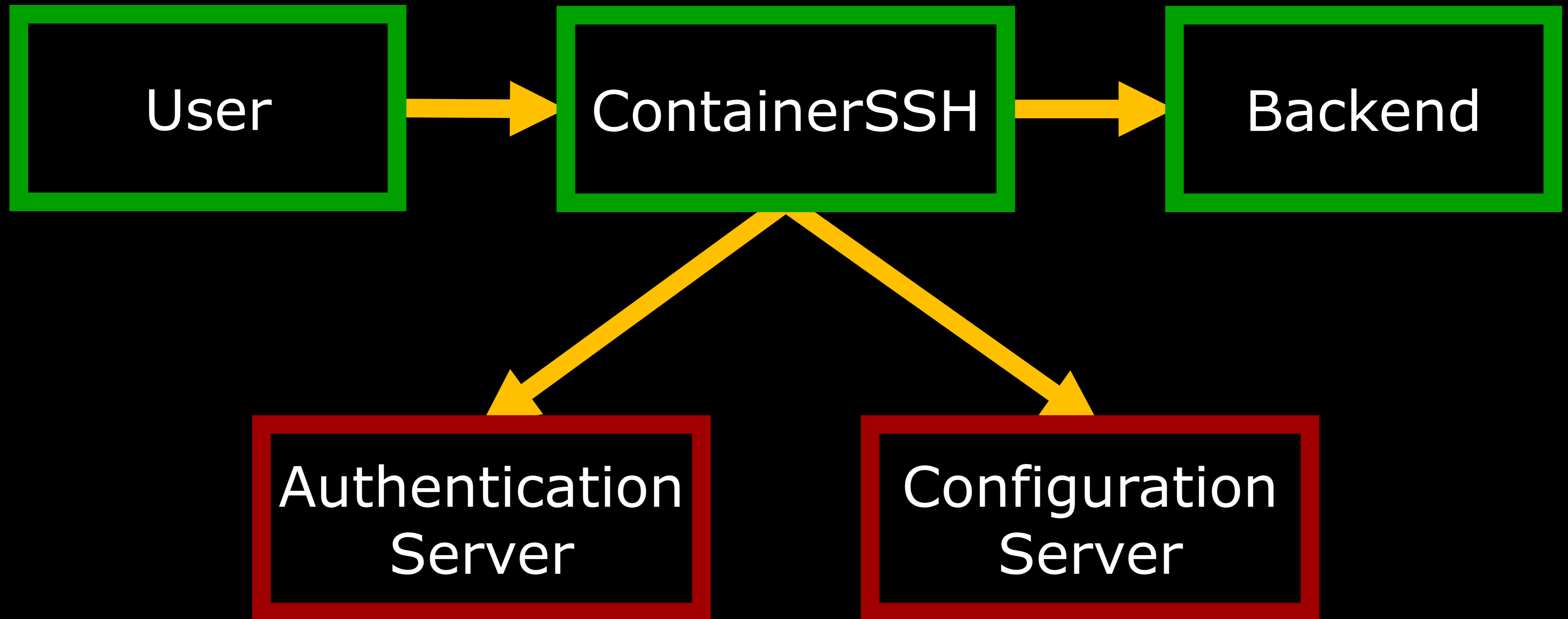




ContainerSSH

Launch containers on demand

containerssh.io



containerssh.yaml

audit:

format: **asciinema**

storage: **file**

file:

directory: **/tmp**

ssh:

hostkeys:

- **/etc/ssh/ssh_host_rsa_key**

auth:

url: **http://your-auth-server/**

New feature in
ContainerSSH 0.4



```
# ssh-keygen -A
```

```
# docker run -d \  
  --restart=always \  
  -v /srv/containerssh/config:/etc/containerssh/ \  
  -v /srv/containerssh/audit:/var/log/containerssh/audit/ \  
  --net=host \  
  containerssh/containerssh:0.4.0-PR3
```

```
# docker run -d \  
  --restart=always \  
  -p 127.0.0.1:8080:8080 \  
  -e CONTAINERSSH_ALLOW_ALL=1 \  
  containerssh/containerssh-test-authconfig:0.4.0-PR3
```

