mosh

@ColinDean

Notices.

My words are not necessarily my employers'. Duh.

Introduction

MObile SHell

mosh.org

Verbosely

Mosh is a replacement for SSH.

It's more robust and responsive, especially over Wi-Fi, cellular, and long-distance links.

Remote terminal application that

- allows roaming,
- supports intermittent connectivity, and
- provides intelligent local echo and line editing of user keystrokes.

Why mosh?

Change IP. Stay connected.

Connected UDP - may need firewall punch

Encrypted

State Synchronization Protocol (SSP) secured with AES-128

Sleep recovery

Reconnects automatically

No echo lag

Typed characters shown immediately, sent when possible

mosh is safe to use

No privileged code

No daemon

Uses SSH login

- Connects via SSH
- Starts mosh-server on server
- Starts mosh-client on client

^c always works

Control commands jump to front of send buffer

Few dependencies

- Protocol Buffers
- ncurses
- zlib
- OpenSSL / Nettle / Apple Common Crypto
- utempter (optional)

Use

ssh colin@cad.cx

becomes

mosh colin@cad.cx

Complex use

mosh --ssh="~/bin/ssh -i ./identity -p 2222" cad.cx

Use a config file!

~/.ssh/config

Caveats

- Supports UTF-8 *only*
- Must install mosh on server
 - No failover (yet)

Planned features

X11Forwarding

SSH Agent

IPv6

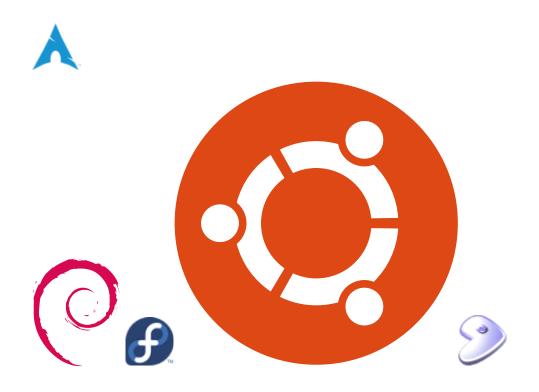
Availability



Availability on *BSD



Availability on Linux





Availability for macOS





Availability for Android



Common install invocation

```
sudo apt-get install mosh
brew install mobile-shell
```

or get it from mosh.org

Yell at me.

@colindean

cad.cx

github.com/colindean/talks