POST `/password` HTTP/1.1

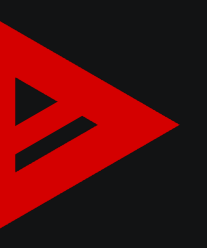
Content-Type: `application/json`

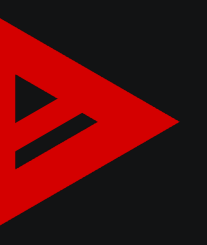
```
{  
  "username": "root",  
  "passwordBase64": "...",  
  "remoteAddress": "127.0.0.1",  
  "connectionId": "..."  
}
```

HTTP/1.1 200 OK

Content-Type: application/json

```
{  
  "success": true,  
}
```



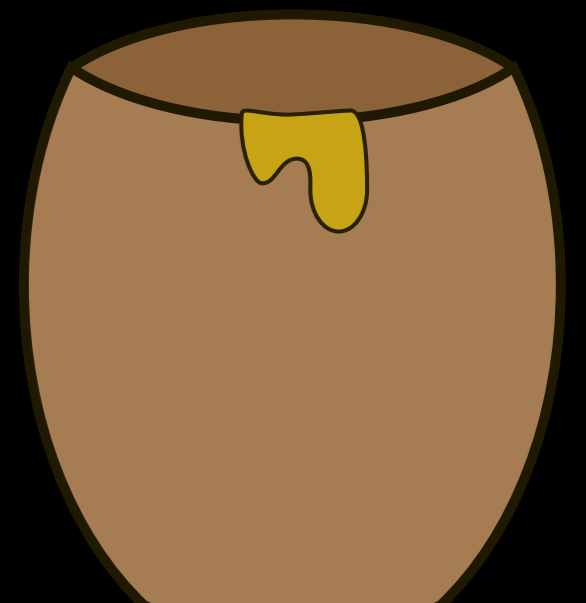




LOGGING

*** IN BINARY ***

FORMAT



containerssh.yaml

audit:

format: **binary**

storage: **file**

file:

directory: **/tmp**

ssh:

hostkeys:

- **/etc/ssh/ssh_host_rsa_key**

auth:

url: **http://your-auth-server/**

Change this!



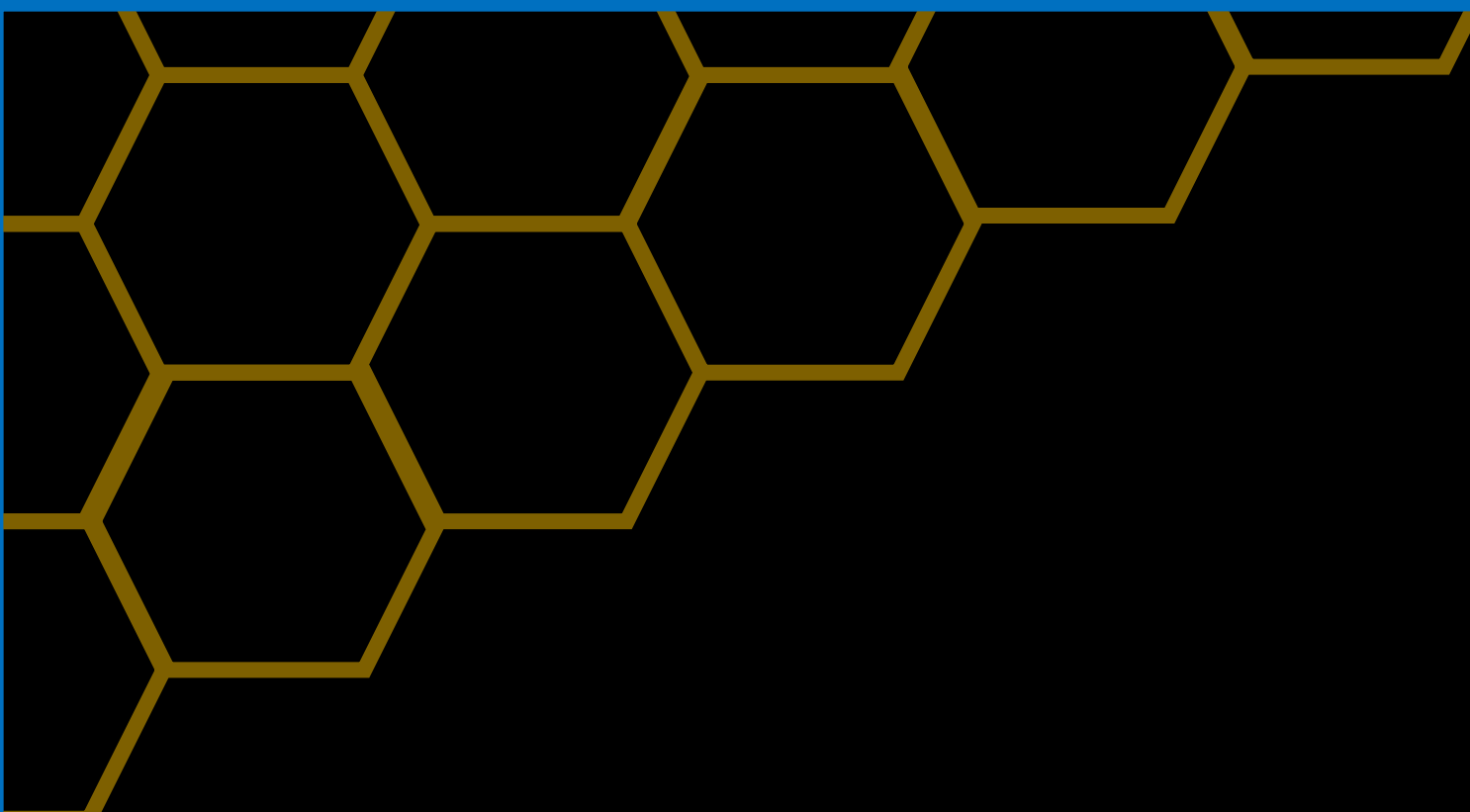

```
{program:"cat /proc/cpuinfo | grep name | wc -l"}
```

```
  {"subsystem":"sftp"}
```

```
  {"program":"ls -la /dev/ttyGSM* /dev/ttyUSB-mod*  
/var/spool/sms/* /var/log/smsd.log /etc/smsd.conf*  
/usr/bin/qmuxd /var/qmux_connect_socket  
/etc/config/simman /dev/modem* /var/config/sms/*"}
```

SSH attacks have become **sophisticated**.

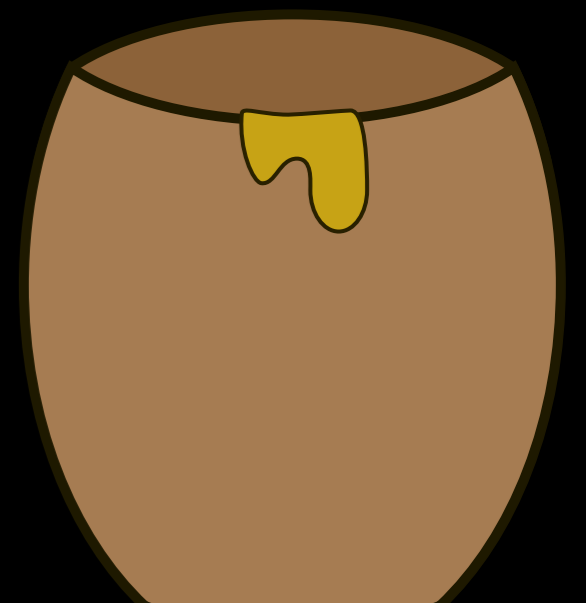
- Change your SSH port.
- Use SSH keys, not passwords.
- Use 4096-bit keys.
- Avoid common usernames.
(root, test, etc)
- Use key passwords or hardware tokens.
- Run security updates weekly.



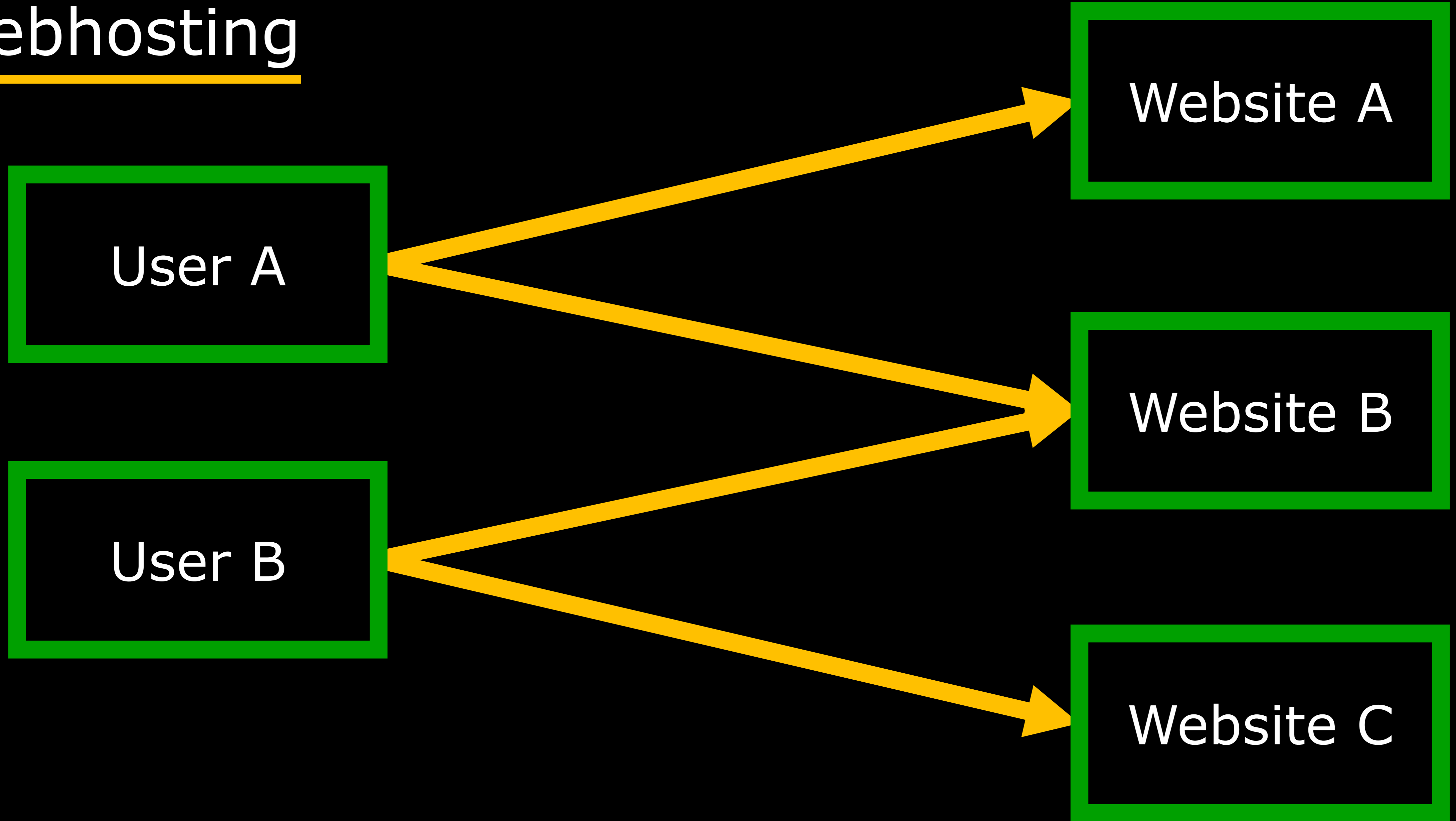
WHAT ELSE

*** CAN YOU DO ***

WITH THIS?



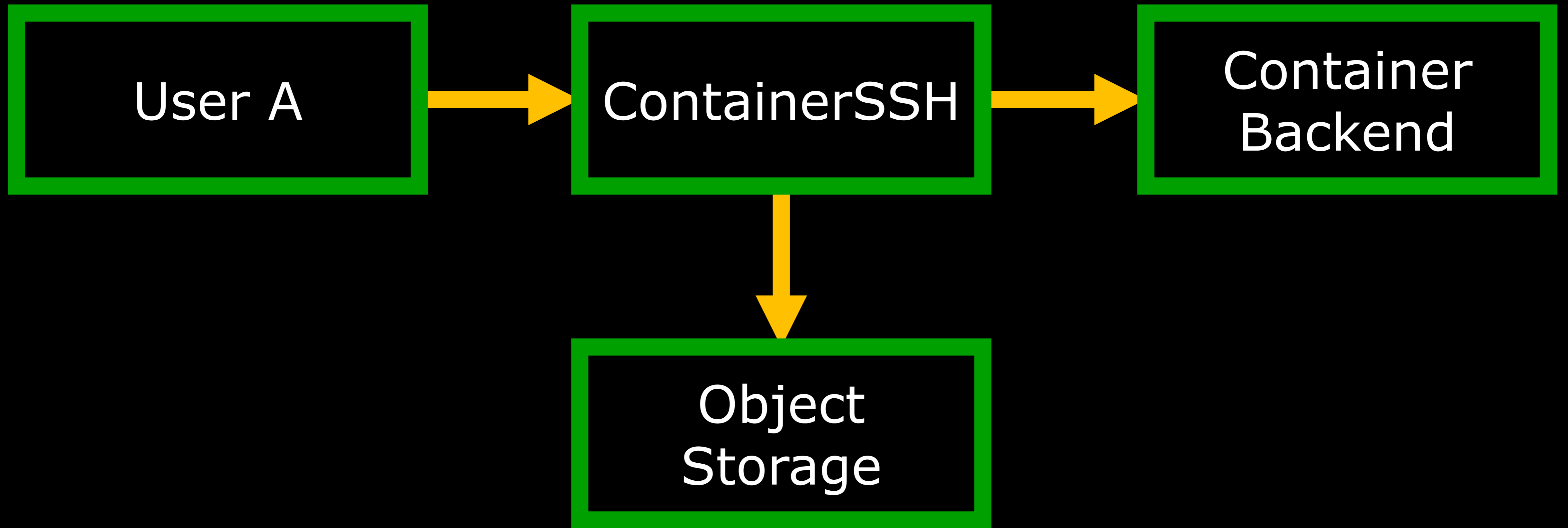
Webhosting



Linux Learning Environment



High Security Environment

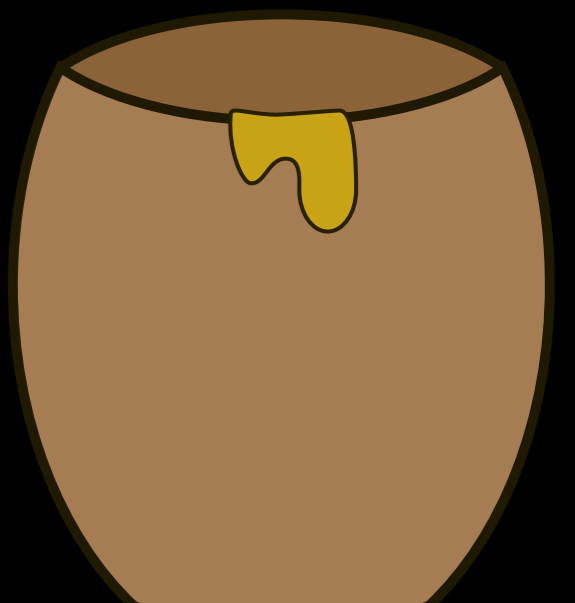




WHAT DOES

* **THE FUTURE** *

HOLD?



0.4.0: Audit Logging

This release will feature comprehensive audit logging.

- ✓ Add imagePullPolicy to dockerrun backend
- ✓ Multi-session containers
- ✓ Audit facility
- ✓ Integration tests
- ✓ Kubernetes backend does not display initial prompt

Future

This release collects all desired, but not scheduled features.

- ✓ SSH agent forwarding
- ✓ SSH port forwarding
- ✓ Keyboard-interactive authentication
- ✓ Web client
- ✓ Stopping ContainerSSH does not remove containers

Ideas

Ideas that are not sure to come.

- ✓ Kerberos/GSS-API authentication
- ✓ Direct shell backend
- ✓ SSH proxy backend
- ✓ PAM authentication
- ✓ Support Gitlab CI runners
- ✓ File manager

Learn more

containerssh.io

debugged.it

